

patent no. US 6,652,119 B1



MiT8

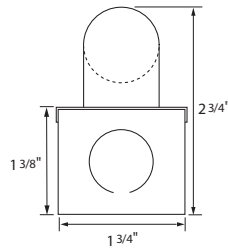
type:

LINEAR T8 FLUORESCENT

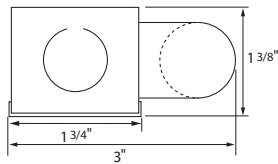
low profile T8 fluorescent fixture

- SPECIFICATIONS |**
- Fully assembled housing is formed and welded, 20 ga. steel, chemically treated to resist corrosion and enhance paint adhesion
 - Standard finish is high reflectance white powder coat, applied post production
 - Knock-outs accept standard electrical fittings (by others)
 - Rotational locking lamp holders
 - Available for one or two T8 17W, 25W, 32W or 40W linear fluorescent lamps
 - Standard Universal voltage electronic high power factor ballast is pre-wired to the lamp holders
 - Dimming and emergency battery back up options available (consult factory for availability and system compatibility)
 - UL and ULC listed for dry and damp locations
 - IBEW

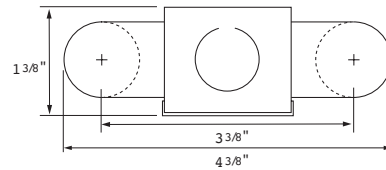
1T



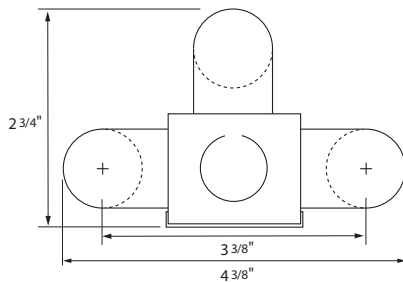
1S



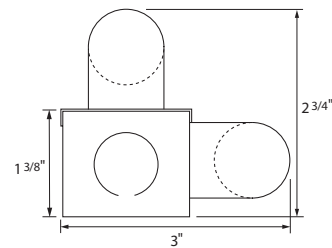
2S



3S



RA



SPECIFICATION / ORDER FORMAT					DIMENSIONAL INFO.
model no.	lamp position	wattage - lamp	voltage	options	overall length
MiT8	-1T	17 - 17w T8	/UNV	Dimming - (consult factory)	24"
	-1S	25 - 25w T8		/EB - emergency ballast (consult factory)	36"
	-2S	32 - 32w T8		/DL - damp location	48"
	-3S	40 - 40w T8		/CU - custom finish (consult factory)	60"
	-RA				

LENSES | Two-piece system comprised of polycarbonate channel and striated snap-on cover



U8LNP	Clear fine prismatic acrylic lens with mounting clips (sold by the foot)	__ft.
U8LNCF	Frosted acrylic lens with mounting clips (sold by the foot)	__ft.

TUBE GUARD |

TG	Tube Guard (sold by the foot)	__ft.
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CABLE KIT |

BAC-4N-W	Aircraft suspension kit, 4', white
BAC-4P-W	Aircraft suspension kit w/ power feed, 4', white

REFLECTORS | 20 ga. steel construction, white powder coat finish (consult factory for optional reflector materials and finishes)

<p>R1</p>	SYMMETRICAL	for fixture model
	MiT8-1T-R1-17	MiT8-1T17
	MiT8-1T-R1-25	MiT8-1T25
	MiT8-1T-R1-32	MiT8-1T32
	MiT8-1T-R1-40	MiT8-1T40
<p>R2</p>	ASYMMETRICAL	MiT8-1T17
	MiT8-1T-R2-17	MiT8-1T25
	MiT8-1T-R2-25	MiT8-1T32
	MiT8-1T-R2-32	MiT8-1T40
	MiT8-1T-R2-40	
<p>R3</p>	INSIDE ASYMMETRICAL	MiT8-1T17
	MiT8-1T-R3-17	MiT8-1T25
	MiT8-1T-R3-25	MiT8-1T32
	MiT8-1T-R3-32	MiT8-1T40
	MiT8-1T-R3-40	
<p>RE</p>	ELLIPTICAL	MiT5-1T17
	MiT8-1T-RE-17	MiT5-1T25
	MiT8-1T-RE-25	MiT5-1T32
	MiT8-1T-RE-32	MiT5-1T40
	MiT8-1T-RE-40	
<p>R4</p>	MiT8-1S-R4-17	MiT8-1S17
	MiT8-1S-R4-25	MiT8-1S25
	MiT8-1S-R4-32	MiT8-1S32
	MiT8-1S-R4-40	MiT8-1S40
<p>R5</p>	MiT8-2S-R5-17	MiT8-2S17
	MiT8-2S-R5-25	MiT8-2S25
	MiT8-2S-R5-32	MiT8-2S32
	MiT8-2S-R5-40	MiT8-2S40

F2



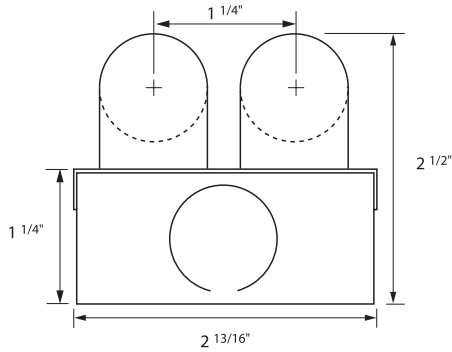
BFL257

type:

LINEAR T8 FLUORESCENT

low profile two lamp T8 fluorescent fixture

- SPECIFICATIONS |**
- Fully assembled housing is formed and welded, 20 ga. steel, chemically treated to resist corrosion and enhance paint adhesion
 - Standard finish is high reflectance white powder coat, applied post production
 - Knock-outs accept standard electrical fittings (by others)
 - Available for T8 13W, 14W, 15W, 17W, 25W, 32W or 40W linear fluorescent lamps
 - Standard 120V, 277V or Universal electronic high power factor ballast is pre-wired to the lamp holders
 - Dimming and emergency battery back up options available **(consult factory for availability and system compatibility)**
 - UL and ULC listed for dry and damp locations
 - IBEW manufactured and labeled
 - Made in the U.S.A.



SPECIFICATION / ORDER FORMAT			DIMENSIONAL INFO.	
model no.	voltage	options	lamp	overall length
BFL257-13	/120	Dimming - (consult factory)	2 x 13w T8	12"
BFL257-14	/277	/EB - emergency ballast (consult factory)	2 x 14w T8	15"
BFL257-15		/DL - damp location	2 x 15w T8	18"
		/CU - custom finish (consult factory)		
BFL257-17	/UNV		2 x 17w T8	24"
BFL257-25			2 x 25w T8	36"
BFL257-32			2 x 32w T8	48"
BFL257-40			2 x 40w T8	60"

T8
architectural LIGHTING

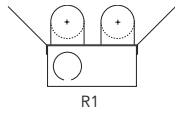
TUBE GUARD |

TG Tube Guard (sold by the foot) ___ft.
NOTE: Two tubes required per fixture

CABLE KIT |

BAC-4N-W Aircraft suspension kit, 4', white
 BAC-4P-W Aircraft suspension kit w/ power feed, 4', white

REFLECTORS | 20 ga. steel construction, white powder coat finish (consult factory for optional reflector materials and finishes)



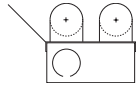
R1

SYMMETRICAL

257-R1-13
 257-R1-14
 257-R1-15
 257-R1-17
 257-R1-25
 257-R1-32
 257-R1-40

for fixture models

BFL257-13
 BFL257-14
 BFL257-15
 BFL257-17
 BFL257-25
 BFL257-32
 BFL257-40

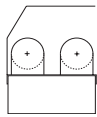


R2

ASYMMETRICAL

257-R2-13
 257-R2-14
 257-R2-15
 257-R2-17
 257-R2-25
 257-R2-32
 257-R2-40

BFL257-13
 BFL257-14
 BFL257-15
 BFL257-17
 BFL257-25
 BFL257-32
 BFL257-40



R3

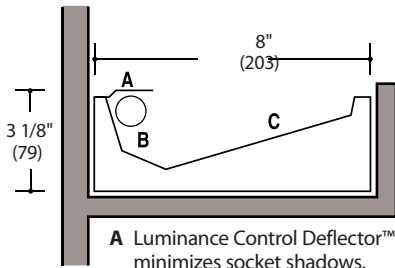
INSIDE ASYMMETRICAL

257-R3-13
 257-R3-14
 257-R3-15
 257-R3-17
 257-R3-25
 257-R3-32
 257-R3-40

BFL257-13
 BFL257-14
 BFL257-15
 BFL257-17
 BFL257-25
 BFL257-32
 BFL257-40

T8
 architectural LIGHTING

10.2012



A Luminance Control Deflector™ minimizes socket shadows.

B High reflectance aluminum reflector section for maximum horizontal light projection.

C High-reflectance white reflector section for efficient indirect distribution.



Cove-30

CC-AI-3000

Mounting and Distribution

Product Description

Concealed Cove steel fixture with excellent asymmetric distribution for effective perimeter lighting within an architectural cove. cULus Listed.

Ordering Guide

Product, lamping, & length						Options					
CC -	AI -	30				CWM -					
Mounting	Distribution	Series	Lamp Count	Nominal Length(ft)	Lamp Type	Finish	Ballast Options	Tandem Wiring	Circuiting	Other Options	Volts
CC Concealed Cove	AI Asymmetric indirect	30	1 1/2 → 2 → 1 1/2 → 2 → 1 1/2 → 2 → 2, 4 → 6 → 2, 4 → 8 →	2 → 3 → 4 → 6 → 8 →	T8 T5HO T5	CWM (matte white) is standard	ELB is std. for T8 or BX ELB/PS is std. for T5 or T5HO	-- → TW → see notes	1CWQ 2CWQ	AMA F EF WKC/WP see Other Options	120 277
			1 → 2 → 4 → 2 → 4 →	2 → 4 → 8 →	BX40 BX50		DIM see Ballast Options				
			2 → 4 →	3 → 6 →	BX39						
			see notes								

notes:
Lamp count = total number of lamps in the fixture
* For applications using 1-lamp in cross-section T5 or T5HO see Cove-25.
Tandem wiring not available for one-lamp cross-section fixtures
For ordering guide information in shaded areas, choose selection by reading ACROSS the shaded areas for correct specifications.

CC-AI-3024T8-CWM-ELB-TW-2CWQ-F-120 is a typical catalog number for a 2-lamp (2 lamps in cross-section), 4-foot long T8 fixture, matte white finish, electronic ballast, tandem-wired, pre-wired with two circuits, fuse, 120 volts.

Cross-section lamping			
1-T8	2-T8	2-T5 or T5HO	1-BX39,40 or 50

Ballast Options

Specify in place of **ELB** or **ELB/PS**:

DIM Dimming options are available. Please contact factory and provide make and model of requested dimming ballast to confirm fit and compatibility with the specified lamp configuration.

Other Options

AMA Adjustable Mounting Angle. Quick-attach component to tilt housing either **5°** or **10°**.

F Fuse. Slow or fast blow, determined by Litecontrol.

EF Emergency Fluorescent Ballast. Battery-powered ballast from a listed manufacturer will operate one T5 or T5HO lamp for 1 1/2 hours.

WKC/WP Corner Wiring Kit. With quick-connects.

Questions to Ask

1. Row information, including desired fixture lengths?
2. Lamp type? 3. Ballast options? 4. Other options? 5. 120 or 277 volt?

Quick Find 30

litecontrol.com

Specifications

HOUSING. Die-formed steel. Ends provided with a 7/8" hole to accommodate pre-wiring.

REFLECTORS. Die-formed steel, finished in high-reflectance white, precisely shaped for maximum horizontal light projection. Configuration with four reflector surfaces includes a high-reflectance specular aluminum insert. Luminance Control Deflector™ (LCD), finished in high-reflectance white, reduces wall brightness directly above fixture and minimizes socket shadows between fixtures.

LAMPING. Available in one- and two-lamp T5, T5HO or T8; one-lamp 39-, 40-, or 50-watt twin-tube compact fluorescent cross-sections .

BALLAST. Electronic Ballast (ELB - for T8 lamping) or (ELB/PS - for T5 or T5HO lamping), high power factor, thermally protected Class P, Sound Rated A, manufactured by a UL Listed manufacturer, as available, determined by Litecontrol. Ballasts with a voltage range of 120 to 277 will be used when fixture configuration and ballast availability allow. The minimum number of ballasts will be used.

TANDEM WIRING. When selected from Ordering Guide, fixtures wired to switch in-line lamps separately, providing two (two-lamp cross-section fixtures only) levels of light.

CIRCUITING. Fixtures are wired such that one end will have factory-installed push-in quick-connects. The other end will be stripped back 1/2" for quick connection in field. For fixtures to accommodate special circuits such as night light and emergency in-field wiring may be required. See Pre-wiring Information online for details.

BALLAST DISCONNECT. Fixture supplied with a ballast disconnect device to enable compliance with the NEC.

MOUNTING. Fixtures are installed in cove provided by others. See Planning for installation for detailed information.

CERTIFICATION. Fixtures are UL Listed  for United States and Canada. Fixtures are rated for damp locations. Consult factory for details.

Note: Litecontrol reserves the right to change specifications without notice for product development and improvement.

Planning for installation

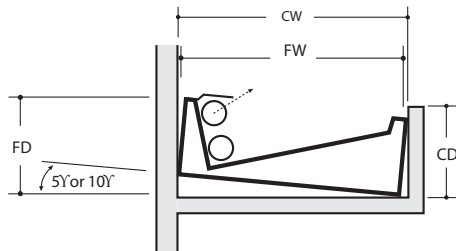
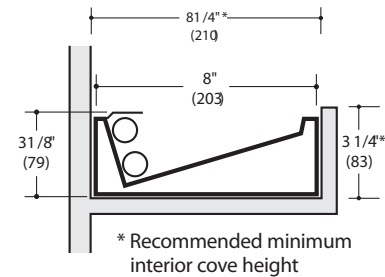
Cove provided by others. Interior cove dimensions should allow for 3 1/8" x 8" fixture cross-section to fit within cove, taking into consideration as-built tolerances. For maximum efficiency, wall and ceiling above cove should have matte surfaces with high reflectances. See design guidelines below. Maximum fixture weight per foot is four pounds.

Corner Wiring Kit

Provides the advantages of pre-wiring around corners. Make connections at each end of the flexible whip, push wires into fixtures, then snap onto headers. Specify **WKC/WP** (with push-in quick-connects).

Adjustable Mounting Angle (AMA) Option

When room geometry allows, fixture may be tilted, thereby lowering the beam and resulting in a more effective distribution of light into the room. **AMA** (Adjustable Mounting Angle) quick attach component snaps onto housing to raise back of fixture 5° or 10°. Recommended cove sizes are shown.



Angle of Tilt	Ordering Option	Fixture Depth (FD)	Fixture Width (FW)	Recommended Cove Depth (CD)	Recommended Cove Width (CW)
0	(standard)	3 1/8"	8"	3 1/4"	8 1/4"
5°	AMA	3 3/4"	8 1/4"	3 1/4"	8 5/8"
10°	AMA	4 1/4"	8 3/8"	3 1/4"	8 5/8"

Design guidelines

For maximum illumination level flexibility, five lamp combinations are available. For a one-lamp T5 or T5HO fixture in a 2 1/16" deep x 6" wide housing refer to Cove-25 (CC-AI-2500).

As the distance from fixture to ceiling is increased, light distribution becomes more uniform. To avoid excessive brightness on ceiling, maximize the distance from the fixture to the ceiling. A fixture with less output (i.e., one-lamp T8) may be tolerated closer to ceiling than one with higher output. To best evaluate an acceptable mounting position, a mock-up is recommended.

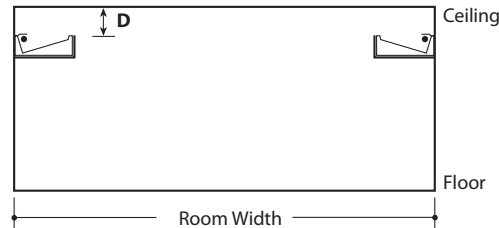
Position fixtures along walls as desired to satisfy visual design goals. To avoid excess corner brightness, stop fixtures 9-15" short of end walls; 0-6" from outside corner.

If using high-output T5 lamps, be advised that lamp lumens per foot for each of the lamp lengths are different. Caution is advised when mixing fixture lengths in rows.

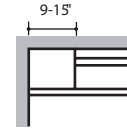
For even lower beam throw and better distribution, consider the Adjustable Mounting Angle (AMA) option. This lowers the beam throw by 5° or 10°. Size the cove to hide lamps and fixture. This should only be considered if viewing angles prevent a direct view of the raised portion of the fixture, or if a cut-off angle below horizontal is deemed acceptable.

If the zonal cavity method is used to calculate an average illumination, it is advised in a perimeter layout to derate the illuminance by 10%.

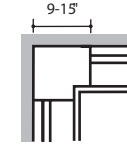
If uniformity of light levels is desired, room width should not exceed the following:
 Fixtures along one wall: 6xD
 Fixtures on opposite walls: 12xD



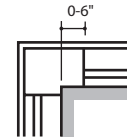
Single row end clearance



Inside corner positioning



Outside corner positioning



Photometric data

CANDLEPOWER SUMMARY		0° PLANE PERPENDICULAR TO LAMPS					OUTPUT LUMENS
ANGLE	0	45	90	135	180		
180	950	950	950	950	950	91	
175	977	964	957	928	923		
170	991	976	949	903	890		
165	949	976	932	873	854	260	
160	851	933	910	830	820		
155	758	854	881	802	816	387	
150	671	768	847	751	898		
145	591	687	803	758	1001	485	
140	510	602	756	805	1164		
135	439	517	698	864	1365	579	
130	370	441	639	957	1563		
125	304	366	576	1091	1657	675	
120	256	301	506	1217	1922		
115	209	237	431	1308	2006	750	
110	169	183	350	1365	1913		
105	135	135	260	1246	1313	614	
100	105	97	164	815	1020		
95	51	66	68	707	908	315	
90	3	3	10	149	212		

CC-AI-3014T5HO-LP/ELB		83.0 % Efficiency												
Litecontrol Certified Test Report #29616000														
RCC	70	80	10	70	50	30	10	50	30	10	50	10	10	0
RCC	70	80	10	70	50	30	10	50	30	10	50	10	10	0
RCR	.79	.79	.79	.79	.68	.68	.68	.46	.46	.46	.26	.26	.26	.08
0	.79	.69	.66	.63	.61	.59	.56	.53	.40	.39	.37	.23	.22	.22
1	.65	.60	.55	.51	.56	.51	.47	.44	.35	.33	.31	.20	.19	.18
2	.60	.52	.47	.43	.51	.45	.41	.37	.31	.28	.26	.18	.17	.15
3	.54	.46	.40	.36	.46	.40	.35	.31	.27	.24	.22	.16	.14	.13
4	.50	.40	.35	.30	.42	.35	.30	.26	.24	.21	.19	.14	.12	.11
5	.46	.36	.30	.26	.39	.31	.26	.23	.22	.18	.16	.13	.11	.09
6	.42	.32	.26	.22	.36	.28	.23	.19	.19	.16	.14	.11	.09	.08
7	.39	.29	.23	.19	.33	.25	.20	.17	.17	.14	.12	.10	.08	.07
8	.36	.26	.21	.17	.30	.23	.18	.15	.16	.13	.10	.09	.07	.06
9	.33	.24	.18	.15	.28	.21	.16	.13	.14	.11	.09	.08	.07	.05
10														

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	4151	83.03	100.00
90-0°	0	.00	.00
180-0°	4151	83.03	100.00

CANDLEPOWER SUMMARY		0° PLANE PERPENDICULAR TO LAMPS					OUTPUT LUMENS
ANGLE	0	45	90	135	180		
180	1682	1682	1682	1682	1682	163	
175	1610	1616	1684	1781	1872		
170	1485	1545	1669	1909	2080		
165	1345	1435	1646	2048	2306	494	
160	1214	1315	1601	2185	2439		
155	1086	1210	1556	2247	2537	793	
150	954	1090	1496	2266	2770		
145	846	966	1422	2324	3055	1062	
140	733	847	1339	2454	3345		
135	624	744	1223	2623	3604	1302	
130	532	626	1135	2760	3762		
125	433	520	1025	2892	3636	1449	
120	365	425	907	2933	3671		
115	297	338	773	2818	3416	1422	
110	248	263	625	2559	2834		
105	192	190	465	2006	1886	998	
100	154	141	295	1195	1297		
95	64	98	120	910	1013	421	
90	8	2	9	186	265		

CC-AI-3024T5HO-LP/ELB		81.0 % Efficiency												
Litecontrol Certified Test Report #29626000														
RCC	70	80	10	70	50	30	10	50	30	10	50	10	10	0
RCC	70	80	10	70	50	30	10	50	30	10	50	10	10	0
RCR	.77	.77	.77	.77	.66	.66	.66	.45	.45	.45	.26	.26	.26	.08
0	.77	.67	.64	.61	.60	.57	.55	.52	.39	.38	.37	.23	.22	.21
1	.64	.58	.54	.50	.54	.50	.46	.43	.34	.32	.30	.20	.19	.18
2	.58	.51	.46	.42	.49	.44	.40	.36	.30	.27	.25	.17	.16	.15
3	.53	.45	.39	.35	.45	.39	.34	.30	.27	.24	.21	.15	.14	.13
4	.48	.39	.34	.29	.41	.34	.29	.26	.24	.20	.18	.14	.12	.11
5	.44	.35	.29	.25	.38	.30	.26	.22	.21	.18	.16	.12	.11	.09
6	.41	.32	.26	.22	.35	.27	.22	.19	.19	.16	.13	.11	.09	.08
7	.38	.29	.23	.19	.32	.24	.20	.16	.17	.14	.12	.10	.08	.07
8	.35	.26	.20	.16	.30	.22	.17	.14	.15	.12	.10	.09	.07	.06
9	.32	.23	.18	.14	.28	.20	.16	.13	.14	.11	.09	.08	.06	.05
10														

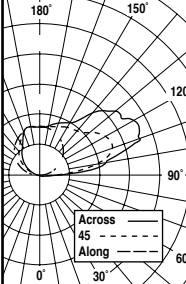
Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	8099	81.00	100.00
90-0°	0	.00	.00
180-0°	8099	81.00	100.00

Photometric data

CANDLEPOWER SUMMARY
0° PLANE PERPENDICULAR TO LAMPS

ANGLE	0	45	90	135	180	OUTPUT LUMENS
180	467	467	467	467	467	
175	470	469	467	469	475	45
170	474	473	463	481	494	
165	464	474	454	489	510	135
160	419	456	442	494	529	
155	378	419	430	500	559	212
150	336	378	408	504	595	
145	297	338	392	509	690	276
140	258	299	367	533	795	
135	224	257	339	589	885	340
130	189	221	309	659	955	
125	156	186	278	709	954	386
120	134	153	243	741	1048	
115	108	120	205	753	1056	408
110	89	88	165	744	1016	
105	69	69	125	674	775	337
100	56	48	80	489	627	
95	31	34	36	360	439	171
90	1	3	4	98	128	



1-T8

CC-AI-3014T8-LP/ELB 79.5 % Efficiency
Litecontrol Certified Test Report #29611000

RCC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	.76	.76	.76	.76	.65	.65	.65	.65	.44	.44	.44	.25	.25	.25	.08	.08	.08	.00
1	.69	.66	.63	.60	.59	.56	.54	.51	.38	.37	.36	.22	.21	.21	.07	.07	.07	.00
2	.62	.57	.53	.49	.53	.49	.45	.42	.34	.31	.29	.19	.18	.17	.06	.06	.06	.00
3	.57	.50	.45	.41	.49	.43	.39	.35	.30	.27	.25	.17	.16	.15	.05	.05	.05	.00
4	.52	.44	.38	.34	.44	.38	.33	.30	.26	.23	.21	.15	.14	.12	.05	.04	.04	.00
5	.48	.38	.33	.29	.40	.34	.29	.25	.23	.20	.18	.13	.12	.11	.04	.04	.03	.00
6	.44	.35	.29	.25	.37	.30	.25	.22	.21	.18	.15	.12	.10	.09	.04	.03	.03	.00
7	.40	.31	.25	.21	.34	.27	.22	.19	.18	.15	.13	.11	.09	.08	.03	.03	.03	.00
8	.37	.28	.22	.18	.31	.24	.19	.16	.17	.14	.11	.10	.08	.07	.03	.03	.02	.00
9	.34	.25	.20	.16	.29	.22	.17	.14	.15	.12	.10	.09	.07	.06	.03	.02	.02	.00
10	.32	.23	.18	.14	.27	.20	.15	.12	.14	.11	.09	.08	.06	.05	.03	.02	.02	.00

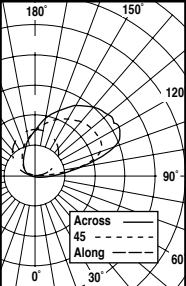
Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	2305	79.51	100.00
90-0°	0	.00	.00
180-0°	2305	79.51	100.00

CANDLEPOWER SUMMARY
0° PLANE PERPENDICULAR TO LAMPS

ANGLE	0	45	90	135	180	OUTPUT LUMENS
180	776	776	776	776	776	
175	685	711	770	837	879	74
170	599	648	766	896	970	
165	546	588	749	958	1068	220
160	493	539	732	1009	1168	
155	445	491	709	1058	1252	360
150	400	446	678	1099	1348	
145	353	403	642	1146	1424	483
140	307	356	601	1182	1501	
135	270	310	554	1211	1549	579
130	231	265	503	1226	1600	
125	191	224	451	1243	1577	633
120	164	185	392	1245	1611	
115	136	148	330	1215	1549	629
110	113	118	265	1142	1347	
105	92	88	194	958	1044	485
100	75	67	122	674	747	
95	38	48	51	366	430	206
90	3	1	5	97	139	



2-T8

CC-AI-3024T8-LP/ELB 63.2 % Efficiency
Litecontrol Certified Test Report #29521000

RCC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	.60	.60	.60	.60	.51	.51	.51	.51	.35	.35	.35	.20	.20	.20	.06	.06	.06	.00
1	.55	.52	.50	.48	.47	.45	.43	.41	.31	.30	.28	.18	.17	.17	.06	.05	.05	.00
2	.50	.45	.42	.39	.42	.39	.36	.33	.27	.25	.23	.15	.14	.14	.05	.05	.04	.00
3	.45	.40	.36	.32	.39	.34	.31	.28	.24	.21	.20	.14	.13	.12	.04	.04	.04	.00
4	.41	.35	.31	.27	.35	.30	.26	.24	.21	.18	.17	.12	.11	.10	.04	.04	.03	.00
5	.38	.30	.26	.23	.32	.27	.23	.20	.18	.16	.14	.11	.09	.08	.03	.03	.03	.00
6	.35	.28	.23	.20	.29	.24	.20	.17	.16	.14	.12	.10	.08	.07	.03	.03	.02	.00
7	.32	.25	.20	.17	.27	.21	.17	.15	.15	.12	.10	.09	.07	.06	.03	.02	.02	.00
8	.29	.22	.18	.15	.25	.19	.15	.13	.13	.11	.09	.08	.06	.05	.02	.02	.02	.00
9	.27	.20	.16	.13	.23	.17	.14	.11	.12	.10	.08	.07	.06	.05	.02	.02	.02	.00
10	.25	.18	.14	.11	.21	.16	.12	.10	.11	.09	.07	.06	.05	.04	.02	.02	.01	.00

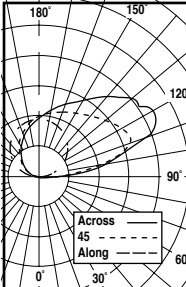
Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	3664	63.18	100.00
90-0°	0	.00	.00
180-0°	3664	63.18	100.00

CANDLEPOWER SUMMARY
0° PLANE PERPENDICULAR TO LAMPS

ANGLE	0	45	90	135	180	OUTPUT LUMENS
180	963	963	963	963	963	
175	898	916	961	1006	1046	93
170	827	862	954	1061	1127	
165	776	811	935	1117	1219	274
160	701	766	907	1156	1309	
155	631	705	882	1204	1394	440
150	565	638	843	1253	1477	
145	500	572	802	1289	1604	585
140	440	506	754	1331	1745	
135	383	440	694	1382	1879	711
130	326	376	633	1469	2015	
125	267	321	567	1540	2044	807
120	229	264	497	1617	2194	
115	188	209	416	1649	2168	843
110	154	164	339	1598	1956	
105	116	121	247	1395	1377	660
100	100	91	153	929	1092	
95	45	63	62	587	635	289
90	1	1	5	118	158	



2-BX

CC-AI-3024BX-ELB 74.5 % Efficiency
Litecontrol Certified Test Report #29620000

RCC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	.71	.71	.71	.71	.61	.61	.61	.61	.41	.41	.41	.24	.24	.24	.08	.08	.08	.00
1	.65	.62	.59	.57	.55	.53	.51	.48	.36	.35	.34	.21	.20	.20	.07	.06	.06	.00
2	.59	.54	.49	.46	.50	.46	.42	.40	.31	.29	.28	.18	.17	.16	.06	.06	.05	.00
3	.54	.47	.42	.38	.46	.40	.36	.33	.28	.25	.23	.16	.15	.14	.05	.05	.04	.00
4	.49	.41	.36	.32	.41	.36	.31	.28	.24	.22	.20	.14	.13	.12	.05	.04	.04	.00
5	.45	.36	.31	.27	.38	.32	.27	.24	.22	.19	.17	.13	.11	.10	.04	.04	.03	.00
6	.41	.33	.27	.23	.35	.28	.23	.20	.19	.16	.14	.11	.10	.08	.04	.03	.03	.00
7	.38	.29	.24	.20	.32	.25	.21	.17	.17	.14	.12	.10	.08	.07	.03	.03	.02	.00
8	.35	.26	.21	.17	.29	.23	.18	.15	.16	.13	.11	.09	.08	.06	.03	.02	.02	.00
9	.32	.24	.18	.15	.27	.20	.16	.13	.14	.11	.09	.08	.07	.06	.03	.02	.02	.00
10	.30	.21	.17	.13	.25	.18	.14	.12	.13	.10	.08	.08	.06	.05	.02	.02	.02	.00

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	4696	74.54	100.00
90-0°	0	.00	.00
180-0°	4696	74.54	100.00

TOTAL LUMENS 2484.0 lm
Tj 85°

TOTAL LUMENS 2059.2 lm
Ta 25°C

L1



CHANNEL

Our RibbonLyte can be mounted in countless ways, and offers lighting designers nearly infinite possibilities to be creative with lighting in ways they never could before. But for straight, linear installations we always recommend mounting in channel. It is the best way to keep your RibbonLyte secure and it gives you the ability to easily create a custom fixture tailored to the exact length you specify.

Pictured: Round and AV1 channel



CHANNEL AT3



Available in 1 and 2 meter lengths

Slim profile, grazer lens

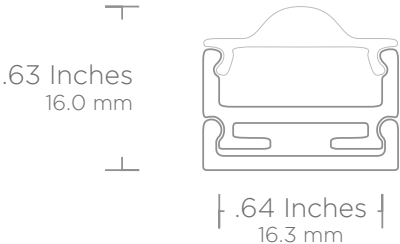
Top channel slides into fixed base channel

UV resistant

IP20 grade aluminum

End caps provide a finished look to the fixture

DIMENSIONS



PART NUMBER BUILDER for purchasing channel individually

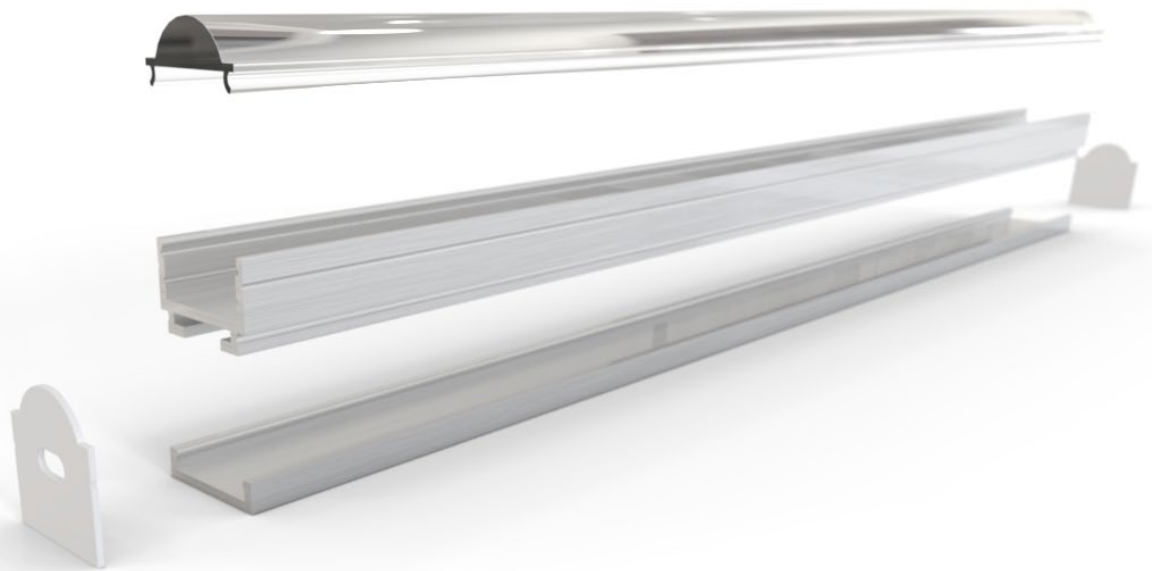
Category	+	Model	+	Length	+	Lens	=	Your Part Number
<input type="text" value="CH"/>		<input type="text" value="AT3"/>		<input type="text"/>		<input type="text"/>		Example: CHAT32G
				1 - 1 Meter 2 - 2 Meter		Blank - None G - Grazer		

PART NUMBER BUILDER for purchasing channel and ribbonlyte as a package

Category	+	Channel Model	+	Channel Lens	+	LED Voltage	+	LED Waterproof Rating	+
<input type="text" value="CH"/>		<input type="text" value="AT3"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>	
				Blank - None G - Grazer		12 - 12 Volts 24 - 24 Volts		Blank - None 65 - IP65 68 - IP68	
LED Wattage	+	LED Color (Temp.)	+	Length	=	Your Part Number			
<input type="text"/>		<input type="text"/>		<input type="text"/>		Example: CHAT3G124.42410			
See RibbonLyte Section for Available Wattages		See RibbonLyte Section for Available Colors and Color Temperatures		Your Desired Length in Feet					

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CHANNEL AT3



ACCESSORIES FOR AT3



End cap with wiring hole
CHCAPAT30



End cap without hole
CHCAPAT3



Grazer lens
CHLENSAT31G
CHLENSAT32G



Mounting Rail
CHMNTAT3

RIBBONLYTE COMPATIBILITY

The following RibbonLyte will fit in AT3 channel:

Non-Waterproof (IP40 + IP65)	Static White:	1.5	2.2	3.0	4.4	5.0	6.0	8.8
	Variable White:	3.0	VWA	VWR				
	Static Color:	1.5	2.2	3.0	4.4	5.0	6.0	8.8
	RGB:	2.2	4.4	RGBW	RGBA			
	Side:	2.9						
IP68	Static White:	1.5	2.2	3.0	4.4	5.0	6.0	
	Variable White:	3.0	VWA	VWR				
	Static Color:	1.5	2.2	3.0	4.4	5.0	6.0	
	RGB:	2.2	4.4	RGBW	RGBA	Addressable		
	Side (IP67):	2.9						

Rev. 2013.09.05

CHANNEL MATRIX

AC1



Part: CHAC1
Dimensions: 0.63" W x 0.63" H
Lenses: Clear, Milky, Frosted
Mounting Clips

AC2



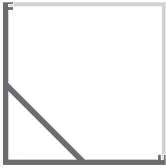
Part: CHAC2
Dimensions: 0.63" W x 0.63" H
Lenses: Clear, Milky, Frosted
Mounting Clips

AC3



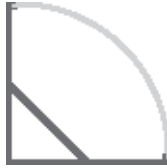
Part: CHAC3
Dimensions: 0.73" W x 0.73" H
Lenses: Clear, Milky, Frosted
Mounting Clips

AC4



Part: CHAC4
Dimensions: 1.17" W x 1.17" H
Lenses: Clear, Milky, Frosted

AC5



Part: CHAC5
Dimensions: 1.17" W x 1.17" H
Lenses: Clear, Milky, Frosted

AA



Part: CHAA
Dimensions: 0.76" W x 0.32" H
Lenses: Clear, Milky, Frosted

AR1



Part: CHAR1
Dimensions: 0.90" W x 0.35" H
Lenses: Clear, Milky, Frosted

AR2



Part: CHAR2
Dimensions: 0.92" W x 0.60" H
Lenses: Clear, Milky, Frosted

AR3



Part: CHAR3
Dimensions: 1.32" W x 0.41" H
Lenses: Clear, Milky, Frosted

AR4



Part: CHAR4
Dimensions: 0.86" W x 0.48" H
Lenses: Clear, Milky, Frosted

AS1



Part: CHAS1
Dimensions: 0.67" W x 0.35" H
Lenses: Clear, Milky, Frosted
Mounting Clips

AS2



Part: CHAS2
Dimensions: 0.68" W x 0.60" H
Lenses: Clear, Milky, Frosted
Mounting Clips

Rev. 2013.09.05

CHANNEL MATRIX

AS3



Part: CHAS3
 Dimensions: 0.92" W x 0.41" H
 Lenses: Clear, Milky, Frosted
 Mounting Clips

AS4



Part: CHAS4
 Dimensions: 0.63" W x 0.48" H
 Lenses: Clear, Milky, Frosted
 Mounting Clips

AT1



Part: CHAT1
 Dimensions: 0.78" W x 0.78" H
 Lenses: Clear, Milky, Frosted
 Mounting Rail

AT2



Part: CHAT2
 Dimensions: 0.78" W x 0.78" H
 Lenses: Clear, Milky, Frosted
 Mounting Rail

AT3



Part: CHAT3
 Dimensions: 0.78" W x 0.62" H
 Lenses: Grazer
 Mounting Rail

AV1



Part: CHAV1
 Dimensions: 0.75" W x 0.75" H
 Lenses: Clear, Milky, Frosted
 Mounting Clips

AP1



Part: CHAP1
 Dimensions: 0.75" W x 0.82" H
 Lenses: Clear, Milky, Frosted
 Tilttable Stands

AL60



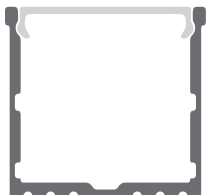
Part: CHAL60
 Dimensions: 0.67" W x 0.54" H
 Lenses: Grazer

W31



Part: CHW31
 Dimensions: 1.72" W x 1.38" H
 Lenses: Clear, Milky, Frosted

W35



Part: CHW35
 Dimensions: 1.38" W x 1.38" H
 Lenses: Clear, Milky, Frosted

WH35




Part: CHW35
 Dimensions: 1.38" W x 1.48" H
 Lenses: Clear, Milky, Frosted
 Hanging Kit

ROUND



Part: CHROUND
 Dimensions: 0.80" Diameter
 Lenses: Clear, Milky, Frosted
 Mounting Clips

Rev. 2013.09.05

A photograph of a modern bar and bakery area. The bar is long and curved, with a wooden top and a white base. The ceiling is made of horizontal wooden slats. There are several pendant lights hanging from the ceiling, and a large display of bottles on a shelf above the bar. A person is standing behind the bar. In the foreground, there is a dark table with a laptop and a vase of flowers. The overall atmosphere is warm and modern.

STATIC WHITE RIBBONLYTE

White lighting is the way we see the world. With so many variations of color temperature and wattage, our Static White RibbonLyte will help you create the ultimate lighting scheme.

Whether you want to imitate the warm glow of candlelight, or provide a high visibility work environment similar to a bright afternoon outdoors, we can provide a solution to fill your needs.

Not only do we offer a variety of color temperatures, but our RibbonLyte comes in a number of wattages as well. As energy costs rise, the benefits of our lower wattage LEDs are even more apparent.

Pictured: RibbonLyte 4.4 3000K @Fetta Panini Bar, Toronto Pearson Intl Airport, Mississauga, ON
Designed by ICRAVE

White

RIBBONLYTE 1.5

RoHS
Compliant



Dry or wet location flexible LEDs

12 or 24 Volt

1.5 Watts per foot, 18 LEDs per foot

IP65 and IP68 versions are UV resistant

2400K, 2700K, 3000K, 3500K, 4100K, and 6000K

Cuttable every 1.97 inches (12V) or 3.94 inches (24V)



DIMENSIONS

1.5 - 12 Volt

LED on center: 0.65 Inches / 16.5 mm

Height: 0.088 Inches / 2.2 mm

Width: 0.31 Inches / 8 mm

Length between cuttable points: 1.97 Inches / 50 mm

1.5 - 24 Volt

LED on center: 0.65 Inches / 16.5 mm

Height: 0.088 Inches / 2.2 mm

Width: 0.31 Inches / 8 mm

Length between cuttable points: 3.94 Inches / 100mm



PART NUMBER BUILDER

Category	Waterproof	Voltage	Wattage	Color Temperature	
RB	+ [] +	[] +	1.5	+ [] =	Your Part Number
	65 - IP65 68 - IP68 Blank - None (IP40)	12 - 12V 24 - 24V		24 - 2400K 27 - 2700K 30 - 3000K 35 - 3500K 41 - 4100K 60 - 6000K	Example: RB121.527

Rev. 2013.08.08

RIBBONLYTE 1.5

SPECIFICATIONS RIBBONLYTE 1.5

Operating Voltage	12 Volt / 24 Volt
Power Consumption	1.5 Watts / Linear Foot
Amperage	12v: 125 mA / Foot 24v: 63 mA / Foot
Protection Rating	IP40/IP65/IP68
Dimming	Triac / 0-10 Volt / DMX / Lutron A-Series 1% dimming LED drivers
Operating Temperature	-40° C to 70° C
Color Temperature	2400K 2700K 3000K 3500K 4100K 6000K
Lumen Output	2400K: 92.86 lm/ft; 2700K: 80.46 lm/ft; 3000K: 82.8 lm/ft; 3500K: 96.84 lm/ft; 4100K: 85.68 lm/ft; 6000K: 89.64 lm/ft
Binning Tolerance	+/- 100K
LED Beam Angle	160°
Lamp Life	50,000 Hours
Cuttable	12v: Every 1.97" (50 mm) 24v: Every 3.94" (100 mm)
CRI*	2400K: >50.4; 2700K: >56; 3000K: >62.8; 3500K: >66.3; 4100K: >69.2; 6000K: >73.8
*CRI >90 available upon request	
Lumens per Watt (per ft)	2400K: 61.91 lm/W; 2700K: 53.64 lm/W; 3000K: 55.2 lm/W; 3500K: 64.56 lm/W; 4100K: 57.12 lm/W; 6000K: 59.76 lm/W
Constant Voltage	Yes
Max Length Before Additional Power is Needed	12V: 29' 4.6" (9 Meters) 24V: 68' 7.5" (21 Meters)

DIMENSIONS RIBBONLYTE 1.5

IP40 + IP65

Width	0.31" / 8 mm
Length	Up to 29' 4.6" (12V) in ~2 inch sections or 68' 7.5" (24V) in ~4 inch sections
Height	IP40: 0.088" / 2.2 mm IP65: 0.125" / 3.2 mm

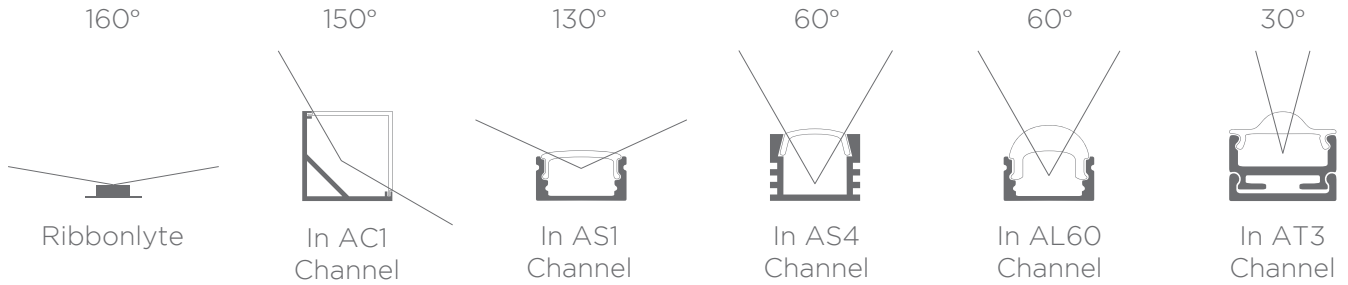
OUTDOOR - IP68

Width	0.41" / 10.4 mm
Length	Up to 29' 4.6" (12V) in ~2 inch sections or 68' 7.5" (24V) in ~4 inch sections
Height	0.18" / 4.5 mm

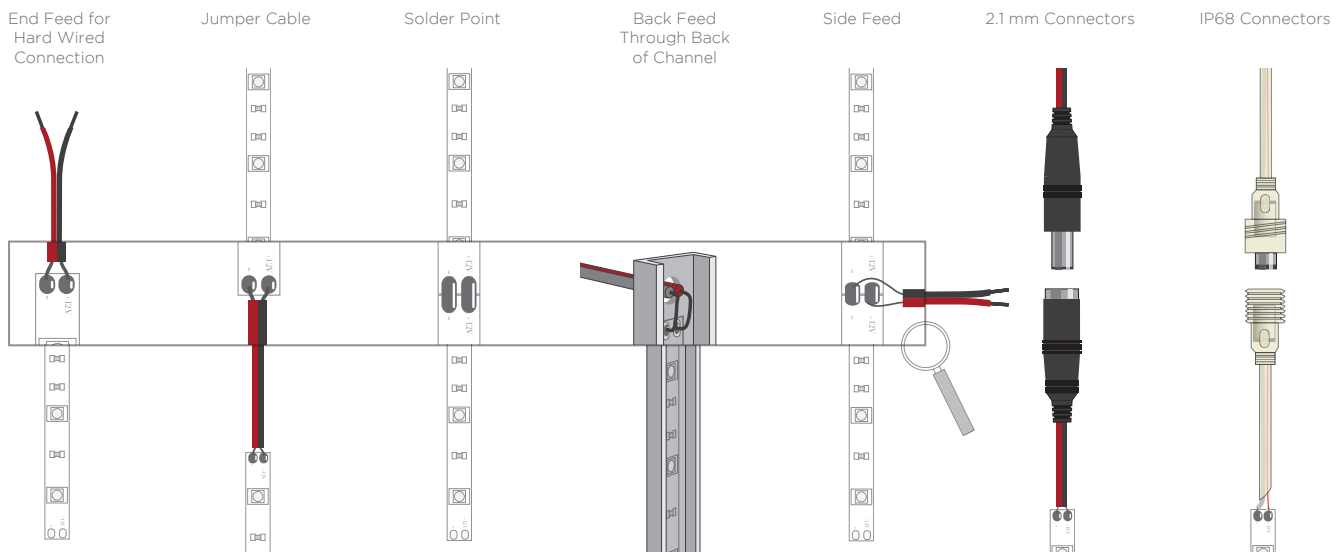
Rev. 2013.08.08

RIBBONLYTE 1.5

SAMPLE BEAM ANGLES



CONNECTION OPTIONS



CHANNEL COMPATIBILITY

Protection

Non-Waterproof (IP40)

IP65

IP68

Compatible Channels

All Channel

All Channel

All Channel

RIBBONLYTE 1.5

USAGE GUIDELINES

Compatible with a wide variety of control products including the entire line of Lutron dimming systems.

For use with Acolyte drivers, triac dimming modules, 0-10 modules and interface controllers (DMXINF models).

Use with non-Acolyte triac, MLV or ELV drivers is not supported or warranted.

Due to the nature of the product, RibbonLyte cuttable lengths are generally longer or shorter than the customer requested length. Unless specified, RibbonLyte is factory cut at the shorter cuttable point.

IP65 and IP68 versions can be used in wet, outdoor locations around swimming pools and spa tubs, but not submerged in swimming pools and spa tubs.

We reserve the right to make changes to product lineup, specifications, design and finishes at any time without notice.

ACCESSORIES RIBBONLYTE 1.5



CHANNEL
See Acolyte Channel Guide



DRIVERS
See Acolyte Drivers Guide



CONTROLLERS
See Acolyte Controllers Guide




PARTS AND ACCESSORIES
See Acolyte Parts and Accessories Guide

STATIC WHITE RIBBONLYTE COMPARISON GUIDE

SPECIFICATIONS	1.5	2.2	3.0	4.4	5.0	6.0	8.8
Operating Voltage	12 V and 24 V versions						24 V
Power Consumption	1.5 W / Ft	2.2 W / Ft	3.0 W / Ft	4.4 W / Ft	5.0 W / Ft	6.0 W / Ft	8.8 W / Ft
Current (mA) - 12 V	125	183	250	366	417	500	--
Current (mA) - 24 V	63	92	125	183	208	250	367
Protection Rating	IP45, IP65 and IP68						
Beam Angle	160°						
Color Temperatures	2400K, 2700K, 3000K, 3500K, 4100K, 6000K (5.0 is only avail. in 3000K, 4100K, 6000K)						
LED's / Foot	18	9	36	18	15	72	36
Width - IP45 / IP65	0.31"	0.39"	0.31"	0.39"	0.41"	0.50"	0.59"
Width - IP68	0.41"	0.52"	0.41"	0.52"	0.54"	0.66"	0.70"
Cuttable Length - 12 V	1.97"	3.94"	0.98"	1.97"	2.46"	1.97"	--
Cuttable Length - 24 V	3.94"	6.55"	1.97"	3.94"	4.92"	3.94"	1.97"
Max Length - 12 V	29' 4.6"	26' 3"	19' 8.2"	16' 4.9"	16' 4.9"	16' 4.9"	--
Max Length - 24 V	68' 7.5"	45' 10.3"	32' 9.7"	26' 3"	32' 9.7"	26' 3.0"	25' 7.1"
Lumen / Ft - 2400 K	92.86	149.13	185.73	298.26	--	371.46	596.52
Lumen / Ft - 2700 K	80.46	153.99	160.92	307.98	--	321.84	615.96
Lumen / Ft - 3000 K	82.80	175.68	165.60	351.36	438.91	331.20	702.72
Lumen / Ft - 3500 K	96.84	161.10	193.68	322.20	--	387.36	644.40
Lumen / Ft - 4100 K	85.68	157.23	171.36	314.46	441.96	342.72	628.92
Lumen / Ft - 6000 K	89.64	169.38	179.28	338.76	445.01	358.56	677.52
Lumens / Watt - 2400 K	61.91	67.79	61.91	67.79	--	61.91	67.69
Lumens / Watt - 2700 K	53.64	70.00	53.64	70.00	--	53.64	70.00
Lumens / Watt - 3000 K	55.2	79.85	55.2	79.85	87.78	55.20	79.85
Lumens / Watt - 3500 K	64.56	73.23	64.56	73.23	--	64.56	73.23
Lumens / Watt - 4100 K	57.12	71.47	57.12	71.47	88.39	57.12	71.47
Lumens / Watt - 6000 K	59.76	77.00	59.76	77.00	89.00	59.76	77.00
CRI - 2400 K	50.4	50.5	50.4	50.5	--	50.4	50.5
CRI - 2700 K	56.0	58.9	56.0	58.9	--	56.0	58.9
CRI - 3000 K	62.8	63.0	62.8	63.0	72.0	62.8	63.0
CRI - 3500 K	66.3	65.3	66.3	65.3	--	66.3	65.3
CRI - 4100 K	69.2	70.8	69.2	70.8	70.0	69.2	70.8
CRI - 6000 K	73.8	73.4	73.8	73.4	69.0	73.8	73.4

Rev. 2013.08.08



STATIC WHITE RIBBONLYTE

White lighting is the way we see the world. With so many variations of color temperature and wattage, our Static White RibbonLyte will help you create the ultimate lighting scheme.

Whether you want to imitate the warm glow of candlelight, or provide a high visibility work environment similar to a bright afternoon outdoors, we can provide a solution to fill your needs.

Not only do we offer a variety of color temperatures, but our RibbonLyte comes in a number of wattages as well. As energy costs rise, the benefits of our lower wattage LEDs are even more apparent.

Pictured: RibbonLyte 4.4 3000K @Fetta Panini Bar, Toronto Pearson Intl Airport, Mississauga, ON
Designed by ICRAVE

White

RIBBONLYTE 1.5

RoHS
Compliant



Dry or wet location flexible LEDs

12 or 24 Volt

1.5 Watts per foot, 18 LEDs per foot

IP65 and IP68 versions are UV resistant

2400K, 2700K, 3000K, 3500K, 4100K, and 6000K

Cuttable every 1.97 inches (12V) or 3.94 inches (24V)



DIMENSIONS

1.5 - 12 Volt

LED on center: 0.65 Inches / 16.5 mm

Height: 0.088 Inches / 2.2 mm

Width: 0.31 Inches / 8 mm

Length between cuttable points: 1.97 Inches / 50 mm

1.5 - 24 Volt

LED on center: 0.65 Inches / 16.5 mm

Height: 0.088 Inches / 2.2 mm

Width: 0.31 Inches / 8 mm

Length between cuttable points: 3.94 Inches / 100mm



PART NUMBER BUILDER

Category	Waterproof	Voltage	Wattage	Color Temperature	
RB	+ [] +	[] +	1.5	+ [] =	Your Part Number
	65 - IP65 68 - IP68 Blank - None (IP40)	12 - 12V 24 - 24V		24 - 2400K 27 - 2700K 30 - 3000K 35 - 3500K 41 - 4100K 60 - 6000K	Example: RB121.527

Rev. 2013.08.08

RIBBONLYTE 1.5

SPECIFICATIONS RIBBONLYTE 1.5

Operating Voltage	12 Volt / 24 Volt
Power Consumption	1.5 Watts / Linear Foot
Amperage	12v: 125 mA / Foot 24v: 63 mA / Foot
Protection Rating	IP40/IP65/IP68
Dimming	Triac / 0-10 Volt / DMX / Lutron A-Series 1% dimming LED drivers
Operating Temperature	-40° C to 70° C
Color Temperature	2400K 2700K 3000K 3500K 4100K 6000K
Lumen Output	2400K: 92.86 lm/ft; 2700K: 80.46 lm/ft; 3000K: 82.8 lm/ft; 3500K: 96.84 lm/ft; 4100K: 85.68 lm/ft; 6000K: 89.64 lm/ft
Binning Tolerance	+/- 100K
LED Beam Angle	160°
Lamp Life	50,000 Hours
Cuttable	12v: Every 1.97" (50 mm) 24v: Every 3.94" (100 mm)
CRI*	2400K: >50.4; 2700K: >56; 3000K: >62.8; 3500K: >66.3; 4100K: >69.2; 6000K: >73.8
*CRI >90 available upon request	
Lumens per Watt (per ft)	2400K: 61.91 lm/W; 2700K: 53.64 lm/W; 3000K: 55.2 lm/W; 3500K: 64.56 lm/W; 4100K: 57.12 lm/W; 6000K: 59.76 lm/W
Constant Voltage	Yes
Max Length Before Additional Power is Needed	12V: 29' 4.6" (9 Meters) 24V: 68' 7.5" (21 Meters)

DIMENSIONS RIBBONLYTE 1.5

IP40 + IP65

Width	0.31" / 8 mm
Length	Up to 29' 4.6" (12V) in ~2 inch sections or 68' 7.5" (24V) in ~4 inch sections
Height	IP40: 0.088" / 2.2 mm IP65: 0.125" / 3.2 mm

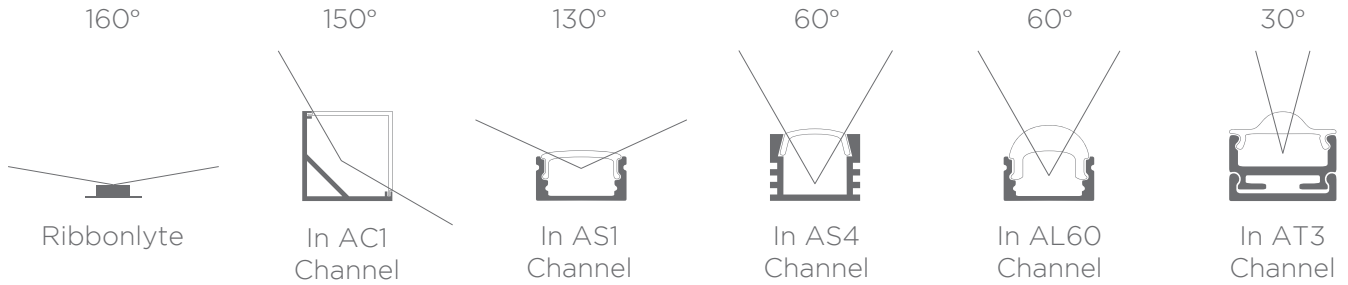
OUTDOOR - IP68

Width	0.41" / 10.4 mm
Length	Up to 29' 4.6" (12V) in ~2 inch sections or 68' 7.5" (24V) in ~4 inch sections
Height	0.18" / 4.5 mm

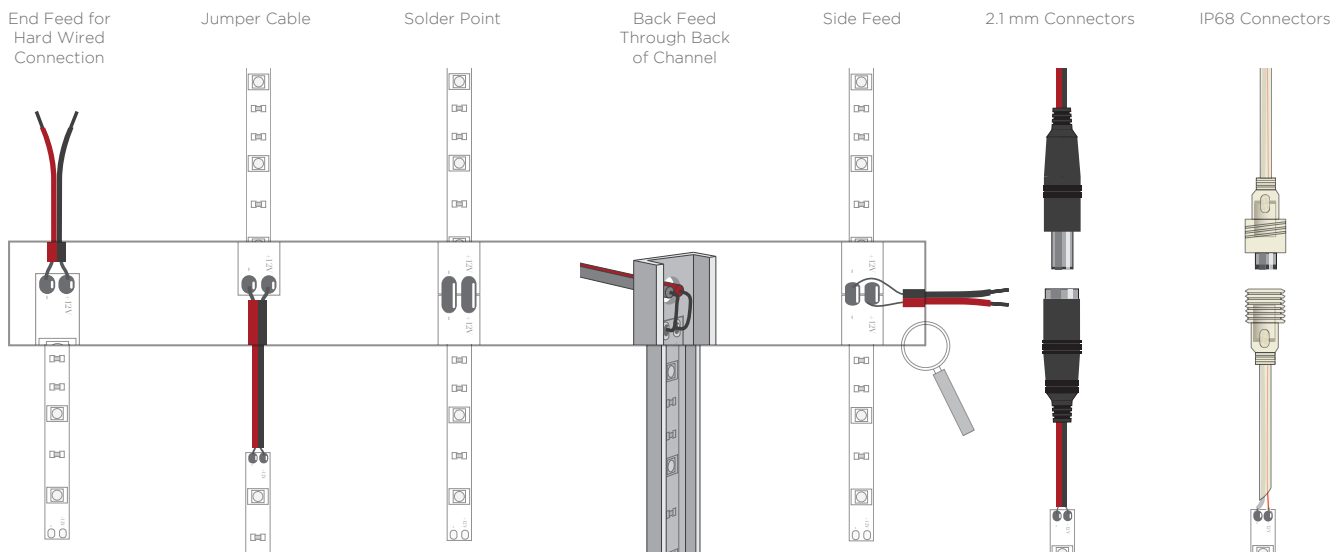
Rev. 2013.08.08

RIBBONLYTE 1.5

SAMPLE BEAM ANGLES



CONNECTION OPTIONS



CHANNEL COMPATIBILITY

Protection

Non-Waterproof (IP40)

IP65

IP68

Compatible Channels

All Channel

All Channel

All Channel

RIBBONLYTE 1.5

USAGE GUIDELINES

Compatible with a wide variety of control products including the entire line of Lutron dimming systems.

For use with Acolyte drivers, triac dimming modules, 0-10 modules and interface controllers (DMXINF models).

Use with non-Acolyte triac, MLV or ELV drivers is not supported or warranted.

Due to the nature of the product, RibbonLyte cuttable lengths are generally longer or shorter than the customer requested length. Unless specified, RibbonLyte is factory cut at the shorter cuttable point.

IP65 and IP68 versions can be used in wet, outdoor locations around swimming pools and spa tubs, but not submerged in swimming pools and spa tubs.

We reserve the right to make changes to product lineup, specifications, design and finishes at any time without notice.

ACCESSORIES RIBBONLYTE 1.5



CHANNEL
See Acolyte Channel Guide



DRIVERS
See Acolyte Drivers Guide



CONTROLLERS
See Acolyte Controllers Guide




PARTS AND ACCESSORIES
See Acolyte Parts and Accessories Guide

STATIC WHITE RIBBONLYTE COMPARISON GUIDE

SPECIFICATIONS	1.5	2.2	3.0	4.4	5.0	6.0	8.8
Operating Voltage	12 V and 24 V versions						24 V
Power Consumption	1.5 W / Ft	2.2 W / Ft	3.0 W / Ft	4.4 W / Ft	5.0 W / Ft	6.0 W / Ft	8.8 W / Ft
Current (mA) - 12 V	125	183	250	366	417	500	--
Current (mA) - 24 V	63	92	125	183	208	250	367
Protection Rating	IP45, IP65 and IP68						
Beam Angle	160°						
Color Temperatures	2400K, 2700K, 3000K, 3500K, 4100K, 6000K (5.0 is only avail. in 3000K, 4100K, 6000K)						
LED's / Foot	18	9	36	18	15	72	36
Width - IP45 / IP65	0.31"	0.39"	0.31"	0.39"	0.41"	0.50"	0.59"
Width - IP68	0.41"	0.52"	0.41"	0.52"	0.54"	0.66"	0.70"
Cuttable Length - 12 V	1.97"	3.94"	0.98"	1.97"	2.46"	1.97"	--
Cuttable Length - 24 V	3.94"	6.55"	1.97"	3.94"	4.92"	3.94"	1.97"
Max Length - 12 V	29' 4.6"	26' 3"	19' 8.2"	16' 4.9"	16' 4.9"	16' 4.9"	--
Max Length - 24 V	68' 7.5"	45' 10.3"	32' 9.7"	26' 3"	32' 9.7"	26' 3.0"	25' 7.1"
Lumen / Ft - 2400 K	92.86	149.13	185.73	298.26	--	371.46	596.52
Lumen / Ft - 2700 K	80.46	153.99	160.92	307.98	--	321.84	615.96
Lumen / Ft - 3000 K	82.80	175.68	165.60	351.36	438.91	331.20	702.72
Lumen / Ft - 3500 K	96.84	161.10	193.68	322.20	--	387.36	644.40
Lumen / Ft - 4100 K	85.68	157.23	171.36	314.46	441.96	342.72	628.92
Lumen / Ft - 6000 K	89.64	169.38	179.28	338.76	445.01	358.56	677.52
Lumens / Watt - 2400 K	61.91	67.79	61.91	67.79	--	61.91	67.69
Lumens / Watt - 2700 K	53.64	70.00	53.64	70.00	--	53.64	70.00
Lumens / Watt - 3000 K	55.2	79.85	55.2	79.85	87.78	55.20	79.85
Lumens / Watt - 3500 K	64.56	73.23	64.56	73.23	--	64.56	73.23
Lumens / Watt - 4100 K	57.12	71.47	57.12	71.47	88.39	57.12	71.47
Lumens / Watt - 6000 K	59.76	77.00	59.76	77.00	89.00	59.76	77.00
CRI - 2400 K	50.4	50.5	50.4	50.5	--	50.4	50.5
CRI - 2700 K	56.0	58.9	56.0	58.9	--	56.0	58.9
CRI - 3000 K	62.8	63.0	62.8	63.0	72.0	62.8	63.0
CRI - 3500 K	66.3	65.3	66.3	65.3	--	66.3	65.3
CRI - 4100 K	69.2	70.8	69.2	70.8	70.0	69.2	70.8
CRI - 6000 K	73.8	73.4	73.8	73.4	69.0	73.8	73.4

Rev. 2013.08.08

A photograph of a modern bar and bakery area. The bar is long and curved, with a wooden top and a white base. The ceiling is made of horizontal wooden slats. There are several pendant lights hanging from the ceiling, and a large display of bottles on a shelf above the bar. A person is standing behind the bar. In the foreground, there is a dark table with a laptop and a vase of flowers. The overall atmosphere is warm and modern.

STATIC WHITE RIBBONLYTE

White lighting is the way we see the world. With so many variations of color temperature and wattage, our Static White RibbonLyte will help you create the ultimate lighting scheme.

Whether you want to imitate the warm glow of candlelight, or provide a high visibility work environment similar to a bright afternoon outdoors, we can provide a solution to fill your needs.

Not only do we offer a variety of color temperatures, but our RibbonLyte comes in a number of wattages as well. As energy costs rise, the benefits of our lower wattage LEDs are even more apparent.

Pictured: RibbonLyte 4.4 3000K @Fetta Panini Bar, Toronto Pearson Intl Airport, Mississauga, ON
Designed by ICRAVE

White

RIBBONLYTE 5.0

RoHS
Compliant



Dry or wet location flexible LEDs

12 or 24 Volt

5.0 Watts per foot, 15 LEDs per foot

IP65 and IP68 versions are UV resistant

3000K, 4100K, and 6000K

Cuttable every 2.46 inches (12V) or 4.92 inches (24V)



DIMENSIONS

5.0 - 12 Volt

LED on center: 0.82 Inches / 20.7 mm

Height: 0.065 Inches / 1.7 mm

Width: 0.41 Inches / 10.4 mm

Length between cuttable points: 2.46 Inches / 62.5 mm

5.0 - 24 Volt

LED on center: 0.82 Inches / 20.7 mm

Height: 0.065 Inches / 1.7 mm

Width: 0.41 Inches / 10.4 mm

Length between cuttable points: 4.92 Inches / 125 mm



PART NUMBER BUILDER

Category

RB

+

Waterproof

[]

+

Voltage

[]

+

Wattage

5.0

Color Temperature

[]

=

Your Part Number
Example: RB125.030

- 65 - IP65
- 68 - IP68
- Blank - None (IP40)

- 12 - 12V
- 24 - 24V

- 30 - 3000K
- 41 - 4100K
- 60 - 6000K

RIBBONLYTE 5.0

SPECIFICATIONS RIBBONLYTE 5.0

Operating Voltage	12 Volt / 24 Volt
Power Consumption	5.0 Watts / Linear Foot
Milliamperes	12v: 417 mA / Foot 24v: 208 mA / Foot
Protection Rating	IP40/IP65/IP68
Dimming	Triac / 0-10 Volt / DMX / Lutron A-Series 1% dimming LED drivers
Operating Temperature	-40° C to 70° C
Color Temperature	3000K, 4100K and 6000K
Lumen Output	3000K: 438.91 lm/ft; 4100K: 441.96 lm/ft; 6000K: 445.01 lm/ft
Binning Tolerance	+/- 100K
LED Beam Angle	160°
Lamp Life	50,000 Hours
Cutttable	12v: Every 2.46" (62.5 mm) 24v: Every 4.92" (125 mm)
CRI*	3000K: >72; 4100K: >70; 6000K: >69
*CRI >90 available upon request	
Lumens per Watt (per ft)	3000K: 87.78 lm/W; 4100K: 88.39 lm/W; 6000K: 89.00 lm/W
Constant Voltage	Yes
Max Length Before Additional Power is Needed	12V: 16' 4.9" (5 Meters) 24V: 32' 9.7" (10 Meters)

DIMENSIONS RIBBONLYTE 5.0

IP40 + IP65

Width	0.41" / 10.41 mm
Length	Up to 16' 4.9" (12V) in ~2.5 inch sections or 32' 9.7" (24V) in ~5 inch sections
Height	IP40: 0.065" / 1.65 mm IP65: 0.125" / 3.2 mm

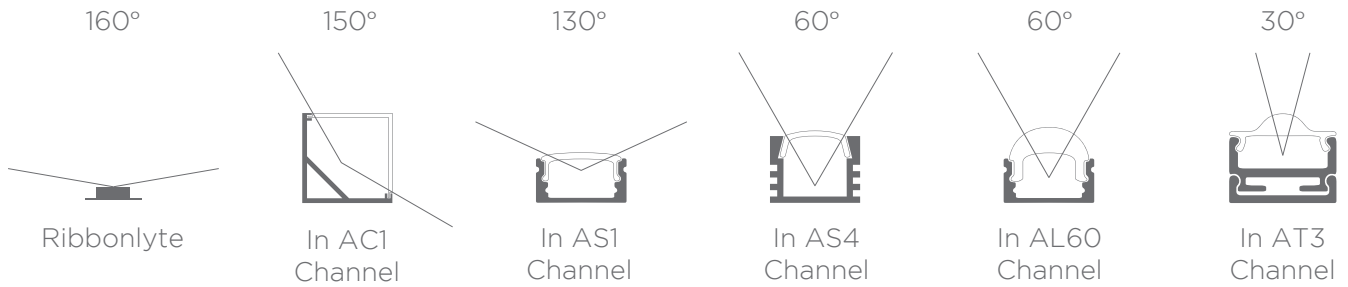
OUTDOOR - IP68

Width	0.54" / 13.3 mm
Length	Up to 16' 4.9" (12V) in ~2.5 inch sections or 32' 9.7" (24V) in ~5 inch sections
Height	0.19" / 4.8 mm

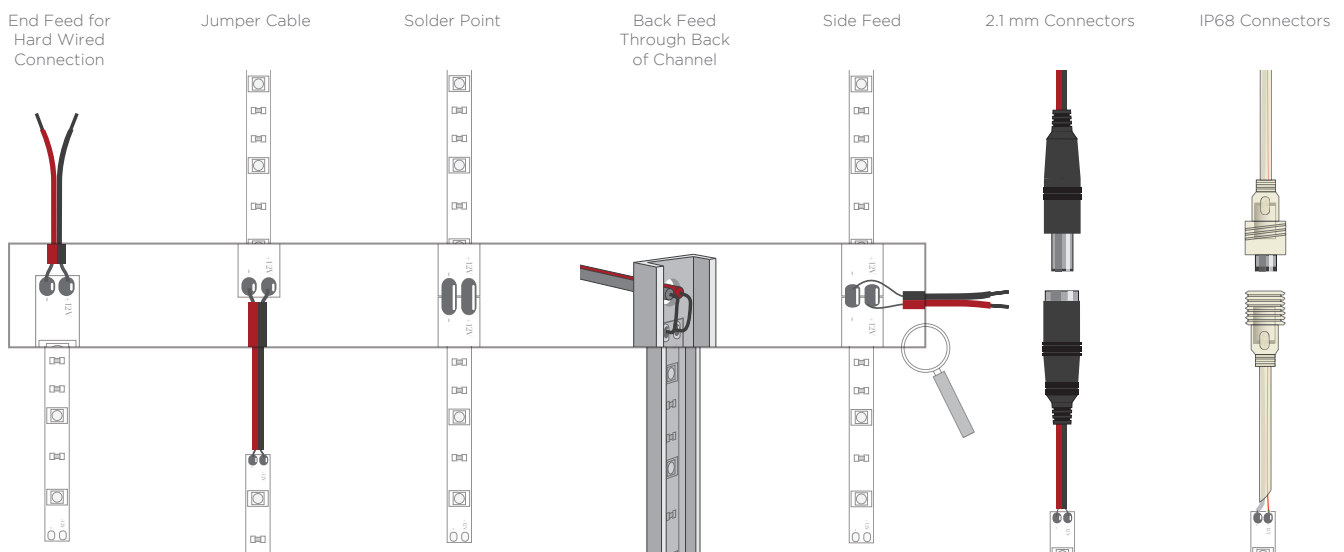
Rev. 2013.08.08

RIBBONLYTE 5.0

SAMPLE BEAM ANGLES



CONNECTION OPTIONS



CHANNEL COMPATIBILITY

Protection

Non-Waterproof (IP40)

IP65

IP68

Compatible Channels

All Channel

All Channel

AC1, AC2, AC4, AC5, AR3, AS3, AT1, AT2, AT3, AP1, W31, W35, WH35

RIBBONLYTE 5.0

USAGE GUIDELINES

Compatible with a wide variety of control products including the entire line of Lutron dimming systems.

For use with Acolyte drivers, triac dimming modules, 0-10 modules and interface controllers (DMXINF models).

Use with non-Acolyte triac, MLV or ELV drivers is not supported or warranted.

Due to the nature of the product, RibbonLyte cuttable lengths are generally longer or shorter than the customer requested length. Unless specified, RibbonLyte is factory cut at the shorter cuttable point.

IP65 and IP68 versions can be used in wet, outdoor locations around swimming pools and spa tubs, but not submerged in swimming pools and spa tubs.

We reserve the right to make changes to product lineup, specifications, design and finishes at any time without notice.

ACCESSORIES RIBBONLYTE 5.0



CHANNEL
See Acolyte Channel Guide



DRIVERS
See Acolyte Drivers Guide



CONTROLLERS
See Acolyte Controllers Guide




PARTS AND ACCESSORIES
See Acolyte Parts and Accessories Guide

STATIC WHITE RIBBONLYTE COMPARISON GUIDE

SPECIFICATIONS	1.5	2.2	3.0	4.4	5.0	6.0	8.8
Operating Voltage	12 V and 24 V versions						24 V
Power Consumption	1.5 W / Ft	2.2 W / Ft	3.0 W / Ft	4.4 W / Ft	5.0 W / Ft	6.0 W / Ft	8.8 W / Ft
Current (mA) - 12 V	125	183	250	366	417	500	--
Current (mA) - 24 V	63	92	125	183	208	250	367
Protection Rating	IP45, IP65 and IP68						
Beam Angle	160°						
Color Temperatures	2400K, 2700K, 3000K, 3500K, 4100K, 6000K (5.0 is only avail. in 3000K, 4100K, 6000K)						
LED's / Foot	18	9	36	18	15	72	36
Width - IP45 / IP65	0.31"	0.39"	0.31"	0.39"	0.41"	0.50"	0.59"
Width - IP68	0.41"	0.52"	0.41"	0.52"	0.54"	0.66"	0.70"
Cuttable Length - 12 V	1.97"	3.94"	0.98"	1.97"	2.46"	1.97"	--
Cuttable Length - 24 V	3.94"	6.55"	1.97"	3.94"	4.92"	3.94"	1.97"
Max Length - 12 V	29' 4.6"	26' 3"	19' 8.2"	16' 4.9"	16' 4.9"	16' 4.9"	--
Max Length - 24 V	68' 7.5"	45' 10.3"	32' 9.7"	26' 3"	32' 9.7"	26' 3.0"	25' 7.1"
Lumen / Ft - 2400 K	92.86	149.13	185.73	298.26	--	371.46	596.52
Lumen / Ft - 2700 K	80.46	153.99	160.92	307.98	--	321.84	615.96
Lumen / Ft - 3000 K	82.80	175.68	165.60	351.36	438.91	331.20	702.72
Lumen / Ft - 3500 K	96.84	161.10	193.68	322.20	--	387.36	644.40
Lumen / Ft - 4100 K	85.68	157.23	171.36	314.46	441.96	342.72	628.92
Lumen / Ft - 6000 K	89.64	169.38	179.28	338.76	445.01	358.56	677.52
Lumens / Watt - 2400 K	61.91	67.79	61.91	67.79	--	61.91	67.69
Lumens / Watt - 2700 K	53.64	70.00	53.64	70.00	--	53.64	70.00
Lumens / Watt - 3000 K	55.2	79.85	55.2	79.85	87.78	55.20	79.85
Lumens / Watt - 3500 K	64.56	73.23	64.56	73.23	--	64.56	73.23
Lumens / Watt - 4100 K	57.12	71.47	57.12	71.47	88.39	57.12	71.47
Lumens / Watt - 6000 K	59.76	77.00	59.76	77.00	89.00	59.76	77.00
CRI - 2400 K	50.4	50.5	50.4	50.5	--	50.4	50.5
CRI - 2700 K	56.0	58.9	56.0	58.9	--	56.0	58.9
CRI - 3000 K	62.8	63.0	62.8	63.0	72.0	62.8	63.0
CRI - 3500 K	66.3	65.3	66.3	65.3	--	66.3	65.3
CRI - 4100 K	69.2	70.8	69.2	70.8	70.0	69.2	70.8
CRI - 6000 K	73.8	73.4	73.8	73.4	69.0	73.8	73.4

Rev. 2013.08.08

A photograph of a modern bar and bakery area. The bar is long and curved, with a wooden top and a white base. The ceiling is made of horizontal wooden slats. There are several pendant lights hanging from the ceiling, and a large sign for 'Fetta Panini' is visible in the background. The overall atmosphere is warm and modern.

STATIC WHITE RIBBONLYTE

White lighting is the way we see the world. With so many variations of color temperature and wattage, our Static White RibbonLyte will help you create the ultimate lighting scheme.

Whether you want to imitate the warm glow of candlelight, or provide a high visibility work environment similar to a bright afternoon outdoors, we can provide a solution to fill your needs.

Not only do we offer a variety of color temperatures, but our RibbonLyte comes in a number of wattages as well. As energy costs rise, the benefits of our lower wattage LEDs are even more apparent.

Pictured: RibbonLyte 4.4 3000K @Fetta Panini Bar, Toronto Pearson Intl Airport, Mississauga, ON
Designed by ICRAVE

○ White



RIBBONLYTE 8.8

RoHS
Compliant



Dry or wet location flexible LEDs

24 Volt Only

8.8 Watts per foot, 36 LEDs per foot

IP65 and IP68 versions are UV resistant

2400K, 2700K, 3000K, 3500K, 4100K, and 6000K

Cuttable every 1.97 inches

DIMENSIONS

8.8 - 24 Volt

LED on center: 0.67 Inches / 17 mm
Height: 0.09 Inches / 2.3 mm

Width: 0.59 Inches / 15 mm

Length between cuttable points: 1.97 Inches / 50 mm



PART NUMBER BUILDER

Category	Waterproof	Voltage	Wattage	Color Temperature	
<input type="text" value="RB"/>	+ <input type="text" value=""/>	+ <input type="text" value="24"/>	+ <input type="text" value="8.8"/>	+ <input type="text" value=""/>	=
	65 - IP65 68 - IP68 Blank - None (IP40)			24 - 2400K 27 - 2700K 30 - 3000K 35 - 3500K 41 - 4100K 60 - 6000K	Your Part Number Example: RB248.827

Rev. 2013.08.08

RIBBONLYTE 8.8

SPECIFICATIONS RIBBONLYTE 8.8

Operating Voltage	24 Volt
Power Consumption	8.8 Watts / Linear Foot
Milliamperes	367 mA / Foot
Protection Rating	IP40/IP65/IP68
Dimming	Triac / 0-10 Volt / DMX / Lutron A-Series 1% dimming LED drivers
Operating Temperature	-40° C to 70° C
Color Temperature	2400K, 2700K, 3000K, 3500K, 4100K and 6000K
Lumen Output	2400K: 596.52 lm/ft; 2700K: 615.96 lm/ft; 3000K: 702.72 lm/ft; 3500K: 644.4 lm/ft; 4100K: 628.92 lm/ft; 6000K: 677.52 lm/ft
Binning Tolerance	+/- 100K
LED Beam Angle	160°
Lamp Life	50,000 Hours
Cutttable	Every 1.97" (50 mm)
CRI *	2400K: >50.5; 2700K: >58.9; 3000K: >63; 3500K: >65.3; 4100K: >70.8; 6000K: >73.4
*CRI >90 available upon request	
Lumens per Watt (per ft)	2400K: 67.79 lm/W; 2700K: 70.00 lm/W; 3000K: 79.85 lm/W; 3500K: 73.23 lm/W; 4100K: 71.47 lm/W; 6000K: 77.00 lm/W
Constant Voltage	Yes
Max Length Before Additional Power is Needed	25' 7.1" (7.80 m)

DIMENSIONS RIBBONLYTE 8.8

IP40 + IP65

Width	0.59" / 15 mm
Length	Up to 25' 7.1" / 7.80 m
Height	IP40: 0.088" / 2.2 mm IP65: 0.172" / 4.4 mm

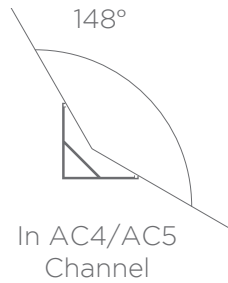
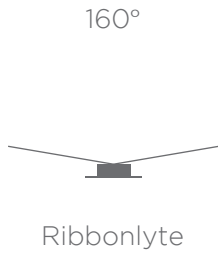
OUTDOOR - IP68

Width	0.70" / 17.8 mm
Length	Up to 25' 7.1" / 7.80 m
Height	0.19" / 4.8 mm

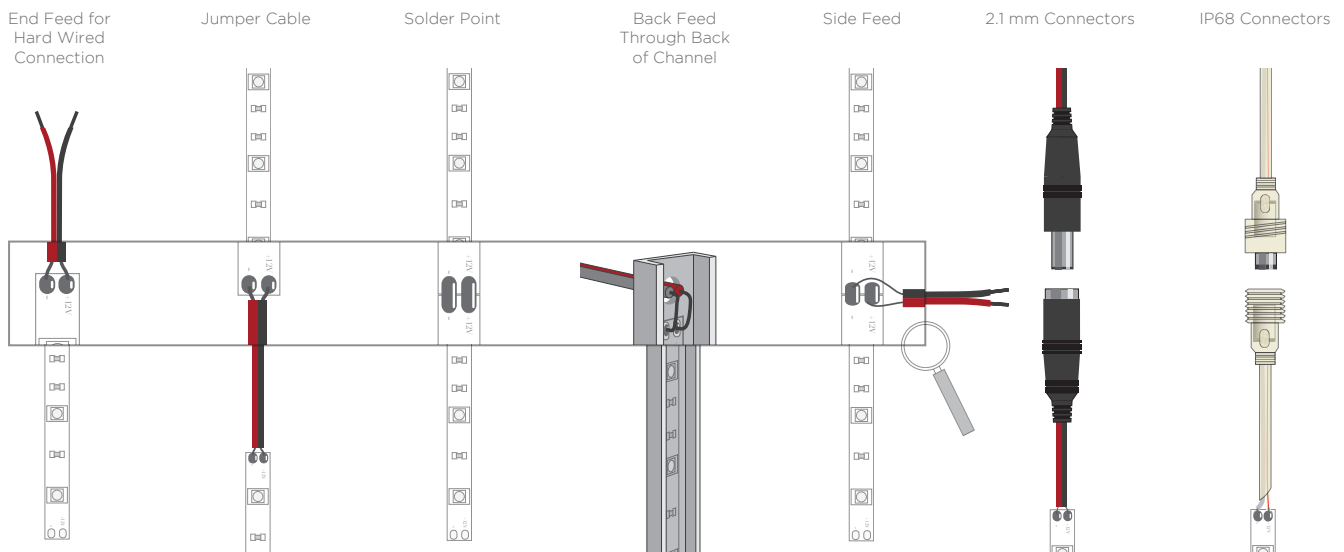
Rev. 2013.08.08

RIBBONLYTE 8.8

SAMPLE BEAM ANGLES



CONNECTION OPTIONS



CHANNEL COMPATIBILITY

Protection

Non-Waterproof (IP40)

IP65

IP68

Compatible Channels

AC4, AC5, AR3, AS3, AT1, AT2, AT3, AP1, W31, W35, WH35

AC4, AC5, AR3, AS3, AT1, AT2, AT3, AP1, W31, W35, WH35

AC4, AC5, AR3, AS3, W31, W35, WH35

RIBBONLYTE 8.8

USAGE GUIDELINES

Compatible with a wide variety of control products including the entire line of Lutron dimming systems.

For use with Acolyte drivers, triac dimming modules, 0-10 modules and interface controllers (DMXINF models).

Use with non-Acolyte triac, MLV or ELV drivers is not supported or warranted.

Due to the nature of the product, RibbonLyte cuttable lengths are generally longer or shorter than the customer requested length. Unless specified, RibbonLyte is factory cut at the shorter cuttable point.

IP65 and IP68 versions can be used in wet, outdoor locations around swimming pools and spa tubs, but not submerged in swimming pools and spa tubs.

We reserve the right to make changes to product lineup, specifications, design and finishes at any time without notice.

ACCESSORIES RIBBONLYTE 8.8



CHANNEL
See Acolyte Channel Guide



DRIVERS
See Acolyte Drivers Guide



CONTROLLERS
See Acolyte Controllers Guide



PARTS AND ACCESSORIES
See Acolyte Parts and Accessories Guide

STATIC WHITE RIBBONLYTE COMPARISON GUIDE

SPECIFICATIONS	1.5	2.2	3.0	4.4	5.0	6.0	8.8
Operating Voltage	12 V and 24 V versions						24 V
Power Consumption	1.5 W / Ft	2.2 W / Ft	3.0 W / Ft	4.4 W / Ft	5.0 W / Ft	6.0 W / Ft	8.8 W / Ft
Current (mA) - 12 V	125	183	250	366	417	500	--
Current (mA) - 24 V	63	92	125	183	208	250	367
Protection Rating	IP45, IP65 and IP68						
Beam Angle	160°						
Color Temperatures	2400K, 2700K, 3000K, 3500K, 4100K, 6000K (5.0 is only avail. in 3000K, 4100K, 6000K)						
LED's / Foot	18	9	36	18	15	72	36
Width - IP45 / IP65	0.31"	0.39"	0.31"	0.39"	0.41"	0.50"	0.59"
Width - IP68	0.41"	0.52"	0.41"	0.52"	0.54"	0.66"	0.70"
Cuttable Length - 12 V	1.97"	3.94"	0.98"	1.97"	2.46"	1.97"	--
Cuttable Length - 24 V	3.94"	6.55"	1.97"	3.94"	4.92"	3.94"	1.97"
Max Length - 12 V	29' 4.6"	26' 3"	19' 8.2"	16' 4.9"	16' 4.9"	16' 4.9"	--
Max Length - 24 V	68' 7.5"	45' 10.3"	32' 9.7"	26' 3"	32' 9.7"	26' 3.0"	25' 7.1"
Lumen / Ft - 2400 K	92.86	149.13	185.73	298.26	--	371.46	596.52
Lumen / Ft - 2700 K	80.46	153.99	160.92	307.98	--	321.84	615.96
Lumen / Ft - 3000 K	82.80	175.68	165.60	351.36	438.91	331.20	702.72
Lumen / Ft - 3500 K	96.84	161.10	193.68	322.20	--	387.36	644.40
Lumen / Ft - 4100 K	85.68	157.23	171.36	314.46	441.96	342.72	628.92
Lumen / Ft - 6000 K	89.64	169.38	179.28	338.76	445.01	358.56	677.52
Lumens / Watt - 2400 K	61.91	67.79	61.91	67.79	--	61.91	67.69
Lumens / Watt - 2700 K	53.64	70.00	53.64	70.00	--	53.64	70.00
Lumens / Watt - 3000 K	55.2	79.85	55.2	79.85	87.78	55.20	79.85
Lumens / Watt - 3500 K	64.56	73.23	64.56	73.23	--	64.56	73.23
Lumens / Watt - 4100 K	57.12	71.47	57.12	71.47	88.39	57.12	71.47
Lumens / Watt - 6000 K	59.76	77.00	59.76	77.00	89.00	59.76	77.00
CRI - 2400 K	50.4	50.5	50.4	50.5	--	50.4	50.5
CRI - 2700 K	56.0	58.9	56.0	58.9	--	56.0	58.9
CRI - 3000 K	62.8	63.0	62.8	63.0	72.0	62.8	63.0
CRI - 3500 K	66.3	65.3	66.3	65.3	--	66.3	65.3
CRI - 4100 K	69.2	70.8	69.2	70.8	70.0	69.2	70.8
CRI - 6000 K	73.8	73.4	73.8	73.4	69.0	73.8	73.4

Rev. 2013.08.08

Client: _____

Project name: _____

Order #: _____

Type: _____ Qty: _____

L5

FEATURES AND BENEFITS

Physical :

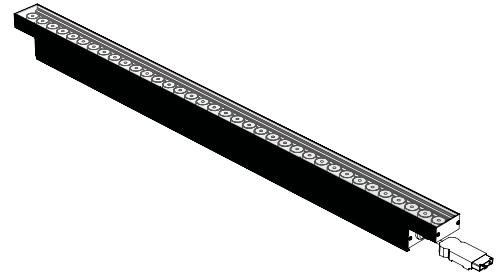
- Low copper content extruded aluminum housing
- Available in 1', 2', 3' or 4' sections
- Electro-statically applied polyester powder coat finish
- Aluminum end caps
- Stainless steel hardware
- Clear acrylic lens
- 10° x 10°, 10° x 60°, 30° x 60° or 60° x 60° optics
- Interior applications only

Performance :

- Minimum 1fc (10.7 lux) @ 114.7 feet (34.9m) distance (4000K, 10° x 60° optic, HO version)
- 2,455 delivered lumens and 13,172 candelas at nadir (4000K, 4' unit, 10° x 60° optic, HO version)
- CRI values: 85+ (2700K), 80+ (3000K), 78+ (4000K)
- Lumen maintenance 120,000 hrs [L70 @ 25°C]
- Lumen measurements comply with LM - 79 - 08 standard
- Resolution per foot or per fixture (see page 5)
- Operating temperatures: -25° C to 50° C [-13F to 122F]

Electrical :

- Line voltage luminaire for 100 to 277 volts
- Power and data in 1 cable (#16)
- Up to 88 feet with a single 120V power feed, HO version
- 5W/ft version meets ASHRAE standards for linear lighting on building facades
- 8.5W/ft (15.25W/ft HO version)
- Dimming options: 0-10 volt, DMX, DALI, Lumentalk, or Lutron® EcoSystem® enabled



lumen talk™

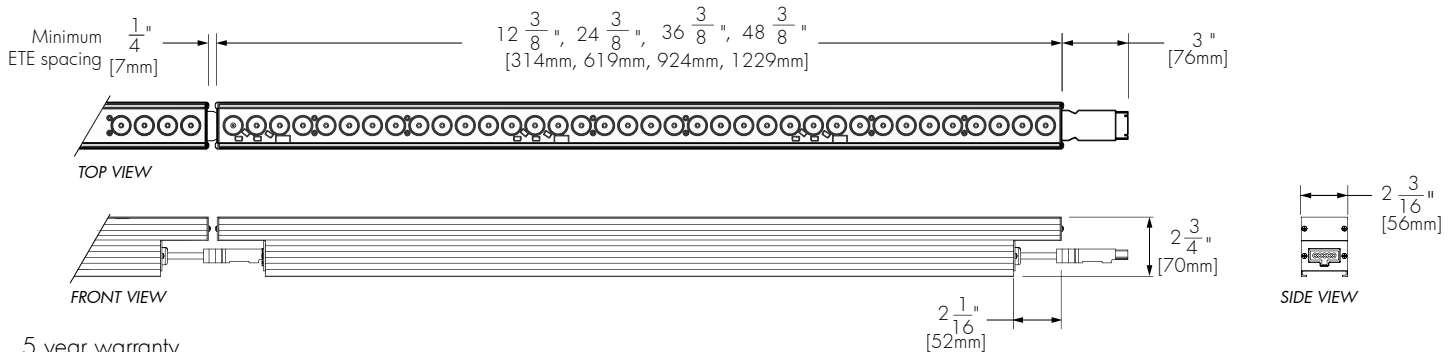
EcoSystem Enabled

Wiring detail

PIN ID / WIRE COLOR / USE		
(N)	WHITE	NEUTRAL
(+)	GREEN	GROUND
(1)	BLACK	LIVE 120-277V
(2)	ORANGE	0-10V / DATA-
(3)	RED	0-10V / DATA+

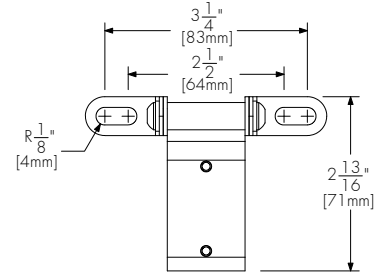
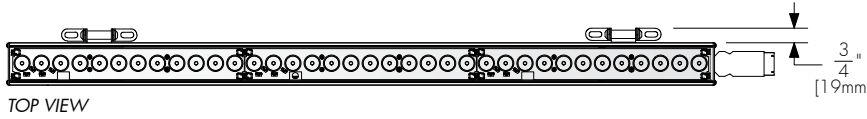
CE Wiring detail

PIN ID / WIRE COLOR / USE		
(N)	BLUE	NEUTRAL
(+)	GREEN/YELLOW	GROUND
(1)	BROWN	LIVE 120-277V
(2)	GRAY	0-10V / DATA-
(3)	BLACK	0-10V / DATA+

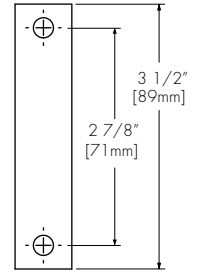
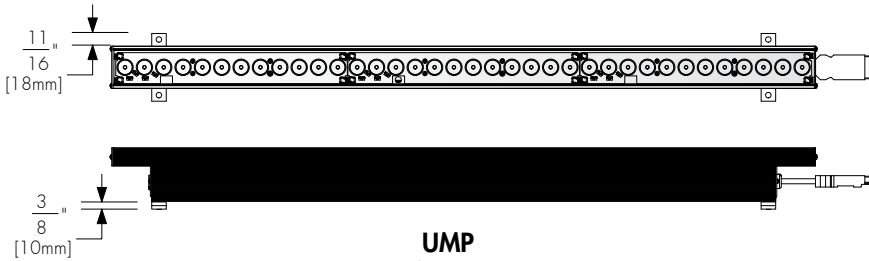


5 year warranty

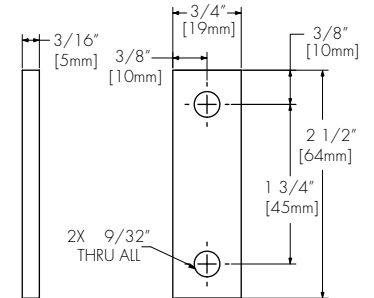
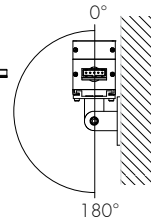
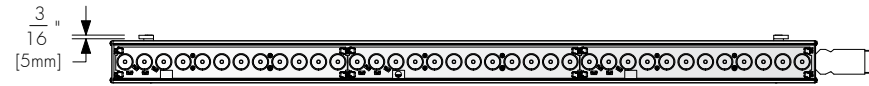
MOUNTING OPTIONS



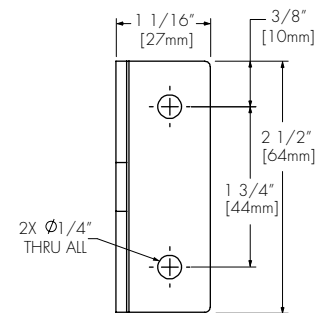
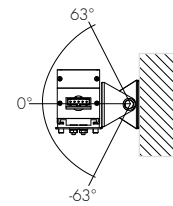
SAM
Mounting Hole Pattern



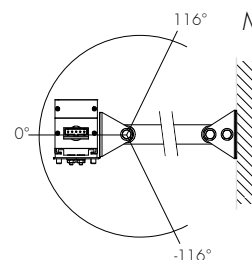
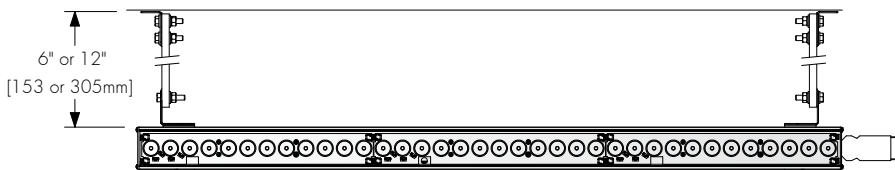
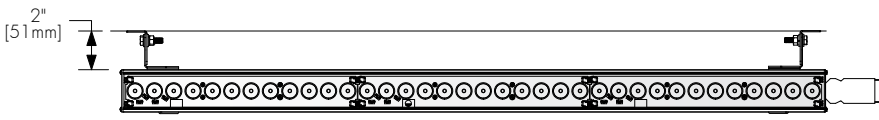
UMP
Mounting Hole Pattern



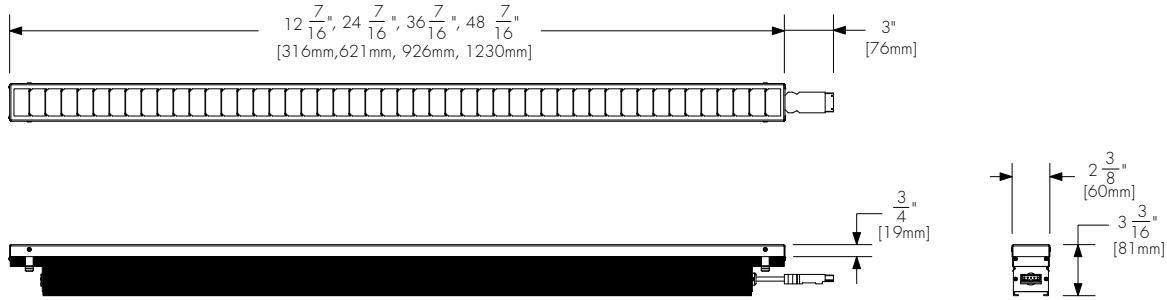
UMAS
Mounting Hole Pattern



WAM2
Mounting Hole Pattern



LOUVER ACCESSORY INSTALLATION DETAIL



LOGiRD

Radial Louver for Lumenfacade Interior
(see page 4 for ordering code)

ACCESSORIES

Order separately

Control Systems:

- LTO2** Lumentouch 2.0 is a wall mount DMX 512 controller keypad
- LCU** Lumencue is a USB / mini SD DMX 512 controller
- LID** LumenID is a diagnostic and addressing DMX 512 controller. It must be specified on all DMX applications. Refer to LID specification sheet for details.
- LTN** Lumentone is a simple pre-programmed DMX 512 controller with a push button rotary dial and live feedback.

CBOX :

iCBOX-__V-__-__ Interior DMX 512 data box.
Data input and output, M20 provision holes with plugs.
Voltage input and output, M20 provision holes with plugs.
Up to six outputs to fixtures, M20 provision holes with plugs.
Please specify desired input voltage and finish.
Refer to iCBOX specification sheet for details.

CBOX-__V-__-__ DMX 512 data box.
Data input and output, M20 provision holes with plugs.
Voltage input and output, M20 provision holes with plugs.
Up to six outputs to fixtures, M20 provision holes with plugs.
Please specify desired input voltage and finish.
Refer to CBOX specification sheet for details.

Leader Cable :

LOGiLCD__ Leader Cable for Lumenfacade interior.
Please add desired cable length : 10, 25 or 50 feet
Sealing endcap is mandatory for any unused connector.
(1) included with every leader cable

Jumper Cable :

LOGiJCD__ Jumper Cable for Lumenfacade interior.
Please add desired cable length : 1, 2, 4, 8, 10, 15 or 20 feet

Radial Louver :

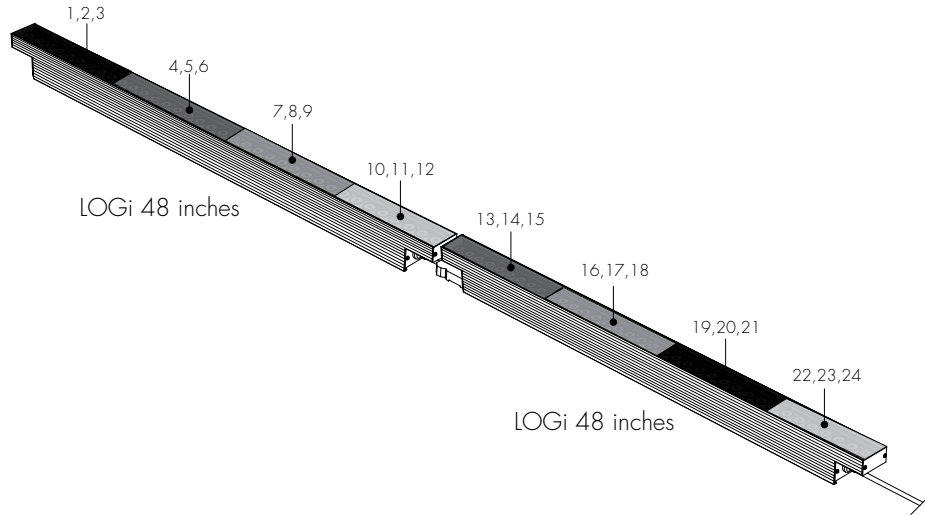
LOGiRD__-__ Radial louver for Lumenfacade.

1. Please specify desired nominal length: 1', 2', 3' or 4'.
2. Please specify finish as BK - Black SandText
(Custom color available on request, please specify as CC together with RAL color : _____)

RESOLUTION DETAILS APPLICABLE FOR DMX DIMMING OPTION ONLY

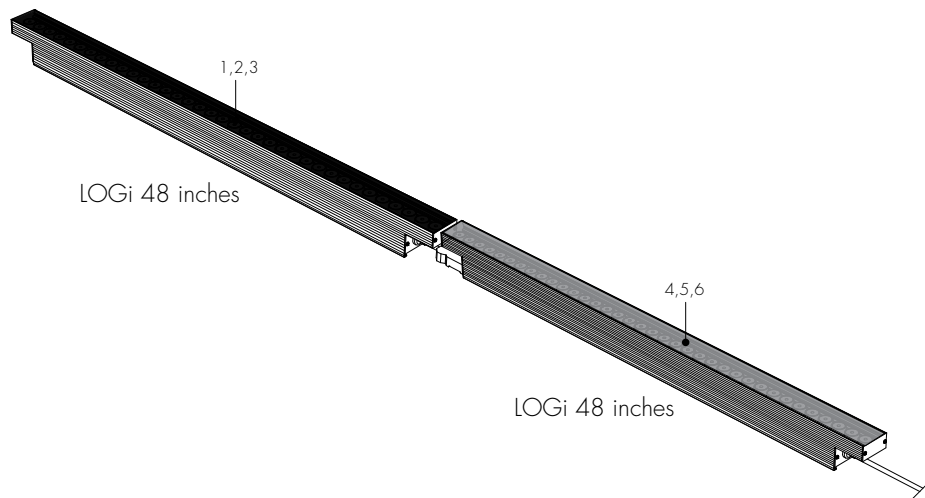
DMX 1FT - Resolution per foot: each foot is addressed independently (recommended for most installations)
1% minimum dimming value

DMX ADDRESSES:



DMX 1FX - Resolution per fixture: each fixture is addressed independently
1% minimum dimming value

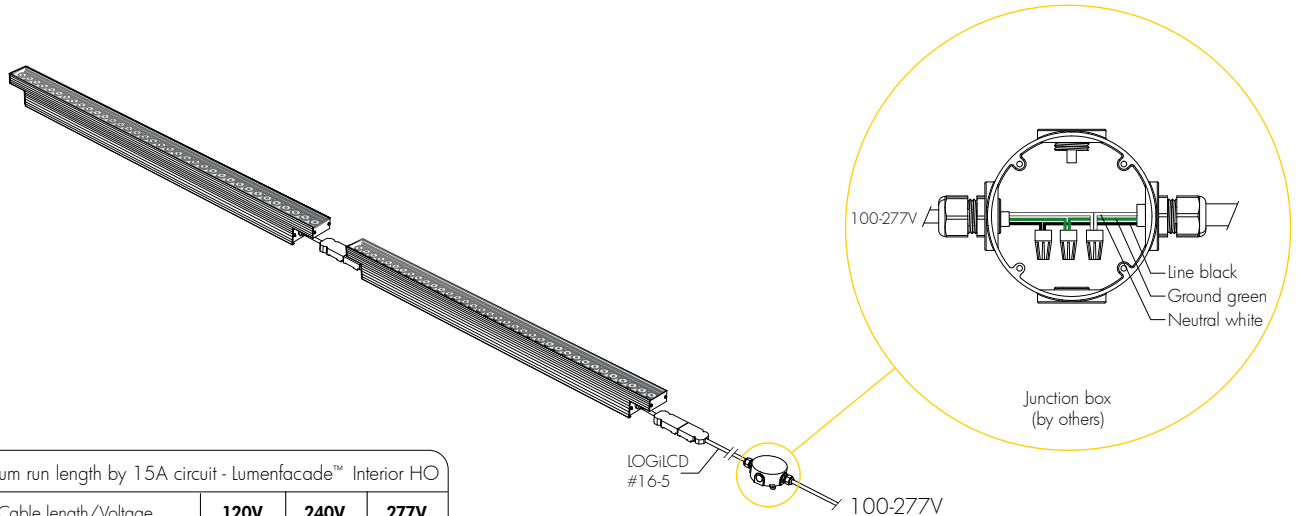
DMX ADDRESSES:



*Warning: resolution is a factory setting and cannot be changed in the field.

TYPICAL WIRING DIAGRAMS

Non-Dimming or Lumentalk Dimming Version

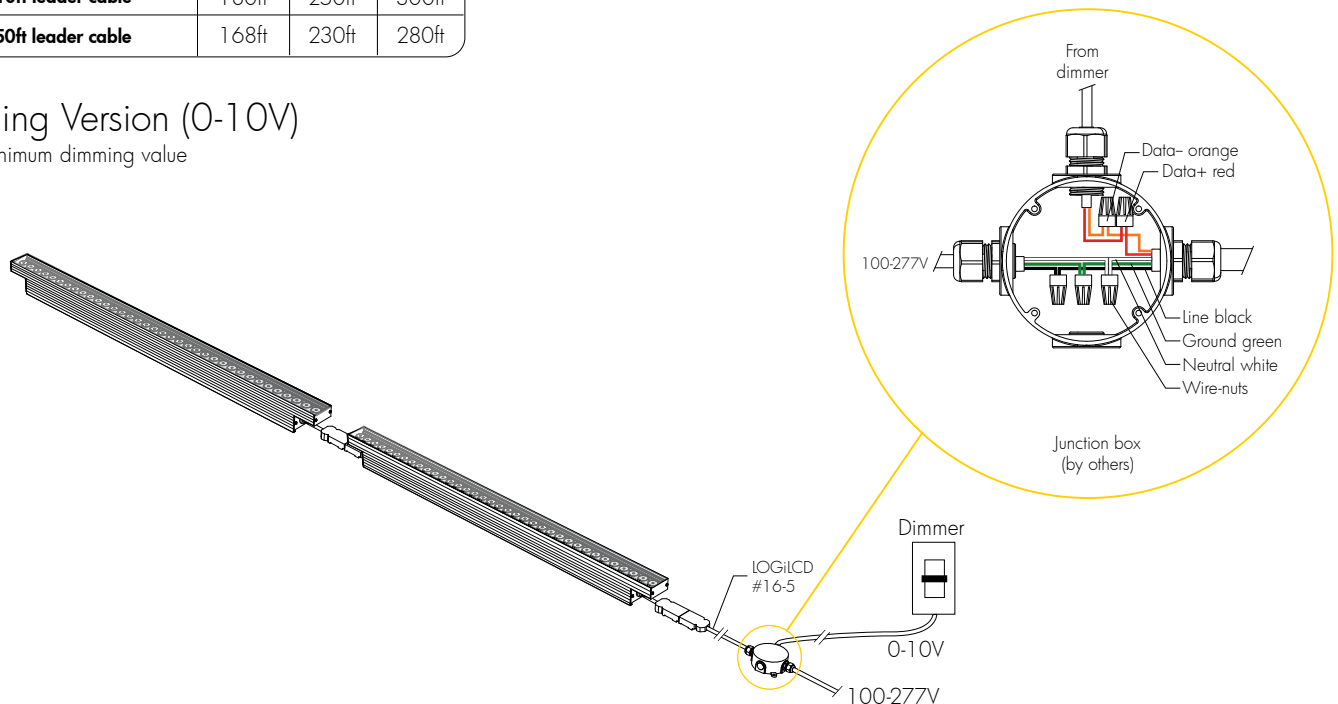


Maximum run length by 15A circuit - lumenfacade™ Interior HO			
Cable length/Voltage	120V	240V	277V
10ft leader cable	88ft	100ft	112ft
50ft leader cable	68ft	76ft	84ft
Maximum run length by 15A circuit - lumenfacade™ Interior RO			
Cable length/Voltage	120V	240V	277V
10ft leader cable	148ft	168ft	184ft
50ft leader cable	120ft	132ft	148ft

ASHRAE Code Compliant - lumenfacade™ 5W/ft Maximum run length by 15A circuit			
Cable length/Voltage	120V	240V	277V
10ft leader cable	180ft	250ft	300ft
50ft leader cable	168ft	230ft	280ft

Dimming Version (0-10V)

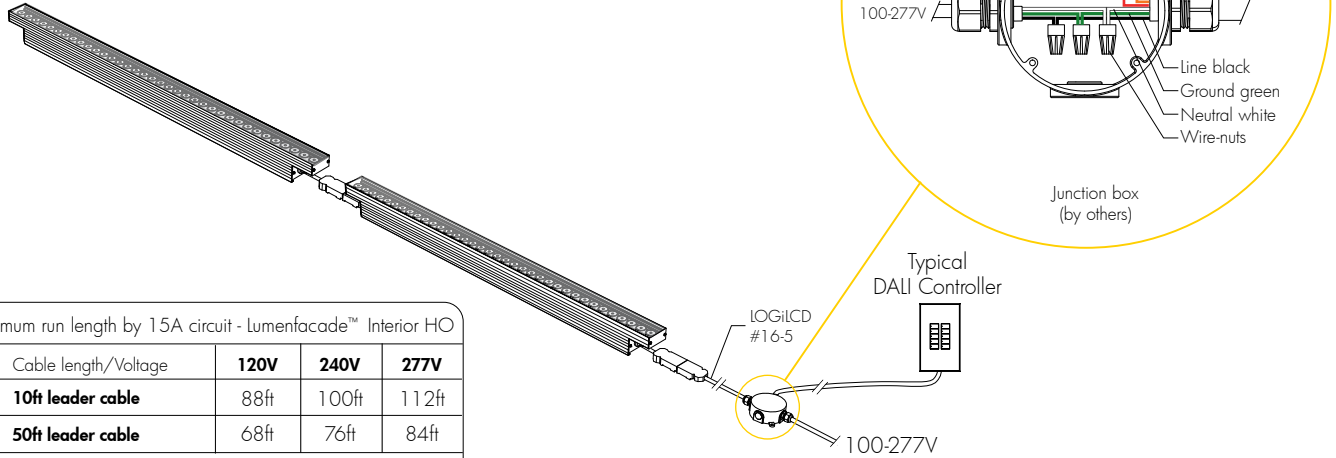
10% minimum dimming value



TYPICAL WIRING DIAGRAMS - continued

Dimming Version (DALI)

1% minimum dimming value

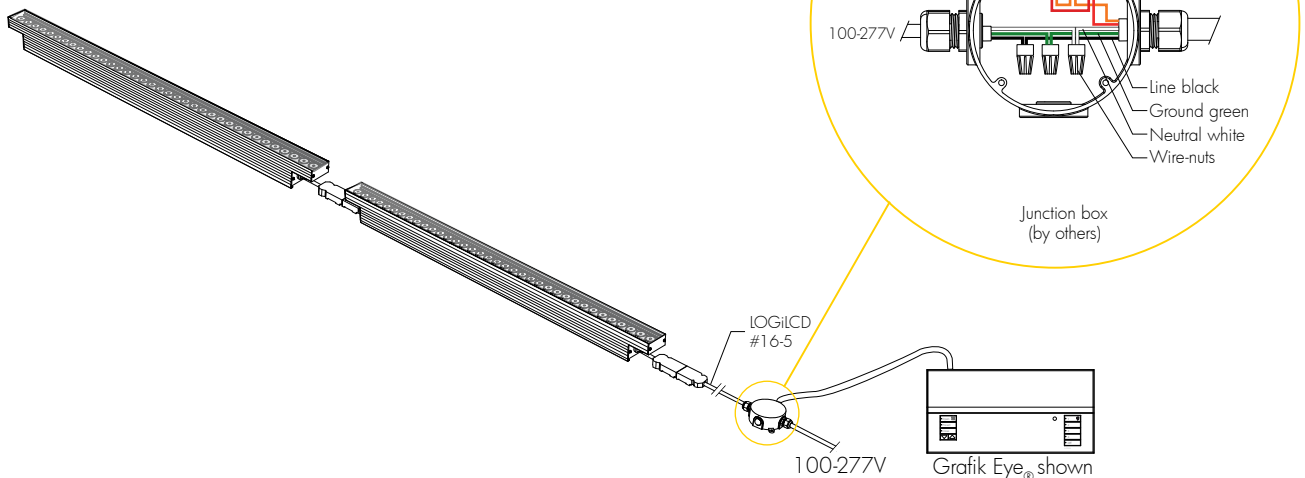


Maximum run length by 15A circuit - lumenfacade™ Interior HO			
Cable length/Voltage	120V	240V	277V
10ft leader cable	88ft	100ft	112ft
50ft leader cable	68ft	76ft	84ft
Maximum run length by 15A circuit - lumenfacade™ Interior RO			
Cable length/Voltage	120V	240V	277V
10ft leader cable	148ft	168ft	184ft
50ft leader cable	120ft	132ft	148ft

ASHRAE Code Compliant - lumenfacade™ 5W/ft Maximum run length by 15A circuit			
Cable length/Voltage	120V	240V	277V
10ft leader cable	180ft	250ft	300ft
50ft leader cable	168ft	230ft	280ft

Dimming Version (EcoSystem®)

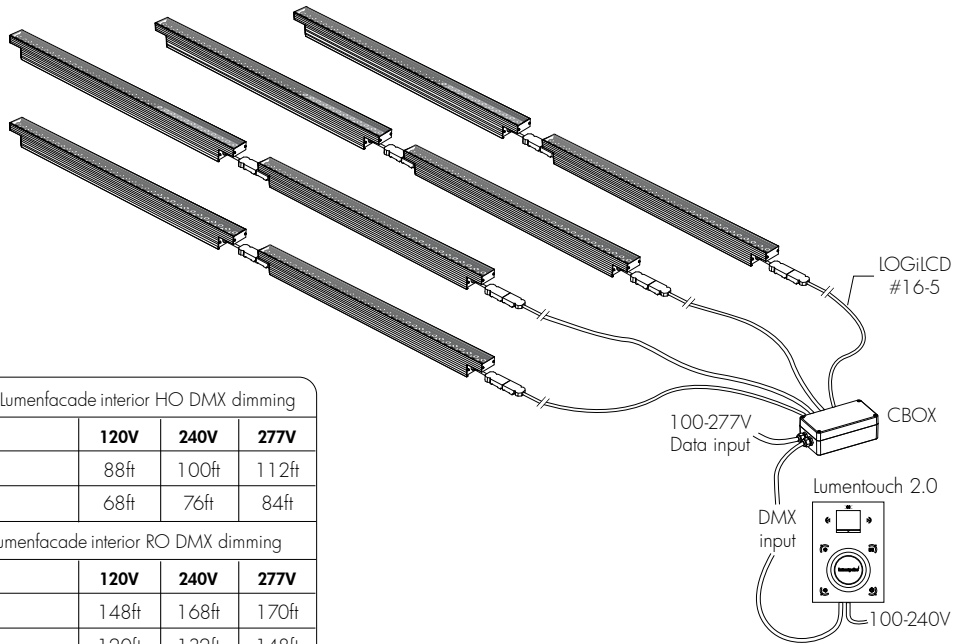
1% minimum dimming value



TYPICAL WIRING DIAGRAMS - continued

DMX Dimming Version (Star layout)

1% minimum dimming value



Maximum run length by 15A circuit - lumenfacade interior HO DMX dimming			
Cable length/Voltage	120V	240V	277V
10ft leader cable	88ft	100ft	112ft
50ft leader cable	68ft	76ft	84ft
Maximum run length by 15A circuit - lumenfacade interior RO DMX dimming			
Cable length/Voltage	120V	240V	277V
10ft leader cable	148ft	168ft	170ft
50ft leader cable	120ft	132ft	148ft

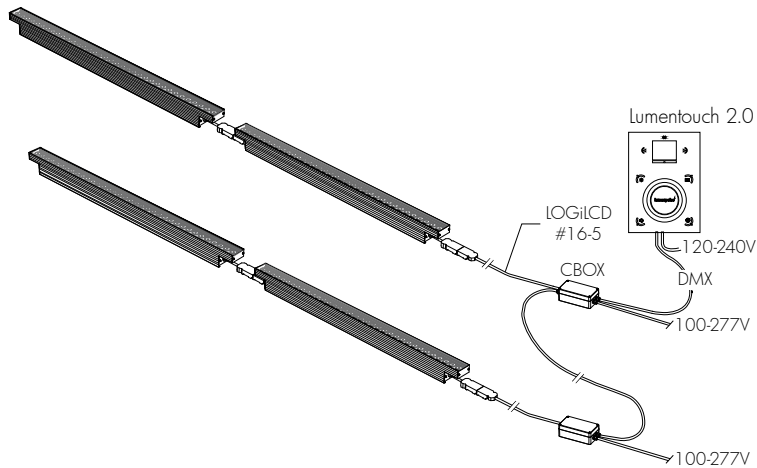
*Up to 170 individually addressable 1 foot sections per DMX run.
Consult factory for specific applications.

ASHRAE Code Compliant - lumenfacade™ 5W/ft DMX dimming Maximum run length by 15A circuit			
Cable length/Voltage	120V	240V	277V
10ft leader cable	170ft	170ft	170ft
50ft leader cable	168ft	170ft	170ft

*Up to 170 individually addressable 1 foot sections per DMX run.
Consult factory for specific applications.

DMX Dimming Version (Daisy Chain Layout)

1% minimum dimming value



HOW TO ORDER

LOGi

Housing	Voltage	Length	Colors and color temperatures	Optic	Mounting Option	Finish	Control
1	2	3	4	5	6	7	8
1					5		

Housing:

- LOGi ASHRAE** - Lumenfacade™ interior, 5W/ft, ASHRAE compliant
- LOGi RO** - Lumenfacade™ interior Regular Output, 8.5W/ft
- LOGi HO** - Lumenfacade™ interior High Output, 15.25W/ft

2

Voltage:

- | | |
|------------------------|------------------------|
| 100 - 100 volts | 220 - 220 volts |
| 120 - 120 volts | 240 - 240 volts |
| 208 - 208 volts | 277 - 277 volts |

3

Length:

- 12** - 12 3/8 inches (314mm) (0.95 kg/2.1 lbs)
- 24** - 24 3/8 inches (619mm) (1.68 kg/3.7 lbs)
- 36** - 36 3/8 inches (924mm) (2.41 kg/5.3 lbs)
- 48** - 48 3/8 inches (1229mm) (3.08 kg/6.8 lbs)

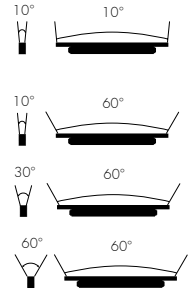
4

Colors and Color temperatures:

- 27K** - 2700K
- 30K** - 3000K
- 35K** - 3500K
- 40K** - 4000K
- RD** - Red
- GR** - Green
- BL** - Blue

Optics:

- 10x10** - 10° x 10°
*For best results use with HO fixtures at a 6-inch (15cm) setback from surface. Contact factory for application support.
- 10x60** - 10° x 60°
- 30x60** - 30° x 60°
- 60x60** - 60° x 60°



6

Mounting Option:

- SAM** - Slim Adjustable Mounting
- UMP** - Fixed Mounting
- UMAS** - Universal Adjustable Mounting
- WAM2** - Adjustable Wall Mounting 2"
- WAM6** - Adjustable Extended Arm Mounting 6"
- WAM12** - Adjustable Extended Arm Mounting 12"

7

Finish:

- SI** - Silver SandText
- BK** - Black SandText
- WH** - White
- CC** - Custom (please specify RAL color)

8

Control:

- NO** - No Dimming
- LT** - Lumentalk Dimming (available for 2', 3' and 4' lengths only) (1% minimum dimming value)
- DIM** - 0-10V Dimming option (10% minimum dimming value)
- DMX 1FT** - DMX Dimming option, resolution per foot (1% minimum dimming value)
- DMX 1FX** - DMX Dimming option, resolution per fixture (1% minimum dimming value)
- DALI** - DALI Dimming option (1% minimum dimming value)
- ES** - Lutron® EcoSystem® Enabled Dimming (available for 2', 3' and 4' lengths only) (1% minimum dimming value)

Client: _____

Project name: _____

Order #: _____

Type: _____ Qty: _____

L6

FEATURES AND BENEFITS

Physical :

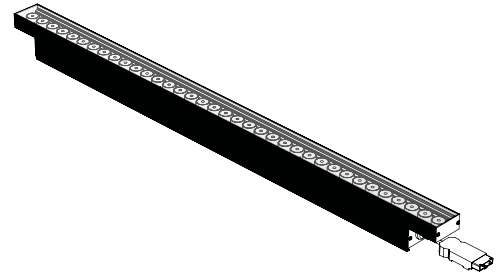
- Low copper content extruded aluminum housing
- Available in 1', 2', 3' or 4' sections
- Electro-statically applied polyester powder coat finish
- Aluminum end caps
- Stainless steel hardware
- Clear acrylic lens
- 10° x 10°, 10° x 60°, 30° x 60° or 60° x 60° optics
- Interior applications only

Performance :

- Minimum 1fc (10.7 lux) @ 114.7 feet (34.9m) distance (4000K, 10° x 60° optic, HO version)
- 2,455 delivered lumens and 13,172 candelas at nadir (4000K, 4' unit, 10° x 60° optic, HO version)
- CRI values: 85+ (2700K), 80+ (3000K), 78+ (4000K)
- Lumen maintenance 120,000 hrs [L70 @ 25°C]
- Lumen measurements comply with LM - 79 - 08 standard
- Resolution per foot or per fixture (see page 5)
- Operating temperatures: -25° C to 50° C [-13F to 122F]

Electrical :

- Line voltage luminaire for 100 to 277 volts
- Power and data in 1 cable (#16)
- Up to 88 feet with a single 120V power feed, HO version
- 5W/ft version meets ASHRAE standards for linear lighting on building facades
- 8.5W/ft (15.25W/ft HO version)
- Dimming options: 0-10 volt, DMX, DALI, Lumentalk, or Lutron® EcoSystem® enabled



lumen talk™

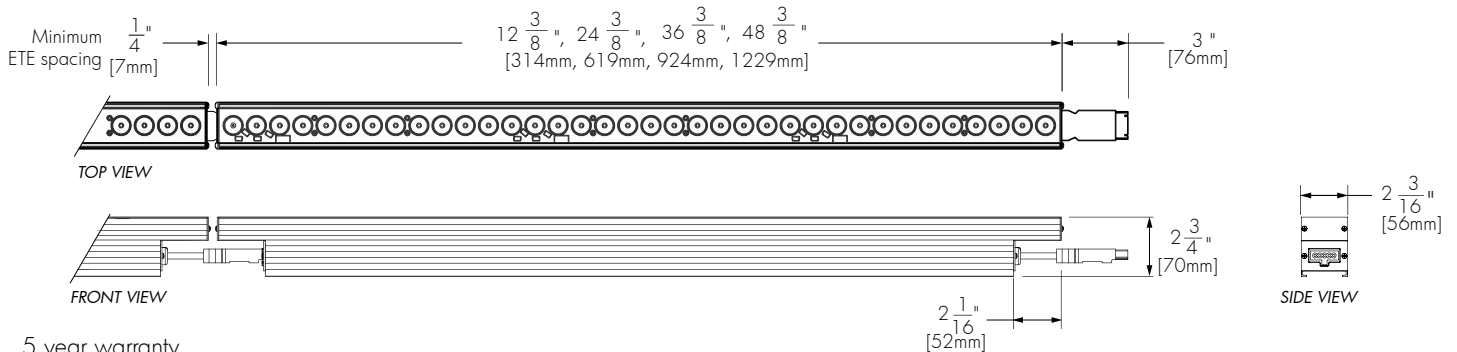
EcoSystem Enabled

Wiring detail

PIN ID / WIRE COLOR / USE		
(N)	WHITE	NEUTRAL
(+)	GREEN	GROUND
(1)	BLACK	LIVE 120-277V
(2)	ORANGE	0-10V / DATA-
(3)	RED	0-10V / DATA+

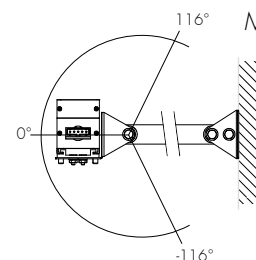
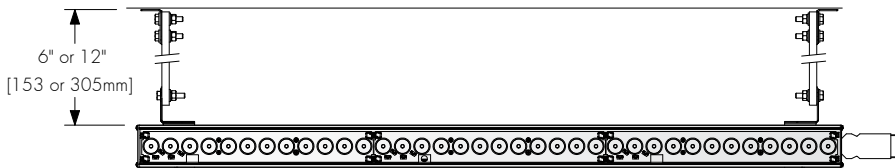
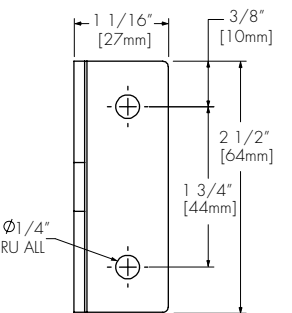
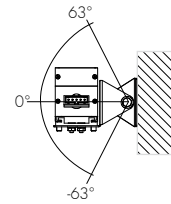
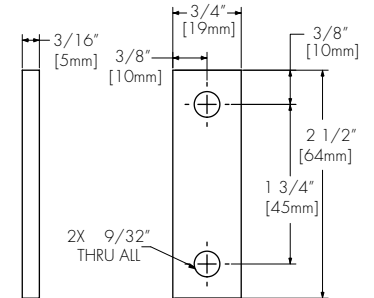
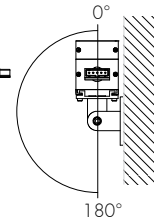
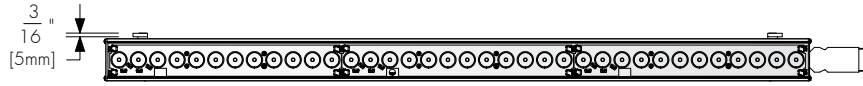
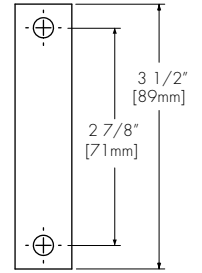
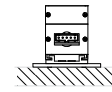
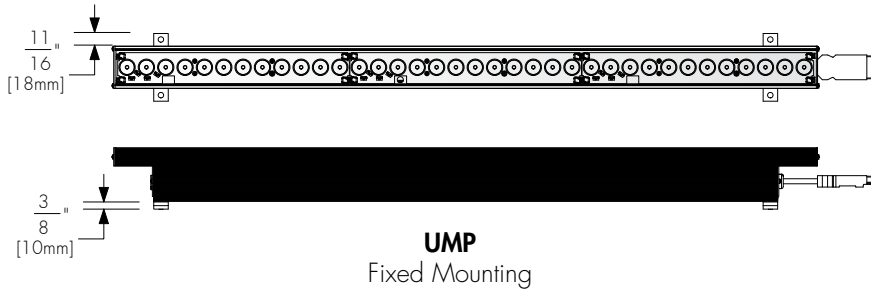
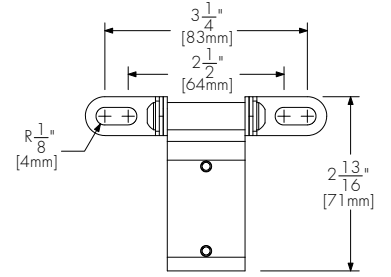
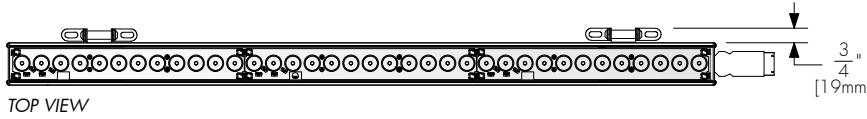
CE Wiring detail

PIN ID / WIRE COLOR / USE		
(N)	BLUE	NEUTRAL
(+)	GREEN/YELLOW	GROUND
(1)	BROWN	LIVE 120-277V
(2)	GRAY	0-10V / DATA-
(3)	BLACK	0-10V / DATA+

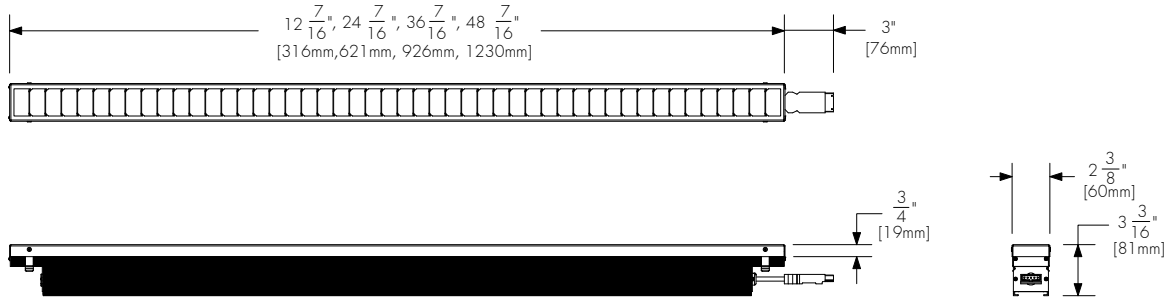


5 year warranty

MOUNTING OPTIONS



LOUVER ACCESSORY INSTALLATION DETAIL



LOGiRD

Radial Louver for Lumenfacade Interior
(see page 4 for ordering code)

ACCESSORIES

Order separately

Control Systems:

- LTO2** Lumentouch 2.0 is a wall mount DMX 512 controller keypad
- LCU** Lumencue is a USB / mini SD DMX 512 controller
- LID** LumenID is a diagnostic and addressing DMX 512 controller. It must be specified on all DMX applications. Refer to LID specification sheet for details.
- LTN** Lumentone is a simple pre-programmed DMX 512 controller with a push button rotary dial and live feedback.

CBOX :

iCBOX-__V-__-__ Interior DMX 512 data box.
Data input and output, M20 provision holes with plugs.
Voltage input and output, M20 provision holes with plugs.
Up to six outputs to fixtures, M20 provision holes with plugs.
Please specify desired input voltage and finish.
Refer to iCBOX specification sheet for details.

CBOX-__V-__-__ DMX 512 data box.
Data input and output, M20 provision holes with plugs.
Voltage input and output, M20 provision holes with plugs.
Up to six outputs to fixtures, M20 provision holes with plugs.
Please specify desired input voltage and finish.
Refer to CBOX specification sheet for details.

Leader Cable :

LOGiLCD__ Leader Cable for Lumenfacade interior.
Please add desired cable length : 10, 25 or 50 feet
Sealing endcap is mandatory for any unused connector.
(1) included with every leader cable

Jumper Cable :

LOGiJCD__ Jumper Cable for Lumenfacade interior.
Please add desired cable length : 1, 2, 4, 8, 10, 15 or 20 feet

Radial Louver :

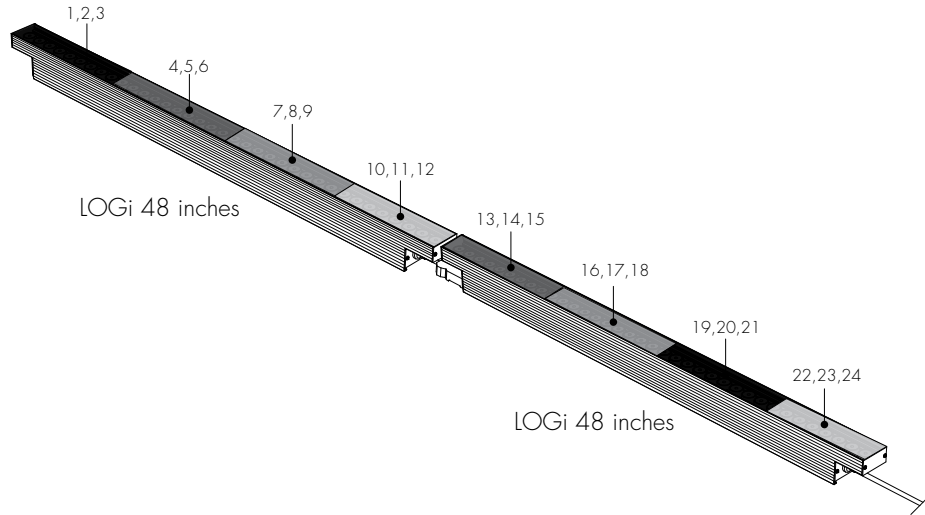
LOGiRD__-__ Radial louver for Lumenfacade.

1. Please specify desired nominal length: 1', 2', 3' or 4'.
2. Please specify finish as BK - Black SandText
(Custom color available on request, please specify as CC together with RAL color : _____)

RESOLUTION DETAILS APPLICABLE FOR DMX DIMMING OPTION ONLY

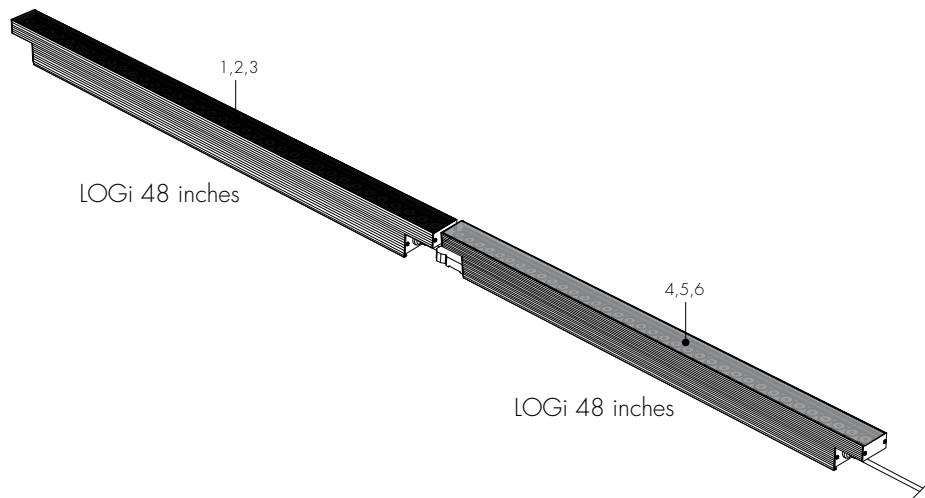
DMX 1FT - Resolution per foot: each foot is addressed independently (recommended for most installations)
1% minimum dimming value

DMX ADDRESSES:



DMX 1FX - Resolution per fixture: each fixture is addressed independently
1% minimum dimming value

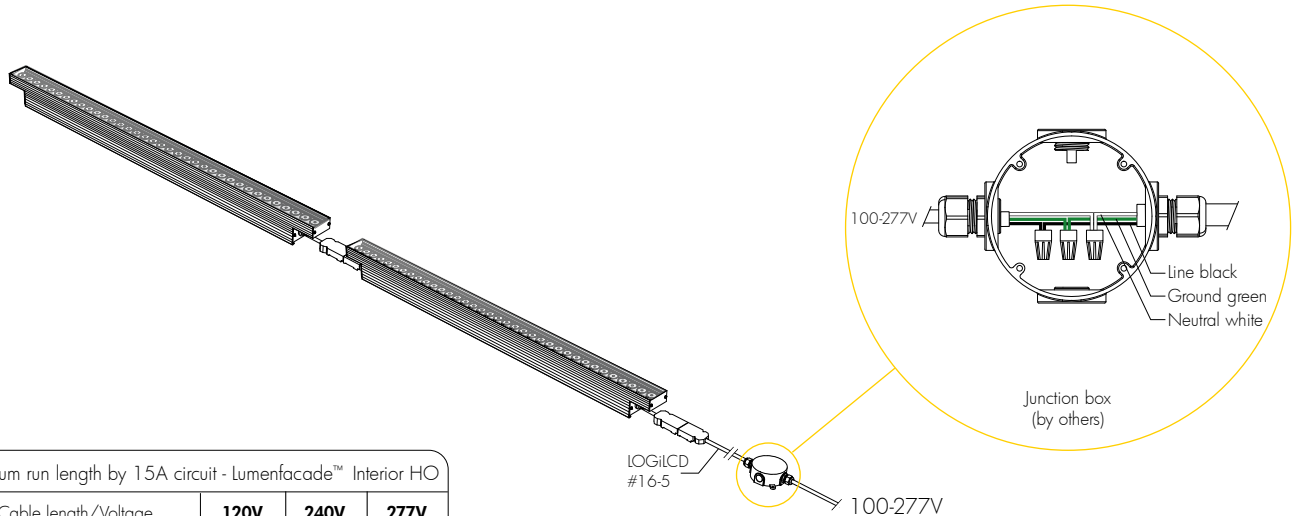
DMX ADDRESSES:



*Warning: resolution is a factory setting and cannot be changed in the field.

TYPICAL WIRING DIAGRAMS

Non-Dimming or Lumentalk Dimming Version

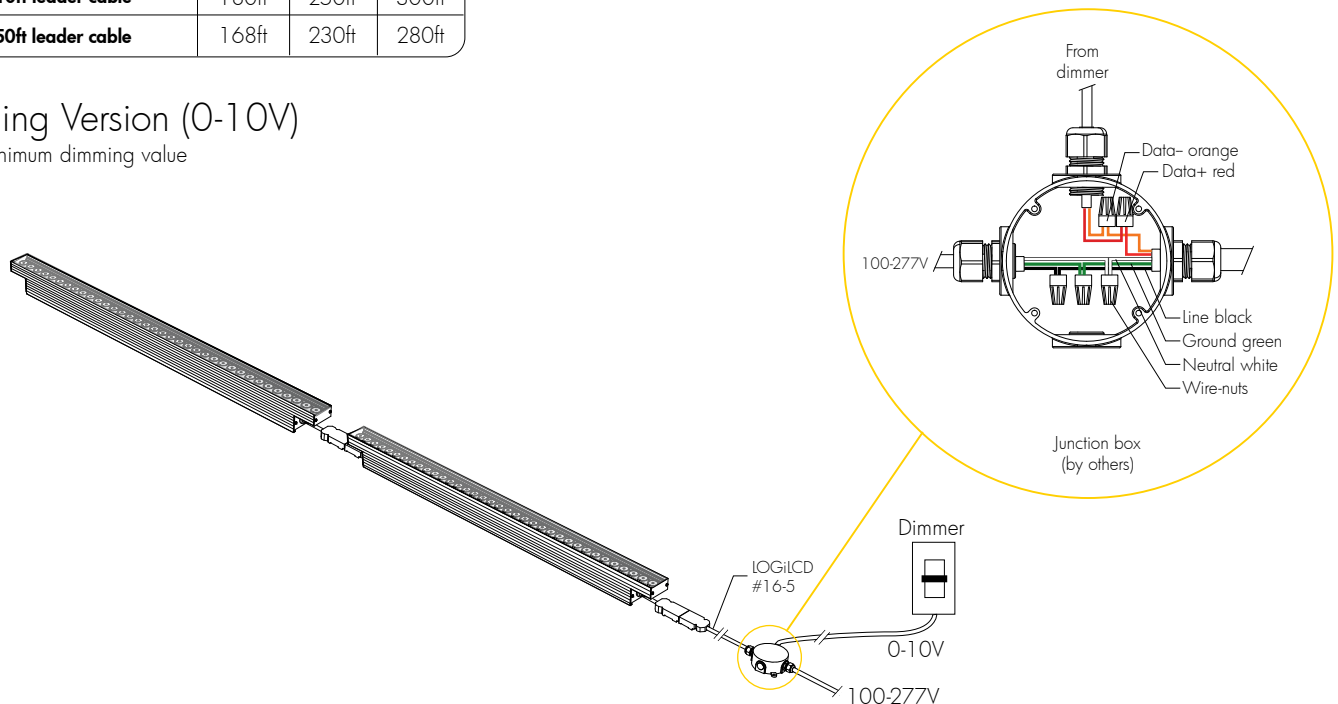


Maximum run length by 15A circuit - lumenfacade™ Interior HO			
Cable length/Voltage	120V	240V	277V
10ft leader cable	88ft	100ft	112ft
50ft leader cable	68ft	76ft	84ft
Maximum run length by 15A circuit - lumenfacade™ Interior RO			
Cable length/Voltage	120V	240V	277V
10ft leader cable	148ft	168ft	184ft
50ft leader cable	120ft	132ft	148ft

ASHRAE Code Compliant - lumenfacade™ 5W/ft Maximum run length by 15A circuit			
Cable length/Voltage	120V	240V	277V
10ft leader cable	180ft	250ft	300ft
50ft leader cable	168ft	230ft	280ft

Dimming Version (0-10V)

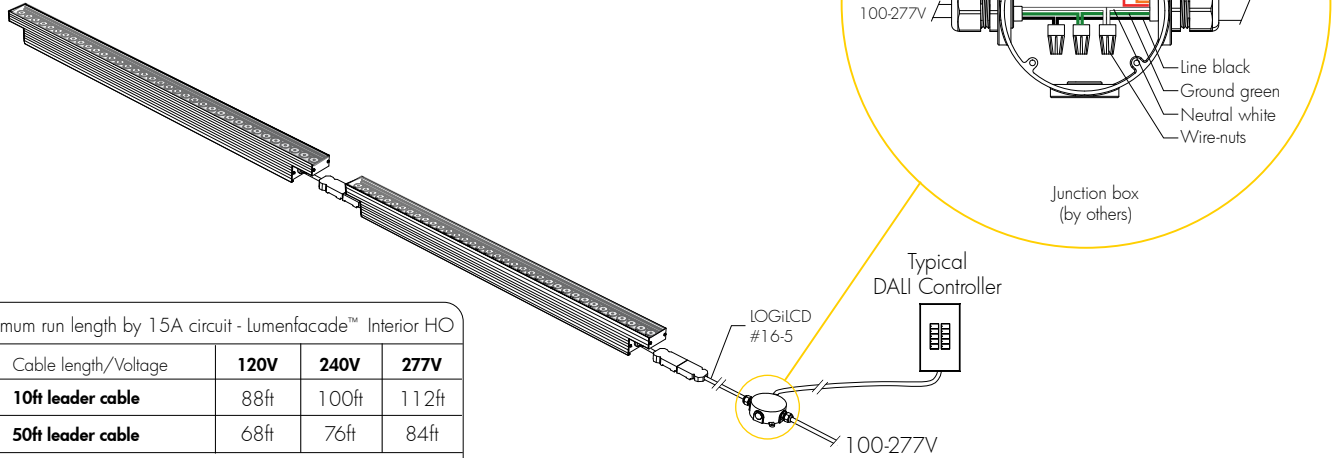
10% minimum dimming value



TYPICAL WIRING DIAGRAMS - continued

Dimming Version (DALI)

1% minimum dimming value

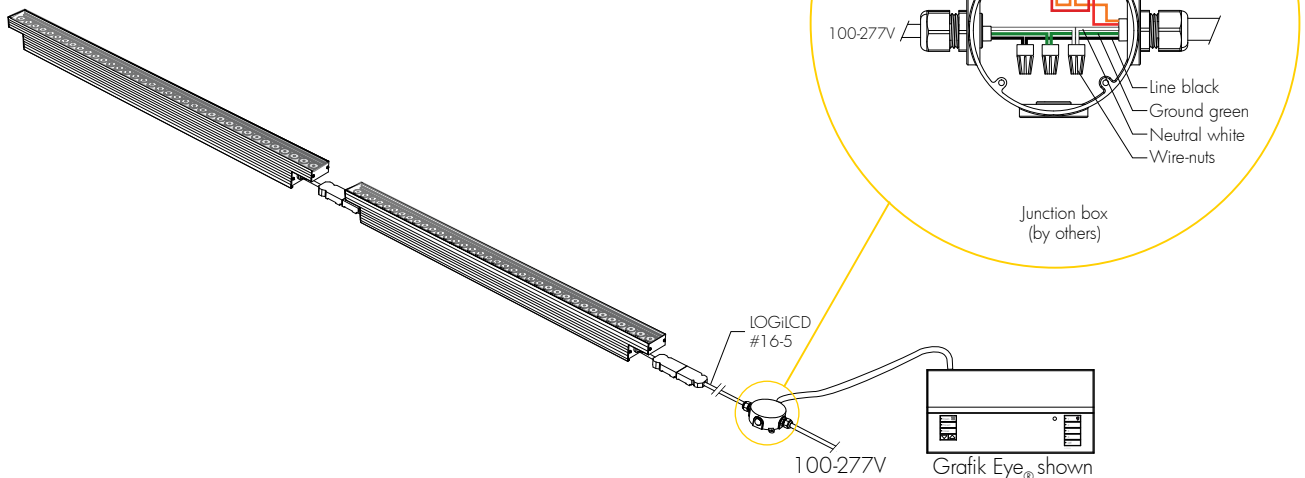


Maximum run length by 15A circuit - lumenfacade™ Interior HO			
Cable length/Voltage	120V	240V	277V
10ft leader cable	88ft	100ft	112ft
50ft leader cable	68ft	76ft	84ft
Maximum run length by 15A circuit - lumenfacade™ Interior RO			
Cable length/Voltage	120V	240V	277V
10ft leader cable	148ft	168ft	184ft
50ft leader cable	120ft	132ft	148ft

ASHRAE Code Compliant - lumenfacade™ 5W/ft Maximum run length by 15A circuit			
Cable length/Voltage	120V	240V	277V
10ft leader cable	180ft	250ft	300ft
50ft leader cable	168ft	230ft	280ft

Dimming Version (EcoSystem®)

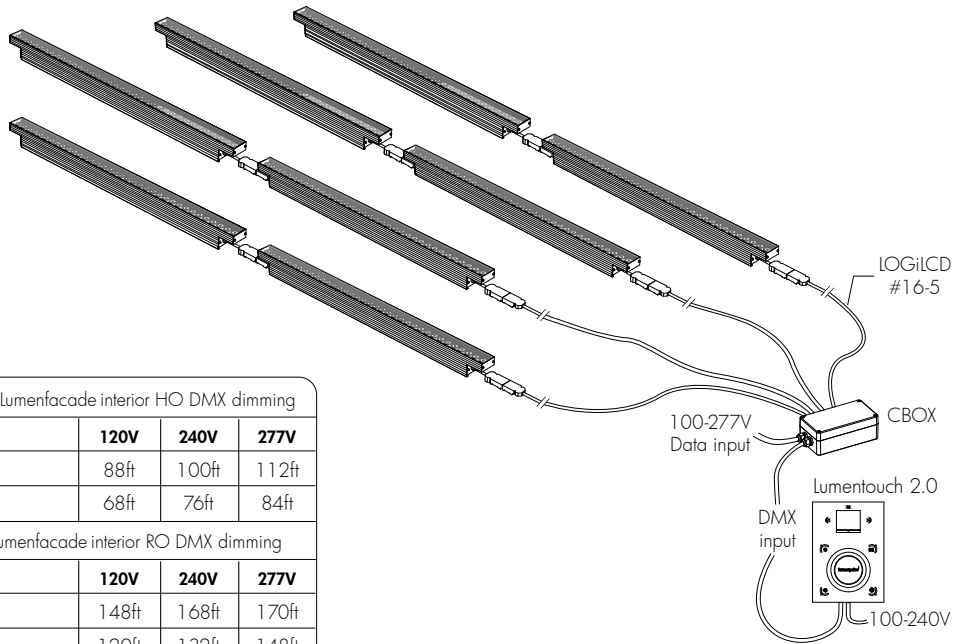
1% minimum dimming value



TYPICAL WIRING DIAGRAMS - continued

DMX Dimming Version (Star layout)

1% minimum dimming value



Maximum run length by 15A circuit - lumenfacade interior HO DMX dimming			
Cable length/Voltage	120V	240V	277V
10ft leader cable	88ft	100ft	112ft
50ft leader cable	68ft	76ft	84ft
Maximum run length by 15A circuit - lumenfacade interior RO DMX dimming			
Cable length/Voltage	120V	240V	277V
10ft leader cable	148ft	168ft	170ft
50ft leader cable	120ft	132ft	148ft

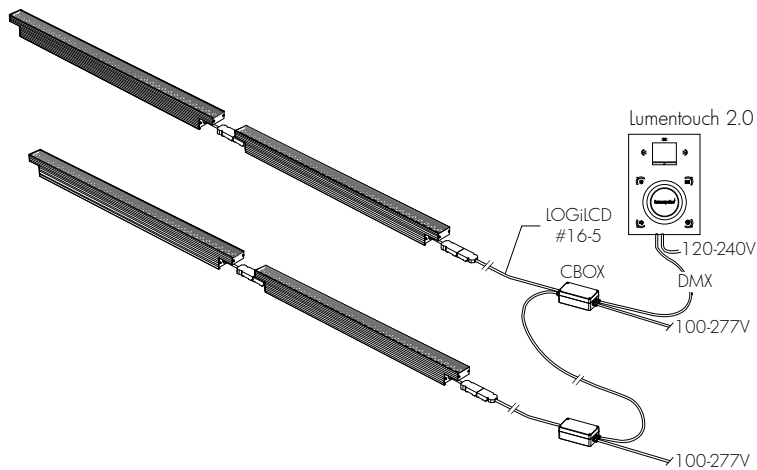
*Up to 170 individually addressable 1 foot sections per DMX run.
Consult factory for specific applications.

ASHRAE Code Compliant - lumenfacade™ 5W/ft DMX dimming Maximum run length by 15A circuit			
Cable length/Voltage	120V	240V	277V
10ft leader cable	170ft	170ft	170ft
50ft leader cable	168ft	170ft	170ft

*Up to 170 individually addressable 1 foot sections per DMX run.
Consult factory for specific applications.

DMX Dimming Version (Daisy Chain Layout)

1% minimum dimming value



HOW TO ORDER

LOGi

Housing	Voltage	Length	Colors and color temperatures	Optic	Mounting Option	Finish	Control
1	2	3	4	5	6	7	8
1					5		

Housing:

- LOGi ASHRAE** - Lumenfacade™ interior, 5W/ft, ASHRAE compliant
- LOGi RO** - Lumenfacade™ interior Regular Output, 8.5W/ft
- LOGi HO** - Lumenfacade™ interior High Output, 15.25W/ft

2

Voltage:

- | | |
|------------------------|------------------------|
| 100 - 100 volts | 220 - 220 volts |
| 120 - 120 volts | 240 - 240 volts |
| 208 - 208 volts | 277 - 277 volts |

3

Length:

- 12** - 12 3/8 inches (314mm) (0.95 kg/2.1 lbs)
- 24** - 24 3/8 inches (619mm) (1.68 kg/3.7 lbs)
- 36** - 36 3/8 inches (924mm) (2.41 kg/5.3 lbs)
- 48** - 48 3/8 inches (1229mm) (3.08 kg/6.8 lbs)

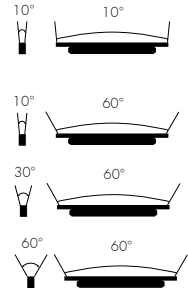
4

Colors and Color temperatures:

- 27K** - 2700K
- 30K** - 3000K
- 35K** - 3500K
- 40K** - 4000K
- RD** - Red
- GR** - Green
- BL** - Blue

Optics:

- 10x10** - 10° x 10°
*For best results use with HO fixtures at a 6-inch (15cm) setback from surface. Contact factory for application support.
- 10x60** - 10° x 60°
- 30x60** - 30° x 60°
- 60x60** - 60° x 60°



6

Mounting Option:

- SAM** - Slim Adjustable Mounting
- UMP** - Fixed Mounting
- UMAS** - Universal Adjustable Mounting
- WAM2** - Adjustable Wall Mounting 2"
- WAM6** - Adjustable Extended Arm Mounting 6"
- WAM12** - Adjustable Extended Arm Mounting 12"

7

Finish:

- SI** - Silver SandText
- BK** - Black SandText
- WH** - White
- CC** - Custom (please specify RAL color)

8

Control:

- NO** - No Dimming
- LT** - Lumentalk Dimming (available for 2', 3' and 4' lengths only) (1% minimum dimming value)
- DIM** - 0-10V Dimming option (10% minimum dimming value)
- DMX 1FT** - DMX Dimming option, resolution per foot (1% minimum dimming value)
- DMX 1FX** - DMX Dimming option, resolution per fixture (1% minimum dimming value)
- DALI** - DALI Dimming option (1% minimum dimming value)
- ES** - Lutron® EcoSystem® Enabled Dimming (available for 2', 3' and 4' lengths only) (1% minimum dimming value)

Client: _____

Project name: _____

Order #: _____

Type: _____ Qty: _____

L7

FEATURES AND BENEFITS

Physical :

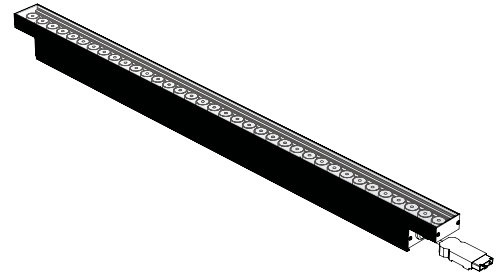
- Low copper content extruded aluminum housing
- Available in 1', 2', 3' or 4' sections
- Electro-statically applied polyester powder coat finish
- Aluminum end caps
- Stainless steel hardware
- Clear acrylic lens
- 10° x 10°, 10° x 60°, 30° x 60° or 60° x 60° optics
- Interior applications only

Performance :

- Minimum 1fc (10.7 lux) @ 114.7 feet (34.9m) distance (4000K, 10° x 60° optic, HO version)
- 2,455 delivered lumens and 13,172 candelas at nadir (4000K, 4' unit, 10° x 60° optic, HO version)
- CRI values: 85+ (2700K), 80+ (3000K), 78+ (4000K)
- Lumen maintenance 120,000 hrs [L70 @ 25°C]
- Lumen measurements comply with LM - 79 - 08 standard
- Resolution per foot or per fixture (see page 5)
- Operating temperatures: -25° C to 50° C [-13F to 122F]

Electrical :

- Line voltage luminaire for 100 to 277 volts
- Power and data in 1 cable (#16)
- Up to 88 feet with a single 120V power feed, HO version
- 5W/ft version meets ASHRAE standards for linear lighting on building facades
- 8.5W/ft (15.25W/ft HO version)
- Dimming options: 0-10 volt, DMX, DALI, Lumentalk, or Lutron® EcoSystem® enabled



lumen talk™

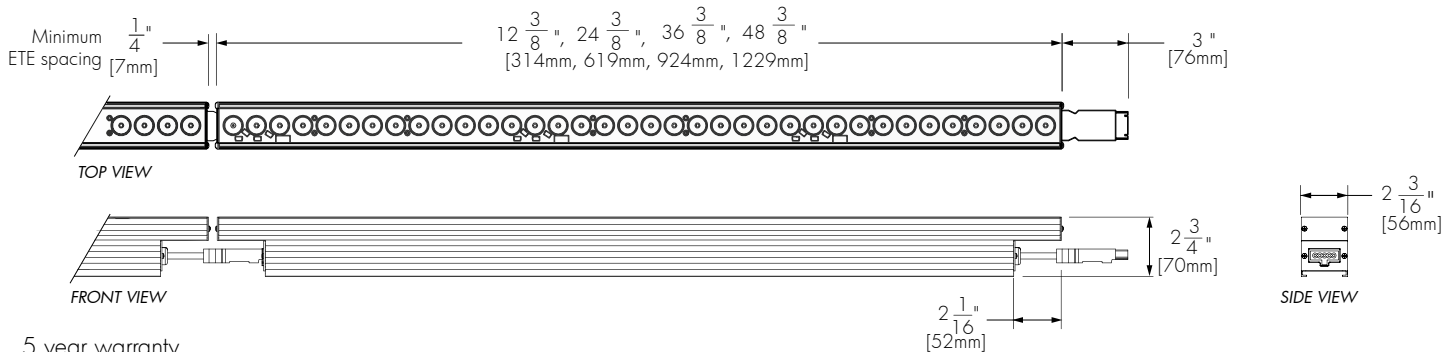
EcoSystem Enabled

Wiring detail

PIN ID / WIRE COLOR / USE		
(N)	WHITE	NEUTRAL
(+)	GREEN	GROUND
(1)	BLACK	LIVE 120-277V
(2)	ORANGE	0-10V / DATA-
(3)	RED	0-10V / DATA+

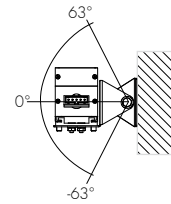
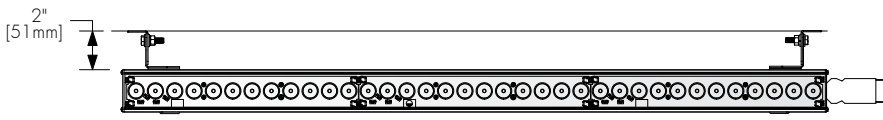
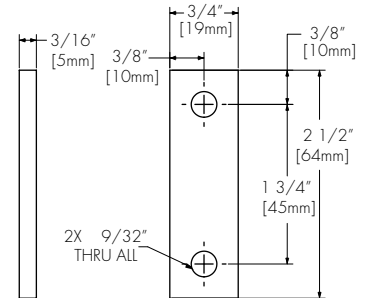
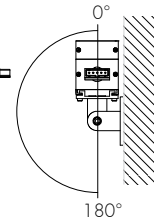
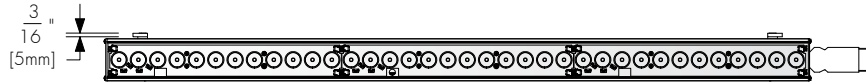
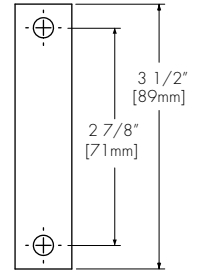
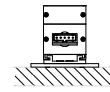
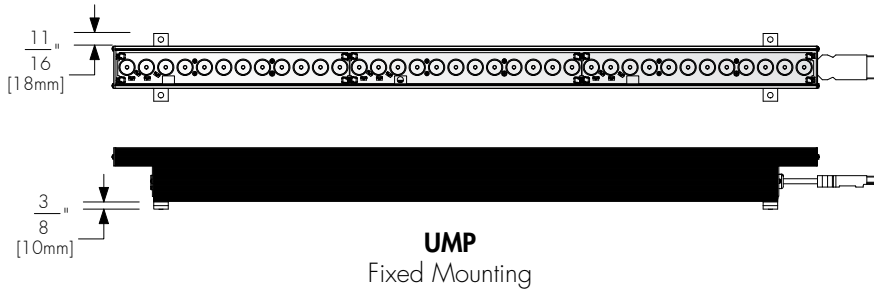
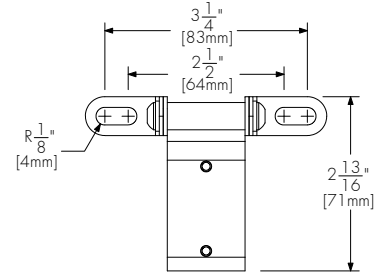
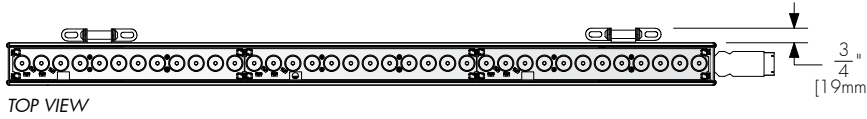
CE Wiring detail

PIN ID / WIRE COLOR / USE		
(N)	BLUE	NEUTRAL
(+)	GREEN/YELLOW	GROUND
(1)	BROWN	LIVE 120-277V
(2)	GRAY	0-10V / DATA-
(3)	BLACK	0-10V / DATA+



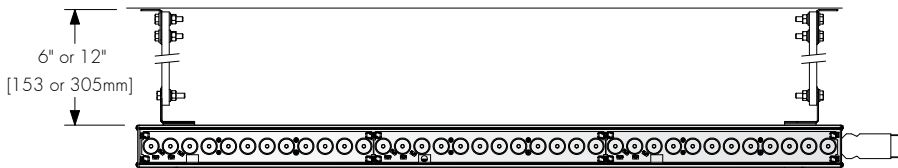
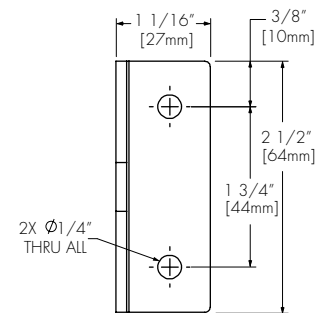
5 year warranty

MOUNTING OPTIONS

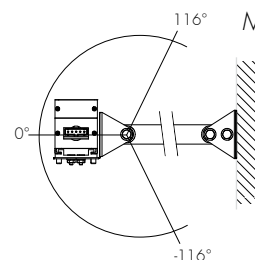


WAM2
Adjustable Wall Mounting

WAM2
Mounting Hole Pattern

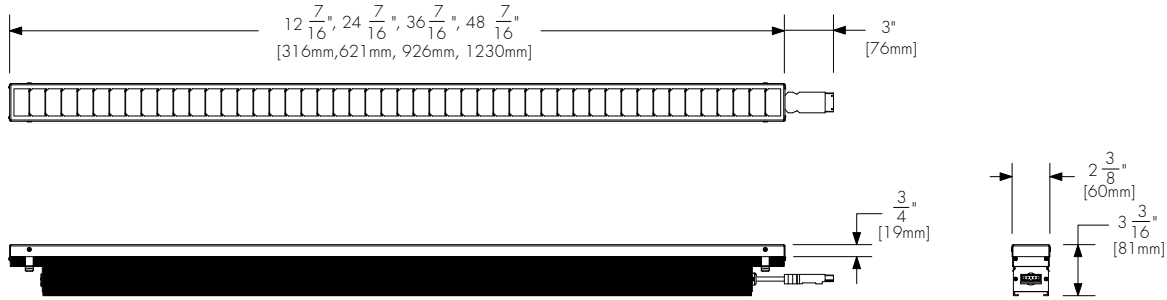


WAM6 or WAM12
Adjustable Extended Arm Mounting



WAM6 or WAM12
Mounting Hole Pattern

LOUVER ACCESSORY INSTALLATION DETAIL



LOGiRD

Radial Louver for Lumenfacade Interior
(see page 4 for ordering code)

ACCESSORIES

Order separately

Control Systems:

- LTO2** Lumentouch 2.0 is a wall mount DMX 512 controller keypad
- LCU** Lumencue is a USB / mini SD DMX 512 controller
- LID** LumenID is a diagnostic and addressing DMX 512 controller. It must be specified on all DMX applications. Refer to LID specification sheet for details.
- LTN** Lumentone is a simple pre-programmed DMX 512 controller with a push button rotary dial and live feedback.

CBOX :

iCBOX-__V-__-__ Interior DMX 512 data box.
Data input and output, M20 provision holes with plugs.
Voltage input and output, M20 provision holes with plugs.
Up to six outputs to fixtures, M20 provision holes with plugs.
Please specify desired input voltage and finish.
Refer to iCBOX specification sheet for details.

CBOX-__V-__-__ DMX 512 data box.
Data input and output, M20 provision holes with plugs.
Voltage input and output, M20 provision holes with plugs.
Up to six outputs to fixtures, M20 provision holes with plugs.
Please specify desired input voltage and finish.
Refer to CBOX specification sheet for details.

Leader Cable :

LOGiLCD__ Leader Cable for Lumenfacade interior.
Please add desired cable length : 10, 25 or 50 feet
Sealing endcap is mandatory for any unused connector.
(1) included with every leader cable

Jumper Cable :

LOGiJCD__ Jumper Cable for Lumenfacade interior.
Please add desired cable length : 1, 2, 4, 8, 10, 15 or 20 feet

Radial Louver :

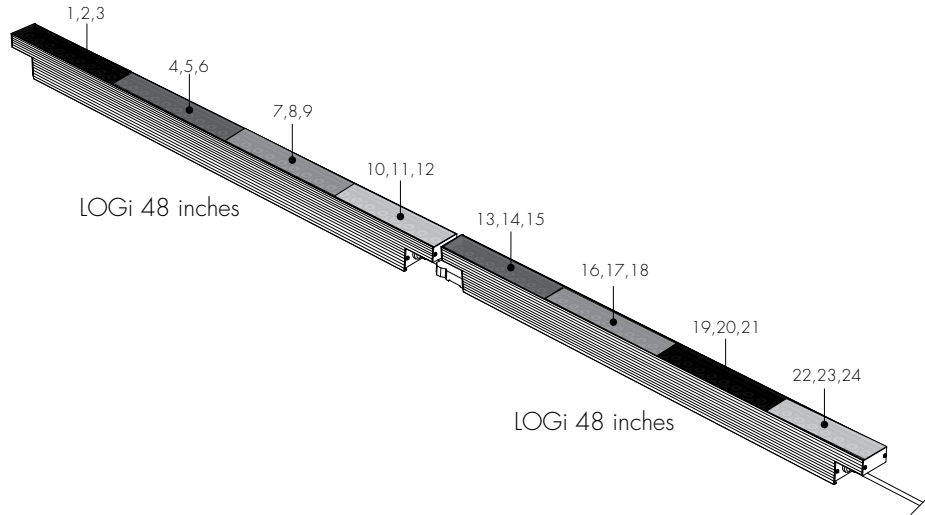
LOGiRD__-__ Radial louver for Lumenfacade.

1. Please specify desired nominal length: 1', 2', 3' or 4'.
2. Please specify finish as BK - Black SandText
(Custom color available on request, please specify as CC together with RAL color : _____)

RESOLUTION DETAILS APPLICABLE FOR DMX DIMMING OPTION ONLY

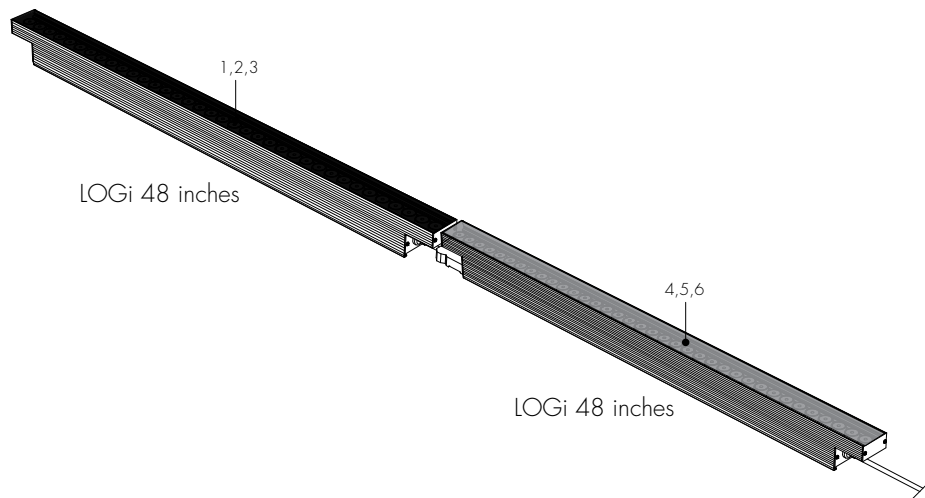
DMX 1FT - Resolution per foot: each foot is addressed independently (recommended for most installations)
1% minimum dimming value

DMX ADDRESSES:



DMX 1FX - Resolution per fixture: each fixture is addressed independently
1% minimum dimming value

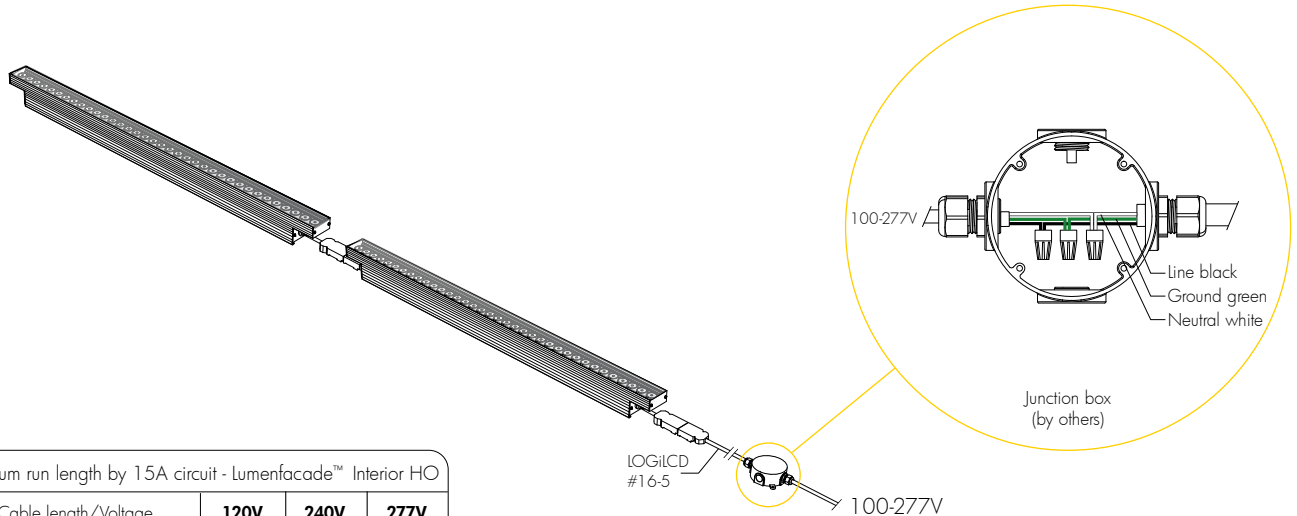
DMX ADDRESSES:



*Warning: resolution is a factory setting and cannot be changed in the field.

TYPICAL WIRING DIAGRAMS

Non-Dimming or Lumentalk Dimming Version

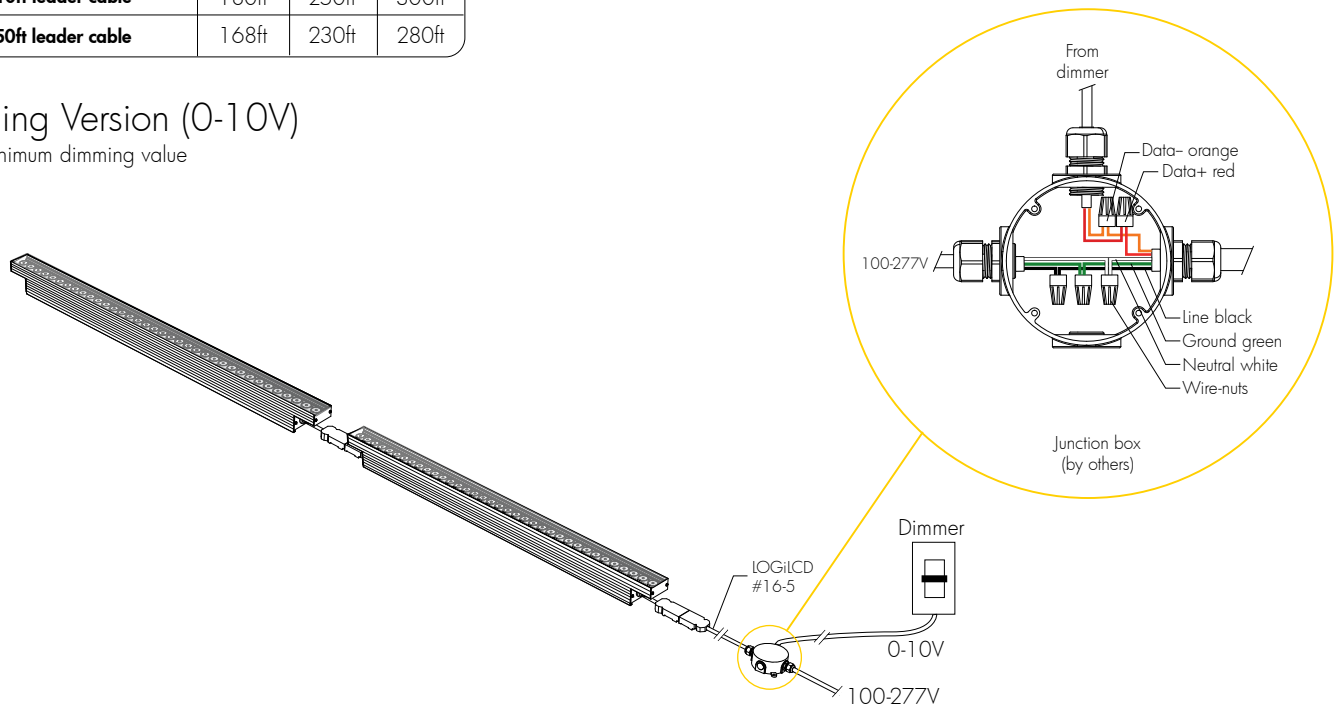


Maximum run length by 15A circuit - lumenfacade™ Interior HO			
Cable length/Voltage	120V	240V	277V
10ft leader cable	88ft	100ft	112ft
50ft leader cable	68ft	76ft	84ft
Maximum run length by 15A circuit - lumenfacade™ Interior RO			
Cable length/Voltage	120V	240V	277V
10ft leader cable	148ft	168ft	184ft
50ft leader cable	120ft	132ft	148ft

ASHRAE Code Compliant - lumenfacade™ 5W/ft Maximum run length by 15A circuit			
Cable length/Voltage	120V	240V	277V
10ft leader cable	180ft	250ft	300ft
50ft leader cable	168ft	230ft	280ft

Dimming Version (0-10V)

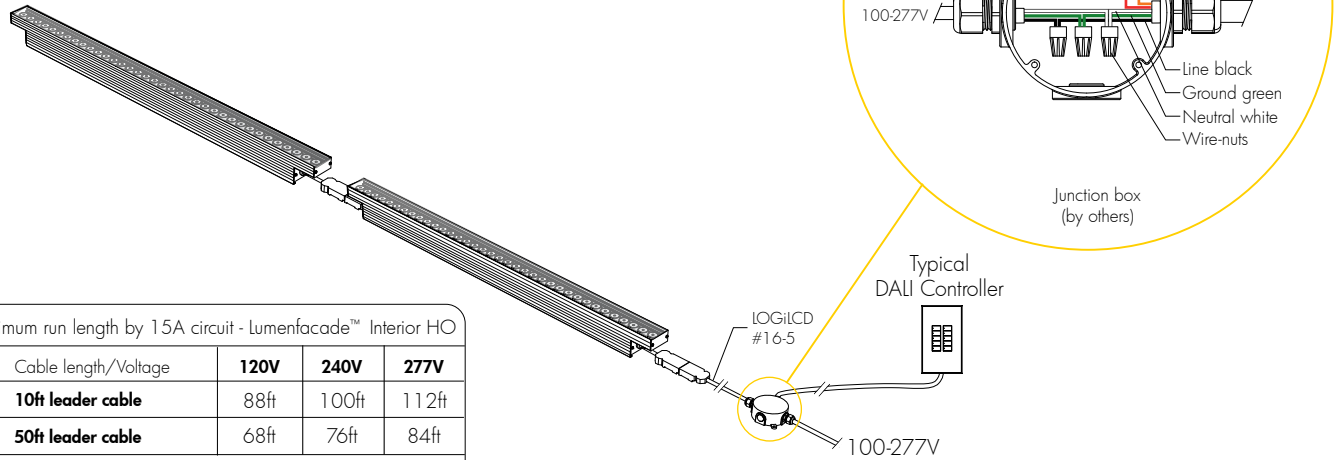
10% minimum dimming value



TYPICAL WIRING DIAGRAMS - continued

Dimming Version (DALI)

1% minimum dimming value

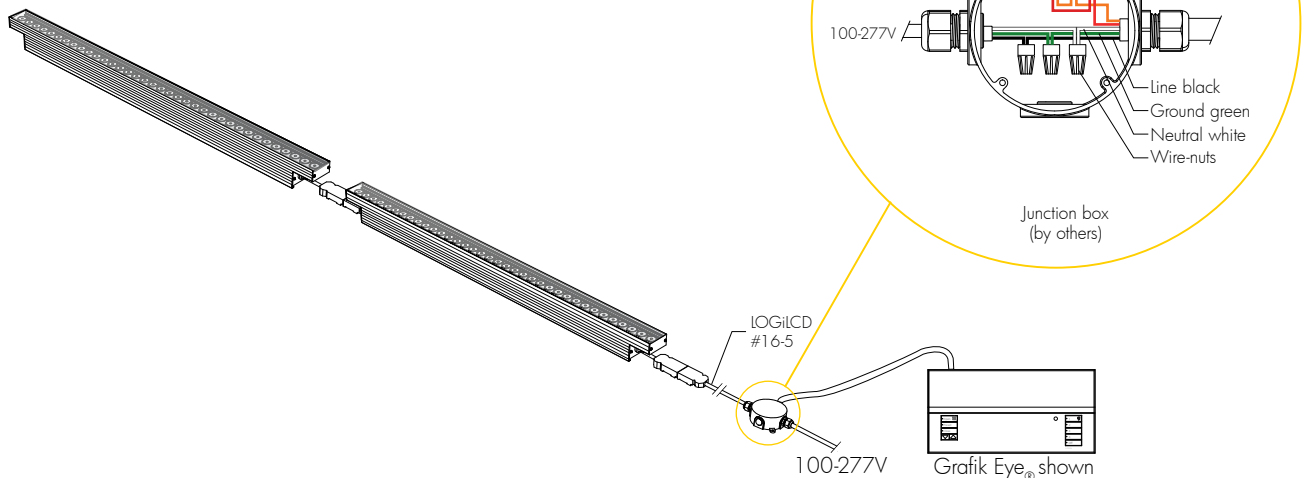


Maximum run length by 15A circuit - lumenfacade™ Interior HO			
Cable length/Voltage	120V	240V	277V
10ft leader cable	88ft	100ft	112ft
50ft leader cable	68ft	76ft	84ft
Maximum run length by 15A circuit - lumenfacade™ Interior RO			
Cable length/Voltage	120V	240V	277V
10ft leader cable	148ft	168ft	184ft
50ft leader cable	120ft	132ft	148ft

ASHRAE Code Compliant - lumenfacade™ 5W/ft Maximum run length by 15A circuit			
Cable length/Voltage	120V	240V	277V
10ft leader cable	180ft	250ft	300ft
50ft leader cable	168ft	230ft	280ft

Dimming Version (EcoSystem®)

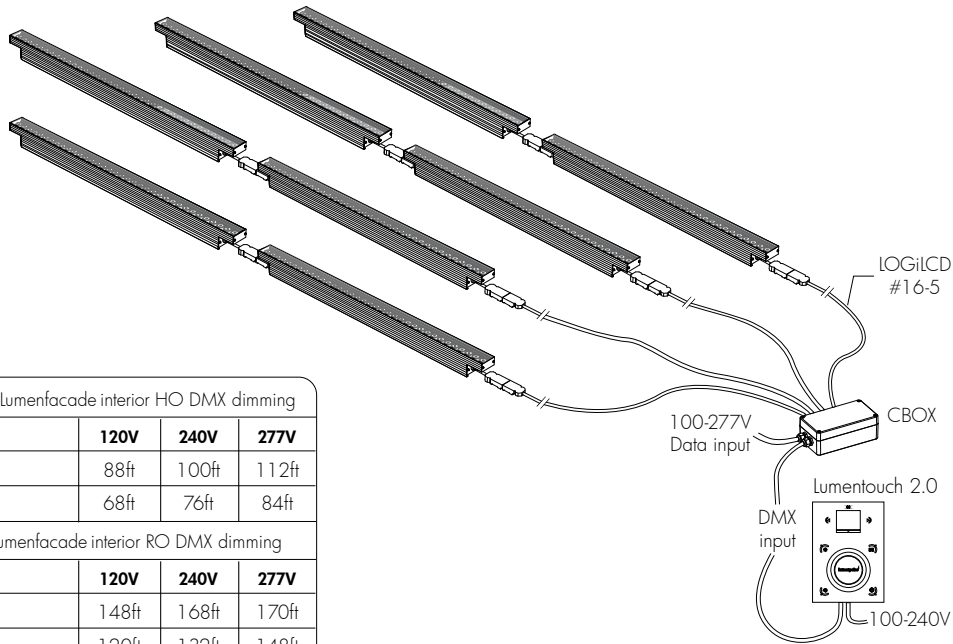
1% minimum dimming value



TYPICAL WIRING DIAGRAMS - continued

DMX Dimming Version (Star layout)

1% minimum dimming value



Maximum run length by 15A circuit - lumenfacade interior HO DMX dimming			
Cable length/Voltage	120V	240V	277V
10ft leader cable	88ft	100ft	112ft
50ft leader cable	68ft	76ft	84ft
Maximum run length by 15A circuit - lumenfacade interior RO DMX dimming			
Cable length/Voltage	120V	240V	277V
10ft leader cable	148ft	168ft	170ft
50ft leader cable	120ft	132ft	148ft

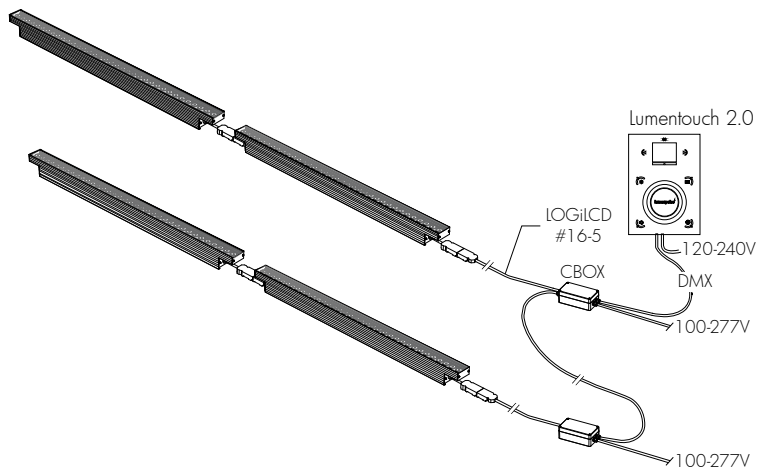
*Up to 170 individually addressable 1 foot sections per DMX run.
Consult factory for specific applications.

ASHRAE Code Compliant - lumenfacade™ 5W/ft DMX dimming Maximum run length by 15A circuit			
Cable length/Voltage	120V	240V	277V
10ft leader cable	170ft	170ft	170ft
50ft leader cable	168ft	170ft	170ft

*Up to 170 individually addressable 1 foot sections per DMX run.
Consult factory for specific applications.

DMX Dimming Version (Daisy Chain Layout)

1% minimum dimming value



HOW TO ORDER

LOGi

Housing	Voltage	Length	Colors and color temperatures	Optic	Mounting Option	Finish	Control
1	2	3	4	5	6	7	8
1					5		

Housing:

LOGi ASHRAE - Lumenfacade™ interior, 5W/ft, ASHRAE compliant

LOGi RO - Lumenfacade™ interior Regular Output, 8.5W/ft

LOGi HO - Lumenfacade™ interior High Output, 15.25W/ft

2

Voltage:

100 - 100 volts	220 - 220 volts
120 - 120 volts	240 - 240 volts
208 - 208 volts	277 - 277 volts

3

Length:

12 - 12 3/8 inches (314mm) (0.95 kg/2.1 lbs)
24 - 24 3/8 inches (619mm) (1.68 kg/3.7 lbs)
36 - 36 3/8 inches (924mm) (2.41 kg/5.3 lbs)
48 - 48 3/8 inches (1229mm) (3.08 kg/6.8 lbs)

4

Colors and Color temperatures:

27K - 2700K
30K - 3000K
35K - 3500K
40K - 4000K
RD - Red
GR - Green
BL - Blue

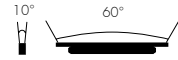
Optics:

10x10 - 10° x 10°

*For best results use with HO fixtures at a 6-inch (15cm) setback from surface. Contact factory for application support.



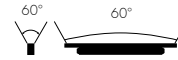
10x60 - 10° x 60°



30x60 - 30° x 60°



60x60 - 60° x 60°



6

Mounting Option:

SAM - Slim Adjustable Mounting

UMP - Fixed Mounting

UMAS - Universal Adjustable Mounting

WAM2 - Adjustable Wall Mounting 2"

WAM6 - Adjustable Extended Arm Mounting 6"

WAM12 - Adjustable Extended Arm Mounting 12"

7

Finish:

SI - Silver SandText

BK - Black SandText

WH - White

CC - Custom (please specify RAL color)

8

Control:

NO - No Dimming

LT - Lumentalk Dimming (available for 2', 3' and 4' lengths only) (1% minimum dimming value)

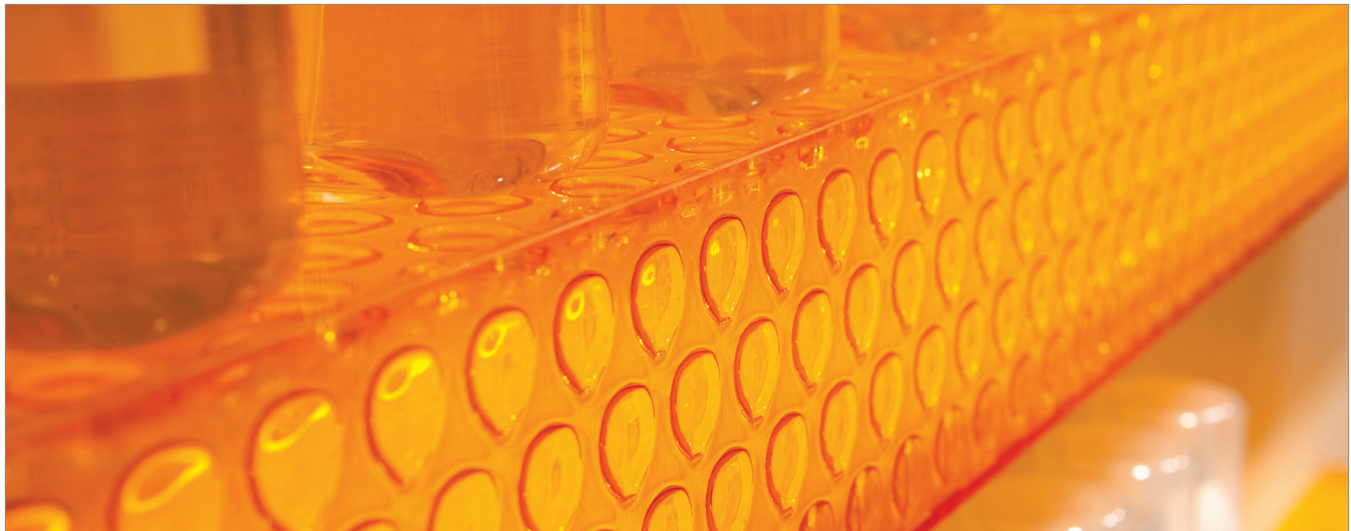
DIM - 0-10V Dimming option (10% minimum dimming value)

DMX 1FT - DMX Dimming option, resolution per foot (1% minimum dimming value)

DMX 1FX - DMX Dimming option, resolution per fixture (1% minimum dimming value)

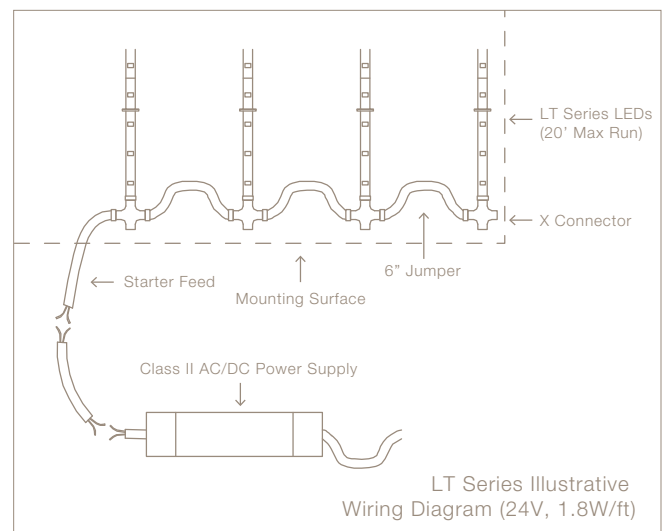
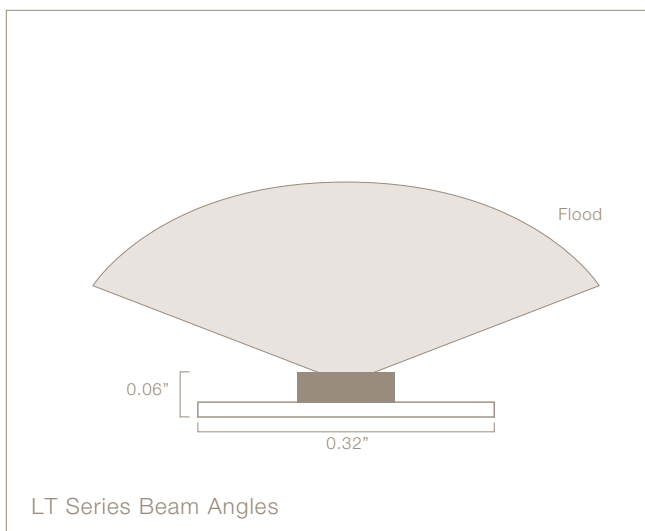
DALI - DALI Dimming option (1% minimum dimming value)

ES - Lutron® EcoSystem® Enabled Dimming (available for 2', 3' and 4' lengths only) (1% minimum dimming value)



Features and Specifications

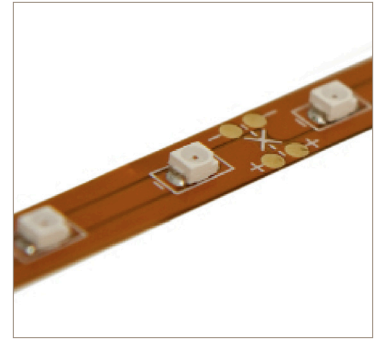
- LED Life of approximately 35K hours, under normal operating conditions
- Low wattage, low voltage, low heat 24VDC Operation
- 12 inch joinable segments
- Adhesive Backed
- Ability to cut to length
- Available in warm white, cool white, blue, red, green, and yellow. (RGB available upon request)



For more information, please visit 3-form.com or call 800.726.0126

LED Tape

PART NUMBER	COLOR	POWER (W/FT)	LUMENS PER FT	COLOR TEMPERATURE
3-60-117	WARM WHITE	1.8	30	3000K
3-60-118	COOL WHITE	1.8	30	6500K
3-60-119	BLUE	1.8	6	470NM
3-60-120	RED	1.2	36	624NM
3-60-121	GREEN	1.8	18	515NM
3-60-122	YELLOW	1.2	30	590NM



LED Tape Drivers and Accessories

PART NUMBER	ACCESSORIES AND DRIVER
3-60-123	6" LED Tape Jumper
3-60-124	12" LED Tape Jumper
3-60-097	X Connectors
3-60-251	Starter Feed for LED Tape
3-60-205	Starter Feed for Waterproof LED Tape
3-60-098	100W Dimmable Driver
3-60-099	40W Dimmable Driver
3-60-131	10W - 24V Driver
3-60-132	20W - 24V Driver
3-60-134	60W - 24V Driver
3-60-135	45W - 24V Driver
3-60-136	150W - 24V Driver



Waterproof LED Tape

PART NUMBER	COLOR	POWER (W/FT)	VOLTS	TEMPERATURE / WAVELENGTH
3-60-125	WARM WHITE	1.8	24	3000K
3-60-126	COOL WHITE	1.8	24	6500K
3-60-127	BLUE	1.8	12	470NM
3-60-128	RED	1.2	12	624NM
3-60-129	GREEN	1.8	12	515NM
3-60-130	YELLOW	1.2	12	590NM



Waterproof LED Tape Features

- Same features as standard LT Series LED Tape in waterproof format.
- 16' Long Rolls (Sold by the roll)
- Once field cut, cut off portion is unusable.

Translucent (NEWLIGHT) width: 58 " 1/4 or 148cm

* Exception width: 83 " 7/16 or 212cm



TOB*
BLANC
Light transmis.
72.50%



TOB2*
OPALESCENT-BLANC
Light transmis.
70.98%



TOB3M
SOFT-WHITE
MATT FINISH
Light transmis.
76.60%



TOB3S
SOFT-WHITE
SATIN FINISH
Light transmis.
76.60%



TOB4
WARM WHITE
TRANSLUCENT
Light transmis.
71.38%



T1
NATUREL
Light transmis.
91.80%



T3
BLEUTE
Light transmis.
61.22%



T4
VERT
Light transmis.
73.46%



T8
CRYSTAL
Light transmis.
98.10%



TOB BLANC
Wide Width
Width: 134"
Light transmission
77.33%

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Product Description

3form Chroma is produced from optical grade engineered resin. Chroma is available in thick-gauge formats which lends itself well for use in many horizontal applications. Chroma is a highly functional material that brings impact when color is introduced. Chroma is produced with brilliant colors that can be layered (up to five colors) to create an enormous range of hues, opacities and amazing effects. The surface of Chroma features a durable renewable matte texture that can be easily refinished throughout its lifetime. Chroma incorporates 38% recycled content* (29% pre-consumer, 9% post-consumer) without compromising its amazing clarity. *2" Chroma does not contain recycled content

Chroma XT is exterior grade Chroma suitable for use as signage, lighting, awnings, tables or canopies. Use Chroma XT to bring amazing color and design to your exterior applications.

FEATURES AND BENEFITS

- Great for edge lighting – tremendous optical properties and high light transmission
- Rigid - stable and sturdy material for horizontal applications
- Qualifies for 3form Reclaim™ – keeping end-of-life material out of landfills
- Combine up to five colors to create any color imaginable
- Surface is able to be completely refinished to maintain product "newness"

AVAILABLE COLORS

3form Chroma comes in a variety of translucent warm and cool colors. Colors can be made opaque with the addition of the color - White Out.

(Visit www.3-form.com for the complete list of available color options.)

CHROMA REFLECT

3form Chroma Reflect™ pairs beautiful 3form colors with a reflective opaque mirror. The result is a breathtaking panel that glows and radiates color like you've never seen. Chroma Reflect panels are 1-sided and opaque. Chroma Reflect can only be paired with one Chroma color. The back finish of Chroma Reflect is left unfinished to allow for more versatility during fabrication. Chroma Reflect adds an extra 1/8" (3 mm) to the standard thickness of Chroma panels. Additionally, Chroma Reflect is not suitable for exterior use and requires special fabrication techniques.

TEXTURES/PATTERNS/FINISHES

All Chroma sheets come standard with a Renewable matte finish on the front face that allows the product to be continually rejuvenated if ever desired or necessary during the service life of the material. The back side of 3form Chroma in translucent colors is finished with a matte finish, but this side should not be renewed. Chroma Clear comes standard with renewable matte surfaces on front and back.

Chroma panels can be ordered with an optional Renewable Matte Back Finish, that allows refinishing of both sides of the panel. The Renewable Matte Back Finish increases the thickness by an extra 1/16" (1.5 mm).

Chroma panels that are opaque (unless specified differently) are finished with a gloss backside texture to allow for more versatility during fabrication. Chroma is also available with an optional Patent finish. Patent is a high gloss finish with the highest light transmittance, but does not allow for refinishing. (Chroma Reflect is not available with Patent finishes)

PANEL SIZES AND TOLERANCES

All dimensions and squareness (standard or custom) are subject to a +1/4" or - 3/16" (+6 mm or -5 mm) tolerance. Squareness (standard or custom) is subject to a 1/8" (3.1 mm) tolerance.

Chroma is available in 1/4 inch (6.3 mm), 1/2 inch (12.7 mm), 1 inch (25.4 mm) and 2 inch (50.8 mm) thicknesses.

PANEL SIZE TABLE

NOMINAL GAUGE	PANEL DIMENSIONS
1/4" (6.3 mm)	48" x 96" (122 cm x 243.8 cm), 48" x 120" (122 cm x 304.8 cm)
1/2" (12.7 mm)	48" x 96" (122 cm x 243.8 cm), 48" x 120" (122 cm x 304.8 cm)
1" (25.4 mm)	48" x 96" (122 cm x 243.8 cm), 48" x 120" (122 cm x 304.8 cm)
2" (50.8 mm)	48" x 96" (122 cm x 243.8 cm)

Given the unique manufacturing process for 3form Chroma, a given gauge is subject to a +/- 10% thickness tolerance. Thickness values are based on measurements 2-3" (50-75 mm) from the edge, along both long edges of each panel.

THICKNESS TOLERANCE TABLE

STANDARD CHROMA, HIRES AND XT PANELS (XT NOT AVAILABLE IN 1/4")

GAUGE*	MINIMUM ALLOWANCE	MAXIMUM ALLOWANCE
1/4" (6.3 mm)	0.200" (5.1 mm)	0.335" (8.5 mm)
1/2" (12.7 mm)	0.450" (11.4 mm)	0.585" (14.9 mm)
1" (25.4 mm)	0.900" (22.9 mm)	1.100" (27.9 mm)
2" (50.8 mm)	1.800" (45.7 mm)	2.200" (55.9 mm)

REFLECT AND PANELS WITH RENEWABLE MATTE BACK FINISH

GAUGE*	MINIMUM ALLOWANCE	MAXIMUM ALLOWANCE
5/8" (15.9 mm)	0.515" (13.1 mm)	0.710" (18.0 mm)
1-1/8" (28.6 mm)	0.965" (24.5 mm)	1.225" (31.1 mm)
2-1/8" (53.9 mm)	1.865" (47.4 mm)	2.325" (59.1 mm)

*Chroma Reflect adds 1/8" (3 mm) and renewable matte back finish materials add 1/16" (1.5 mm) to overall thickness.

FLATNESS TOLERANCE

Chroma panels shall not have distortion in the form of a wrinkle, twist or scallop along the perimeter of the sheet. Overall warp in the form of a curve (bow warp) extending across the sheet is permitted to a maximum of 1/4" (6.3 mm) for each 48" (1.2 m), or fraction thereof. Panel is to be measured when laying horizontally under its own weight on a flat continuous surface.

Specifications

FLAMMABILITY & SMOKE TEST RESULTS

BUILDING CODE APPROVALS

3form Chroma conforms to the 2009 International Building Code® for light-transmitting plastics. The provisions of these codes provide adequate regulation for most applications of light-transmitting plastics [unless otherwise noted, data is based on 0.236" (6 mm) thickness]:

TEST	3FORM CHROMA	RESULT
ASTM D 2843 Smoke Density	4.1%	PASS Less than 75
ASTM D 635 Flame Spread	Rate of burning: 1.2 in/min	PASS CC2
ASTM D 1929 Self-ignition Temp.	852°F	PASS Greater than 650°F
ASTM E 84-03 Flame Spread, 1" Thickness Smoke Developed	115 150	Class C (76-200) 450 (less than 450)

PANEL WEIGHT

THICKNESS (INCHES) WEIGHT FLUX (LB/FT²)

1/4" (6.3 mm)	1.5 lb/ft² (7.3 kg/m²)
1/2" (12.7 mm)	3.1 lb/ft² (15.1 kg/m²)
1" (25.4 mm)	6.2 lb/ft² (30.2 kg/m²)
2" (50.8 mm)	12.4 lb/ft² (60.5 kg/m²)

*Chroma XT panels weigh an additional 0.4 lb/ft² (1.9 kg/m²)

**Chroma Reflect panels weigh an additional 0.8 lb/ft² (3.8 kg/m²)

EXPANSION/CONTRACTION ALLOWANCES

Like all resin products, 3form Chroma will expand and contract nominally with fluctuations in temperature. The following formula provides allowances that should be made in framed or fitted applications:

- Longest length of panel (inches) x temperature change of the sheet (°F) x 0.00004 = Amount of Linear Expansion/Contraction (inches)

example:

- A 48" x 96" panel that experiences a 50°F temperature change will expand/contract: 96 inches x 50 degrees x 0.00004 = 0.192 inches

Installers should take extra precautions if installation is occurring before the HVAC systems are operational. Allowances should also be made in the following situations:

- Fastening points
- Channel depths in frames
- Holes for standoffs and other hardware
- Meeting points for multiple sheets of 3form Chroma

ETCHING

3form Chroma may be etched with two different finishing options to produce patterns, text, or anything imaginable. When etching, two different surface finishes may be specified: Polished and Renewable matte. Following are some limitations to the etching process:

Chroma XT products are not able to accept etching as the etching process creates part stress that could induce crazing.

Only 1/2"-2" Chroma may be etched.

- Limited to 1/8" deep
- Etch must be greater than 1/2" wide

UV EXPOSURE PERFORMANCE

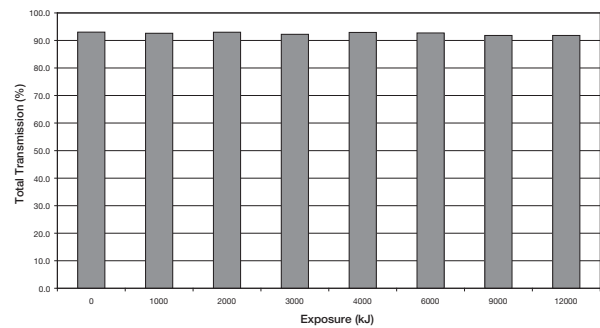
Chroma XT is an excellent choice for exterior applications. The chart demonstrates that the change in light transmission remains unchanged. (12,000 kJ of exposure represents approximately 10 years of outdoor exposure in Florida) Should your application be for exterior use, please notify your 3form Sales Representative.

*Chroma Reflect cannot be used in exterior applications.

USAGE LIMITATIONS

3form Chroma should never come in direct contact with metal fasteners. Non-metallic* gaskets, washers, and tubing are to be utilized in conjunction with mechanical connections such as point supports and frames. Holes for fasteners must be located a minimum of 2" from the edge of

3form Chroma XT Color Stability - Light Transmission
(Xenon Arc Accelerated Exposure Testing)



the hole to the edge of the panel.

Please contact the 3form Technical Help Line should you have any questions regarding the use of Chroma with mechanical fasteners.

*Gaskets, washers and tubing must be produced with a non-plasticized material. Suitable materials include: neoprene, teflon, nylon, silicone.

DEFLECTION

3form Chroma will exhibit different amounts of deflection given a variety of factors: fastening techniques, loads, gauges and panel dimensions to list a few. Your 3form Representative can assist you with general deflection guidelines for your application using the Chroma Deflection Charts. If your application has specific engineering requirements, please contact the 3form Technical Help Desk for additional direction at 801-649-2670.

HEAT FORMING/COLD BENDING

3form Chroma can be heated and formed to produce simple or even complex curves and shapes. The table below lists the minimum inner radius for a heat formed shape. Tighter radii may be possible, contact 3form Technical Service for details.

THICKNESS	MINIMUM HEATFORMING RADIUS
1/4" (6.3 mm)	4" (101.6 mm)
1/2" (12.7 mm)	4" (101.6 mm)
1" (25.4 mm)	8" (203.2 mm)
2" (50.8 mm)	12" (304.8 mm)

The optimal forming temperature ranges from 300°- 330°F. Large and complex forming geometries should be specified to be produced by the 3form Fabrication experts.

SPECIAL CONSIDERATIONS FOR THE HEAT-FORMING OF CHROMA HIGHRES.

1/2" thickness only (Maximum finished sizes of 46" x 94" and 46" x 118")
Renewable Matte finishes only
No Complex Curves

Though 3form Chroma is commonly used in flat or heat curved applications, the polymeric nature of the material allows a minimal

amount of cold bending for a given panel. Cold bending is not possible on 1" and 2" gauges. The table below shows the minimum suggested radius for 3form Chroma at a given gauge:

THICKNESS	MINIMUM BEND RADIUS
0.250" (6.3 mm)	150" (381 cm)
0.500" (12.7 mm)	225" (571 cm)

EDGE FINISHING

Edges of 3form Chroma panels are able to be machined or routed into a variety of different forms. In addition to a straight edge, edges may accept beveling, rounding, etc. Additional finishing, such as sanding or polishing, can also be provided to some edges.

FABRICATION LIMITATIONS

Chroma Reflect requires special consideration during fabrication. When cutting panels using table saws or panels saws where the blade is situated below the panel, the back side (reflect side) of the panel needs to be facing UP. The back side of the panel should be facing down if it is being cut by a circular saw or a panel saw where the blade is above the panel.

Chroma reflect panels can be cut with a CNC router or a plunge router. Chroma Reflect MUST be scored with a 1/16" or 1/8" blade or tool before routing. All CNC cutting must be done from the back side. Chroma Reflect panels CAN NOT be cut with a jig saw or reciprocating saw.

REFINISHING

One of the unique benefits of 3form Chroma is its ability to be refinished. If 3form Chroma needs to be refinished for any reason, the panels may be renewed by sanding. Make sure to sand the entire surface to obtain a uniform finish over the whole panel. Begin by dry sanding with a course grit paper (100 or 150 grit) to remove blemishes/scratches. Continue sanding with gradually finer grit papers until the surface is smooth and level and the blemish/scratches are removed. Complete the refinishing process by sanding with a 220 grit paper to attain a matte finish. Only the primary surface (non-colored side) is refinishable. After sanding, clean the surface with warm water and a mild detergent. Dry with a clean, cotton cloth and finish by treating the panel with Countertop Magic®. Even finer grit papers may be used to attain a satin or semi-polished appearance. With papers greater than 400 grit, wet sanding (with water) should be employed. Be sure to keep sanders in motion at all times when refinishing surfaces or edges. Only use light pressure with power sanders in order to maintain evenness and avoid overheating of the sheet surface.

SOUND TRANSMISSION CLASS (STC) VALUES FOR CHROMA

Measurement protocol: ASTM E 90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements

THICKNESS	STC VALUES
1/2" (12.7 mm)	32
1" (25.4 mm)	36

THERMAL INSULATION VALUES FOR CHROMA

Insulation values are a function of both the convective properties (U-Values and shading coefficients) and the conductive properties (thermal conductivity).

CHROMA RENEW/RENEW THICKNESS	WINTER U-VALUE (BTU/HR-FT ² -°F)	SUMMER U-VALUE (BTU/HR-FT ² -°F)
1/2" (12.7 mm)	0.82	0.81
1" (25.4 mm)	0.65	0.65

2" (50.8 mm)	NOT TESTED	NOT TESTED
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Select Mechanical and Physical Properties for 3form Chroma

PROPERTY	ASTM METHOD	TYPICAL VALUES	
		US CUSTOM	METRIC
GENERAL			
Density	D1505	1.19 g/cm ³	1.19 x 10 ⁻³ kg/cm ³
Water Absorption	D579 24hrs @ 73°F	0.2%	0.2%
MECHANICAL			
Tensile Strength	D638	10,000 psi	69 MPa
Elongation at Rupture	D638	4.5%	4.5%
Tensile Modulus	D638	400,000 psi	2800 MPa
Flexural Strength (rupture)	D790	17,000 psi	117 MPa
Flexural Modulus	D790	480,000 psi	3300 MPa
Compressive Strength (yield)	D695	17,000 psi	117 MPa
Compressive Deformation	D621 4000 psi, 122°F, 24 hours)	≤0.85%	
Shear Ultimate Strength	D732	10,000 psi	703 kg/cm ²
Shear Modulus	D5279	167,000 psi	1151 MPa
Impact Strength (charpy method)	D256 notched	2.1 lb*in/in	0.9 kg*cm/cm
	D256 un-notched	7 lb*in/in	3.17 kg*cm/cm
Izod Impact Strength	D256 notched	≤0.25 ft-lb/in	≤13.3 J/m
Rockwell Hardness	D785	M-93	M-93
Barcol Hardness	D2583	48	48
Residual Shrinkage (internal strain)	D702	2%	2%
Coefficient of Friction	D2047 dry	0.73	
	D2047 wet	0.79	
Poisson's Ratio	E132	0.35-0.40	
OPTICAL			
Refractive Index	D542	1.49	1.49
Light Transmission (total)	D1003	92%	92%
Haze	D1003	<1%	<1%
THERMAL			
Max Continuous Use Temperature		180°F	82°C
Max Instantaneous Use Temperature		212°F	100°C
Deflection Temperature	D648 @ 264 psi	195°F	90°C
Vicat Softening Point	D1525	239°F	115°C
Forming Temperature		300-330°F	149-157°C
Coefficient of Thermal Conductivity (k-factor)	cenco-fitch	1.3 btu/(hr*in*°F)	0.19 w/m*°K
Coefficient of Thermal Expansion	D696 @ 60°F (16°C)	4.0 x 10 ⁻⁵ (in/in*°F)	7.2 x 10 ⁻⁵ (mm/mm*°C)

Chemical Resistance of 3form Chroma to Select Compounds

7 DAY FULL IMMERSION TESTING @ 73°F (23°C)

Polymer materials are affected by chemicals in different ways. Changes in performance or appearance when exposed to chemicals can be attributed to fabrication methods, exposure conditions, concentration of chemical substances or exposure duration. Such factors can even influence the final effect on substances that 3form Chroma is considered "Resistant" to under test conditions. Further details are explained below:

FABRICATION

Stresses generated from sanding, grinding, drilling, polishing, machining, sawing and/or forming (hot or cold).

EXPOSURE

Exposure duration, stresses imparted during the application life-cycle due to loads, temperature changes, heat, environments, etc.

APPLICATION OF CHEMICALS

Application from contact, rubbing, wiping, spraying, soaking, etc. Also having an affect is the relative concentration of the chemical in question.

The following table provides indicative performance of the chemical resistance characteristics of clear 3form Chroma panels. The following codes are used to describe the chemical resistance characteristics:

R = RESISTANT

3form Chroma is able to withstand the identified compound for long exposure periods. (7 days, full immersion)

LR = LIMITED RESISTANCE

3form Chroma is only resistant when in contact with this compound for short periods at room temperature. It is advised that further determination of the effect of the substance be further tested in your particular application.

N = NOT RESISTANT

3form Chroma is not resistant to the compound. The material will swell, craze, haze, dissolve or experience some physical change when exposed to this substance.

REAGENT	RESULT	REAGENT	RESULT
acetic acid (5%)	R	hydrochloric acid	R
acetic acid (glacial)	N	hydrofluoric acid (40%)	N
acetic anhydride	LR	hydrogen peroxide (3%)	R
acetone	N	hydrogen peroxide (28%)	N
acrylic paints and lacquers	LR	iso octane	R
ammonia (aqueous solution)	R	isopropyl alcohol	LR
ammonium chloride (saturated)	R	kerosene	R
ammonium hydroxide (10%)	R	lacquer thinner	N
ammonium hydroxide (conc.)	R	lactic acid (80%)	LR
aniline	N	methane	R
battery Acid	R	methyl alcohol (50%)	LR
benzaldehyde	N	methyl alcohol (100%)	N
benzene	N	methyl ethyl ketone (MEK)	N
bituminous emulsion	N	methylene chloride	N
bleach (see sodium hypochlorite)	R	mineral oil	R
bromine	N	mortar	R
butanol	LR	motor fuel (benzene-free)	R
butyl acetate	N	motor fuel (with benzene)	N
calcium chloride (saturated)	R	muratic acid (20%)	R
calcium hypochlorite	R	nitric acid (10%)	R
carbon tetrachloride	N	nitric acid (40%)	LR
cement	R	nitric acid (conc.)	N
chlorine water	LR	oil paints (pure)	R
chloroform	N	olive oil	R
chromic acid (40%)	N	oxygen	R
citric acid (10%)	R	ozone	R
cottonseed oil (edible)	R	phenol solution (5%)	N
detergent solution	R	phosphoric acid (10%)	R
diesel oil	R	plaster of paris	R
diethyl ether	N	soap solution (ivory)	R
dimethyl formamide	N	sodium carbonate (2%)	R

REAGENT	RESULT	REAGENT	RESULT
diocetyl formamide	N	sodium carbonate (20%)	R
ethyl acetate	N	sodium chloride (10%)	R
ethyl alcohol (50%)	LR	sodium hydroxide (1%)	R
ethyl alcohol (95%)	N	sodium hydroxide (10%)	R
ethyl dichloride	N	sodium hydroxide (60%)	R
ethylene glycol	R	sodium hypochlorite (5%)	R
2-ethylhexyl sebacate	R	stearic acid	R
formaldehyde (40%)	R	sulfuric acid (3%)	R
formic acid (2%)	R	sulfuric acid (30%)	R
formic acid (40%)	LR	sulfuric acid (conc.)	N
gasoline (regular, leaded)	LR	thinners (general)	N
glycerine	R	toluene	N
glycerol	R	trichloroethylene	N
glycol	R	turpentine	LR
heptane	R	urine	R
hexane	R	water (distilled)	R
hot bitumen	LR	xylene	N

Cleaning Instructions

3form Chroma, like all thermoplastic materials should be cleaned periodically. A regular cleaning program will help to maintain the aesthetics and life of the material. 3form recommends the use of Novus® No. 1 and Brilliantize® plastic cleaners. Both products are specifically for use on plastics and help panels to resist finger-marking and static.

Rinse or wipe the sheet with lukewarm water. Remove dust and dirt from 3form Chroma with a damp, soft cloth or sponge and a solution of mild soap and/or liquid detergent in water. Rinse or wipe the 3form Chroma again thoroughly with lukewarm water. For more stubborn stains, dirty spots or grease, surface cleaners like Fantastik® or Formula 409® also work well. A scotch brite sponge can also help remove tough grease stains. After all cleaning steps, be sure to rinse thoroughly with lukewarm water.

Always use a soft, damp cloth to blot dry. Rubbing with a dry cloth can scratch the material and create a static charge. Never use scrapers or squeegees on 3form Chroma. Also avoid scouring compounds, gasoline, benzene, acetone, carbon tetrachloride, certain deicing fluids, lacquer thinner or other strong solvents.

DO NOT:

- Use squeegees or scrapers as they may scratch the sheet
- Use scouring compounds or solvents such as: acetone, gasoline, benzene, carbon tetrachloride, or lacquer thinner to clean the sheet
- Use abrasives or highline alkaline cleaners
- Use a dry cloth or a cloth of synthetic fiber such as rayon or polyester as they may scratch the sheet.
- Use Windex® or Glass Plus® cleaners

DO:

- Use warm water, mild detergent and a soft cloth or chamois
- Rinse surface thoroughly after cleaning with lukewarm water
- Blot dry with slightly damp, soft cloth or chamois

IMPORTANT

If a cleaning material is found to be incompatible in a short-term test, it will usually be found to be incompatible in the field. The converse, however, is not always true. Favorable performance is no guarantee that actual end-use conditions have been duplicated. Therefore, these results should be used as a guide only and it is recommended that the user test the products under actual end-use conditions.

For more information, please visit 3-form.com or call 877-649-2670.

Product Description

3form Chroma is produced from optical grade engineered resin. Chroma is available in thick-gauge formats which lends itself well for use in many horizontal applications. Chroma is a highly functional material that brings impact when color is introduced. Chroma is produced with brilliant colors that can be layered (up to five colors) to create an enormous range of hues, opacities and amazing effects. The surface of Chroma features a durable renewable matte texture that can be easily refinished throughout its lifetime. Chroma incorporates 38% recycled content* (29% pre-consumer, 9% post-consumer) without compromising its amazing clarity. *2" Chroma does not contain recycled content

Chroma XT is exterior grade Chroma suitable for use as signage, lighting, awnings, tables or canopies. Use Chroma XT to bring amazing color and design to your exterior applications.

FEATURES AND BENEFITS

- Great for edge lighting – tremendous optical properties and high light transmission
- Rigid - stable and sturdy material for horizontal applications
- Qualifies for 3form Reclaim™ – keeping end-of-life material out of landfills
- Combine up to five colors to create any color imaginable
- Surface is able to be completely refinished to maintain product "newness"

AVAILABLE COLORS

3form Chroma comes in a variety of translucent warm and cool colors. Colors can be made opaque with the addition of the color - White Out.

(Visit www.3-form.com for the complete list of available color options.)

CHROMA REFLECT

3form Chroma Reflect™ pairs beautiful 3form colors with a reflective opaque mirror. The result is a breathtaking panel that glows and radiates color like you've never seen. Chroma Reflect panels are 1-sided and opaque. Chroma Reflect can only be paired with one Chroma color. The back finish of Chroma Reflect is left unfinished to allow for more versatility during fabrication. Chroma Reflect adds an extra 1/8" (3 mm) to the standard thickness of Chroma panels. Additionally, Chroma Reflect is not suitable for exterior use and requires special fabrication techniques.

TEXTURES/PATTERNS/FINISHES

All Chroma sheets come standard with a Renewable matte finish on the front face that allows the product to be continually rejuvenated if ever desired or necessary during the service life of the material. The back side of 3form Chroma in translucent colors is finished with a matte finish, but this side should not be renewed. Chroma Clear comes standard with renewable matte surfaces on front and back.

Chroma panels can be ordered with an optional Renewable Matte Back Finish, that allows refinishing of both sides of the panel. The Renewable Matte Back Finish increases the thickness by an extra 1/16" (1.5 mm).

Chroma panels that are opaque (unless specified differently) are finished with a gloss backside texture to allow for more versatility during fabrication. Chroma is also available with an optional Patent finish. Patent is a high gloss finish with the highest light transmittance, but does not allow for refinishing. (Chroma Reflect is not available with Patent finishes)

PANEL SIZES AND TOLERANCES

All dimensions and squareness (standard or custom) are subject to a +1/4" or - 3/16" (+6 mm or -5 mm) tolerance. Squareness (standard or custom) is subject to a 1/8" (3.1 mm) tolerance.

Chroma is available in 1/4 inch (6.3 mm), 1/2 inch (12.7 mm), 1 inch (25.4 mm) and 2 inch (50.8 mm) thicknesses.

PANEL SIZE TABLE

NOMINAL GAUGE	PANEL DIMENSIONS
1/4" (6.3 mm)	48" x 96" (122 cm x 243.8 cm), 48" x 120" (122 cm x 304.8 cm)
1/2" (12.7 mm)	48" x 96" (122 cm x 243.8 cm), 48" x 120" (122 cm x 304.8 cm)
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2" (50.8 mm)	48" x 96" (122 cm x 243.8 cm)

Given the unique manufacturing process for 3form Chroma, a given gauge is subject to a +/- 10% thickness tolerance. Thickness values are based on measurements 2-3" (50-75 mm) from the edge, along both long edges of each panel.

THICKNESS TOLERANCE TABLE

STANDARD CHROMA, HIRES AND XT PANELS (XT NOT AVAILABLE IN 1/4")

GAUGE*	MINIMUM ALLOWANCE	MAXIMUM ALLOWANCE
1/4" (6.3 mm)	0.200" (5.1 mm)	0.335" (8.5 mm)
1/2" (12.7 mm)	0.450" (11.4 mm)	0.585" (14.9 mm)
1" (25.4 mm)	0.900" (22.9 mm)	1.100" (27.9 mm)
2" (50.8 mm)	1.800" (45.7 mm)	2.200" (55.9 mm)

REFLECT AND PANELS WITH RENEWABLE MATTE BACK FINISH

GAUGE*	MINIMUM ALLOWANCE	MAXIMUM ALLOWANCE
5/8" (15.9 mm)	0.515" (13.1 mm)	0.710" (18.0 mm)
1-1/8" (28.6 mm)	0.965" (24.5 mm)	1.225" (31.1 mm)
2-1/8" (53.9 mm)	1.865" (47.4 mm)	2.325" (59.1 mm)

*Chroma Reflect adds 1/8" (3 mm) and renewable matte back finish materials add 1/16" (1.5 mm) to overall thickness.

FLATNESS TOLERANCE

Chroma panels shall not have distortion in the form of a wrinkle, twist or scallop along the perimeter of the sheet. Overall warp in the form of a curve (bow warp) extending across the sheet is permitted to a maximum of 1/4" (6.3 mm) for each 48" (1.2 m), or fraction thereof. Panel is to be measured when laying horizontally under its own weight on a flat continuous surface.

Specifications

FLAMMABILITY & SMOKE TEST RESULTS

BUILDING CODE APPROVALS

3form Chroma conforms to the 2009 International Building Code® for light-transmitting plastics. The provisions of these codes provide adequate regulation for most applications of light-transmitting plastics [unless otherwise noted, data is based on 0.236" (6 mm) thickness]:

TEST	3FORM CHROMA	RESULT
ASTM D 2843 Smoke Density	4.1%	PASS Less than 75
ASTM D 635 Flame Spread	Rate of burning: 1.2 in/min	PASS CC2
ASTM D 1929 Self-ignition Temp.	852°F	PASS Greater than 650°F
ASTM E 84-03 Flame Spread, 1" Thickness Smoke Developed	115 150	Class C (76-200) 450 (less than 450)

PANEL WEIGHT

THICKNESS (INCHES) WEIGHT FLUX (LB/FT²)

1/4" (6.3 mm)	1.5 lb/ft ² (7.3 kg/m ²)
1/2" (12.7 mm)	3.1 lb/ft ² (15.1 kg/m ²)
1" (25.4 mm)	6.2 lb/ft ² (30.2 kg/m ²)
2" (50.8 mm)	12.4 lb/ft ² (60.5 kg/m ²)

*Chroma XT panels weigh an additional 0.4 lb/ft² (1.9 kg/m²)

**Chroma Reflect panels weigh an additional 0.8 lb/ft² (3.8 kg/m²)

EXPANSION/CONTRACTION ALLOWANCES

Like all resin products, 3form Chroma will expand and contract nominally with fluctuations in temperature. The following formula provides allowances that should be made in framed or fitted applications:

- Longest length of panel (inches) x temperature change of the sheet (°F) x 0.00004 = Amount of Linear Expansion/Contraction (inches)

example:

- A 48" x 96" panel that experiences a 50°F temperature change will expand/contract: 96 inches x 50 degrees x 0.00004 = 0.192 inches

Installers should take extra precautions if installation is occurring before the HVAC systems are operational. Allowances should also be made in the following situations:

- Fastening points
- Channel depths in frames
- Holes for standoffs and other hardware
- Meeting points for multiple sheets of 3form Chroma

ETCHING

3form Chroma may be etched with two different finishing options to produce patterns, text, or anything imaginable. When etching, two different surface finishes may be specified: Polished and Renewable matte. Following are some limitations to the etching process:

Chroma XT products are not able to accept etching as the etching process creates part stress that could induce crazing.

Only 1/2"-2" Chroma may be etched.

- Limited to 1/8" deep
- Etch must be greater than 1/2" wide

UV EXPOSURE PERFORMANCE

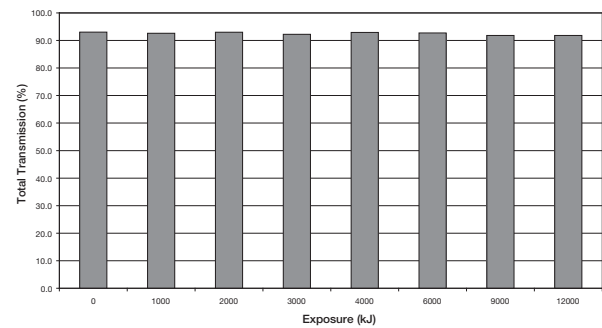
Chroma XT is an excellent choice for exterior applications. The chart demonstrates that the change in light transmission remains unchanged. (12,000 kJ of exposure represents approximately 10 years of outdoor exposure in Florida) Should your application be for exterior use, please notify your 3form Sales Representative.

*Chroma Reflect cannot be used in exterior applications.

USAGE LIMITATIONS

3form Chroma should never come in direct contact with metal fasteners. Non-metallic* gaskets, washers, and tubing are to be utilized in conjunction with mechanical connections such as point supports and frames. Holes for fasteners must be located a minimum of 2" from the edge of

3form Chroma XT Color Stability - Light Transmission
(Xenon Arc Accelerated Exposure Testing)



the hole to the edge of the panel.

Please contact the 3form Technical Help Line should you have any questions regarding the use of Chroma with mechanical fasteners.

*Gaskets, washers and tubing must be produced with a non-plasticized material. Suitable materials include: neoprene, teflon, nylon, silicone.

DEFLECTION

3form Chroma will exhibit different amounts of deflection given a variety of factors: fastening techniques, loads, gauges and panel dimensions to list a few. Your 3form Representative can assist you with general deflection guidelines for your application using the Chroma Deflection Charts. If your application has specific engineering requirements, please contact the 3form Technical Help Desk for additional direction at 801-649-2670.

HEAT FORMING/COLD BENDING

3form Chroma can be heated and formed to produce simple or even complex curves and shapes. The table below lists the minimum inner radius for a heat formed shape. Tighter radii may be possible, contact 3form Technical Service for details.

THICKNESS	MINIMUM HEATFORMING RADIUS
1/4" (6.3 mm)	4" (101.6 mm)
1/2" (12.7 mm)	4" (101.6 mm)
1" (25.4 mm)	8" (203.2 mm)
2" (50.8 mm)	12" (304.8 mm)

The optimal forming temperature ranges from 300°- 330°F. Large and complex forming geometries should be specified to be produced by the 3form Fabrication experts.

SPECIAL CONSIDERATIONS FOR THE HEAT-FORMING OF CHROMA HIGHRES.

1/2" thickness only (Maximum finished sizes of 46" x 94" and 46" x 118")
Renewable Matte finishes only
No Complex Curves

Though 3form Chroma is commonly used in flat or heat curved applications, the polymeric nature of the material allows a minimal

amount of cold bending for a given panel. Cold bending is not possible on 1" and 2" gauges. The table below shows the minimum suggested radius for 3form Chroma at a given gauge:

THICKNESS	MINIMUM BEND RADIUS
0.250" (6.3 mm)	150" (381 cm)
0.500" (12.7 mm)	225" (571 cm)

EDGE FINISHING

Edges of 3form Chroma panels are able to be machined or routed into a variety of different forms. In addition to a straight edge, edges may accept beveling, rounding, etc. Additional finishing, such as sanding or polishing, can also be provided to some edges.

FABRICATION LIMITATIONS

Chroma Reflect requires special consideration during fabrication. When cutting panels using table saws or panels saws where the blade is situated below the panel, the back side (reflect side) of the panel needs to be facing UP. The back side of the panel should be facing down if it is being cut by a circular saw or a panel saw where the blade is above the panel.

Chroma reflect panels can be cut with a CNC router or a plunge router. Chroma Reflect MUST be scored with a 1/16" or 1/8" blade or tool before routing. All CNC cutting must be done from the back side. Chroma Reflect panels CAN NOT be cut with a jig saw or reciprocating saw.

REFINISHING

One of the unique benefits of 3form Chroma is its ability to be refinished. If 3form Chroma needs to be refinished for any reason, the panels may be renewed by sanding. Make sure to sand the entire surface to obtain a uniform finish over the whole panel. Begin by dry sanding with a course grit paper (100 or 150 grit) to remove blemishes/scratches. Continue sanding with gradually finer grit papers until the surface is smooth and level and the blemish/scratches are removed. Complete the refinishing process by sanding with a 220 grit paper to attain a matte finish. Only the primary surface (non-colored side) is refinishable. After sanding, clean the surface with warm water and a mild detergent. Dry with a clean, cotton cloth and finish by treating the panel with Countertop Magic®. Even finer grit papers may be used to attain a satin or semi-polished appearance. With papers greater than 400 grit, wet sanding (with water) should be employed. Be sure to keep sanders in motion at all times when refinishing surfaces or edges. Only use light pressure with power sanders in order to maintain evenness and avoid overheating of the sheet surface.

SOUND TRANSMISSION CLASS (STC) VALUES FOR CHROMA

Measurement protocol: ASTM E 90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements

THICKNESS	STC VALUES
1/2" (12.7 mm)	32
1" (25.4 mm)	36

THERMAL INSULATION VALUES FOR CHROMA

Insulation values are a function of both the convective properties (U-Values and shading coefficients) and the conductive properties (thermal conductivity).

CHROMA RENEW/RENEW THICKNESS	WINTER U-VALUE (BTU/HR-FT ² -°F)	SUMMER U-VALUE (BTU/HR-FT ² -°F)
1/2" (12.7 mm)	0.82	0.81
1" (25.4 mm)	0.65	0.65

2" (50.8 mm)	NOT TESTED	NOT TESTED
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Select Mechanical and Physical Properties for 3form Chroma

PROPERTY	ASTM METHOD	TYPICAL VALUES	
		US CUSTOM	METRIC
GENERAL			
Density	D1505	1.19 g/cm ³	1.19 x 10 ⁻³ kg/cm ³
Water Absorption	D579 24hrs @ 73°F	0.2%	0.2%
MECHANICAL			
Tensile Strength	D638	10,000 psi	69 MPa
Elongation at Rupture	D638	4.5%	4.5%
Tensile Modulus	D638	400,000 psi	2800 MPa
Flexural Strength (rupture)	D790	17,000 psi	117 MPa
Flexural Modulus	D790	480,000 psi	3300 MPa
Compressive Strength (yield)	D695	17,000 psi	117 MPa
Compressive Deformation	D621 4000 psi, 122°F, 24 hours)	≤0.85%	
Shear Ultimate Strength	D732	10,000 psi	703 kg/cm ²
Shear Modulus	D5279	167,000 psi	1151 MPa
Impact Strength (charpy method)	D256 notched	2.1 lb*in/in	0.9 kg*cm/cm
	D256 un-notched	7 lb*in/in	3.17 kg*cm/cm
Izod Impact Strength	D256 notched	≤0.25 ft-lb/in	≤13.3 J/m
Rockwell Hardness	D785	M-93	M-93
Barcol Hardness	D2583	48	48
Residual Shrinkage (internal strain)	D702	2%	2%
Coefficient of Friction	D2047 dry	0.73	
	D2047 wet	0.79	
Poisson's Ratio	E132	0.35-0.40	
OPTICAL			
Refractive Index	D542	1.49	1.49
Light Transmission (total)	D1003	92%	92%
Haze	D1003	<1%	<1%
THERMAL			
Max Continuous Use Temperature		180°F	82°C
Max Instantaneous Use Temperature		212°F	100°C
Deflection Temperature	D648 @ 264 psi	195°F	90°C
Vicat Softening Point	D1525	239°F	115°C
Forming Temperature		300-330°F	149-157°C
Coefficient of Thermal Conductivity (k-factor)	cenco-fitch	1.3 btu/(hr*in*°F)	0.19 w/m*K
Coefficient of Thermal Expansion	D696 @ 60°F (16°C)	4.0 x 10 ⁻⁵ (in/in/°F)	7.2 x 10 ⁻⁵ (mm/mm/°C)

Chemical Resistance of 3form Chroma to Select Compounds

7 DAY FULL IMMERSION TESTING @ 73°F (23°C)

Polymer materials are affected by chemicals in different ways. Changes in performance or appearance when exposed to chemicals can be attributed to fabrication methods, exposure conditions, concentration of chemical substances or exposure duration. Such factors can even influence the final effect on substances that 3form Chroma is considered "Resistant" to under test conditions. Further details are explained below:

FABRICATION

Stresses generated from sanding, grinding, drilling, polishing, machining, sawing and/or forming (hot or cold).

EXPOSURE

Exposure duration, stresses imparted during the application life-cycle due to loads, temperature changes, heat, environments, etc.

APPLICATION OF CHEMICALS

Application from contact, rubbing, wiping, spraying, soaking, etc. Also having an affect is the relative concentration of the chemical in question.

The following table provides indicative performance of the chemical resistance characteristics of clear 3form Chroma panels. The following codes are used to describe the chemical resistance characteristics:

R = RESISTANT

3form Chroma is able to withstand the identified compound for long exposure periods. (7 days, full immersion)

LR = LIMITED RESISTANCE

3form Chroma is only resistant when in contact with this compound for short periods at room temperature. It is advised that further determination of the effect of the substance be further tested in your particular application.

N = NOT RESISTANT

3form Chroma is not resistant to the compound. The material will swell, craze, haze, dissolve or experience some physical change when exposed to this substance.

REAGENT	RESULT	REAGENT	RESULT
acetic acid (5%)	R	hydrochloric acid	R
acetic acid (glacial)	N	hydrofluoric acid (40%)	N
acetic anhydride	LR	hydrogen peroxide (3%)	R
acetone	N	hydrogen peroxide (28%)	N
acrylic paints and lacquers	LR	iso octane	R
ammonia (aqueous solution)	R	isopropyl alcohol	LR
ammonium chloride (saturated)	R	kerosene	R
ammonium hydroxide (10%)	R	lacquer thinner	N
ammonium hydroxide (conc.)	R	lactic acid (80%)	LR
aniline	N	methane	R
battery Acid	R	methyl alcohol (50%)	LR
benzaldehyde	N	methyl alcohol (100%)	N
benzene	N	methyl ethyl ketone (MEK)	N
bituminous emulsion	N	methylene chloride	N
bleach (see sodium hypochlorite)	R	mineral oil	R
bromine	N	mortar	R
butanol	LR	motor fuel (benzene-free)	R
butyl acetate	N	motor fuel (with benzene)	N
calcium chloride (saturated)	R	muratic acid (20%)	R
calcium hypochlorite	R	nitric acid (10%)	R
carbon tetrachloride	N	nitric acid (40%)	LR
cement	R	nitric acid (conc.)	N
chlorine water	LR	oil paints (pure)	R
chloroform	N	olive oil	R
chromic acid (40%)	N	oxygen	R
citric acid (10%)	R	ozone	R
cottonseed oil (edible)	R	phenol solution (5%)	N
detergent solution	R	phosphoric acid (10%)	R
diesel oil	R	plaster of paris	R
diethyl ether	N	soap solution (ivory)	R
dimethyl formamide	N	sodium carbonate (2%)	R

REAGENT	RESULT	REAGENT	RESULT
diocetyl formamide	N	sodium carbonate (20%)	R
ethyl acetate	N	sodium chloride (10%)	R
ethyl alcohol (50%)	LR	sodium hydroxide (1%)	R
ethyl alcohol (95%)	N	sodium hydroxide (10%)	R
ethyl dichloride	N	sodium hydroxide (60%)	R
ethylene glycol	R	sodium hypochlorite (5%)	R
2-ethylhexyl sebacate	R	stearic acid	R
formaldehyde (40%)	R	sulfuric acid (3%)	R
formic acid (2%)	R	sulfuric acid (30%)	R
formic acid (40%)	LR	sulfuric acid (conc.)	N
gasoline (regular, leaded)	LR	thinners (general)	N
glycerine	R	toluene	N
glycerol	R	trichloroethylene	N
glycol	R	turpentine	LR
heptane	R	urine	R
hexane	R	water (distilled)	R
hot bitumen	LR	xylene	N

Cleaning Instructions

3form Chroma, like all thermoplastic materials should be cleaned periodically. A regular cleaning program will help to maintain the aesthetics and life of the material. 3form recommends the use of Novus® No. 1 and Brilliantize® plastic cleaners. Both products are specifically for use on plastics and help panels to resist finger-marking and static.

Rinse or wipe the sheet with lukewarm water. Remove dust and dirt from 3form Chroma with a damp, soft cloth or sponge and a solution of mild soap and/or liquid detergent in water. Rinse or wipe the 3form Chroma again thoroughly with lukewarm water. For more stubborn stains, dirty spots or grease, surface cleaners like Fantastik® or Formula 409® also work well. A scotch brite sponge can also help remove tough grease stains. After all cleaning steps, be sure to rinse thoroughly with lukewarm water.

Always use a soft, damp cloth to blot dry. Rubbing with a dry cloth can scratch the material and create a static charge. Never use scrapers or squeegees on 3form Chroma. Also avoid scouring compounds, gasoline, benzene, acetone, carbon tetrachloride, certain deicing fluids, lacquer thinner or other strong solvents.

DO NOT:

- Use squeegees or scrapers as they may scratch the sheet
- Use scouring compounds or solvents such as: acetone, gasoline, benzene, carbon tetrachloride, or lacquer thinner to clean the sheet
- Use abrasives or highline alkaline cleaners
- Use a dry cloth or a cloth of synthetic fiber such as rayon or polyester as they may scratch the sheet.
- Use Windex® or Glass Plus® cleaners

DO:

- Use warm water, mild detergent and a soft cloth or chamois
- Rinse surface thoroughly after cleaning with lukewarm water
- Blot dry with slightly damp, soft cloth or chamois

IMPORTANT

If a cleaning material is found to be incompatible in a short-term test, it will usually be found to be incompatible in the field. The converse, however, is not always true. Favorable performance is no guarantee that actual end-use conditions have been duplicated. Therefore, these results should be used as a guide only and it is recommended that the user test the products under actual end-use conditions.

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Chroma XT is exterior grade Chroma suitable for use as signage, lighting, awnings, tables or canopies. Use Chroma XT to bring amazing color and design to your exterior applications.

FEATURES AND BENEFITS

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- Combine up to five colors to create any color imaginable
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All Chroma sheets come standard with a Renewable matte finish on the front face that allows the product to be continually rejuvenated if ever desired or necessary during the service life of the material. The back side of 3form Chroma in translucent colors is finished with a matte finish, but this side should not be renewed. Chroma Clear comes standard with renewable matte surfaces on front and back.

Chroma panels can be ordered with an optional Renewable Matte Back Finish, that allows refinishing of both sides of the panel. The Renewable Matte Back Finish increases the thickness by an extra 1/16" (1.5 mm).

Chroma panels that are opaque (unless specified differently) are finished with a gloss backside texture to allow for more versatility during fabrication. Chroma is also available with an optional Patent finish. Patent is a high gloss finish with the highest light transmittance, but does not allow for refinishing. (Chroma Reflect is not available with Patent finishes)

PANEL SIZES AND TOLERANCES

All dimensions and squareness (standard or custom) are subject to a +1/4" or - 3/16" (+6 mm or -5 mm) tolerance. Squareness (standard or custom) is subject to a 1/8" (3.1 mm) tolerance.

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1/4" (6.3 mm)	48" x 96" (122 cm x 243.8 cm), 48" x 120" (122 cm x 304.8 cm)
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1" (25.4 mm)	48" x 96" (122 cm x 243.8 cm), 48" x 120" (122 cm x 304.8 cm)
2" (50.8 mm)	48" x 96" (122 cm x 243.8 cm)

Given the unique manufacturing process for 3form Chroma, a given gauge is subject to a +/- 10% thickness tolerance. Thickness values are based on measurements 2-3" (50-75 mm) from the edge, along both long edges of each panel.

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STANDARD CHROMA, HIRES AND XT PANELS (XT NOT AVAILABLE IN 1/4")

GAUGE*	MINIMUM ALLOWANCE	MAXIMUM ALLOWANCE
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1/2" (12.7 mm)	0.450" (11.4 mm)	0.585" (14.9 mm)
1" (25.4 mm)	0.900" (22.9 mm)	1.100" (27.9 mm)
2" (50.8 mm)	1.800" (45.7 mm)	2.200" (55.9 mm)

REFLECT AND PANELS WITH RENEWABLE MATTE BACK FINISH

GAUGE*	MINIMUM ALLOWANCE	MAXIMUM ALLOWANCE
5/8" (15.9 mm)	0.515" (13.1 mm)	0.710" (18.0 mm)
1-1/8" (28.6 mm)	0.965" (24.5 mm)	1.225" (31.1 mm)
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Chroma panels shall not have distortion in the form of a wrinkle, twist or scallop along the perimeter of the sheet. Overall warp in the form of a curve (bow warp) extending across the sheet is permitted to a maximum of 1/4" (6.3 mm) for each 48" (1.2 m), or fraction thereof. Panel is to be measured when laying horizontally under its own weight on a flat continuous surface.

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BUILDING CODE APPROVALS

3form Chroma conforms to the 2009 International Building Code® for light-transmitting plastics. The provisions of these codes provide adequate regulation for most applications of light-transmitting plastics [unless otherwise noted, data is based on 0.236" (6 mm) thickness]:

TEST	3FORM CHROMA	RESULT
ASTM D 2843 Smoke Density	4.1%	PASS Less than 75
ASTM D 635 Flame Spread	Rate of burning: 1.2 in/min	PASS CC2
ASTM D 1929 Self-ignition Temp.	852°F	PASS Greater than 650°F
ASTM E 84-03 Flame Spread, 1" Thickness Smoke Developed	115 150	Class C (76-200) 450 (less than 450)

PANEL WEIGHT

THICKNESS (INCHES) WEIGHT FLUX (LB/FT²)

1/4" (6.3 mm)	1.5 lb/ft² (7.3 kg/m²)
1/2" (12.7 mm)	3.1 lb/ft² (15.1 kg/m²)
1" (25.4 mm)	6.2 lb/ft² (30.2 kg/m²)
2" (50.8 mm)	12.4 lb/ft² (60.5 kg/m²)

*Chroma XT panels weigh an additional 0.4 lb/ft² (1.9 kg/m²)

**Chroma Reflect panels weigh an additional 0.8 lb/ft² (3.8 kg/m²)

EXPANSION/CONTRACTION ALLOWANCES

Like all resin products, 3form Chroma will expand and contract nominally with fluctuations in temperature. The following formula provides allowances that should be made in framed or fitted applications:

- Longest length of panel (inches) x temperature change of the sheet (°F) x 0.00004 = Amount of Linear Expansion/Contraction (inches)

example:

- A 48" x 96" panel that experiences a 50°F temperature change will expand/contract: 96 inches x 50 degrees x 0.00004 = 0.192 inches

Installers should take extra precautions if installation is occurring before the HVAC systems are operational. Allowances should also be made in the following situations:

- Fastening points
- Channel depths in frames
- Holes for standoffs and other hardware
- Meeting points for multiple sheets of 3form Chroma

ETCHING

3form Chroma may be etched with two different finishing options to produce patterns, text, or anything imaginable. When etching, two different surface finishes may be specified: Polished and Renewable matte. Following are some limitations to the etching process:

Chroma XT products are not able to accept etching as the etching process creates part stress that could induce crazing.

Only 1/2"-2" Chroma may be etched.

- Limited to 1/8" deep
- Etch must be greater than 1/2" wide

UV EXPOSURE PERFORMANCE

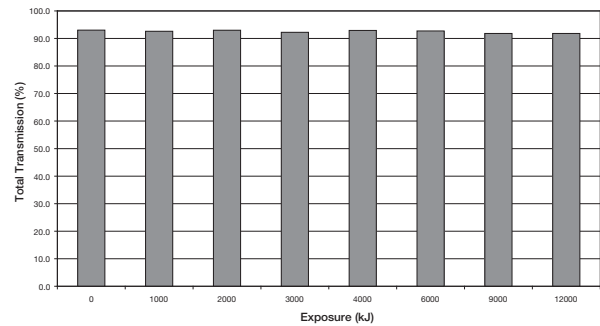
Chroma XT is an excellent choice for exterior applications. The chart demonstrates that the change in light transmission remains unchanged. (12,000 kJ of exposure represents approximately 10 years of outdoor exposure in Florida) Should your application be for exterior use, please notify your 3form Sales Representative.

*Chroma Reflect cannot be used in exterior applications.

USAGE LIMITATIONS

3form Chroma should never come in direct contact with metal fasteners. Non-metallic* gaskets, washers, and tubing are to be utilized in conjunction with mechanical connections such as point supports and frames. Holes for fasteners must be located a minimum of 2" from the edge of

3form Chroma XT Color Stability - Light Transmission
(Xenon Arc Accelerated Exposure Testing)



the hole to the edge of the panel.

Please contact the 3form Technical Help Line should you have any questions regarding the use of Chroma with mechanical fasteners.

*Gaskets, washers and tubing must be produced with a non-plasticized material. Suitable materials include: neoprene, teflon, nylon, silicone.

DEFLECTION

3form Chroma will exhibit different amounts of deflection given a variety of factors: fastening techniques, loads, gauges and panel dimensions to list a few. Your 3form Representative can assist you with general deflection guidelines for your application using the Chroma Deflection Charts. If your application has specific engineering requirements, please contact the 3form Technical Help Desk for additional direction at 801-649-2670.

HEAT FORMING/COLD BENDING

3form Chroma can be heated and formed to produce simple or even complex curves and shapes. The table below lists the minimum inner radius for a heat formed shape. Tighter radii may be possible, contact 3form Technical Service for details.

THICKNESS	MINIMUM HEATFORMING RADIUS
1/4" (6.3 mm)	4" (101.6 mm)
1/2" (12.7 mm)	4" (101.6 mm)
1" (25.4 mm)	8" (203.2 mm)
2" (50.8 mm)	12" (304.8 mm)

The optimal forming temperature ranges from 300°- 330°F. Large and complex forming geometries should be specified to be produced by the 3form Fabrication experts.

SPECIAL CONSIDERATIONS FOR THE HEAT-FORMING OF CHROMA HIGHRES.

1/2" thickness only (Maximum finished sizes of 46" x 94" and 46" x 118")
Renewable Matte finishes only
No Complex Curves

Though 3form Chroma is commonly used in flat or heat curved applications, the polymeric nature of the material allows a minimal

amount of cold bending for a given panel. Cold bending is not possible on 1" and 2" gauges. The table below shows the minimum suggested radius for 3form Chroma at a given gauge:

THICKNESS	MINIMUM BEND RADIUS
0.250" (6.3 mm)	150" (381 cm)
0.500" (12.7 mm)	225" (571 cm)

EDGE FINISHING

Edges of 3form Chroma panels are able to be machined or routed into a variety of different forms. In addition to a straight edge, edges may accept beveling, rounding, etc. Additional finishing, such as sanding or polishing, can also be provided to some edges.

FABRICATION LIMITATIONS

Chroma Reflect requires special consideration during fabrication. When cutting panels using table saws or panels saws where the blade is situated below the panel, the back side (reflect side) of the panel needs to be facing UP. The back side of the panel should be facing down if it is being cut by a circular saw or a panel saw where the blade is above the panel.

Chroma reflect panels can be cut with a CNC router or a plunge router. Chroma Reflect MUST be scored with a 1/16" or 1/8" blade or tool before routing. All CNC cutting must be done from the back side. Chroma Reflect panels CAN NOT be cut with a jig saw or reciprocating saw.

REFINISHING

One of the unique benefits of 3form Chroma is its ability to be refinished. If 3form Chroma needs to be refinished for any reason, the panels may be renewed by sanding. Make sure to sand the entire surface to obtain a uniform finish over the whole panel. Begin by dry sanding with a course grit paper (100 or 150 grit) to remove blemishes/scratches. Continue sanding with gradually finer grit papers until the surface is smooth and level and the blemish/scratches are removed. Complete the refinishing process by sanding with a 220 grit paper to attain a matte finish. Only the primary surface (non-colored side) is refinishable. After sanding, clean the surface with warm water and a mild detergent. Dry with a clean, cotton cloth and finish by treating the panel with Countertop Magic®. Even finer grit papers may be used to attain a satin or semi-polished appearance. With papers greater than 400 grit, wet sanding (with water) should be employed. Be sure to keep sanders in motion at all times when refinishing surfaces or edges. Only use light pressure with power sanders in order to maintain evenness and avoid overheating of the sheet surface.

SOUND TRANSMISSION CLASS (STC) VALUES FOR CHROMA

Measurement protocol: ASTM E 90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements

THICKNESS	STC VALUES
1/2" (12.7 mm)	32
1" (25.4 mm)	36

THERMAL INSULATION VALUES FOR CHROMA

Insulation values are a function of both the convective properties (U-Values and shading coefficients) and the conductive properties (thermal conductivity).

CHROMA RENEW/RENEW THICKNESS	WINTER U-VALUE (BTU/HR-FT ² -°F)	SUMMER U-VALUE (BTU/HR-FT ² -°F)
1/2" (12.7 mm)	0.82	0.81
1" (25.4 mm)	0.65	0.65

2" (50.8 mm)	NOT TESTED	NOT TESTED
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Select Mechanical and Physical Properties for 3form Chroma

PROPERTY	ASTM METHOD	TYPICAL VALUES	
		US CUSTOM	METRIC
GENERAL			
Density	D1505	1.19 g/cm ³	1.19 x 10 ⁻³ kg/cm ³
Water Absorption	D579 24hrs @ 73°F	0.2%	0.2%
MECHANICAL			
Tensile Strength	D638	10,000 psi	69 MPa
Elongation at Rupture	D638	4.5%	4.5%
Tensile Modulus	D638	400,000 psi	2800 MPa
Flexural Strength (rupture)	D790	17,000 psi	117 MPa
Flexural Modulus	D790	480,000 psi	3300 MPa
Compressive Strength (yield)	D695	17,000 psi	117 MPa
Compressive Deformation	D621 4000 psi, 122°F, 24 hours)	≤0.85%	
Shear Ultimate Strength	D732	10,000 psi	703 kg/cm ²
Shear Modulus	D5279	167,000 psi	1151 MPa
Impact Strength (charpy method)	D256 notched	2.1 lb*in/in	0.9 kg*cm/cm
	D256 un-notched	7 lb*in/in	3.17 kg*cm/cm
Izod Impact Strength	D256 notched	≤0.25 ft-lb/in	≤13.3 J/m
Rockwell Hardness	D785	M-93	M-93
Barcol Hardness	D2583	48	48
Residual Shrinkage (internal strain)	D702	2%	2%
Coefficient of Friction	D2047 dry	0.73	
	D2047 wet	0.79	
Poisson's Ratio	E132	0.35-0.40	
OPTICAL			
Refractive Index	D542	1.49	1.49
Light Transmission (total)	D1003	92%	92%
Haze	D1003	<1%	<1%
THERMAL			
Max Continuous Use Temperature		180°F	82°C
Max Instantaneous Use Temperature		212°F	100°C
Deflection Temperature	D648 @ 264 psi	195°F	90°C
Vicat Softening Point	D1525	239°F	115°C
Forming Temperature		300-330°F	149-157°C
Coefficient of Thermal Conductivity (k-factor)	cenco-fitch	1.3 btu/(hr*in*°F)	0.19 w/m*K
Coefficient of Thermal Expansion	D696 @ 60°F (16°C)	4.0 x 10 ⁻⁵ (in/in*°F)	7.2 x 10 ⁻⁵ (mm/mm*°C)

Chemical Resistance of 3form Chroma to Select Compounds

7 DAY FULL IMMERSION TESTING @ 73°F (23°C)

Polymer materials are affected by chemicals in different ways. Changes in performance or appearance when exposed to chemicals can be attributed to fabrication methods, exposure conditions, concentration of chemical substances or exposure duration. Such factors can even influence the final effect on substances that 3form Chroma is considered "Resistant" to under test conditions. Further details are explained below:

FABRICATION

Stresses generated from sanding, grinding, drilling, polishing, machining, sawing and/or forming (hot or cold).

EXPOSURE

Exposure duration, stresses imparted during the application life-cycle due to loads, temperature changes, heat, environments, etc.

APPLICATION OF CHEMICALS

Application from contact, rubbing, wiping, spraying, soaking, etc. Also having an affect is the relative concentration of the chemical in question.

The following table provides indicative performance of the chemical resistance characteristics of clear 3form Chroma panels. The following codes are used to describe the chemical resistance characteristics:

R = RESISTANT

3form Chroma is able to withstand the identified compound for long exposure periods. (7 days, full immersion)

LR = LIMITED RESISTANCE

3form Chroma is only resistant when in contact with this compound for short periods at room temperature. It is advised that further determination of the effect of the substance be further tested in your particular application.

N = NOT RESISTANT

3form Chroma is not resistant to the compound. The material will swell, craze, haze, dissolve or experience some physical change when exposed to this substance.

REAGENT	RESULT	REAGENT	RESULT
acetic acid (5%)	R	hydrochloric acid	R
acetic acid (glacial)	N	hydrofluoric acid (40%)	N
acetic anhydride	LR	hydrogen peroxide (3%)	R
acetone	N	hydrogen peroxide (28%)	N
acrylic paints and lacquers	LR	iso octane	R
ammonia (aqueous solution)	R	isopropyl alcohol	LR
ammonium chloride (saturated)	R	kerosene	R
ammonium hydroxide (10%)	R	lacquer thinner	N
ammonium hydroxide (conc.)	R	lactic acid (80%)	LR
aniline	N	methane	R
battery Acid	R	methyl alcohol (50%)	LR
benzaldehyde	N	methyl alcohol (100%)	N
benzene	N	methyl ethyl ketone (MEK)	N
bituminous emulsion	N	methylene chloride	N
bleach (see sodium hypochlorite)	R	mineral oil	R
bromine	N	mortar	R
butanol	LR	motor fuel (benzene-free)	R
butyl acetate	N	motor fuel (with benzene)	N
calcium chloride (saturated)	R	muratic acid (20%)	R
calcium hypochlorite	R	nitric acid (10%)	R
carbon tetrachloride	N	nitric acid (40%)	LR
cement	R	nitric acid (conc.)	N
chlorine water	LR	oil paints (pure)	R
chloroform	N	olive oil	R
chromic acid (40%)	N	oxygen	R
citric acid (10%)	R	ozone	R
cottonseed oil (edible)	R	phenol solution (5%)	N
detergent solution	R	phosphoric acid (10%)	R
diesel oil	R	plaster of paris	R
diethyl ether	N	soap solution (ivory)	R
dimethyl formamide	N	sodium carbonate (2%)	R

REAGENT	RESULT	REAGENT	RESULT
diocetyl formamide	N	sodium carbonate (20%)	R
ethyl acetate	N	sodium chloride (10%)	R
ethyl alcohol (50%)	LR	sodium hydroxide (1%)	R
ethyl alcohol (95%)	N	sodium hydroxide (10%)	R
ethyl dichloride	N	sodium hydroxide (60%)	R
ethylene glycol	R	sodium hypochlorite (5%)	R
2-ethylhexyl sebacate	R	stearic acid	R
formaldehyde (40%)	R	sulfuric acid (3%)	R
formic acid (2%)	R	sulfuric acid (30%)	R
formic acid (40%)	LR	sulfuric acid (conc.)	N
gasoline (regular, leaded)	LR	thinners (general)	N
glycerine	R	toluene	N
glycerol	R	trichloroethylene	N
glycol	R	turpentine	LR
heptane	R	urine	R
hexane	R	water (distilled)	R
hot bitumen	LR	xylene	N

Cleaning Instructions

3form Chroma, like all thermoplastic materials should be cleaned periodically. A regular cleaning program will help to maintain the aesthetics and life of the material. 3form recommends the use of Novus® No. 1 and Brilliantize® plastic cleaners. Both products are specifically for use on plastics and help panels to resist finger-marking and static.

Rinse or wipe the sheet with lukewarm water. Remove dust and dirt from 3form Chroma with a damp, soft cloth or sponge and a solution of mild soap and/or liquid detergent in water. Rinse or wipe the 3form Chroma again thoroughly with lukewarm water. For more stubborn stains, dirty spots or grease, surface cleaners like Fantastik® or Formula 409® also work well. A scotch brite sponge can also help remove tough grease stains. After all cleaning steps, be sure to rinse thoroughly with lukewarm water.

Always use a soft, damp cloth to blot dry. Rubbing with a dry cloth can scratch the material and create a static charge. Never use scrapers or squeegees on 3form Chroma. Also avoid scouring compounds, gasoline, benzene, acetone, carbon tetrachloride, certain deicing fluids, lacquer thinner or other strong solvents.

DO NOT:

- Use squeegees or scrapers as they may scratch the sheet
- Use scouring compounds or solvents such as: acetone, gasoline, benzene, carbon tetrachloride, or lacquer thinner to clean the sheet
- Use abrasives or highline alkaline cleaners
- Use a dry cloth or a cloth of synthetic fiber such as rayon or polyester as they may scratch the sheet.
- Use Windex® or Glass Plus® cleaners

DO:

- Use warm water, mild detergent and a soft cloth or chamois
- Rinse surface thoroughly after cleaning with lukewarm water
- Blot dry with slightly damp, soft cloth or chamois

IMPORTANT

If a cleaning material is found to be incompatible in a short-term test, it will usually be found to be incompatible in the field. The converse, however, is not always true. Favorable performance is no guarantee that actual end-use conditions have been duplicated. Therefore, these results should be used as a guide only and it is recommended that the user test the products under actual end-use conditions.

For more information, please visit 3-form.com or call 877-649-2670.

ENVIRONMENTALLY FRIENDLY, ENERGY EFFICIENT

- Comparable light output to 26W, 32W, 42W and 2x26W CFL while consuming 18, 21, 31 and 46 watts.
- No harmful ultraviolet or infrared wavelengths
- No lead or mercury

PRODUCT SPECIFICATIONS

Optics

Cone: Self-flanged, low iridescent satin or specular Alzak® cone standard • Cone available in clear, gold, black, pewter, wheat, and bronze Alzak® finishes; see trim options • Computer-optimized reflector maximizes fixture efficiency • Deep regression of source produces a very low glare system with 40° cut-off to lamp and lamp image • Lensed mixing chamber conceals the LEDs to produce uniform aperture luminance

Electrical

LED Light Engine: Innovative light engine utilizes remote phosphor lens and mixing chamber to ensure perfectly mixed light, resulting in uniform colors and superior color consistency from fixture to fixture • 2700K, 3000K, 3500K and 4100K color temperatures available • CRI>80 • Cast aluminum heat sink integrated directly with housing provides superior thermal management with LEDs operating below manufacturer's published junction temperature to ensure attainment of rated life of the LEDs • Light engine mounts directly to heat sink and is easily replaceable • Light engine/reflector system produces 900 to 2500 lumens while using only 18 to 46 watts of energy and incorporates the latest generation of high lumen LEDs.

Dimming: Dimmable via 0-10V protocol, increasing efficiency up to 30% while dimming • For a list of compatible dimmers, see [LED-DIM](#).

LED Driver: Universal driver accommodates 120V to 277V input volts AC at 50/60Hz, 2800 lumen unit is voltage specific • Power factor >0.9 • Dimmable via 0-10V protocol, increasing efficiency up to 30% while dimming


Life: Rated for 50,000 hours at 70% lumen maintenance

Mechanical

Housing: One piece heavy gauge steel with white or black baked textured powder coat finish.

Mounting: Available for surface, pendant or wall mounting • Pendant mounting features hang straight pendant mounting kits that allows for mounting on to sloped ceiling with an angle up to 45° • Hinged reveal allows single person installation.

Labels and Listings

- UL listed for damp locations • I.B.E.W. Union made
- UL and cUL, RoHS compliant • EMI complies with FCC 47, Part 15, Class A
- Energy Star qualified, page 2 for designated products
- ARRA compliant 

Warranty: 5 years when used in accordance with manufacturing guidelines.

Product specifications subject to change without notice.

ORDERING INFORMATION: Rough-in, reflector and accessories each ordered separately.

Examples: **9-LED-1327W-CS3 / 9-LED-1135W-CL3-WH / 9-LED-13402B-GS3-PD**

Cat. #	Lumens	Color Temp.	*Voltage	Housing Color	Trim Options	Generation	Options
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
9-LED Surface Mount	11 1100	27 2700K	1 120V	W White	Alzak® Finish Options: Clear CS Satin CL Gold GS Specular CL Black BS CL Pewter PTS PTL Wheat WTS WTL Bronze BZS BZL Painted Finish Options White W	3	WH White Flange WS Single Wall Wash BP Emergency Battery Pack w/ Test switch (Battery & test switch remotely mounted) 347 347 Volt (1100/1300/2000 lumen units only) *R1 Reverse Phase Dimming (1100/1300/2000Lm, 120V only) *STD. on 2800 Lumen/120V D1 DALI Control Dimming (1100/1300Lm, 120V only) PD Lutron Dimming Driver (1100, 1300Lm Only)
9P-LED® Pendant Mount	13 1300	30 3000K	2 277V	B Black			
9B-LED Wall Mount	20 2000	35 3500K	3 347V				
	*28 2800	40 4100K					

♦2800 Lumen unit is voltage specific, all others are universal voltage.

*See accessories for pendant mounting of fixtures with dimming or emergency battery pack.

†R1 Uses standard stem accessories

Rev. 1 09/13



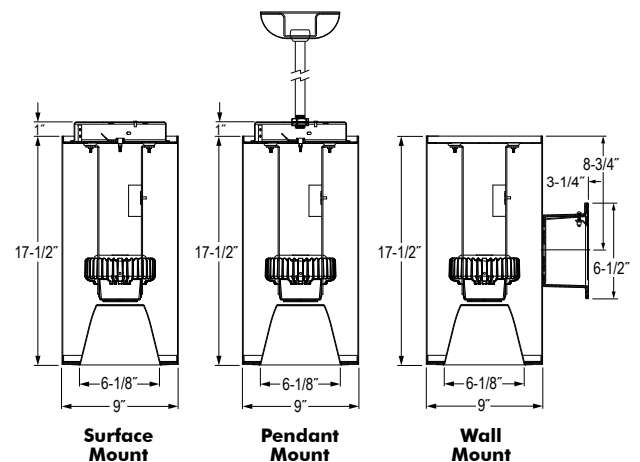
9" 1100/1300/2000/2800 LUMEN LED DOWNLIGHT CYLINDER

OPEN APERTURE

9-LED SERIES

Type	Cat. No.
_____	_____
Project:	_____
Notes:	_____

DIMENSIONS



ENGINEERING DATA

Voltage	120V - 277V			
	1100	1300	2000	2800
Light Engine Lumens	4K/35K/3K/27K	4K/35K/3K/27K	4K/35K/3K/27K	4K/35K/3K/27K
CCT	4K/35K/3K/27K	4K/35K/3K/27K	4K/35K/3K/27K	4K/35K/3K/27K
Input Wattage	18W/18W/19W/19W	20W/21W/22W/22W	30W/31W/33W/33W	46W/46W/49W/49W
Input Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Power Factor	0.9	0.9	0.9	0.9

347 Volt available, consult factory.

Example: **P24-W**

Pendant Kits/Accessories

- P18-W** 18" Hang Straight Mounting Kit, White
- P18-B** 18" Hang Straight Mounting Kit, Black
- P24-W** 24" Hang Straight Mounting Kit, White
- P24-B** 24" Hang Straight Mounting Kit, Black
- P36-W** 36" Hang Straight Mounting Kit, White
- P36-B** 36" Hang Straight Mounting Kit, Black
- DM** For (0-10V) standard Dimming
Example: **-P24-W-DM**
- DM-PD** For use with Lutron Dimming Driver option.
Example: **-P24-W-DM-PD**
- DM-D1** For use with Dali Control option
Example: **-P24-W-DM-D1**
- BP-FRTM** For Battery Pack add '-BP-FRTM' to Pendant Kit. Example: **-P24-W-BP-FRTM**



PERFORMANCE DATA

2700K, 3000K, 3500K & 4100K CCT LUMINAIRES SPACED 3' FROM WALL

Catalog Number: 9-LED-28351W-CL3-WS

Spread: Single Wall

Single Unit						Lamp	Multiple Units On 2' Centers*			Multiple Units On 3' Centers*			Multiple Units On 4' Centers*		
Lateral Distance From Fixture 3' From Wall						DLM-2800 2700K/3000K/3500K/4100K	Spaced 3' From Wall			Spaced 3' From Wall			Spaced 3' From Wall		
0'	1'	2'	3'	4'	5'	Distance From Ceiling	CL	CL	CL	CL	CL	CL	CL	CL	CL
7	6	4	2	2	2	1'	15	15	15	11	11	11	9	7	9
15	13	8	5	3	2	2'	33	33	33	24	23	24	20	16	20
17	15	10	6	4	3	3'	41	41	41	30	29	30	23	21	23
15	14	10	7	4	3	4'	40	40	40	30	30	30	23	22	23
13	11	9	6	5	4	5'	36	36	36	26	26	26	20	20	20
10	10	8	6	5	4	6'	32	32	32	23	23	23	18	18	18
9	8	7	6	4	4	7'	28	28	28	21	21	21	16	16	16
7	7	6	5	4	3	8'	24	25	24	18	18	18	14	13	14
5	5	5	4	3	3	9'	20	20	20	15	15	15	12	11	12

LUMEN MULTIPLIER:
2000 X .69
1300 X .45
1100 X .39

*Based on minimum of five luminaires. Reflectances: 80, 50, 20. Values are rounded to nearest whole footcandle.

2700K, 3000K, 3500K & 4100K CCT LUMINAIRES SPACED 4' FROM WALL

Catalog Number: 9-LED-28351W-CL3-WS

Spread: Single Wall

Single Unit						Lamp	Multiple Units On 2' Centers*			Multiple Units On 3' Centers*			Multiple Units On 4' Centers*		
Lateral Distance From Fixture 4' From Wall						DLM-2800 2700K/3000K/3500K/4100K	Spaced 4' From Wall			Spaced 4' From Wall			Spaced 4' From Wall		
0'	1'	2'	3'	4'	5'	Distance From Ceiling	CL	CL	CL	CL	CL	CL	CL	CL	CL
4	3	3	2	2	2	1'	9	9	9	7	7	7	6	5	6
8	7	5	4	3	2	2'	21	21	21	16	15	16	13	11	13
10	9	7	5	4	3	3'	29	29	29	21	21	21	17	16	17
11	10	8	6	4	3	4'	31	32	31	23	23	23	18	18	18
10	9	8	6	5	4	5'	31	31	31	23	23	23	18	18	18
9	8	7	6	5	4	6'	29	29	29	22	22	22	17	17	17
8	7	6	5	4	4	7'	26	27	26	20	20	20	16	15	16
7	7	6	5	4	4	8'	24	25	24	18	19	18	15	14	15
6	5	5	4	4	3	9'	20	21	20	16	16	16	12	12	12

LUMEN MULTIPLIER:
2000 X .69
1300 X .45
1100 X .39

*Based on minimum of five luminaires. Reflectances: 80, 50, 20. Values are rounded to nearest whole footcandle.

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field.



1300 S. Wolf Road • Des Plaines, IL 60018 • Phone (800) 367-5866 • Fax (888) 708-6578
Visit us at www.junolightinggroup.com

PERFORMANCE DATA**2700K, 3000K, 3500K & 4100K CCT
LUMINAIRES SPACED 3' FROM WALL**

Catalog Number: 9-LED-2035W-CS3-WS

Spread: Single Wall

Single Unit						Lamp	Multiple Units On 2' Centers*			Multiple Units On 3' Centers*			Multiple Units On 4' Centers*		
Lateral Distance From Fixture 3' From Wall						DLM-2000 2700K/3000K/3500K/4100K	Spaced 3' From Wall			Spaced 3' From Wall			Spaced 3' From Wall		
0'	1'	2'	3'	4'	5'	Distance From Ceiling	CL	CL	CL	CL	CL	CL	CL		
4	4	2	1	1	1	1'	9	9	9	7	7	7	6	5	6
9	8	5	3	2	2	2'	21	21	21	15	14	15	13	10	13
11	9	6	4	2	2	3'	26	26	26	19	18	19	15	13	15
10	9	6	4	3	2	4'	25	25	25	18	18	18	14	14	14
8	7	6	4	3	2	5'	22	23	22	16	16	16	13	12	13
7	6	5	4	3	2	6'	20	20	20	15	15	15	12	11	12
5	5	4	4	3	2	7'	18	18	18	13	13	13	10	10	10
4	4	4	3	2	2	8'	15	15	15	12	12	12	9	9	9
3	3	3	3	2	2	9'	12	12	12	10	10	10	7	7	7

LUMEN MULTIPLIER:
2800 X 1.44
1300 X 0.64
1100 X 0.55

*Based on minimum of five luminaires. Reflectances: 80, 50, 20. Values are rounded to nearest whole footcandle.

**2700K, 3000K, 3500K & 4100K CCT
LUMINAIRES SPACED 4' FROM WALL**

Catalog Number: 9-LED-2035W-CS3-WS

Spread: Single Wall

Single Unit						Lamp	Multiple Units On 2' Centers*			Multiple Units On 3' Centers*			Multiple Units On 4' Centers*		
Lateral Distance From Fixture 4' From Wall						DLM-2000 2700K/3000K/3500K/4100K	Spaced 4' From Wall			Spaced 4' From Wall			Spaced 4' From Wall		
0'	1'	2'	3'	4'	5'	Distance From Ceiling	CL	CL	CL	CL	CL	CL	CL		
2	2	2	1	1	1	1'	6	6	6	5	4	5	4	3	4
5	5	3	2	2	2	2'	13	13	13	10	10	10	8	7	8
7	6	5	3	2	2	3'	18	18	18	13	13	13	10	10	10
7	6	5	4	3	2	4'	19	20	19	14	15	14	11	11	11
6	6	5	4	3	2	5'	19	20	19	14	14	14	11	11	11
6	5	5	4	3	2	6'	18	18	18	14	14	14	11	11	11
5	5	4	3	3	2	7'	17	17	17	13	13	13	10	10	10
4	4	4	3	3	2	8'	15	15	15	12	12	12	9	9	9
4	3	3	3	2	2	9'	13	13	13	10	10	10	8	7	8

LUMEN MULTIPLIER:
2800 X 1.44
1300 X 0.64
1100 X 0.55

*Based on minimum of five luminaires. Reflectances: 80, 50, 20. Values are rounded to nearest whole footcandle.

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field.



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ENVIRONMENTALLY FRIENDLY, ENERGY EFFICIENT

- Comparable light output to 26W, 32W, 42W and 2x26W CFL while consuming 18, 21, 31 and 46 watts.
- No harmful ultraviolet or infrared wavelengths
- No lead or mercury

PRODUCT SPECIFICATIONS

Optics

Cone: Self-flanged, low iridescent satin or specular Alzak® cone standard • Cone available in clear, gold, black, pewter, wheat, and bronze Alzak® finishes; see trim options • Computer-optimized reflector maximizes fixture efficiency • Deep regression of source produces a very low glare system with 40° cut-off to lamp and lamp image • Lensed mixing chamber conceals the LEDs to produce uniform aperture luminance

Electrical

LED Light Engine: Innovative light engine utilizes remote phosphor lens and mixing chamber to ensure perfectly mixed light, resulting in uniform colors and superior color consistency from fixture to fixture • 2700K, 3000K, 3500K and 4100K color temperatures available • CRI>80 • Cast aluminum heat sink integrated directly with housing provides superior thermal management with LEDs operating below manufacturer's published junction temperature to ensure attainment of rated life of the LEDs • Light engine mounts directly to heat sink and is easily replaceable • Light engine/reflector system produces 900 to 2500 lumens while using only 18 to 46 watts of energy and incorporates the latest generation of high lumen LEDs.

Dimming: Dimmable via 0-10V protocol, increasing efficiency up to 30% while dimming • For a list of compatible dimmers, see [LED-DIM](#).

LED Driver: Universal driver accommodates 120V to 277V input volts AC at 50/60Hz, 2800 lumen unit is voltage specific • Power factor >0.9 • Dimmable via 0-10V protocol, increasing efficiency up to 30% while dimming


Life: Rated for 50,000 hours at 70% lumen maintenance

Mechanical

Housing: One piece heavy gauge steel with white or black baked textured powder coat finish.

Mounting: Available for surface, pendant or wall mounting • Pendant mounting features hang straight pendant mounting kits that allows for mounting on to sloped ceiling with an angle up to 45° • Hinged reveal allows single person installation.

Labels and Listings

- UL listed for damp locations • I.B.E.W. Union made
- UL and cUL, RoHS compliant • EMI complies with FCC 47, Part 15, Class A
- Energy Star qualified, page 2 for designated products
- ARRA compliant 

Warranty: 5 years when used in accordance with manufacturing guidelines.

Product specifications subject to change without notice.

ORDERING INFORMATION: Rough-in, reflector and accessories each ordered separately.

Examples: **9-LED-1327W-CS3 / 9-LED-1135W-CL3-WH / 9-LED-13402B-GS3-PD**

Cat. #	Lumens	Color Temp.	*Voltage	Housing Color	Trim Options	Generation	Options
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
9-LED Surface Mount	11 1100	27 2700K	1 120V	W White	Alzak® Finish Options: Clear CS Satin CL Gold GS Specular CL Black BS CL Pewter PTS PTL Wheat WTS WTL Bronze BZS BZL Painted Finish Options White W	3	WH White Flange WS Single Wall Wash BP Emergency Battery Pack w/ Test switch (Battery & test switch remotely mounted) 347 347 Volt (1100/1300/2000 lumen units only) *R1 Reverse Phase Dimming (1100/1300/2000Lm, 120V only) *STD. on 2800 Lumen/120V D1 DALI Control Dimming (1100/1300Lm, 120V only) PD Lutron Dimming Driver (1100, 1300Lm Only)
9P-LED® Pendant Mount	13 1300	30 3000K	2 277V	B Black			
9B-LED Wall Mount	20 2000	35 3500K	3 347V				
	*28 2800	40 4100K					

Example: **P24-W**

Pendant Kits/Accessories

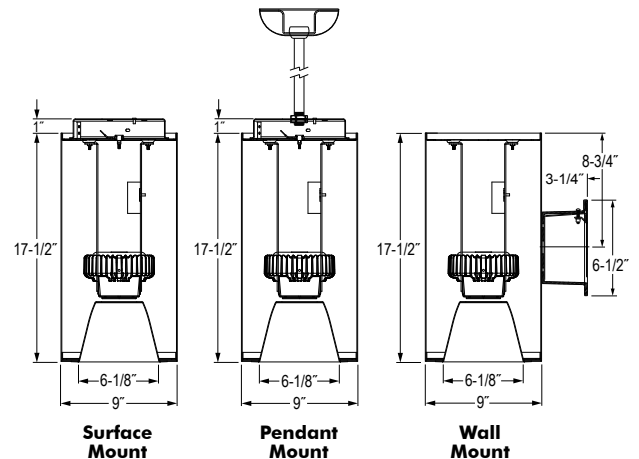
P18-W	18" Hang Straight Mounting Kit, White
P18-B	18" Hang Straight Mounting Kit, Black
P24-W	24" Hang Straight Mounting Kit, White
P24-B	24" Hang Straight Mounting Kit, Black
P36-W	36" Hang Straight Mounting Kit, White
P36-B	36" Hang Straight Mounting Kit, Black
DM	For (0-10V) standard Dimming Example: -P24-W-DM
DM-PD	For use with Lutron Dimming Driver option. Example: -P24-W-DM-PD
DM-D1	For use with Dali Control option Example: -P24-W-DM-D1
BP-FRTM	For Battery Pack add '-BP-FRTM' to Pendant Kit. Example: -P24-W-BP-FRTM



9" 1100/1300/2000/2800 LUMEN LED DOWNLIGHT CYLINDER OPEN APERTURE 9-LED SERIES

Type	Cat. No.
_____	_____
Project: _____	
Notes: _____	

DIMENSIONS



ENGINEERING DATA

Voltage	120V - 277V			
	1100	1300	2000	2800
Light Engine Lumens	4K/35K/3K/27K	4K/35K/3K/27K	4K/35K/3K/27K	4K/35K/3K/27K
CCT	4K/35K/3K/27K	4K/35K/3K/27K	4K/35K/3K/27K	4K/35K/3K/27K
Input Wattage	18W/18W/19W/19W	20W/21W/22W/22W	30W/31W/33W/33W	46W/46W/49W/49W
Input Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Power Factor	0.9	0.9	0.9	0.9

347 Volt available, consult factory.

♦2800 Lumen unit is voltage specific, all others are universal voltage.

*See accessories for pendant mounting of fixtures with dimming or emergency battery pack.

†R1 Uses standard stem accessories

Rev. 1 09/13



PERFORMANCE DATA

2700K, 3000K, 3500K & 4100K CCT LUMINAIRES SPACED 3' FROM WALL

Catalog Number: 9-LED-28351W-CL3-WS

Spread: Single Wall

Single Unit						Lamp	Multiple Units On 2' Centers*			Multiple Units On 3' Centers*			Multiple Units On 4' Centers*		
Lateral Distance From Fixture 3' From Wall						DLM-2800 2700K/3000K/3500K/4100K	Spaced 3' From Wall			Spaced 3' From Wall			Spaced 3' From Wall		
0'	1'	2'	3'	4'	5'	Distance From Ceiling	CL	CL	CL	CL	CL	CL	CL	CL	CL
7	6	4	2	2	2	1'	15	15	15	11	11	11	9	7	9
15	13	8	5	3	2	2'	33	33	33	24	23	24	20	16	20
17	15	10	6	4	3	3'	41	41	41	30	29	30	23	21	23
15	14	10	7	4	3	4'	40	40	40	30	30	30	23	22	23
13	11	9	6	5	4	5'	36	36	36	26	26	26	20	20	20
10	10	8	6	5	4	6'	32	32	32	23	23	23	18	18	18
9	8	7	6	4	4	7'	28	28	28	21	21	21	16	16	16
7	7	6	5	4	3	8'	24	25	24	18	18	18	14	13	14
5	5	5	4	3	3	9'	20	20	20	15	15	15	12	11	12

LUMEN MULTIPLIER:
2000 X .69
1300 X .45
1100 X .39

*Based on minimum of five luminaires. Reflectances: 80, 50, 20. Values are rounded to nearest whole footcandle.

2700K, 3000K, 3500K & 4100K CCT LUMINAIRES SPACED 4' FROM WALL

Catalog Number: 9-LED-28351W-CL3-WS

Spread: Single Wall

Single Unit						Lamp	Multiple Units On 2' Centers*			Multiple Units On 3' Centers*			Multiple Units On 4' Centers*		
Lateral Distance From Fixture 4' From Wall						DLM-2800 2700K/3000K/3500K/4100K	Spaced 4' From Wall			Spaced 4' From Wall			Spaced 4' From Wall		
0'	1'	2'	3'	4'	5'	Distance From Ceiling	CL	CL	CL	CL	CL	CL	CL	CL	CL
4	3	3	2	2	2	1'	9	9	9	7	7	7	6	5	6
8	7	5	4	3	2	2'	21	21	21	16	15	16	13	11	13
10	9	7	5	4	3	3'	29	29	29	21	21	21	17	16	17
11	10	8	6	4	3	4'	31	32	31	23	23	23	18	18	18
10	9	8	6	5	4	5'	31	31	31	23	23	23	18	18	18
9	8	7	6	5	4	6'	29	29	29	22	22	22	17	17	17
8	7	6	5	4	4	7'	26	27	26	20	20	20	16	15	16
7	7	6	5	4	4	8'	24	25	24	18	19	18	15	14	15
6	5	5	4	4	3	9'	20	21	20	16	16	16	12	12	12

LUMEN MULTIPLIER:
2000 X .69
1300 X .45
1100 X .39

*Based on minimum of five luminaires. Reflectances: 80, 50, 20. Values are rounded to nearest whole footcandle.

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field.



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PERFORMANCE DATA

2700K, 3000K, 3500K & 4100K CCT LUMINAIRE SPACED 3' FROM WALL

Catalog Number: 9-LED-2035W-CS3-WS

Spread: Single Wall

Single Unit						Lamp	Multiple Units On 2' Centers*			Multiple Units On 3' Centers*			Multiple Units On 4' Centers*		
Lateral Distance From Fixture 3' From Wall						DLM-2000 2700K/3000K/3500K/4100K	Spaced 3' From Wall			Spaced 3' From Wall			Spaced 3' From Wall		
0'	1'	2'	3'	4'	5'	Distance From Ceiling	CL	CL	CL	CL	CL	CL	CL		
4	4	2	1	1	1	1'	9	9	9	7	7	7	6	5	6
9	8	5	3	2	2	2'	21	21	21	15	14	15	13	10	13
11	9	6	4	2	2	3'	26	26	26	19	18	19	15	13	15
10	9	6	4	3	2	4'	25	25	25	18	18	18	14	14	14
8	7	6	4	3	2	5'	22	23	22	16	16	16	13	12	13
7	6	5	4	3	2	6'	20	20	20	15	15	15	12	11	12
5	5	4	4	3	2	7'	18	18	18	13	13	13	10	10	10
4	4	4	3	2	2	8'	15	15	15	12	12	12	9	9	9
3	3	3	3	2	2	9'	12	12	12	10	10	10	7	7	7

LUMEN MULTIPLIER:
2800 X 1.44
1300 X 0.64
1100 X 0.55

*Based on minimum of five luminaires. Reflectances: 80, 50, 20. Values are rounded to nearest whole footcandle.

2700K, 3000K, 3500K & 4100K CCT LUMINAIRE SPACED 4' FROM WALL

Catalog Number: 9-LED-2035W-CS3-WS

Spread: Single Wall

Single Unit						Lamp	Multiple Units On 2' Centers*			Multiple Units On 3' Centers*			Multiple Units On 4' Centers*		
Lateral Distance From Fixture 4' From Wall						DLM-2000 2700K/3000K/3500K/4100K	Spaced 4' From Wall			Spaced 4' From Wall			Spaced 4' From Wall		
0'	1'	2'	3'	4'	5'	Distance From Ceiling	CL	CL	CL	CL	CL	CL	CL		
2	2	2	1	1	1	1'	6	6	6	5	4	5	4	3	4
5	5	3	2	2	2	2'	13	13	13	10	10	10	8	7	8
7	6	5	3	2	2	3'	18	18	18	13	13	13	10	10	10
7	6	5	4	3	2	4'	19	20	19	14	15	14	11	11	11
6	6	5	4	3	2	5'	19	20	19	14	14	14	11	11	11
6	5	5	4	3	2	6'	18	18	18	14	14	14	11	11	11
5	5	4	3	3	2	7'	17	17	17	13	13	13	10	10	10
4	4	4	3	3	2	8'	15	15	15	12	12	12	9	9	9
4	3	3	3	2	2	9'	13	13	13	10	10	10	8	7	8

LUMEN MULTIPLIER:
2800 X 1.44
1300 X 0.64
1100 X 0.55

*Based on minimum of five luminaires. Reflectances: 80, 50, 20. Values are rounded to nearest whole footcandle.

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field.



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PM1

Pole top luminaires with asymmetrical wide spread light distribution

Housing: Die-cast aluminum housing and slip fitter. Slip fits 3" O.D. pole top, secures to pole with six stainless steel set screws. Die-cast aluminum knuckle allows for 0° or 15° tilt adjustment from horizontal. All aluminum used in the construction is marine grade and copper free.

Enclosure: Faceplate is constructed of die-cast aluminum and can be opened without tools for easy maintenance. Clear acrylic diffuser with optical texture. Fully gasketed with a molded silicone gasket.

Electrical: 52 W LED luminaire, 58.7 total system watts, -30° C start temperature. Integral 120V through 277 V electronic LED driver. Standard LED color temperature is 4000K with a >80 CRI. Available in 3000K (>80 CRI); add suffix K3 to order.

Note: LEDs supplied with luminaire. Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to www.bega-us.com.

Finish: These luminaires are available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

UL listed, suitable for wet locations. Protection class: IP66.

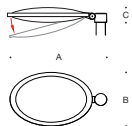
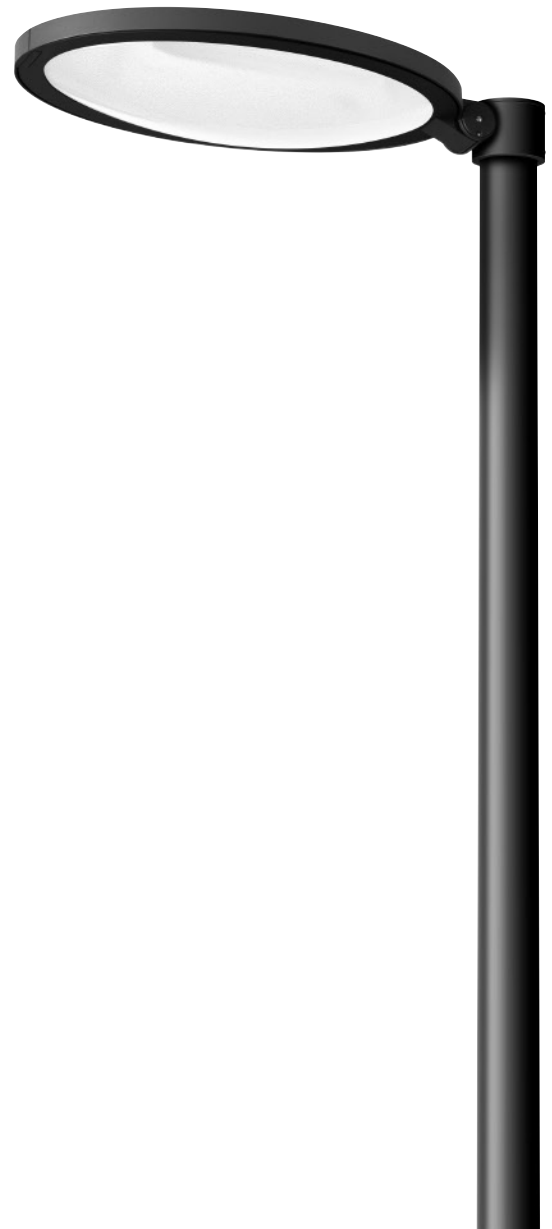
Weight: 16.5 lbs.

Effective Projection Area (EPA): 0.8 ft²

Luminaire Lumens: 4898

Tested in accordance with LM-79-08

Type:
BEGA Product:
Project:
Voltage:
Color:
Options:
Modified:



Single pole-top luminaires

	Lamp	A	B	C
7836LED	52W LED	29 1/2	15 3/8	5 3/8

Recommended for use with 14' to 16' poles.

BEGA-US 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 FAX (805) 566-9474 www.bega-us.com

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MINIMAX™ LED O LH T1

TRACK
FIXTURES
11-101

track mounted LED accent light (no cross baffle)

FEATURES

MiniMax LED O LH is a track mounted accent light powered by one of a number of Xicato LED modules – including Artist Series and Vibrant Series modules – all of which are distinguished by extraordinary color consistency (within 1x2-step MacAdam ellipse). See tables on the reverse for wattages and efficacies.

With a standard track adapter, luminaire may be powered by one of eighteen 20-amp 120-volt track systems. With optional track adapters, luminaire may be powered by one of sixteen 50 or 60-amp 120-volt track systems or one of six 277-volt track systems.

Luminaire, on 120-volt track only, may be dimmed to 10% by an electronic low voltage (ELV) dimmer.

Beam spread is changed by removing the spring-mounted lens holder assembly, replacing one 'twist and lock' reflector with another, and re-inserting the lens holder assembly. Luminaire is ordered with a single reflector; one or both of the other reflectors may be ordered as accessories.

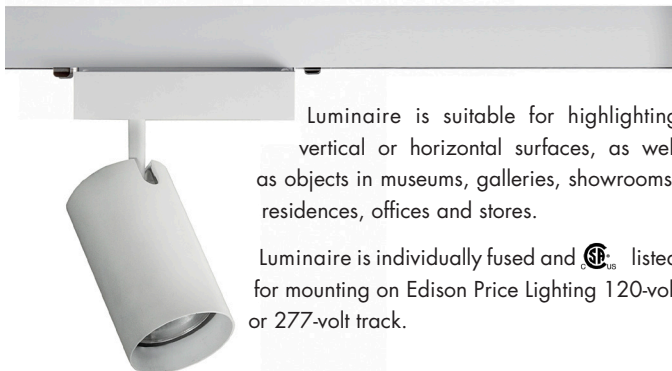
An on-off rocker switch, mounted flush in the circular top of the luminaire, is included standard on luminaires equipped for 120 volt service only.

A concealed swivel provides 385° horizontal rotation and vertical adjustment from 0° to 90°. The swivel is permanently tensioned, allowing the luminaire to remain fixed at any angle. Luminaire can be locked in place by depressing a hinged ('lever lock') bar so that it lies flush with the top of the housing. Lifting the lever lock frees the swivel.


Lens holder assembly accepts one or two of a number of Optical Accessories including spread lenses and color filters. Complimentary Beam Smoother is included. Note that, for enhanced efficiency, cross-baffles are not included. Lens holder assembly is spring-mounted for easy removal and adjustment.

MiniMax luminaires have seamless aluminum housings and cast aluminum tops for lightweight durability and heat dissipation. Standard finish is matte white; also available in black and silver. A white switch is provided with white luminaires and a black switch with black or silver luminaires. For custom color luminaires (CC) specifier must indicate white or black switch.

APPLICATIONS

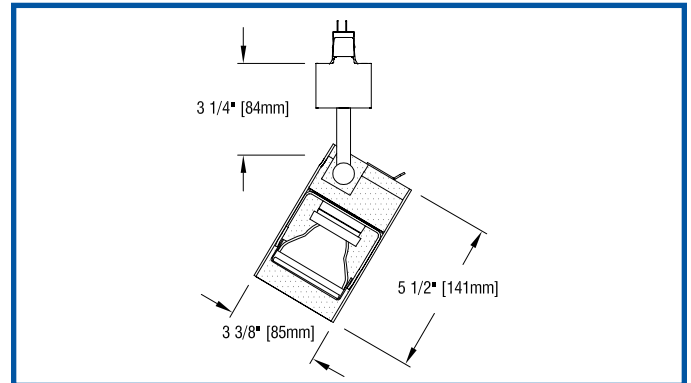


Luminaire is suitable for highlighting vertical or horizontal surfaces, as well as objects in museums, galleries, showrooms, residences, offices and stores.

Luminaire is individually fused and  listed for mounting on Edison Price Lighting 120-volt or 277-volt track.

Fixture Spacing Requirements The track adapters of MiniMax LED's are 8" long. For this reason they cannot be mounted closer than 8 1/4" on center and they cannot be used with any of our three Unicep single-fixture track units.

For the outlet box mounted version of this luminaire, see **MiniMax LED O LH-OBM**.



PRODUCT CODE

For complete product code, list basic unit and select one item from each following box.

Basic Unit MM-XSM2-O-LH

Light Output

700 lumens / CRI 97 Artist L07A
1000 lumens / CRI 97 Artist L10A
1000 lumens / CRI 80+ L10S
1500 lumens / CRI 80+ Vibrant 3000K only L15V
1500 lumens / CRI 80+ L15S
2100 lumens / CRI 80+ L21S

Light Color

2700 K not available on 2100 lumen model -27K
3000 K -30K
3500 K -35K
4000 K -40K

Beam Spread Reflector (specify one to ship with fixture)

20° spot -20D
40° flood -40D
60° wide flood -60D

OPTIONS Specify by adding to the product code.

Dimmable standard driver is dimmable to 10% with ELV dimmer on 120-volt track only. Dimming not available on 277-volt track.

Dimmable to 1% with Lutron driver controlled by incandescent dimmer on 120-volt service only; not available on 277-volt track - LU-DM1

60-amp adapter required for fixtures to be used on DoubleLine-50, AutoTrak-50 Upline-50 or AutoBus-120 track systems (fixture's appearance remains the same) - 1C

277-volt adapter required for fixtures to be used on HighLine or AutoBus-277 track systems. Note: Fixtures on 277-volt track cannot be dimmed and do not include an on-off switch. - HC

matte black housing finish - BLK

Industrial Silver housing finish - SIL

custom color paint housing finish identify color in specification - CC

EXTRA REFLECTORS Specify as separate line items.

20° spot reflector XSM-REF20

40° flood reflector XSM-REF40

60° wide flood reflector XSM-REF60

OPTICAL ACCESSORIES ▼ See next page



41-50 22ND STREET, LIC NY 11101 TEL 718.685.0700 FAX 718.786.8530 www.epl.com

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MiniMax is a pending trademark of Edison Price Lighting.

3:14

OPTICAL ACCESSORIES

Specify as separate line items.

All are 2 3/4" (70mm) dia. Lenses and filters are glass; screens are aluminum.

diffuse glass	DGS/2.75
prismatic lens (Solite)	PLS/2.75
55° spread lens	LENS/2.75
40° x 70° spread lens	LENS/2.75-4070
beam smoother included with fixture	CLR/2.75
color filters	
Daylight Blue	DAY/2.75
Surprise Pink	PNK/2.75
amber	AMB/2.75
blue	BLU/2.75
green	GRN/2.75
red	RED/2.75
33% light reduction screen	SCR33/2.75
50% light reduction screen	SCR50/2.75

PHOTOMETRIC REPORT (tested per IESNA LM-79-2008)

Data prorated from Verification Services Report No. 331261. Original test report furnished upon request.

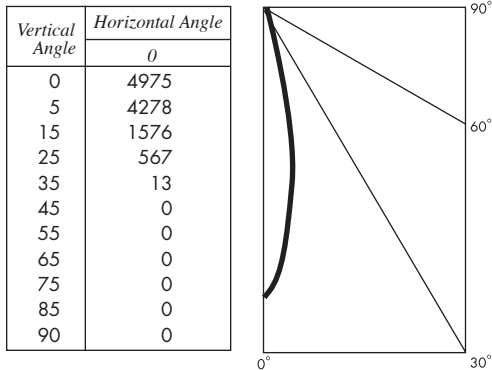
Luminaire track-mounted LED accent light with a 20° reflector and black lens holder (NO LENS)

Lamp Xicato XSM LED Module, 1500 lumens, 3000K

Lamp Life rated 50,000 hours based on L70/B50 criteria. LM80 report by LED manufacturer furnished upon request

Luminaire Light Output 1146 lumens

CANDLEPOWER DISTRIBUTION (Candela)



DRIVER INFORMATION

(UL Class 2, dry and damp location)

Dimmable to 10% with trailing edge (ELV) dimmers

Voltage	120	277
Input Watts (700A/1000A/1000/1500/2100 lumens)	16/21/15/23/26	16/21/15/23/26
Input Current (A) (700A/1000A/1000/1500/2100 lumens)	.13/.18/.13/.19/.22	.06/.08/.05/.08/.09
Output Current (mA)	500-1050	500-1050
Min. Power Factor	0.99	0.99
Operating Temperature Range (F)	-13 to 122	-13 to 122

LUMINAIRE LIGHT OUTPUT AND EFFICACY

LED Module Type	Luminaire Light Output	Luminaire Efficacy (lms/watt)	System Wattage
700 Lumens Artist	516*	32	16*
1000 Lumens Artist	653*	31	21*
1000 Lumens standard	721*	48	15
1500 Lumens standard & Vibrant	1146*	50	23*
2100 Lumens standard	1455*	56	26

*estimated values

LUMINANCE DATA

Vertical Angle	Candelam ²
45	3076
55	1759
65	1014
75	0
85	0

LIGHT OUTPUT MULTIPLIER

700 lumens Artist	1000 lumens Artist	1000 lumens standard	1500 lumens standard & Vibrant	2100 lumens
.45 (estimated)	.57 (estimated)	.63 (estimated)	1	1.27 (estimated)

MINIMAX™ LED O LH T2

TRACK
FIXTURES
11-101

track mounted LED accent light (no cross baffle)

FEATURES

MiniMax LED O LH is a track mounted accent light powered by one of a number of Xicato LED modules – including Artist Series and Vibrant Series modules – all of which are distinguished by extraordinary color consistency (within 1x2-step MacAdam ellipse). See tables on the reverse for wattages and efficacies.

With a standard track adapter, luminaire may be powered by one of eighteen 20-amp 120-volt track systems. With optional track adapters, luminaire may be powered by one of sixteen 50 or 60-amp 120-volt track systems or one of six 277-volt track systems.

Luminaire, on 120-volt track only, may be dimmed to 10% by an electronic low voltage (ELV) dimmer.

Beam spread is changed by removing the spring-mounted lens holder assembly, replacing one 'twist and lock' reflector with another, and re-inserting the lens holder assembly. Luminaire is ordered with a single reflector; one or both of the other reflectors may be ordered as accessories.

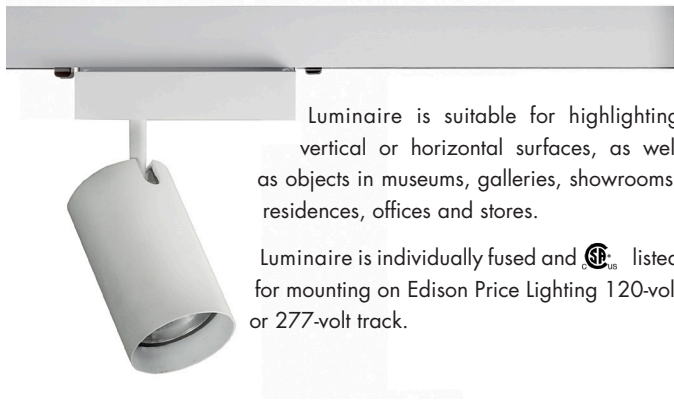
An on-off rocker switch, mounted flush in the circular top of the luminaire, is included standard on luminaires equipped for 120 volt service only.

A concealed swivel provides 385° horizontal rotation and vertical adjustment from 0° to 90°. The swivel is permanently tensioned, allowing the luminaire to remain fixed at any angle. Luminaire can be locked in place by depressing a hinged ('lever lock') bar so that it lies flush with the top of the housing. Lifting the lever lock frees the swivel.


Lens holder assembly accepts one or two of a number of Optical Accessories including spread lenses and color filters. Complimentary Beam Smoother is included. Note that, for enhanced efficiency, cross-baffles are not included. Lens holder assembly is spring-mounted for easy removal and adjustment.

MiniMax luminaires have seamless aluminum housings and cast aluminum tops for lightweight durability and heat dissipation. Standard finish is matte white; also available in black and silver. A white switch is provided with white luminaires and a black switch with black or silver luminaires. For custom color luminaires (CC) specifier must indicate white or black switch.

APPLICATIONS

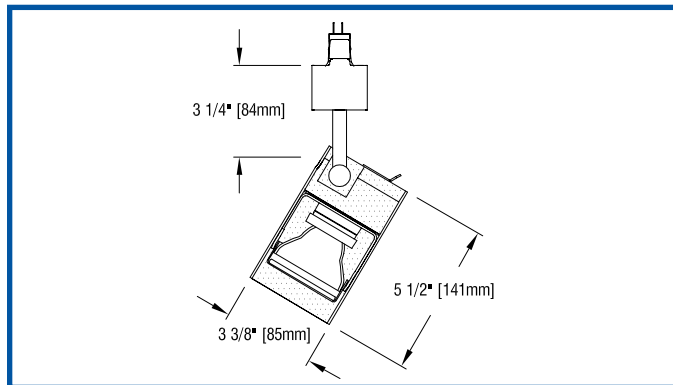


Luminaire is suitable for highlighting vertical or horizontal surfaces, as well as objects in museums, galleries, showrooms, residences, offices and stores.

Luminaire is individually fused and  listed for mounting on Edison Price Lighting 120-volt or 277-volt track.

Fixture Spacing Requirements The track adapters of MiniMax LED's are 8" long. For this reason they cannot be mounted closer than 8 1/4" on center and they cannot be used with any of our three Unicep single-fixture track units.

For the outlet box mounted version of this luminaire, see **MiniMax LED O LH-OBM**.



PRODUCT CODE

For complete product code, list basic unit and select one item from each following box.

Basic Unit MM-XSM2-O-LH

Light Output

700 lumens / CRI 97 Artist L07A
 1000 lumens / CRI 97 Artist L10A
 1000 lumens / CRI 80+ L10S
 1500 lumens / CRI 80+ Vibrant 3000K only L15V
 1500 lumens / CRI 80+ L15S
 2100 lumens / CRI 80+ L21S

Light Color

2700 K not available on 2100 lumen model -27K
 3000 K -30K
 3500 K -35K
 4000 K -40K

Beam Spread Reflector (specify one to ship with fixture)

20° spot -20D
 40° flood -40D
 60° wide flood -60D

OPTIONS Specify by adding to the product code.

Dimmable standard driver is dimmable to 10% with ELV dimmer on 120-volt track only. Dimming not available on 277-volt track.

Dimmable to 1% with Lutron driver controlled by incandescent dimmer on 120-volt service only; not available on 277-volt track - LU-DM1

60-amp adapter required for fixtures to be used on DoubleLine-50, AutoTrak-50 Upline-50 or AutoBus-120 track systems (fixture's appearance remains the same) - 1C

277-volt adapter required for fixtures to be used on HighLine or AutoBus-277 track systems. Note: Fixtures on 277-volt track cannot be dimmed and do not include an on-off switch. - HC

matte black housing finish - BLK

Industrial Silver housing finish - SIL

custom color paint housing finish identify color in specification - CC

EXTRA REFLECTORS Specify as separate line items.

20° spot reflector XSM-REF20
 40° flood reflector XSM-REF40
 60° wide flood reflector XSM-REF60

OPTICAL ACCESSORIES ▼ See next page



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OPTICAL ACCESSORIES

Specify as separate line items.

All are 2 3/4" (70mm) dia. Lenses and filters are glass; screens are aluminum.

diffuse glass	DGS/2.75
prismatic lens (Solite)	PLS/2.75
55° spread lens	LENS/2.75
40° x 70° spread lens	LENS/2.75-4070
beam smoother included with fixture	CLR/2.75
color filters	
Daylight Blue	DAY/2.75
Surprise Pink	PNK/2.75
amber	AMB/2.75
blue	BLU/2.75
green	GRN/2.75
red	RED/2.75
33% light reduction screen	SCR33/2.75
50% light reduction screen	SCR50/2.75

PHOTOMETRIC REPORT (tested per IESNA LM-79-2008)

Data prorated from Verification Services Report No. 331261. Original test report furnished upon request.

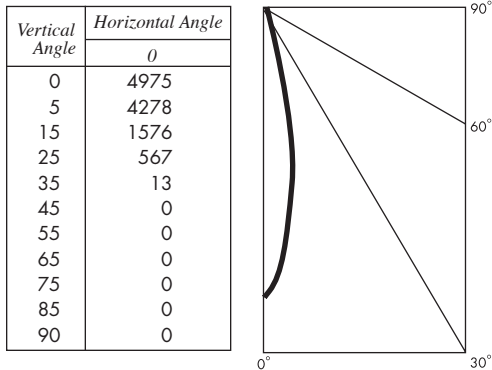
Luminaire track-mounted LED accent light with a 20° reflector and black lens holder (NO LENS)

Lamp Xicato XSM LED Module, 1500 lumens, 3000K

Lamp Life rated 50,000 hours based on L70/B50 criteria. LM80 report by LED manufacturer furnished upon request

Luminaire Light Output 1146 lumens

CANDLEPOWER DISTRIBUTION (Candela)



DRIVER INFORMATION

(UL Class 2, dry and damp location)

Dimmable to 10% with trailing edge (ELV) dimmers

Voltage	120	277
Input Watts (700A/1000A/1000/1500/2100 lumens)	16/21/15/23/26	16/21/15/23/26
Input Current (A) (700A/1000A/1000/1500/2100 lumens)	.13/.18/.13/.19/.22	.06/.08/.05/.08/.09
Output Current (mA)	500-1050	500-1050
Min. Power Factor	0.99	0.99
Operating Temperature Range (F)	-13 to 122	-13 to 122

LUMINAIRE LIGHT OUTPUT AND EFFICACY

LED Module Type	Luminaire Light Output	Luminaire Efficacy (lms/watt)	System Wattage
700 Lumens Artist	516*	32	16*
1000 Lumens Artist	653*	31	21*
1000 Lumens standard	721*	48	15
1500 Lumens standard & Vibrant	1146*	50	23*
2100 Lumens standard	1455*	56	26

*estimated values

LUMINANCE DATA

Vertical Angle	Candelam ²
45	3076
55	1759
65	1014
75	0
85	0

LIGHT OUTPUT MULTIPLIER

700 lumens Artist	1000 lumens Artist	1000 lumens standard	1500 lumens standard & Vibrant	2100 lumens
.45 (estimated)	.57 (estimated)	.63 (estimated)	1	1.27 (estimated)

MINIMAX™ LED O LH T3

TRACK
FIXTURES
11-101

track mounted LED accent light (no cross baffle)

FEATURES

MiniMax LED O LH is a track mounted accent light powered by one of a number of Xicato LED modules – including Artist Series and Vibrant Series modules – all of which are distinguished by extraordinary color consistency (within 1x2-step MacAdam ellipse). See tables on the reverse for wattages and efficacies.

With a standard track adapter, luminaire may be powered by one of eighteen 20-amp 120-volt track systems. With optional track adapters, luminaire may be powered by one of sixteen 50 or 60-amp 120-volt track systems or one of six 277-volt track systems.

Luminaire, on 120-volt track only, may be dimmed to 10% by an electronic low voltage (ELV) dimmer.

Beam spread is changed by removing the spring-mounted lens holder assembly, replacing one 'twist and lock' reflector with another, and re-inserting the lens holder assembly. Luminaire is ordered with a single reflector; one or both of the other reflectors may be ordered as accessories.

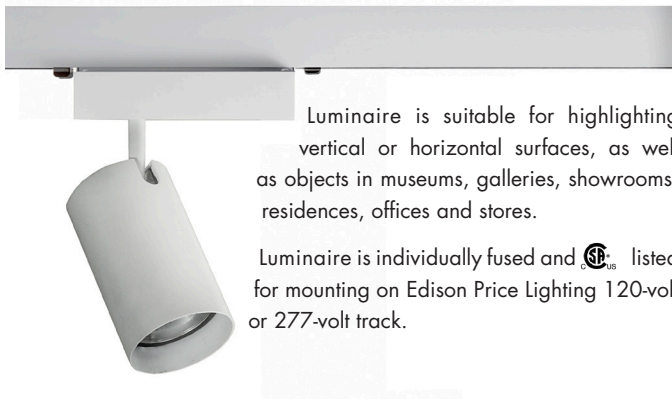
An on-off rocker switch, mounted flush in the circular top of the luminaire, is included standard on luminaires equipped for 120 volt service only.

A concealed swivel provides 385° horizontal rotation and vertical adjustment from 0° to 90°. The swivel is permanently tensioned, allowing the luminaire to remain fixed at any angle. Luminaire can be locked in place by depressing a hinged ('lever lock') bar so that it lies flush with the top of the housing. Lifting the lever lock frees the swivel.


Lens holder assembly accepts one or two of a number of Optical Accessories including spread lenses and color filters. Complimentary Beam Smoother is included. Note that, for enhanced efficiency, cross-baffles are not included. Lens holder assembly is spring-mounted for easy removal and adjustment.

MiniMax luminaires have seamless aluminum housings and cast aluminum tops for lightweight durability and heat dissipation. Standard finish is matte white; also available in black and silver. A white switch is provided with white luminaires and a black switch with black or silver luminaires. For custom color luminaires (CC) specifier must indicate white or black switch.

APPLICATIONS

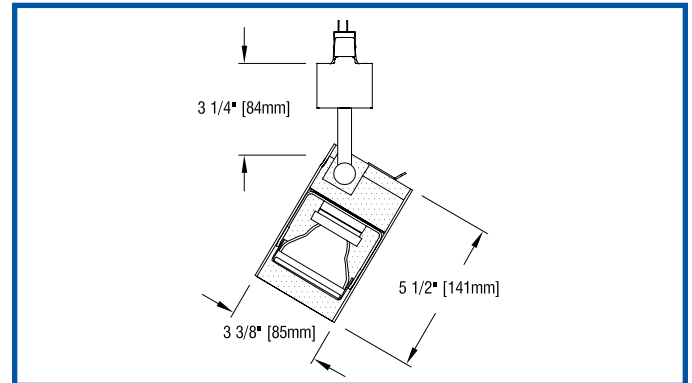


Luminaire is suitable for highlighting vertical or horizontal surfaces, as well as objects in museums, galleries, showrooms, residences, offices and stores.

Luminaire is individually fused and  listed for mounting on Edison Price Lighting 120-volt or 277-volt track.

Fixture Spacing Requirements The track adapters of MiniMax LED's are 8" long. For this reason they cannot be mounted closer than 8 1/4" on center and they cannot be used with any of our three Unicep single-fixture track units.

For the outlet box mounted version of this luminaire, see **MiniMax LED O LH-OBM**.



PRODUCT CODE

For complete product code, list basic unit and select one item from each following box.

Basic Unit MM-XSM2-O-LH

Light Output

700 lumens / CRI 97 Artist L07A
1000 lumens / CRI 97 Artist L10A
1000 lumens / CRI 80+ L10S
1500 lumens / CRI 80+ Vibrant 3000K only L15V
1500 lumens / CRI 80+ L15S
2100 lumens / CRI 80+ L21S

Light Color

2700 K not available on 2100 lumen model -27K
3000 K -30K
3500 K -35K
4000 K -40K

Beam Spread Reflector (specify one to ship with fixture)

20° spot -20D
40° flood -40D
60° wide flood -60D

OPTIONS Specify by adding to the product code.

Dimmable standard driver is dimmable to 10% with ELV dimmer on 120-volt track only. Dimming not available on 277-volt track.

Dimmable to 1% with Lutron driver controlled by incandescent dimmer on 120-volt service only; not available on 277-volt track - LU-DM1

60-amp adapter required for fixtures to be used on DoubleLine-50, AutoTrak-50 Upline-50 or AutoBus-120 track systems (fixture's appearance remains the same) - 1C

277-volt adapter required for fixtures to be used on HighLine or AutoBus-277 track systems. Note: Fixtures on 277-volt track cannot be dimmed and do not include an on-off switch. - HC

matte black housing finish - BLK

Industrial Silver housing finish - SIL

custom color paint housing finish identify color in specification - CC

EXTRA REFLECTORS Specify as separate line items.

20° spot reflector XSM-REF20
40° flood reflector XSM-REF40
60° wide flood reflector XSM-REF60

OPTICAL ACCESSORIES ▼ See next page



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OPTICAL ACCESSORIES

Specify as separate line items.

All are 2 3/4" (70mm) dia. Lenses and filters are glass; screens are aluminum.

diffuse glass	DGS/2.75
prismatic lens (Solite)	PLS/2.75
55° spread lens	LENS/2.75
40° x 70° spread lens	LENS/2.75-4070
beam smoother included with fixture	CLR/2.75
color filters	
Daylight Blue	DAY/2.75
Surprise Pink	PNK/2.75
amber	AMB/2.75
blue	BLU/2.75
green	GRN/2.75
red	RED/2.75
33% light reduction screen	SCR33/2.75
50% light reduction screen	SCR50/2.75

PHOTOMETRIC REPORT (tested per IESNA LM-79-2008)

Data prorated from Verification Services Report No. 331261. Original test report furnished upon request.

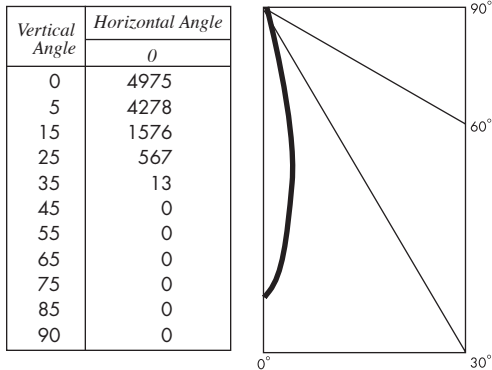
Luminaire track-mounted LED accent light with a 20° reflector and black lens holder (NO LENS)

Lamp Xicato XSM LED Module, 1500 lumens, 3000K

Lamp Life rated 50,000 hours based on L70/B50 criteria. LM80 report by LED manufacturer furnished upon request

Luminaire Light Output 1146 lumens

CANDLEPOWER DISTRIBUTION (Candela)



DRIVER INFORMATION

(UL Class 2, dry and damp location)

Dimmable to 10% with trailing edge (ELV) dimmers

Voltage	120	277
Input Watts (700A/1000A/1000/1500/2100 lumens)	16/21/15/23/26	16/21/15/23/26
Input Current (A) (700A/1000A/1000/1500/2100 lumens)	.13/.18/.13/.19/.22	.06/.08/.05/.08/.09
Output Current (mA)	500-1050	500-1050
Min. Power Factor	0.99	0.99
Operating Temperature Range (F)	-13 to 122	-13 to 122

LUMINAIRE LIGHT OUTPUT AND EFFICACY

LED Module Type	Luminaire Light Output	Luminaire Efficacy (lms/watt)	System Wattage
700 Lumens Artist	516*	32	16*
1000 Lumens Artist	653*	31	21*
1000 Lumens standard	721*	48	15
1500 Lumens standard & Vibrant	1146*	50	23*
2100 Lumens standard	1455*	56	26

*estimated values

LUMINANCE DATA

Vertical Angle	Candelam ²
45	3076
55	1759
65	1014
75	0
85	0

LIGHT OUTPUT MULTIPLIER

700 lumens Artist	1000 lumens Artist	1000 lumens standard	1500 lumens standard & Vibrant	2100 lumens
.45 (estimated)	.57 (estimated)	.63 (estimated)	1	1.27 (estimated)

MINIMAX™ LED O LH T4

TRACK
FIXTURES
11-101

track mounted LED accent light (no cross baffle)

FEATURES

MiniMax LED O LH is a track mounted accent light powered by one of a number of Xicato LED modules – including Artist Series and Vibrant Series modules – all of which are distinguished by extraordinary color consistency (within 1x2-step MacAdam ellipse). See tables on the reverse for wattages and efficacies.

With a standard track adapter, luminaire may be powered by one of eighteen 20-amp 120-volt track systems. With optional track adapters, luminaire may be powered by one of sixteen 50 or 60-amp 120-volt track systems or one of six 277-volt track systems.

Luminaire, on 120-volt track only, may be dimmed to 10% by an electronic low voltage (ELV) dimmer.

Beam spread is changed by removing the spring-mounted lens holder assembly, replacing one 'twist and lock' reflector with another, and re-inserting the lens holder assembly. Luminaire is ordered with a single reflector; one or both of the other reflectors may be ordered as accessories.

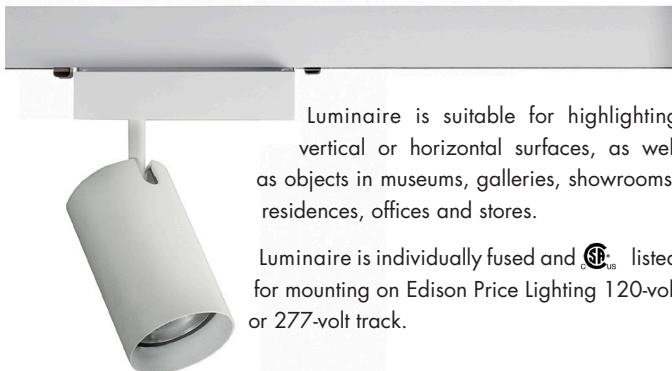
An on-off rocker switch, mounted flush in the circular top of the luminaire, is included standard on luminaires equipped for 120 volt service only.

A concealed swivel provides 385° horizontal rotation and vertical adjustment from 0° to 90°. The swivel is permanently tensioned, allowing the luminaire to remain fixed at any angle. Luminaire can be locked in place by depressing a hinged ('lever lock') bar so that it lies flush with the top of the housing. Lifting the lever lock frees the swivel.


Lens holder assembly accepts one or two of a number of Optical Accessories including spread lenses and color filters. Complimentary Beam Smoother is included. Note that, for enhanced efficiency, cross-baffles are not included. Lens holder assembly is spring-mounted for easy removal and adjustment.

MiniMax luminaires have seamless aluminum housings and cast aluminum tops for lightweight durability and heat dissipation. Standard finish is matte white; also available in black and silver. A white switch is provided with white luminaires and a black switch with black or silver luminaires. For custom color luminaires (CC) specifier must indicate white or black switch.

APPLICATIONS

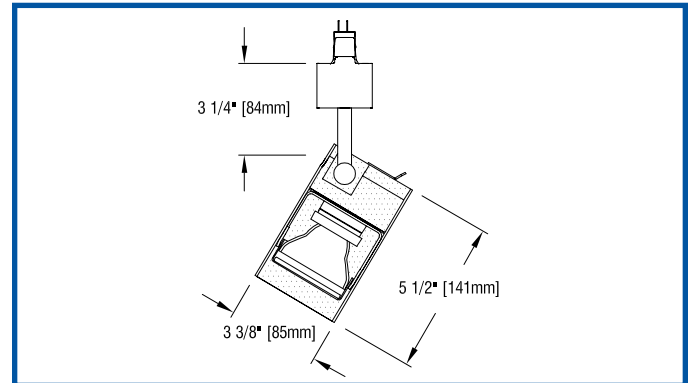


Luminaire is suitable for highlighting vertical or horizontal surfaces, as well as objects in museums, galleries, showrooms, residences, offices and stores.

Luminaire is individually fused and  listed for mounting on Edison Price Lighting 120-volt or 277-volt track.

Fixture Spacing Requirements The track adapters of MiniMax LED's are 8" long. For this reason they cannot be mounted closer than 8 1/4" on center and they cannot be used with any of our three Unicep single-fixture track units.

For the outlet box mounted version of this luminaire, see **MiniMax LED O LH-OBM**.



PRODUCT CODE

For complete product code, list basic unit and select one item from each following box.

Basic Unit MM-XSM2-O-LH

Light Output

700 lumens / CRI 97 Artist L07A
1000 lumens / CRI 97 Artist L10A
1000 lumens / CRI 80+ L10S
1500 lumens / CRI 80+ Vibrant 3000K only L15V
1500 lumens / CRI 80+ L15S
2100 lumens / CRI 80+ L21S

Light Color

2700 K not available on 2100 lumen model -27K
3000 K -30K
3500 K -35K
4000 K -40K

Beam Spread Reflector (specify one to ship with fixture)

20° spot -20D
40° flood -40D
60° wide flood -60D

OPTIONS Specify by adding to the product code.

Dimmable standard driver is dimmable to 10% with ELV dimmer on 120-volt track only. Dimming not available on 277-volt track.

Dimmable to 1% with Lutron driver controlled by incandescent dimmer on 120-volt service only; not available on 277-volt track - LU-DM1

60-amp adapter required for fixtures to be used on DoubleLine-50, AutoTrak-50 Upline-50 or AutoBus-120 track systems (fixture's appearance remains the same) - 1C

277-volt adapter required for fixtures to be used on HighLine or AutoBus-277 track systems. Note: Fixtures on 277-volt track cannot be dimmed and do not include an on-off switch. - HC

matte black housing finish - BLK

Industrial Silver housing finish - SIL

custom color paint housing finish identify color in specification - CC

EXTRA REFLECTORS Specify as separate line items.

20° spot reflector XSM-REF20

40° flood reflector XSM-REF40

60° wide flood reflector XSM-REF60

OPTICAL ACCESSORIES ▼ See next page



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OPTICAL ACCESSORIES

Specify as separate line items.

All are 2 3/4" (70mm) dia. Lenses and filters are glass; screens are aluminum.

diffuse glass	DGS/2.75
prismatic lens (Solite)	PLS/2.75
55° spread lens	LENS/2.75
40° x 70° spread lens	LENS/2.75-4070
beam smoother included with fixture	CLR/2.75
color filters	
Daylight Blue	DAY/2.75
Surprise Pink	PNK/2.75
amber	AMB/2.75
blue	BLU/2.75
green	GRN/2.75
red	RED/2.75
33% light reduction screen	SCR33/2.75
50% light reduction screen	SCR50/2.75

PHOTOMETRIC REPORT (tested per IESNA LM-79-2008)

Data prorated from Verification Services Report No. 331261. Original test report furnished upon request.

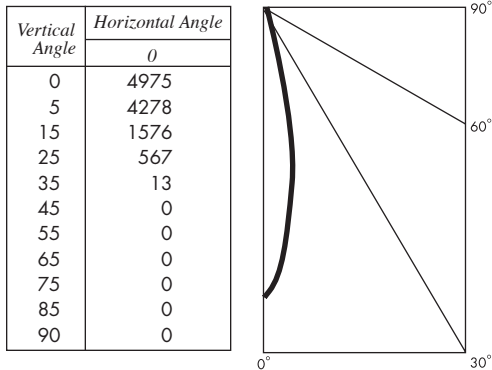
Luminaire track-mounted LED accent light with a 20° reflector and black lens holder (NO LENS)

Lamp Xicato XSM LED Module, 1500 lumens, 3000K

Lamp Life rated 50,000 hours based on L70/B50 criteria. LM80 report by LED manufacturer furnished upon request

Luminaire Light Output 1146 lumens

CANDLEPOWER DISTRIBUTION (Candela)



DRIVER INFORMATION

(UL Class 2, dry and damp location)

Dimmable to 10% with trailing edge (ELV) dimmers

Voltage	120	277
Input Watts (700A/1000A/1000/1500/2100 lumens)	16/21/15/23/26	16/21/15/23/26
Input Current (A) (700A/1000A/1000/1500/2100 lumens)	.13/.18/.13/.19/.22	.06/.08/.05/.08/.09
Output Current (mA)	500-1050	500-1050
Min. Power Factor	0.99	0.99
Operating Temperature Range (F)	-13 to 122	-13 to 122

LUMINAIRE LIGHT OUTPUT AND EFFICACY

LED Module Type	Luminaire Light Output	Luminaire Efficacy (lms/watt)	System Wattage
700 Lumens Artist	516*	32	16*
1000 Lumens Artist	653*	31	21*
1000 Lumens standard	721*	48	15
1500 Lumens standard & Vibrant	1146*	50	23*
2100 Lumens standard	1455*	56	26

*estimated values

LUMINANCE DATA

Vertical Angle	Candelam ²
45	3076
55	1759
65	1014
75	0
85	0

LIGHT OUTPUT MULTIPLIER

700 lumens Artist	1000 lumens Artist	1000 lumens standard	1500 lumens standard & Vibrant	2100 lumens
.45 (estimated)	.57 (estimated)	.63 (estimated)	1	1.27 (estimated)

MINIMAX™ LED O LH T5

TRACK
FIXTURES
11-101

track mounted LED accent light (no cross baffle)

FEATURES

MiniMax LED O LH is a track mounted accent light powered by one of a number of Xicato LED modules – including Artist Series and Vibrant Series modules – all of which are distinguished by extraordinary color consistency (within 1x2-step MacAdam ellipse). See tables on the reverse for wattages and efficacies.

With a standard track adapter, luminaire may be powered by one of eighteen 20-amp 120-volt track systems. With optional track adapters, luminaire may be powered by one of sixteen 50 or 60-amp 120-volt track systems or one of six 277-volt track systems.

Luminaire, on 120-volt track only, may be dimmed to 10% by an electronic low voltage (ELV) dimmer.

Beam spread is changed by removing the spring-mounted lens holder assembly, replacing one 'twist and lock' reflector with another, and re-inserting the lens holder assembly. Luminaire is ordered with a single reflector; one or both of the other reflectors may be ordered as accessories.

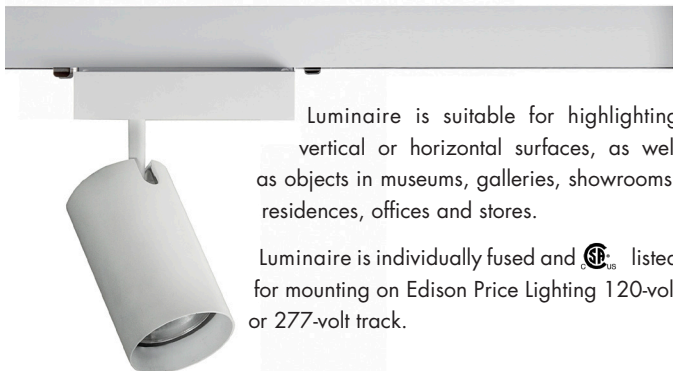
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A concealed swivel provides 385° horizontal rotation and vertical adjustment from 0° to 90°. The swivel is permanently tensioned, allowing the luminaire to remain fixed at any angle. Luminaire can be locked in place by depressing a hinged ('lever lock') bar so that it lies flush with the top of the housing. Lifting the lever lock frees the swivel.


Lens holder assembly accepts one or two of a number of Optical Accessories including spread lenses and color filters. Complimentary Beam Smoother is included. Note that, for enhanced efficiency, cross-baffles are not included. Lens holder assembly is spring-mounted for easy removal and adjustment.

MiniMax luminaires have seamless aluminum housings and cast aluminum tops for lightweight durability and heat dissipation. Standard finish is matte white; also available in black and silver. A white switch is provided with white luminaires and a black switch with black or silver luminaires. For custom color luminaires (CC) specifier must indicate white or black switch.

APPLICATIONS

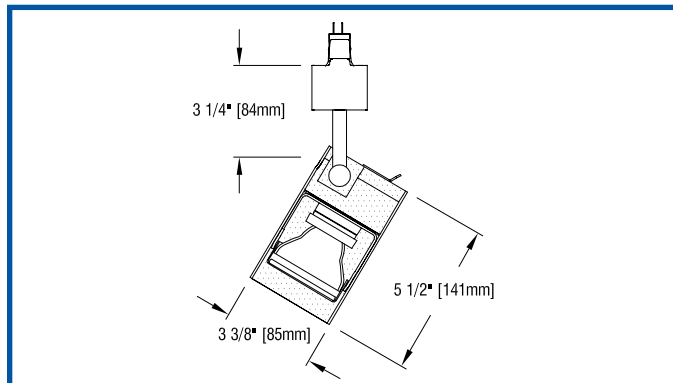


Luminaire is suitable for highlighting vertical or horizontal surfaces, as well as objects in museums, galleries, showrooms, residences, offices and stores.

Luminaire is individually fused and  listed for mounting on Edison Price Lighting 120-volt or 277-volt track.

Fixture Spacing Requirements The track adapters of MiniMax LED's are 8" long. For this reason they cannot be mounted closer than 8 1/4" on center and they cannot be used with any of our three Unicep single-fixture track units.

For the outlet box mounted version of this luminaire, see **MiniMax LED O LH-OBM**.



PRODUCT CODE

For complete product code, list basic unit and select one item from each following box.

Basic Unit MM-XSM2-O-LH

Light Output

700 lumens / CRI 97 Artist L07A
 1000 lumens / CRI 97 Artist L10A
 1000 lumens / CRI 80+ L10S
 1500 lumens / CRI 80+ Vibrant 3000K only L15V
 1500 lumens / CRI 80+ L15S
 2100 lumens / CRI 80+ L21S

Light Color

2700 K not available on 2100 lumen model -27K
 3000 K -30K
 3500 K -35K
 4000 K -40K

Beam Spread Reflector (specify one to ship with fixture)

20° spot -20D
 40° flood -40D
 60° wide flood -60D

OPTIONS Specify by adding to the product code.

Dimmable standard driver is dimmable to 10% with ELV dimmer on 120-volt track only. Dimming not available on 277-volt track.

Dimmable to 1% with Lutron driver controlled by incandescent dimmer on 120-volt service only; not available on 277-volt track - LU-DM1

60-amp adapter required for fixtures to be used on DoubleLine-50, AutoTrak-50 Upline-50 or AutoBus-120 track systems (fixture's appearance remains the same) - 1C

277-volt adapter required for fixtures to be used on HighLine or AutoBus-277 track systems. Note: Fixtures on 277-volt track cannot be dimmed and do not include an on-off switch. - HC

matte black housing finish - BLK

Industrial Silver housing finish - SIL

custom color paint housing finish identify color in specification - CC

EXTRA REFLECTORS Specify as separate line items.

20° spot reflector XSM-REF20

40° flood reflector XSM-REF40

60° wide flood reflector XSM-REF60

OPTICAL ACCESSORIES ▼ See next page



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OPTICAL ACCESSORIES

Specify as separate line items.

All are 2 3/4" (70mm) dia. Lenses and filters are glass; screens are aluminum.

diffuse glass	DGS/2.75
prismatic lens (Solite)	PLS/2.75
55° spread lens	LENS/2.75
40° x 70° spread lens	LENS/2.75-4070
beam smoother included with fixture	CLR/2.75
color filters	
Daylight Blue	DAY/2.75
Surprise Pink	PNK/2.75
amber	AMB/2.75
blue	BLU/2.75
green	GRN/2.75
red	RED/2.75
33% light reduction screen	SCR33/2.75
50% light reduction screen	SCR50/2.75

PHOTOMETRIC REPORT (tested per IESNA LM-79-2008)

Data prorated from Verification Services Report No. 331261. Original test report furnished upon request.

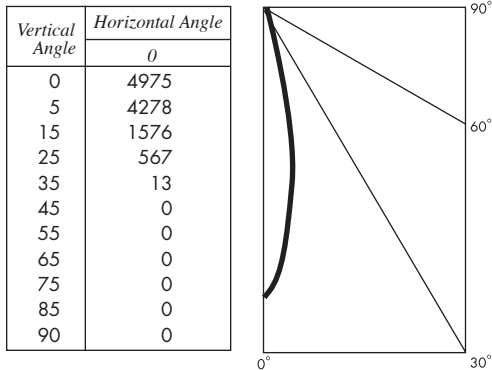
Luminaire track-mounted LED accent light with a 20° reflector and black lens holder (NO LENS)

Lamp Xicato XSM LED Module, 1500 lumens, 3000K

Lamp Life rated 50,000 hours based on L70/B50 criteria. LM80 report by LED manufacturer furnished upon request

Luminaire Light Output 1146 lumens

CANDLEPOWER DISTRIBUTION (Candela)



LUMINANCE DATA

Vertical Angle	Candelam ²
45	3076
55	1759
65	1014
75	0
85	0

DRIVER INFORMATION

(UL Class 2, dry and damp location)

Dimmable to 10% with trailing edge (ELV) dimmers

Voltage	120	277
Input Watts (700A/1000A/1000/1500/2100 lumens)	16/21/15/23/26	16/21/15/23/26
Input Current (A) (700A/1000A/1000/1500/2100 lumens)	.13/.18/.13/.19/.22	.06/.08/.05/.08/.09
Output Current (mA)	500-1050	500-1050
Min. Power Factor	0.99	0.99
Operating Temperature Range (F)	-13 to 122	-13 to 122

LUMINAIRE LIGHT OUTPUT AND EFFICACY

LED Module Type	Luminaire Light Output	Luminaire Efficacy (lms/watt)	System Wattage
700 Lumens Artist	516*	32	16*
1000 Lumens Artist	653*	31	21*
1000 Lumens standard	721*	48	15
1500 Lumens standard & Vibrant	1146*	50	23*
2100 Lumens standard	1455*	56	26

*estimated values

LIGHT OUTPUT MULTIPLIER

700 lumens Artist	1000 lumens Artist	1000 lumens standard	1500 lumens standard & Vibrant	2100 lumens standard
.45 (estimated)	.57 (estimated)	.63 (estimated)	1	1.27 (estimated)

SIGHTLINE® S

surface track system

TA1

TRACK
SYSTEMS
10-100

FEATURES

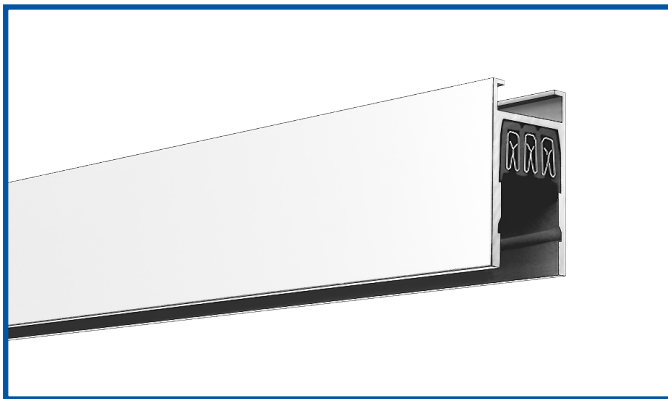
SightLine S is a surface mounted track system suitable for wiring with one or two 20 amp circuits. Tracks can be cut to length in the field. Tracks are mounted to ceilings or walls by means of heavy-duty hanger assemblies which separate the track only 1/4" from the mounting surface.

Extruded aluminum tracks, feeds and joints offer a number of benefits:

- elegant appearance, with hairline joints between components
- 6' spans between attachment points, rather than the usual 4'
- exceptional durability for heavy use and long life.

SightLine S is designed so that it completely contains the adapter of the fixture. This feature allows track fixtures to hang from simple 1/2" diameter stems free of unsightly screws, levers or knobs.

The SightLine S system consists of 15 components, including L, T and X joints and seven kinds of electrical feed. All outlet box feeds include a unique tool-free cover. Standard finish for SightLine S components is matte white; also available in black and Industrial Silver matte paint finishes (*see over*).



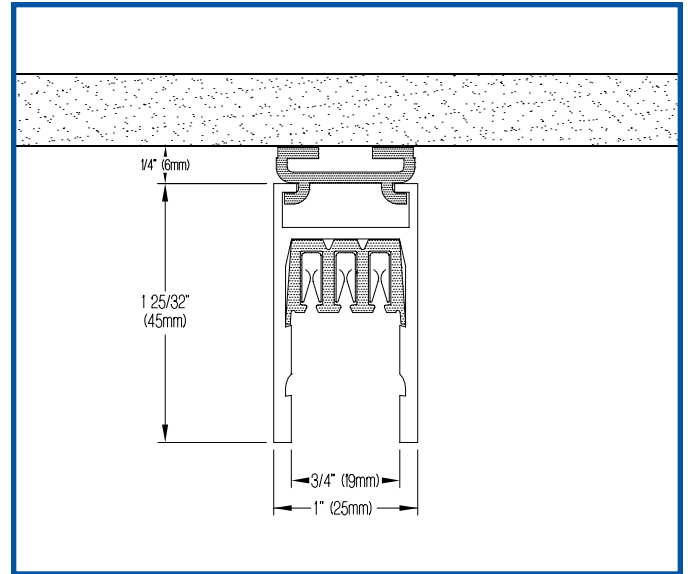
APPLICATIONS

System is recommended for museums, galleries, showrooms, retail stores, offices, schools or residences – wherever adjustable wallwash or accent lighting is required and especially where the lighting program is changed often.

SightLine S is designed to be mounted to ceilings and vertical surfaces and to support and power Edison Price Lighting track fixtures prepared for 20-amp, 120-volt service only.

System is 3-conductor, continuously grounded. It may be supplied by one or two individually switched, 120 volt, 20 amp branch circuits. Total capacity is 40 amps when supplied by a single phase, 120/240 volt, three-wire branch circuit. Prewired feeds use #12 stranded wire. Service wire brought directly to feed terminals must be #12 AWG solid wire.

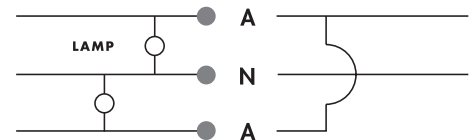
All components are cULus listed for indoor use only.



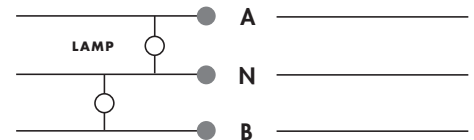
WIRING

SightLine can be wired in two ways.

Single Circuit limited to 120 volts, 20 amps, single phase.

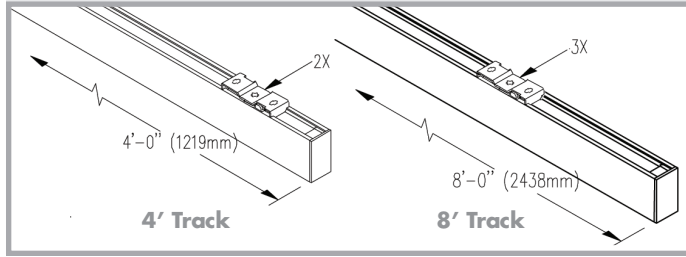


Two-Circuit limited to 20 amps each, 120/240 volts, split single phase.



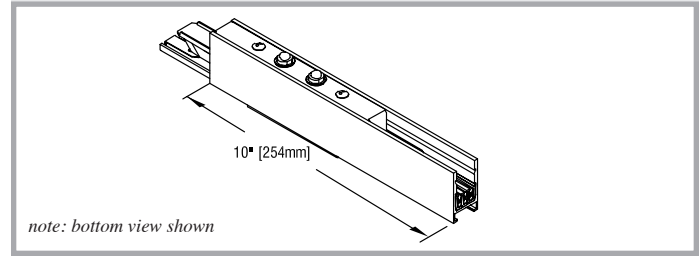
SIGHTLINE S

TRACK

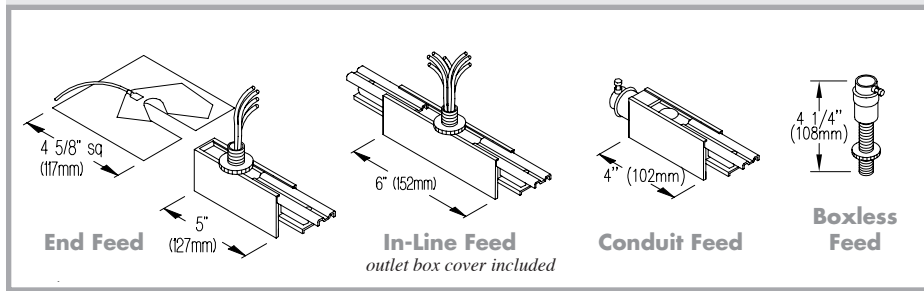


CURRENT LIMITERS

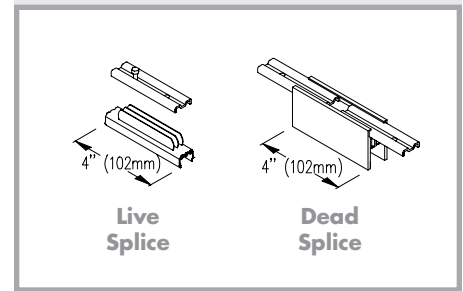
for use where required by local code



FEEDS

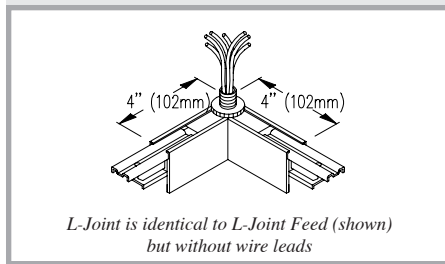


SPLICES



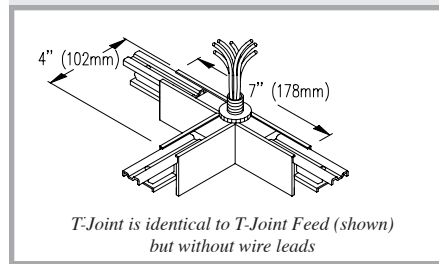
L-JOINT AND L-JOINT FEED

outlet box cover incl.



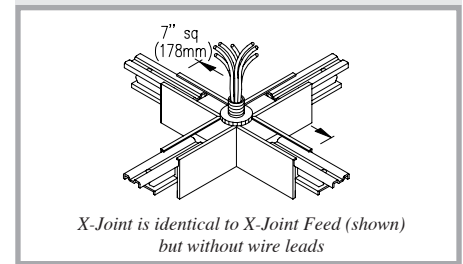
T-JOINT AND T-JOINT FEED

outlet box cover incl.



X-JOINT AND X-JOINT FEED

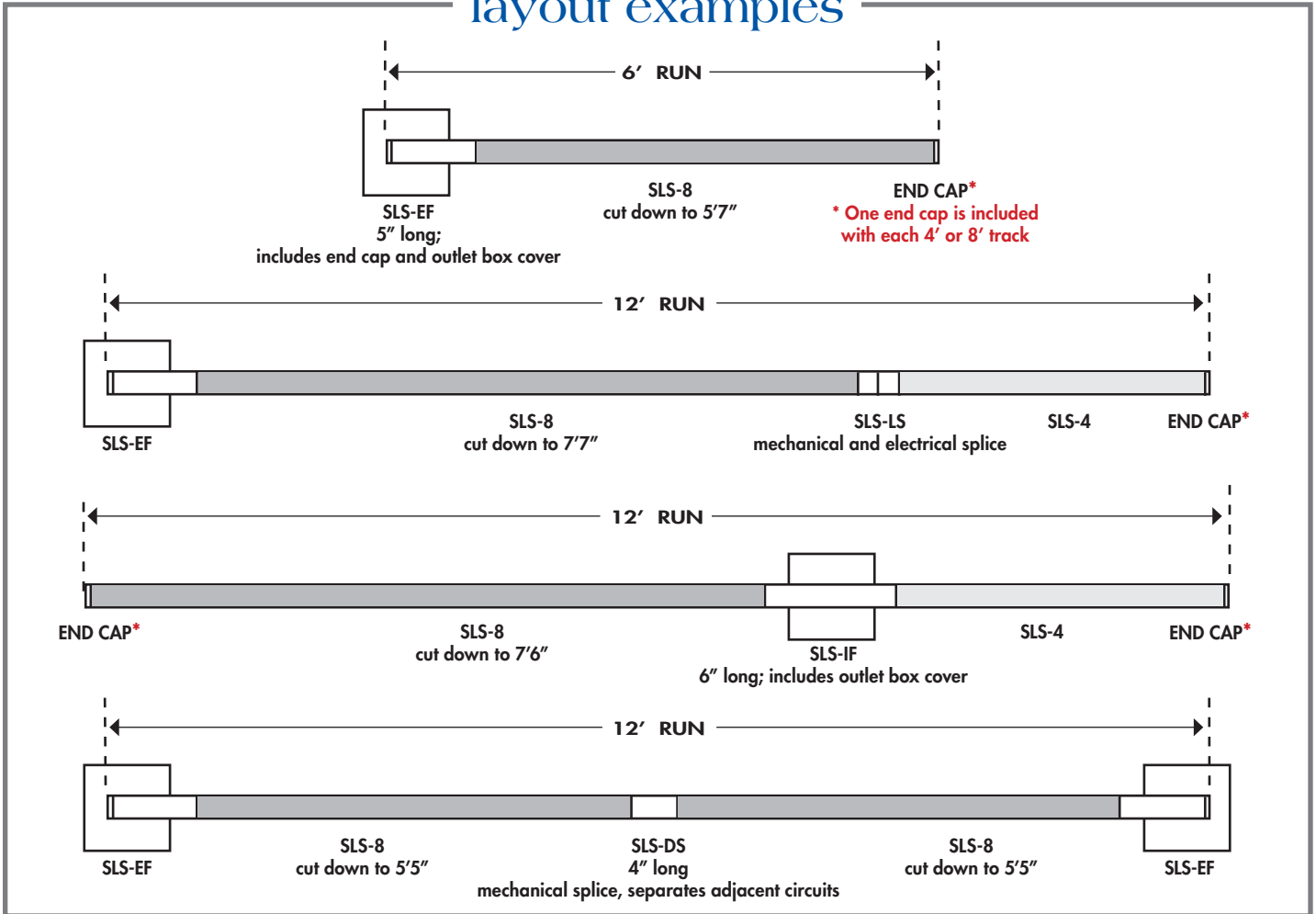
outlet box cover incl.



Component	Product Codes			Description
	White	Black	Silver	
4' Track	SLS/4	SLS/4B	SLS/4S	Individual 4'0" length of track with one end cap and two hangers.
8' Track*	SLS/8	SLS/8B	SLS/8S	Individual 8'0" length of track with one end cap and three hangers.
End Feed	SLS/EF	SLS/EFB	SLS/EFS	Prewired feed for electrical service from an outlet box at the end of a track. Includes outlet box cover.
In-Line Feed	SLS/IF	SLS/IFB	SLS/IFS	Prewired feed for electrical service between tracks, from an outlet box above. Includes outlet box cover.
Conduit Feed	SLS/CF	SLS/CFB	SLS/CFS	Feed for electrical service directly into end of track. Includes adapter for 3/8" conduit or BX.
Boxless Feed	SLS/BLF	SLS/BLFB	SLS/BLFS	Feed for electrical service directly through ceiling <u>without</u> an outlet box. For use with End Feed, In-Line Feed, L-Joint, T-Joint or X-Joint.
Live Splice	SLS/LS	SLS/LS	SLS/LS	Components for joining two tracks and connecting their electrical conductors. Fits within track.
Dead Splice	SLS/DS	SLS/DSB	SLS/DSS	Component for joining two tracks <u>without</u> connecting their electrical conductors. Adds 4" to length of track.
L-Joint	SLS/LJ	SLS/LJB	SLS/LJS	90° joint prewired to connect circuits of adjacent tracks. Includes loose wire leads and an outlet box cover which allow conversion to an electrical feed.
L-Joint Feed	SLS/LJF	SLS/LJFB	SLS/LJFS	90° joint prewired to connect circuits of adjacent tracks <u>and</u> provide electrical service. Incl. outlet box cover.
T-Joint	SLS/TJ	SLS/TJB	SLS/TJS	T-joint prewired to connect circuits of adjacent tracks. Includes loose wire leads and an outlet box cover which allow conversion to an electrical feed.
T-Joint Feed	SLS/TJF	SLS/TJFB	SLS/TJFS	T-joint prewired to connect circuits of adjacent tracks <u>and</u> provide electrical service. Incl. outlet box cover.
X-Joint	SLS/XJ	SLS/XJB	SLS/XJS	X-joint prewired to connect circuits of adjacent tracks. Includes loose wire leads and an outlet box cover which allow conversion to an electrical feed.
X-Joint Feed	SLS/XJF	SLS/XJFB	SLS/XJFS	X-joint prewired to connect circuits of adjacent tracks <u>and</u> provide electrical service. Incl. outlet box cover.
5A Limiter	SLS/LIM5	SLS/LIM5B	SLS/LIM5S	5-amp capacity current limiter with one reset button for each circuit. California Energy Commission approved.
10A Limiter	SLS/LIM10	SLS/LIM10B	SLS/LIM10S	10-amp capacity current limiter with one reset button for each circuit. California Energy Commission approved.

* Note: • 12' lengths of track are available on special order; contact factory.
• For wall-mounted installations specify "double hangers" and mount hangers at 24" intervals.

layout examples



more examples

REMEMBER: You can cut **Sightline S** to the lengths you need for your project.

20'5" RUN



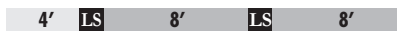
20'6" RUN



CIRCUIT 1&2

CIRCUIT 1&2

20'4" x 12'4" L-shape



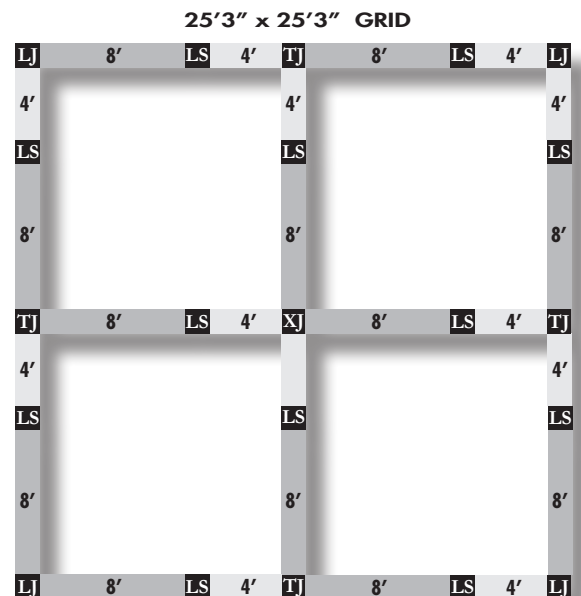
53'3" RUN



CIRCUIT 1&2

CIRCUIT 3&4

CIRCUIT 5&6



SIGHTLINE® S

surface track system

TA2

TRACK
SYSTEMS
10-100

FEATURES

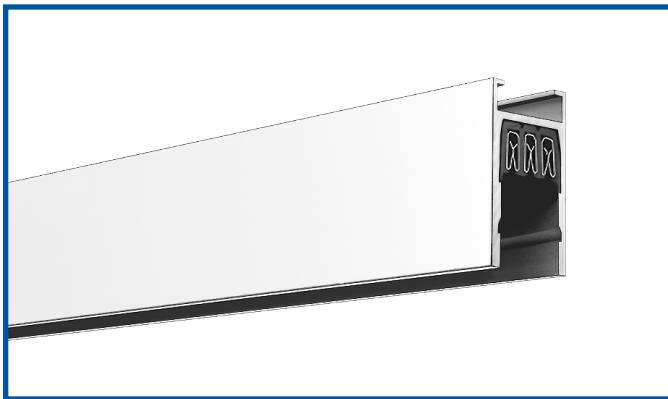
SightLine S is a surface mounted track system suitable for wiring with one or two 20 amp circuits. Tracks can be cut to length in the field. Tracks are mounted to ceilings or walls by means of heavy-duty hanger assemblies which separate the track only 1/4" from the mounting surface.

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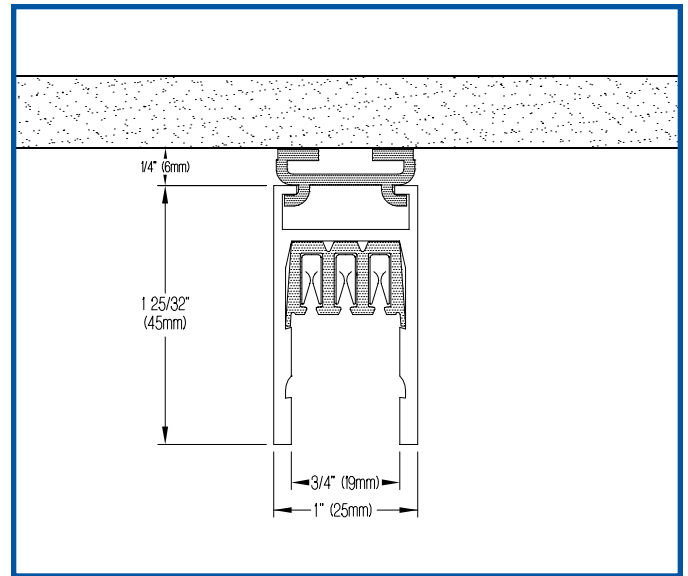
APPLICATIONS

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System is 3-conductor, continuously grounded. It may be supplied by one or two individually switched, 120 volt, 20 amp branch circuits. Total capacity is 40 amps when supplied by a single phase, 120/240 volt, three-wire branch circuit. Prewired feeds use #12 stranded wire. Service wire brought directly to feed terminals must be #12 AWG solid wire.

All components are cULus listed for indoor use only.



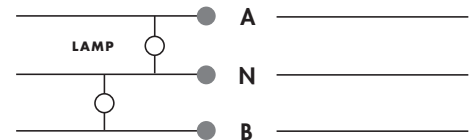
WIRING

SightLine can be wired in two ways.

Single Circuit limited to 120 volts, 20 amps, single phase.

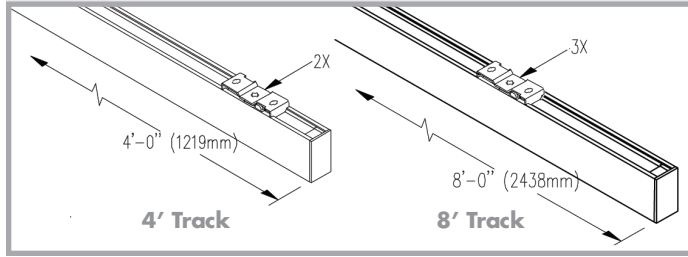


Two-Circuit limited to 20 amps each, 120/240 volts, split single phase.



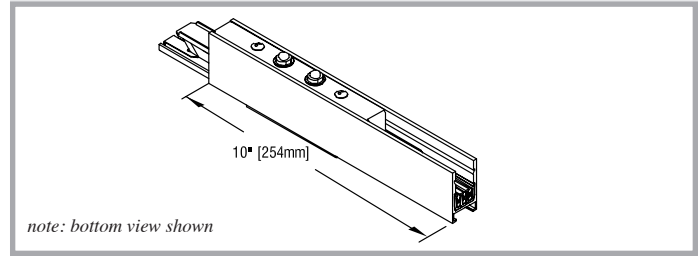
SIGHTLINE S

TRACK

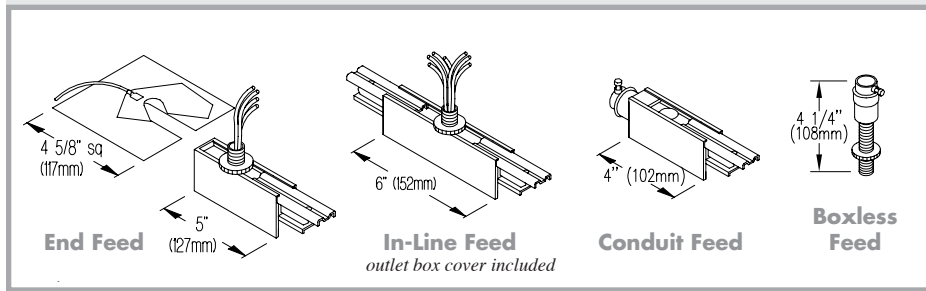


CURRENT LIMITERS

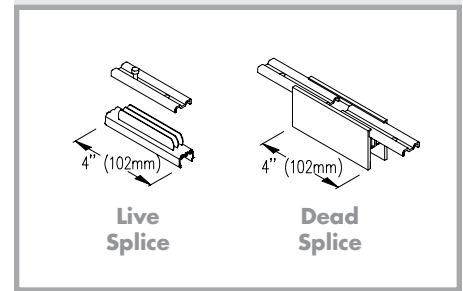
for use where required by local code



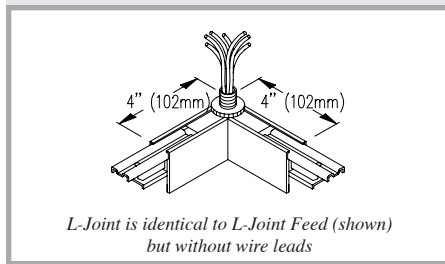
FEEDS



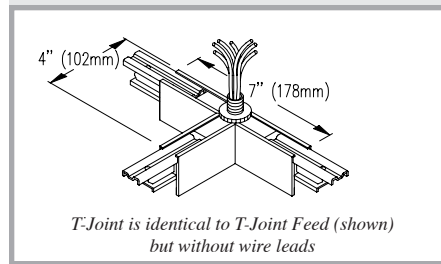
SPLICES



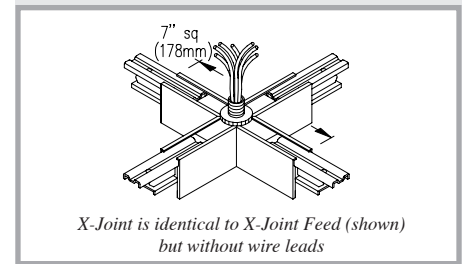
L-JOINT AND L-JOINT FEED outlet box cover incl.



T-JOINT AND T-JOINT FEED outlet box cover incl.



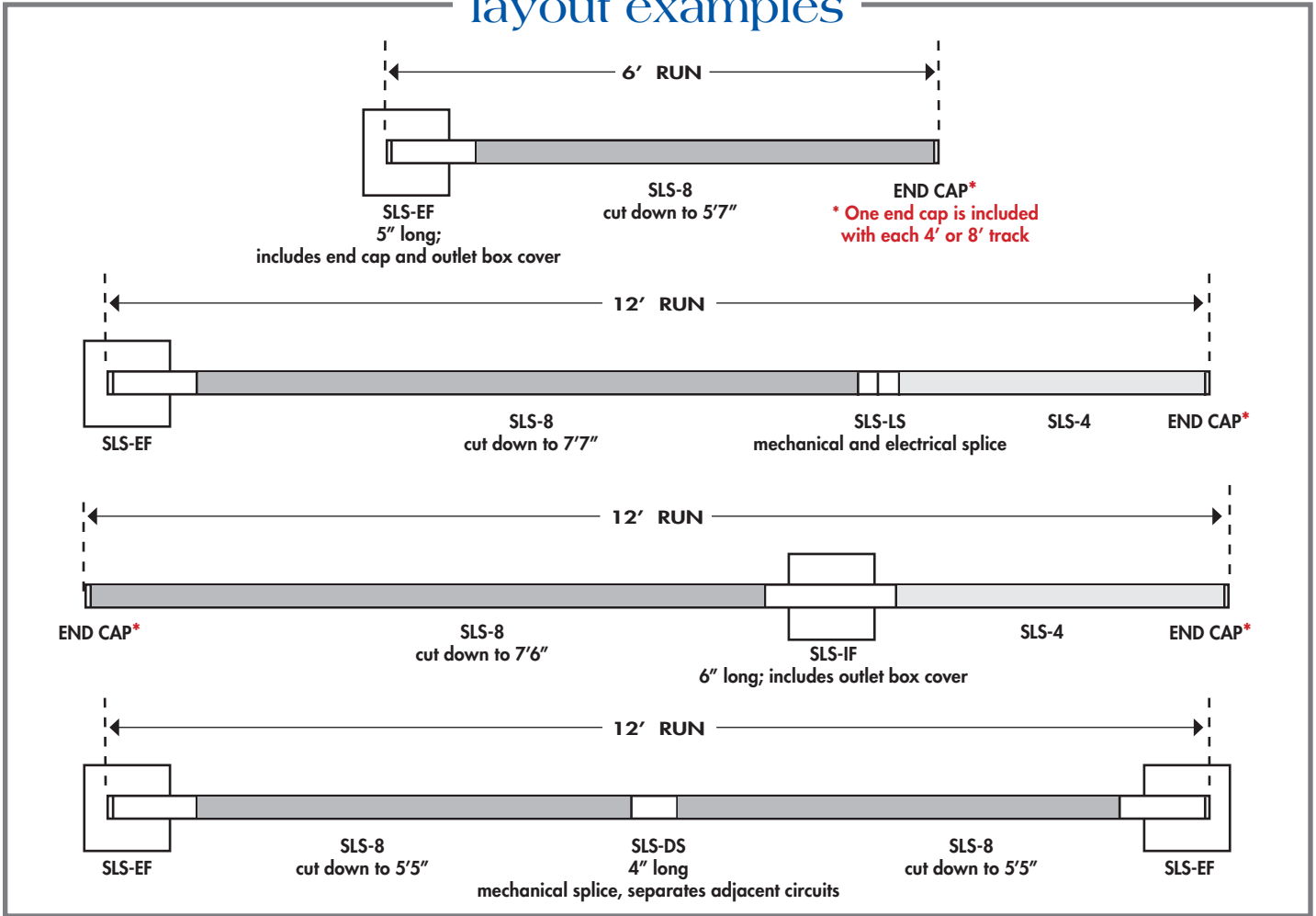
X-JOINT AND X-JOINT FEED outlet box cover incl.



Component	Product Codes			Description
	White	Black	Silver	
4' Track	SLS/4	SLS/4B	SLS/4S	Individual 4'0" length of track with one end cap and two hangers.
8' Track*	SLS/8	SLS/8B	SLS/8S	Individual 8'0" length of track with one end cap and three hangers.
End Feed	SLS/EF	SLS/EFB	SLS/EFS	Prewired feed for electrical service from an outlet box at the end of a track. Includes outlet box cover.
In-Line Feed	SLS/IF	SLS/IFB	SLS/IFS	Prewired feed for electrical service between tracks, from an outlet box above. Includes outlet box cover.
Conduit Feed	SLS/CF	SLS/CFB	SLS/CFS	Feed for electrical service directly into end of track. Includes adapter for 3/8" conduit or BX.
Boxless Feed	SLS/BLF	SLS/BLFB	SLS/BLFS	Feed for electrical service directly through ceiling <u>without</u> an outlet box. For use with End Feed, In-Line Feed, L-Joint, T-Joint or X-Joint.
Live Splice	SLS/LS	SLS/LS	SLS/LS	Components for joining two tracks and connecting their electrical conductors. Fits within track.
Dead Splice	SLS/DS	SLS/DSB	SLS/DSS	Component for joining two tracks <u>without</u> connecting their electrical conductors. Adds 4" to length of track.
L-Joint	SLS/LJ	SLS/LJB	SLS/LJS	90° joint prewired to connect circuits of adjacent tracks. Includes loose wire leads and an outlet box cover which allow conversion to an electrical feed.
L-Joint Feed	SLS/LJF	SLS/LJFB	SLS/LJFS	90° joint prewired to connect circuits of adjacent tracks <u>and</u> provide electrical service. Incl. outlet box cover.
T-Joint	SLS/TJ	SLS/TJB	SLS/TJS	T-joint prewired to connect circuits of adjacent tracks. Includes loose wire leads and an outlet box cover which allow conversion to an electrical feed.
T-Joint Feed	SLS/TJF	SLS/TJFB	SLS/TJFS	T-joint prewired to connect circuits of adjacent tracks <u>and</u> provide electrical service. Incl. outlet box cover.
X-Joint	SLS/XJ	SLS/XJB	SLS/XJS	X-joint prewired to connect circuits of adjacent tracks. Includes loose wire leads and an outlet box cover which allow conversion to an electrical feed.
X-Joint Feed	SLS/XJF	SLS/XJFB	SLS/XJFS	X-joint prewired to connect circuits of adjacent tracks <u>and</u> provide electrical service. Incl. outlet box cover.
5A Limiter	SLS/LIM5	SLS/LIM5B	SLS/LIM5S	5-amp capacity current limiter with one reset button for each circuit. California Energy Commission approved.
10A Limiter	SLS/LIM10	SLS/LIM10B	SLS/LIM10S	10-amp capacity current limiter with one reset button for each circuit. California Energy Commission approved.

* Note: • 12' lengths of track are available on special order; contact factory.
• For wall-mounted installations specify "double hangers" and mount hangers at 24" intervals.

layout examples



more examples

REMEMBER: You can cut **Sightline S** to the lengths you need for your project.

20'5" RUN



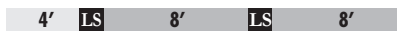
20'6" RUN



CIRCUIT 1&2

CIRCUIT 1&2

20'4" x 12'4" L-shape



53'3" RUN

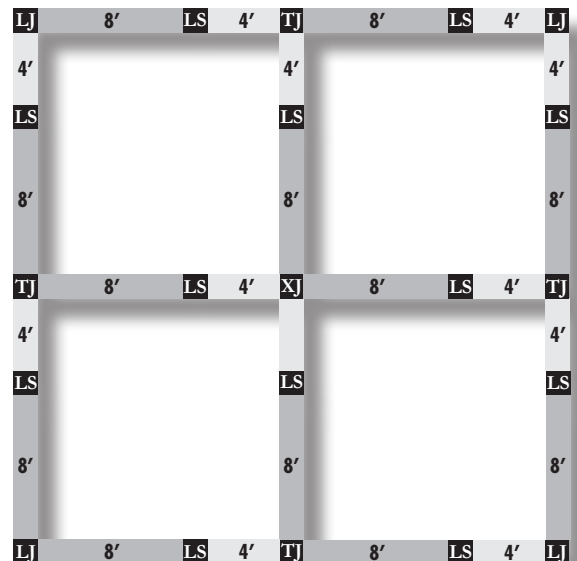


CIRCUIT 1&2

CIRCUIT 3&4

CIRCUIT 5&6

25'3" x 25'3" GRID



SIGHTLINE® P

pendant mounted track system

TB

TRACK
SYSTEMS
10-105

FEATURES

SightLine P is a pendant mounted track system suitable for wiring with one or two 20 amp circuits. Tracks can be cut to length in the field. Tracks are hung from ceilings by means of 1/2" or .675" outside diameter pendants.

Pendants of 1/2" OD can each contain four #12 feed wires (by others), sufficient for two 20 amp circuits; 3/8 IPS pendants (.675" OD) can each contain seven #12 feed wires (by others), sufficient for four 20 amp circuits.

Extruded aluminum tracks, feeds and joints offer a number of benefits:

- elegant appearance, with hairline joints between components
- 6' spans between attachment points, rather than the usual 4'
- exceptional durability for heavy use and long life.

SightLine P consists of 11 components (*see over*). Components are available in matte white, black and Industrial Silver paint finishes.

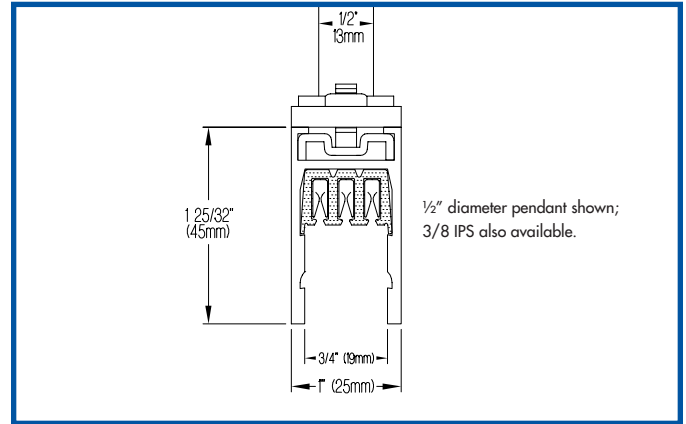


APPLICATIONS

System is recommended for museums, galleries, showrooms, retail stores, offices, schools or residences – wherever adjustable lighting is required and especially where the lighting program is changed often.

SightLine P is designed to be mounted to ceilings from a 4" x 2 1/8" deep octagonal outlet box with an 3/8 IPS stud that has been mounted securely to the ceiling structure. SightLine P is intended to support and power Edison Price Lighting track fixtures prepared for 20-amp, 120-volt service only.

System is 3-conductor, continuously grounded. It may be supplied by one or two individually switched, 120 volt, 20 amp branch circuits. Total capacity is 40 amps when supplied by a single phase, 120/240 volt, three-wire branch circuit. Service wire brought to feed terminals must be #12 AWG solid wire. All components are cULus listed for indoor use only.



COMPONENTS

► SightLine P consists of 11 components described on the reverse side.

► SightLine P pendants should be hung from 4" x 2 1/8" deep octagonal outlet boxes complete with 3/8 IPS studs (both by others) securely mounted to the ceiling structure.

PENDANTS

All pendants may be cut and rethreaded in the field.

18" pendant, white. 1/2" (13mm) OD; can contain four #12 wires (by others); 1/4-18 NPS thread	18P
same 18" pendant, black	18PB
same 18" pendant, Industrial Silver	18PS
36" pendant, white	36P
same 36" pendant, black	36PB
same 36" pendant, Industrial Silver	36PS
18" high capacity pendant, white. 3/8 IPS (.675"/17mm OD); can contain seven #12 wires (by others); 3/8-18 NPS thread	18PX
same 18" high capacity pendant, black	18PXB
same 18" high capacity pendant, Industrial Silver	18PXS
36" high capacity pendant, white	36PX
same 36" high capacity pendant, black	36PXB
same 36" high capacity pendant, Industrial Silver	36PXS

PENDANT HARDWARE

► All items below may be used with either 1/2" (13mm) or .675" (17mm) OD pendants.

► All items below are designed for use with 4" x 2 1/8" deep octagonal outlet boxes complete with 3/8 IPS studs (both by others) securely mounted to the ceiling structure.

outlet box cover kit, white. flat 4 1/2" (114mm)	OBC
same cover, black	OBCB
same cover, Industrial Silver	OBCS
canopy kit, white. 5" (127mm) dia x 1 5/8" (41mm) deep	CPY
same canopy, black	CPYB
same canopy, Industrial Silver	CPYS
swivel kit, white. 4 1/2" (114mm) dia; 45° max sloped ceiling	SVL
same swivel, black	SVLB
same swivel, Industrial Silver	SVLS

WIRING

Wiring preparations are identical to SightLine S. See wiring diagram on page 10-100.



TRACK

Hanger Plate Kit
one included with each 4' Track
two included with each 8' Track

4'-0" (1219mm) 8'-0" (2438mm)

4' Track **8' Track**

CURRENT LIMITERS

for use where required by local code

10" [254mm]

*note: bottom view shown;
cannot accept pendant*

FEEDS

End Feed **In-Line Feed** **Conduit Feed**

note: cannot accept pendant

SPLICES

Live Splice **Dead Splice**

JOINTS

L-Joint **T-Joint** **X-Joint**

Component	Product Codes			Description
	White	Black	Silver	
4' Track	SLP/4	SLP/4B	SLP/4S	Individual 4'0" length of track with one end cap and one hanger plate.
8' Track*	SLP/8	SLP/8B	SLP/8S	Individual 8'0" length of track with one end cap and two hanger plates.
End Feed	SLP/EF	SLP/EFB	SLP/EFS	Feed for electrical service through a pendant; for use at end of track run.
In-Line Feed	SLP/IF	SLP/IFB	SLP/IFS	Feed for electrical service through a pendant; for use at an intermediate location on track run.
Conduit Feed	SLP/CF	SLP/CFB	SLP/CFS	Feed for electrical service directly into end of track. Includes adapter for 3/4" conduit or BX.
Live Splice	SLP/LS	SLP/LS	SLP/LS	Components for joining two tracks and connecting their electrical conductors. Fits within track.
Dead Splice	SLP/DS	SLP/DSB	SLP/DSS	Component for joining two tracks <u>without</u> connecting their electrical conductors. Adds 4" to length of track.
L-Joint	SLP/LJ	SLP/LJB	SLP/LJS	90° joint prewired to connect circuits of adjacent tracks by means of removable 'jumper' wires. May also be used for electrical service through a pendant.
T-Joint	SLP/TJ	SLP/TJB	SLP/TJS	T-joint prewired to connect circuits of adjacent tracks by means of removable 'jumper' wires. May also be used for electrical service through a pendant.
X-Joint	SLP/XJ	SLP/XJB	SLP/XJS	X-joint prewired to connect circuits of adjacent tracks by means of removable 'jumper' wires. May also be used for electrical service through a pendant.
5A Limiter	SLP/LIM5	SLP/LIM5B	SLP/LIM5S	5-amp capacity current limiter with reset button for ea. circuit. California Energy Commission approved.
10A Limiter	SLP/LIM10	SLP/LIM10B	SLP/LIM10S	10-amp capacity current limiter with reset button for ea. circuit. California Energy Commission approved.

* Note: 12' lengths of track are available on special order; contact factory.

SIGHTLINE® S

surface track system

TC

TRACK
SYSTEMS
10-100

FEATURES

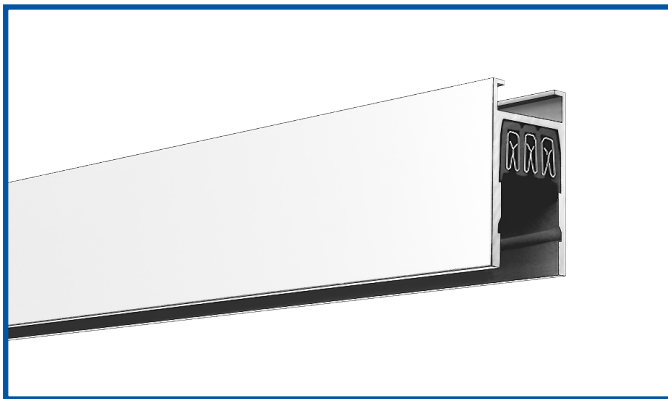
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Extruded aluminum tracks, feeds and joints offer a number of benefits:

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SightLine S is designed so that it completely contains the adapter of the fixture. This feature allows track fixtures to hang from simple 1/2" diameter stems free of unsightly screws, levers or knobs.

The SightLine S system consists of 15 components, including L, T and X joints and seven kinds of electrical feed. All outlet box feeds include a unique tool-free cover. Standard finish for SightLine S components is matte white; also available in black and Industrial Silver matte paint finishes (*see over*).



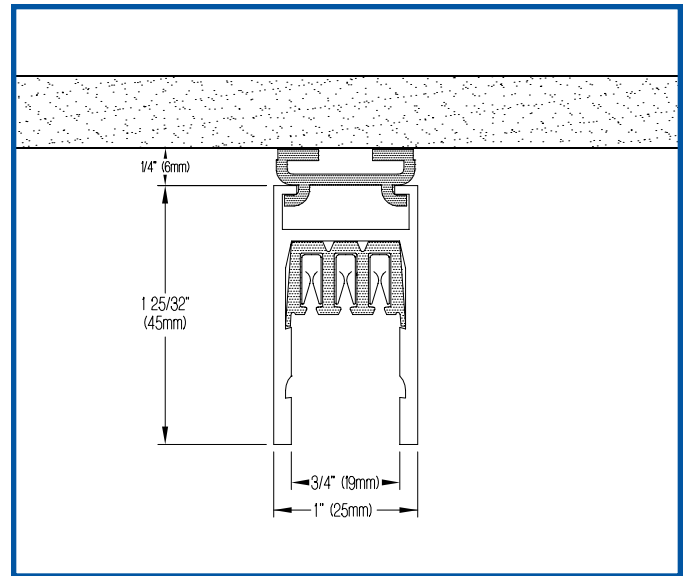
APPLICATIONS

System is recommended for museums, galleries, showrooms, retail stores, offices, schools or residences – wherever adjustable wallwash or accent lighting is required and especially where the lighting program is changed often.

SightLine S is designed to be mounted to ceilings and vertical surfaces and to support and power Edison Price Lighting track fixtures prepared for 20-amp, 120-volt service only.

System is 3-conductor, continuously grounded. It may be supplied by one or two individually switched, 120 volt, 20 amp branch circuits. Total capacity is 40 amps when supplied by a single phase, 120/240 volt, three-wire branch circuit. Prewired feeds use #12 stranded wire. Service wire brought directly to feed terminals must be #12 AWG solid wire.

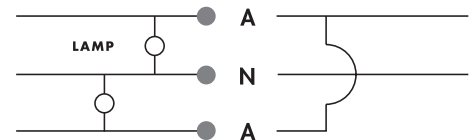
All components are cULus listed for indoor use only.



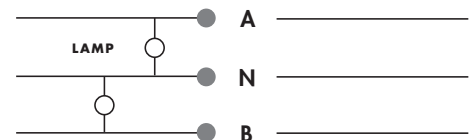
WIRING

SightLine can be wired in two ways.

Single Circuit limited to 120 volts, 20 amps, single phase.

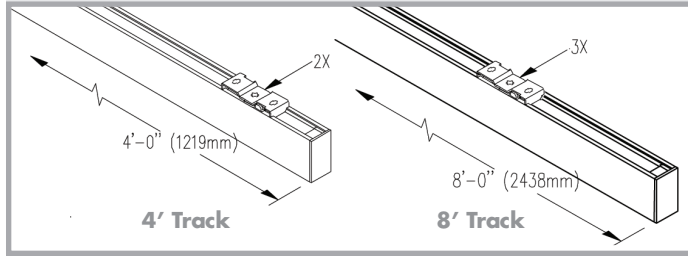


Two-Circuit limited to 20 amps each, 120/240 volts, split single phase.



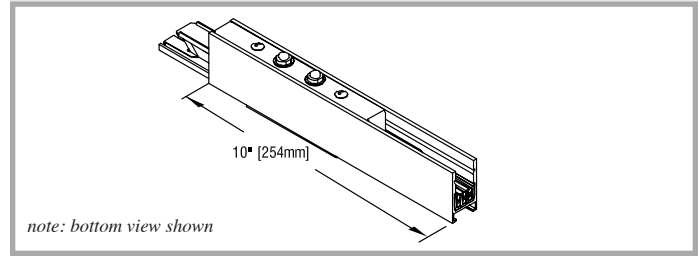
SIGHTLINE S

TRACK

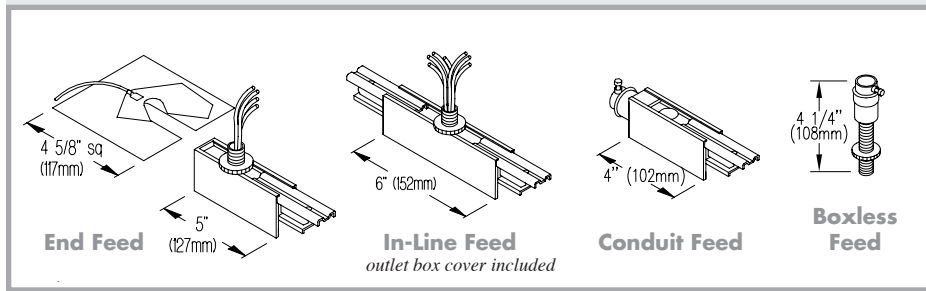


CURRENT LIMITERS

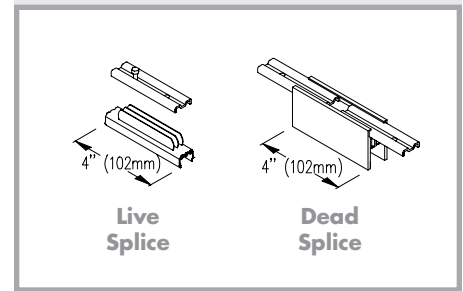
for use where required by local code



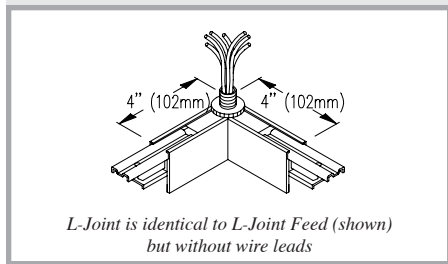
FEEDS



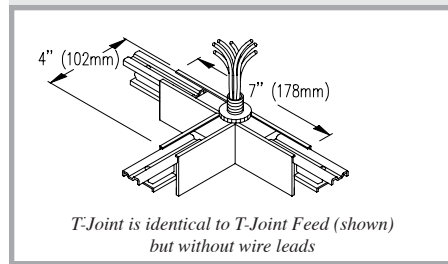
SPLICES



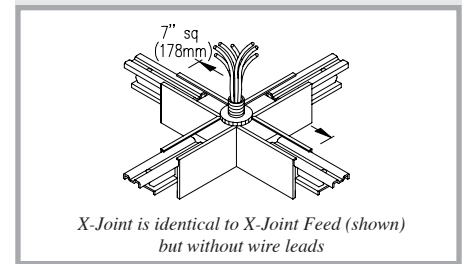
L-JOINT AND L-JOINT FEED outlet box cover incl.



T-JOINT AND T-JOINT FEED outlet box cover incl.



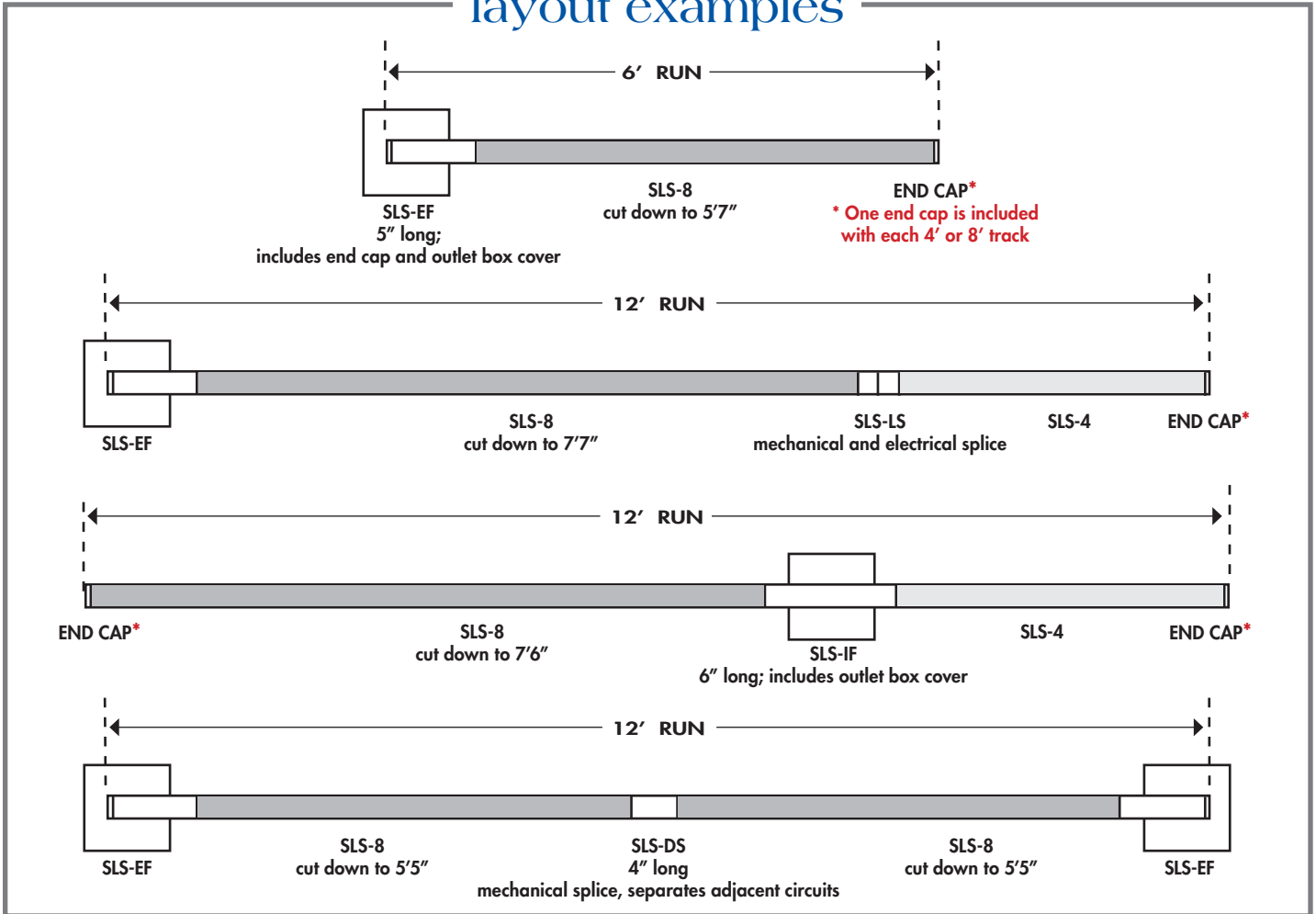
X-JOINT AND X-JOINT FEED outlet box cover incl.



Component	Product Codes			Description
	White	Black	Silver	
4' Track	SLS/4	SLS/4B	SLS/4S	Individual 4'0" length of track with one end cap and two hangers.
8' Track*	SLS/8	SLS/8B	SLS/8S	Individual 8'0" length of track with one end cap and three hangers.
End Feed	SLS/EF	SLS/EFB	SLS/EFS	Prewired feed for electrical service from an outlet box at the end of a track. Includes outlet box cover.
In-Line Feed	SLS/IF	SLS/IFB	SLS/IFS	Prewired feed for electrical service between tracks, from an outlet box above. Includes outlet box cover.
Conduit Feed	SLS/CF	SLS/CFB	SLS/CFS	Feed for electrical service directly into end of track. Includes adapter for 3/8" conduit or BX.
Boxless Feed	SLS/BLF	SLS/BLFB	SLS/BLFS	Feed for electrical service directly through ceiling <u>without</u> an outlet box. For use with End Feed, In-Line Feed, L-Joint, T-Joint or X-Joint.
Live Splice	SLS/LS	SLS/LS	SLS/LS	Components for joining two tracks and connecting their electrical conductors. Fits within track.
Dead Splice	SLS/DS	SLS/DSB	SLS/DSS	Component for joining two tracks <u>without</u> connecting their electrical conductors. Adds 4" to length of track.
L-Joint	SLS/LJ	SLS/LJB	SLS/LJS	90° joint prewired to connect circuits of adjacent tracks. Includes loose wire leads and an outlet box cover which allow conversion to an electrical feed.
L-Joint Feed	SLS/LJF	SLS/LJFB	SLS/LJFS	90° joint prewired to connect circuits of adjacent tracks <u>and</u> provide electrical service. Incl. outlet box cover.
T-Joint	SLS/TJ	SLS/TJB	SLS/TJS	T-joint prewired to connect circuits of adjacent tracks. Includes loose wire leads and an outlet box cover which allow conversion to an electrical feed.
T-Joint Feed	SLS/TJF	SLS/TJFB	SLS/TJFS	T-joint prewired to connect circuits of adjacent tracks <u>and</u> provide electrical service. Incl. outlet box cover.
X-Joint	SLS/XJ	SLS/XJB	SLS/XJS	X-joint prewired to connect circuits of adjacent tracks. Includes loose wire leads and an outlet box cover which allow conversion to an electrical feed.
X-Joint Feed	SLS/XJF	SLS/XJFB	SLS/XJFS	X-joint prewired to connect circuits of adjacent tracks <u>and</u> provide electrical service. Incl. outlet box cover.
5A Limiter	SLS/LIM5	SLS/LIM5B	SLS/LIM5S	5-amp capacity current limiter with one reset button for each circuit. California Energy Commission approved.
10A Limiter	SLS/LIM10	SLS/LIM10B	SLS/LIM10S	10-amp capacity current limiter with one reset button for each circuit. California Energy Commission approved.

* Note: • 12' lengths of track are available on special order; contact factory.
• For wall-mounted installations specify "double hangers" and mount hangers at 24" intervals.

layout examples



more examples

REMEMBER: You can cut **Sightline S** to the lengths you need for your project.

20'5" RUN



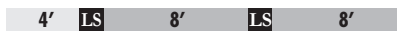
20'6" RUN



CIRCUIT 1&2

CIRCUIT 1&2

20'4" x 12'4" L-shape



53'3" RUN

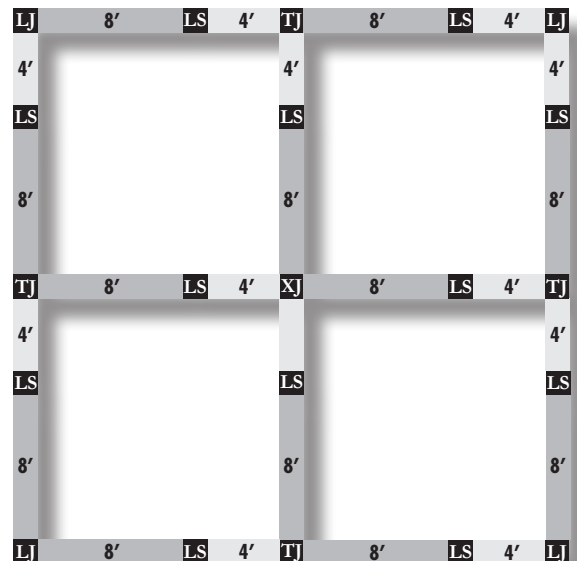


CIRCUIT 1&2

CIRCUIT 3&4

CIRCUIT 5&6

25'3" x 25'3" GRID



SIGHTLINE® S

surface track system

TD

TRACK
SYSTEMS
10-100

FEATURES

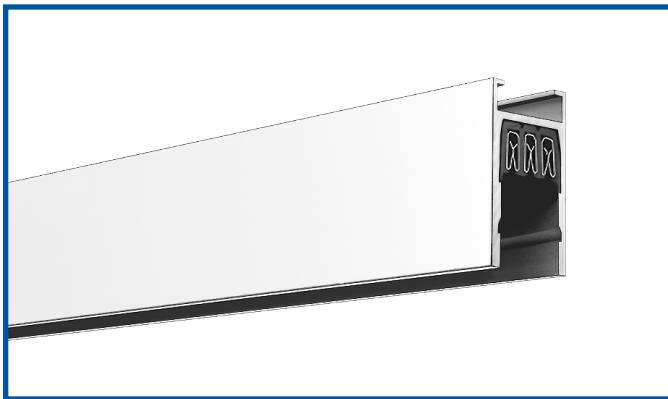
SightLine S is a surface mounted track system suitable for wiring with one or two 20 amp circuits. Tracks can be cut to length in the field. Tracks are mounted to ceilings or walls by means of heavy-duty hanger assemblies which separate the track only 1/4" from the mounting surface.

Extruded aluminum tracks, feeds and joints offer a number of benefits:

- elegant appearance, with hairline joints between components
- 6' spans between attachment points, rather than the usual 4'
- exceptional durability for heavy use and long life.

SightLine S is designed so that it completely contains the adapter of the fixture. This feature allows track fixtures to hang from simple 1/2" diameter stems free of unsightly screws, levers or knobs.

The SightLine S system consists of 15 components, including L, T and X joints and seven kinds of electrical feed. All outlet box feeds include a unique tool-free cover. Standard finish for SightLine S components is matte white; also available in black and Industrial Silver matte paint finishes (*see over*).



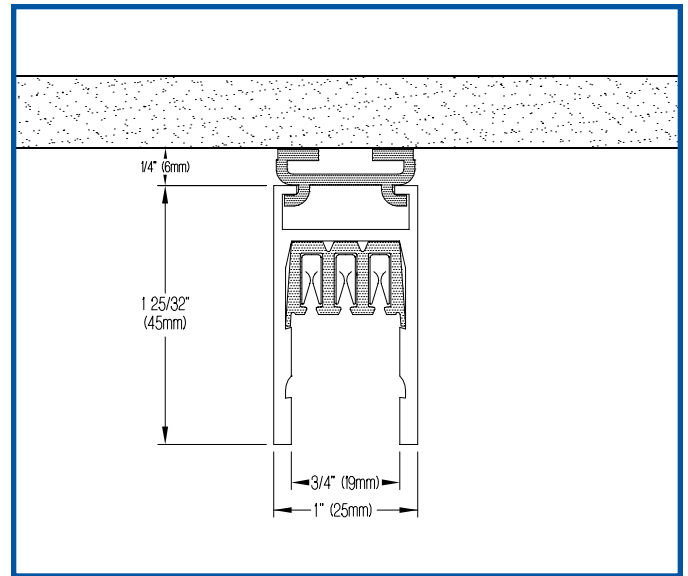
APPLICATIONS

System is recommended for museums, galleries, showrooms, retail stores, offices, schools or residences – wherever adjustable wallwash or accent lighting is required and especially where the lighting program is changed often.

SightLine S is designed to be mounted to ceilings and vertical surfaces and to support and power Edison Price Lighting track fixtures prepared for 20-amp, 120-volt service only.

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All components are cULus listed for indoor use only.



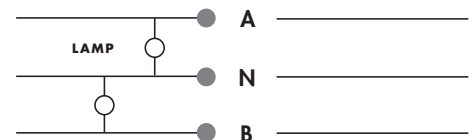
WIRING

SightLine can be wired in two ways.

Single Circuit limited to 120 volts, 20 amps, single phase.

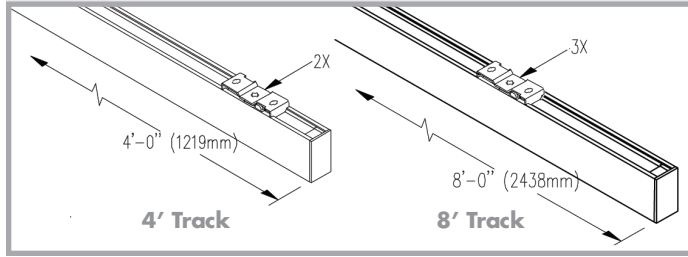


Two-Circuit limited to 20 amps each, 120/240 volts, split single phase.



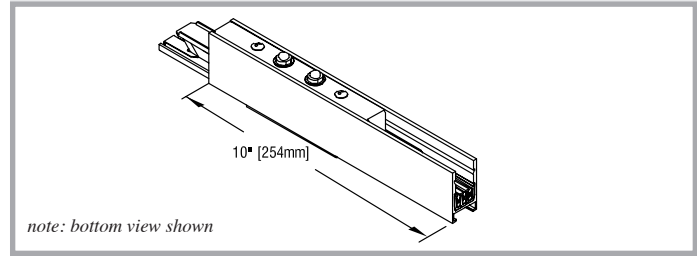
SIGHTLINE S

TRACK

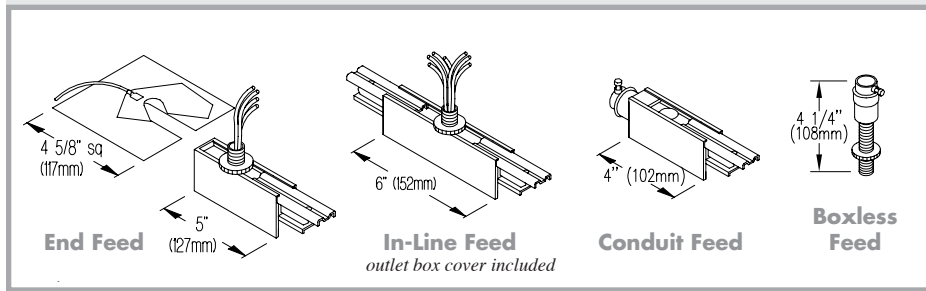


CURRENT LIMITERS

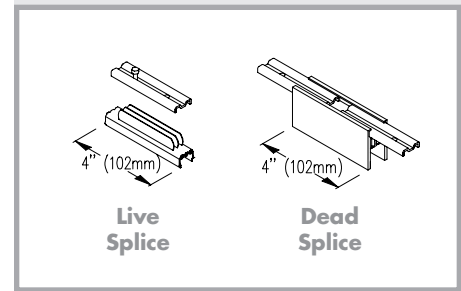
for use where required by local code



FEEDS

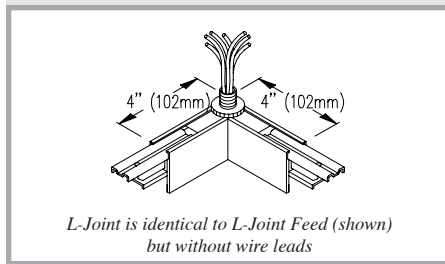


SPLICES



L-JOINT AND L-JOINT FEED

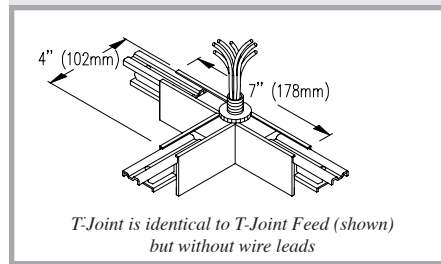
outlet box cover incl.



L-Joint is identical to L-Joint Feed (shown) but without wire leads

T-JOINT AND T-JOINT FEED

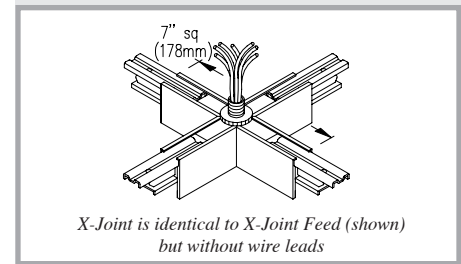
outlet box cover incl.



T-Joint is identical to T-Joint Feed (shown) but without wire leads

X-JOINT AND X-JOINT FEED

outlet box cover incl.

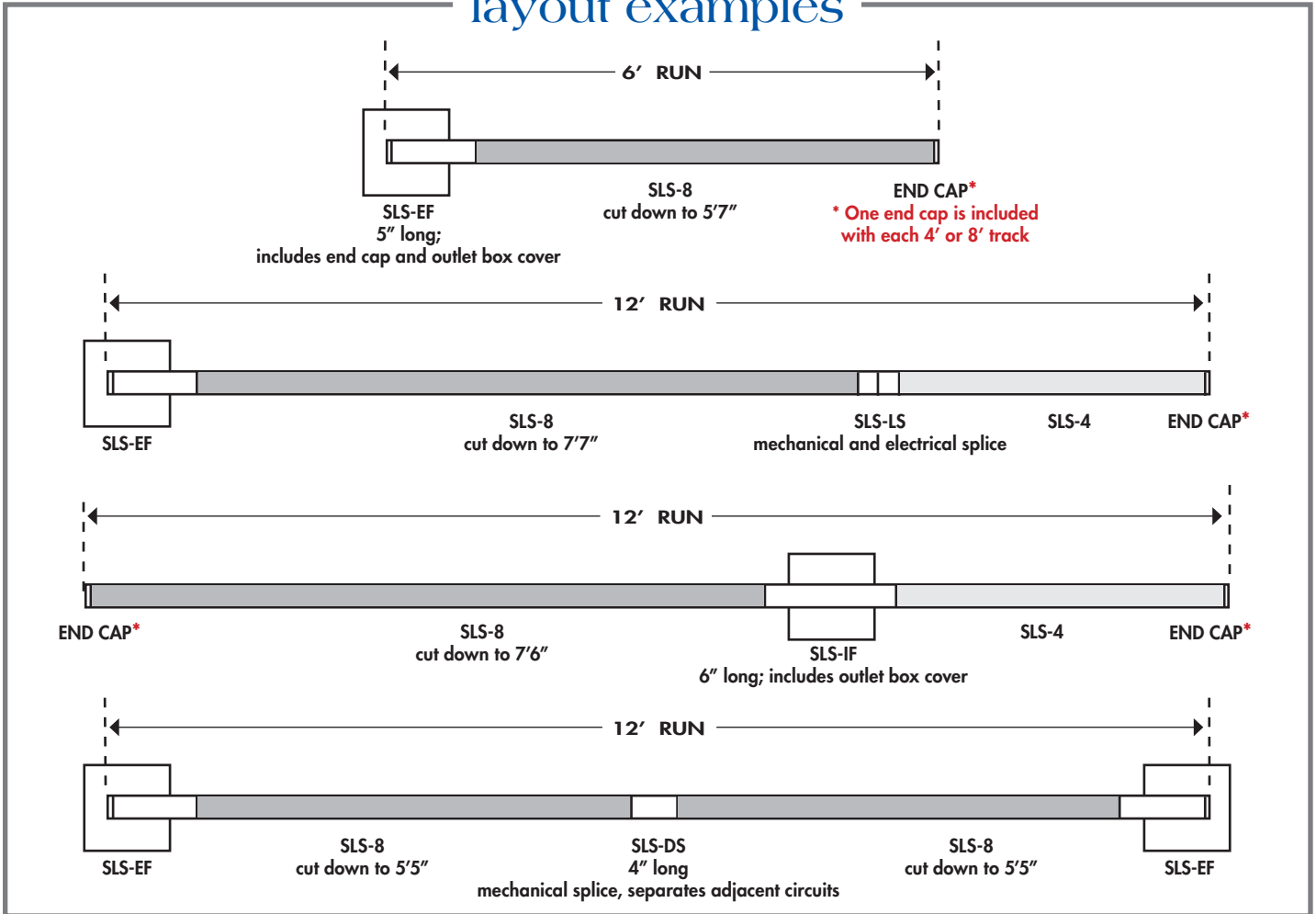


X-Joint is identical to X-Joint Feed (shown) but without wire leads

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	White	Black	Silver	
4' Track	SLS/4	SLS/4B	SLS/4S	Individual 4'0" length of track with one end cap and two hangers.
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more examples

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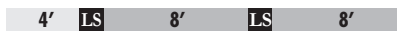
20'6" RUN



CIRCUIT 1&2

CIRCUIT 1&2

20'4" x 12'4" L-shape



53'3" RUN



CIRCUIT 1&2

CIRCUIT 3&4

CIRCUIT 5&6

25'3" x 25'3" GRID

