

Appendix A: Luminaire Cutsheet

Type P1

Catalog No. _____ **PANORAMA Medium Series**

Job Name _____ **Horizontal Lamp Cutoff Luminaire**

APPLICATIONS

- Parking Lots, Roadways, Walkways, Commercial Malls, Tennis Courts, Auto Lots and other outdoor environments.

CONSTRUCTION

- One-piece extruded aluminum housing.
- Corrosion resistant Duraplex II Bronze polyester powder coated finish.
- Optional designer finishes available. See inside back cover of ExcelLine catalog.
- Anodized aluminum door frame and lens assembly.
- A one-piece extruded silicone gasket to ensure a sealed enclosure.
- Clear tempered glass lens sealed by an extruded high-temperature gasket.

ELECTRICAL

- Porcelain spring loaded 4KV pulse rated socket mogul base.
- HPF CWA ballast.
- Patented socket holds glass end of lamp in alignment.
- Ballast tray with quick disconnect plug.
- Starting temperature: LX(HPS)-40° F/-40° C, MA(MH)-20° F/-30° C.
- **Pulse Start compatible.** See chart in the Energy Saving Products section.

OPTICS

- Field rotatable stepped or faceted reflector of anodized high-grade specular aluminum.
- Choice of four distribution patterns, IES Types 2, 3, 4 or 5.

MOUNTING

- Surface mounting 7" arm standard.
- 11" arm required for mounting at 90°.

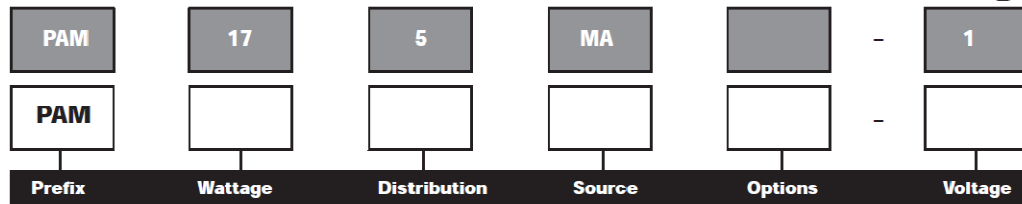
WARRANTY/LISTINGS

- UL 1598 listed for wet locations.
- Published five year limited warranty.

OPTIONS & ACCESSORIES — SEE END OF THIS SECTION.

PHOTOMETRICS — SEE REVERSE SIDE.

ORDERING GUIDE EXAMPLE: PAM175MA-1



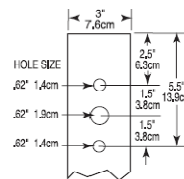
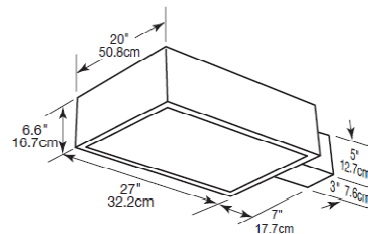
Prefix	Wattage	Distribution	Source	Options	Voltage
PAM	17=175(ED28) ¹ 25=250(ED28) ¹ 40=400(E/BT37) ²	2 3 4 5	MA LX	See options/acc's end of this section.	1=120 2=208 3=240 4=277 5=480 8=120-277
	15=150(ED23.5) ¹⁻³ 25=250(E18) ¹ 40=400(E18)				

Product information is subject to change without notice.

¹Type 5 only. ²Requires ED28 lamp for Types 4 & 5. ³HX/HPF ballast.



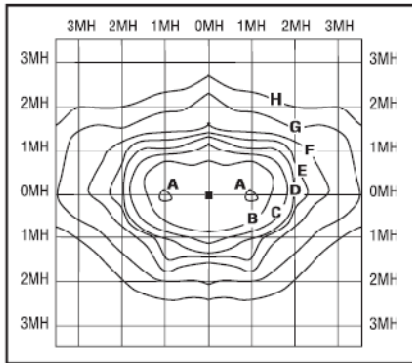
175 to 400 Watt (MA) Metal Halide
150 to 400 Watt (LX) High Pressure Sodium



EPA= 1.79



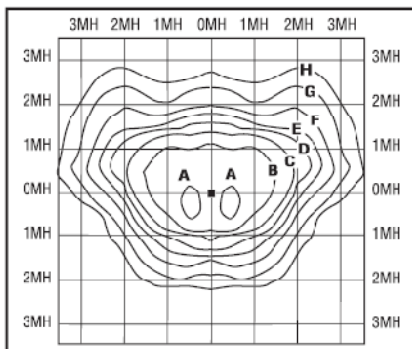
Panorama Medium Series



PAM402MA, Type 2
40000 Lumens, 400W MH, High Output, Position Oriented,
Clear Mogul Base, ED-37

HORIZONTAL FOOTCANDLES AT GROUND LEVEL
0.0 2 MH (0 DEG.) AIMING, 1.00 LAMP POSITION FACTOR

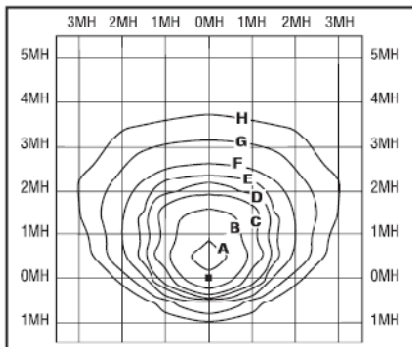
MH	A	B	C	D	E	F	G	H
30	5.00	2.50	1.50	1.00	0.75	0.50	0.25	0.12
35	3.67	1.84	1.10	0.73	0.55	0.37	0.18	0.09
40	2.81	1.41	0.84	0.56	0.42	0.28	0.14	0.07
45	2.22	1.11	0.67	0.44	0.33	0.22	0.11	0.05
25	7.20	3.60	2.16	1.44	1.08	0.72	0.36	0.17



PAM403MA, Type 3
40000 Lumens, 400W MH, High Output, Position Oriented,
Clear Mogul Base, ED-37

HORIZONTAL FOOTCANDLES AT GROUND LEVEL
0.0 2 MH (0 DEG.) AIMING, 1.00 LAMP POSITION FACTOR

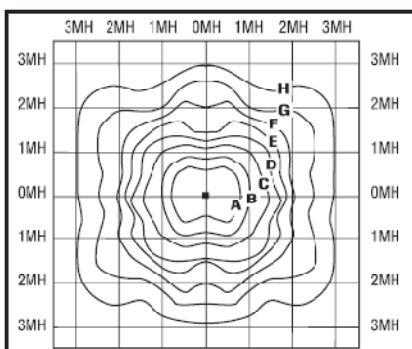
MH	A	B	C	D	E	F	G	H
30	5.00	2.50	1.50	1.00	0.75	0.50	0.25	0.12
35	3.67	1.84	1.10	0.73	0.55	0.37	0.18	0.09
40	2.81	1.41	0.84	0.56	0.42	0.28	0.14	0.07
45	2.22	1.11	0.67	0.44	0.33	0.22	0.11	0.05
25	7.20	3.60	2.16	1.44	1.08	0.72	0.36	0.17



PAM404MA, Type 4
40000 Lumens, 400W MH, High Output, Position Oriented
Clear Mogul Base, Reduced Envelope, ED-28

HORIZONTAL FOOTCANDLES AT GROUND LEVEL
0.0 2 MH (0 DEG.) AIMING, 1.00 LAMP POSITION FACTOR

MH	A	B	C	D	E	F	G	H
30	5.00	2.50	1.50	1.00	0.75	0.50	0.25	0.12
35	3.67	1.84	1.10	0.73	0.55	0.37	0.18	0.09
40	2.81	1.41	0.84	0.56	0.42	0.28	0.14	0.07
45	2.22	1.11	0.67	0.44	0.33	0.22	0.11	0.05
25	7.20	3.60	2.16	1.44	1.08	0.72	0.36	0.17



PAM405MA, Type 5
40000 Lumens, 400W MH, High Output, Position Oriented
Clear Mogul Base, Reduced Envelope, ED-28

HORIZONTAL FOOTCANDLES AT GROUND LEVEL
0.0 2 MH (0 DEG.) AIMING, 1.00 LAMP POSITION FACTOR

MH	A	B	C	D	E	F	G	H
30	4.00	2.50	1.50	1.00	0.75	0.50	0.25	0.12
35	2.94	1.84	1.10	0.73	0.55	0.37	0.18	0.09
40	2.25	1.41	0.84	0.56	0.42	0.28	0.14	0.07
45	1.78	1.11	0.67	0.44	0.33	0.22	0.11	0.05
25	5.76	3.60	2.16	1.44	1.08	0.72	0.36	0.17

Type W1

Type No. _____

Catalog No. _____

Job Name _____

GeoScapes™
Architectural Wall Mounted Luminaire
Series 1 Low Wattage

APPLICATIONS

- Ideal for Schools, Malls, Office Buildings, Industrial Parks, Hospitals, Sports Complexes, and Commercial Centers.

CONSTRUCTION

- Heavy duty die cast aluminum housing and hinged door.
- Corrosion resistant Duraplex II Winkle Bronze polyester powder coated finish.
- Optional designer finishes available. See inside back cover of ExceLine catalog.
- Stainless steel Torx head T25 tamperproof hardware.

ELECTRICAL

- Core/coil HID CWA or HX/HPF Class H(180° C) ballasts.
- Spring-loaded 4KV pulse rated HID socket-medium base.
- Electronic HPF 4-pin PLT ballasts: >.95PF, <10% THD.
- Hinged ballast tray with handle.
- Starting temperature: LX(HPS)-40° F/-40° C, MA(MH)-20° F/-30° C.
- **Pulse Start compatible.** See chart in the Energy Saving Products section.

OPTICS

- Full 90° horizontal cutoff on all distributions.
- Formed and polished and/or segmented specular aluminum reflectors.
- TruForm™ prismatic glass or tempered flat glass lens.
- Type 1, 2, 3, 3X, 4 or 4X distributions.

MOUNTING

- Direct or indirect orientation.
- Pre-mountable wall box with integral splice chamber.
- Built-in bubble level for accuracy.
- Hands-free fixture to wall positioning for wiring.

WARRANTY/LISTINGS

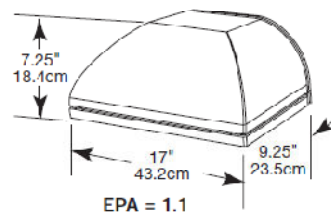
- UL 1598 wet location listed in either orientation.
- Published five year limited warranty.

OPTIONS & ACCESSORIES — SEE END OF THIS SECTION.

PHOTOMETRICS — SEE REVERSE SIDE.



50 to 175 Watt (MA) Metal Halide
50 to 150 Watt (LX) High Pressure Sodium
26 to 42 Watt (HF) Compact Fluorescent
200 Watt Incandescent



ORDERING GUIDE EXAMPLE: GS1D51MAL-6



GS	1	D	5	1	MA	L	6
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GS	1					L	
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Name	Shape	Orientation	Wattage	Distribution	Source	Lamp	Options	Voltage
GS= GeoScapes	1= Series 1	D= Down U= Up	5= 50(ED17) ¹ 7= 70(ED17) ¹ 10=100(ED17) ¹ 15=150(ED17) 17=175(ED17)	1= Very Wide Throw 2= Wide Throw 3= Medium Throw 3X= Medium Throw Maximum 4= Forward Throw 4X= Forward Throw Maximum	MA LX HF IN	L (Included and Installed)	See options/acc's end of section.	1=120 2=208 3=240 4=277 5=480 6=120/277 8=120-277

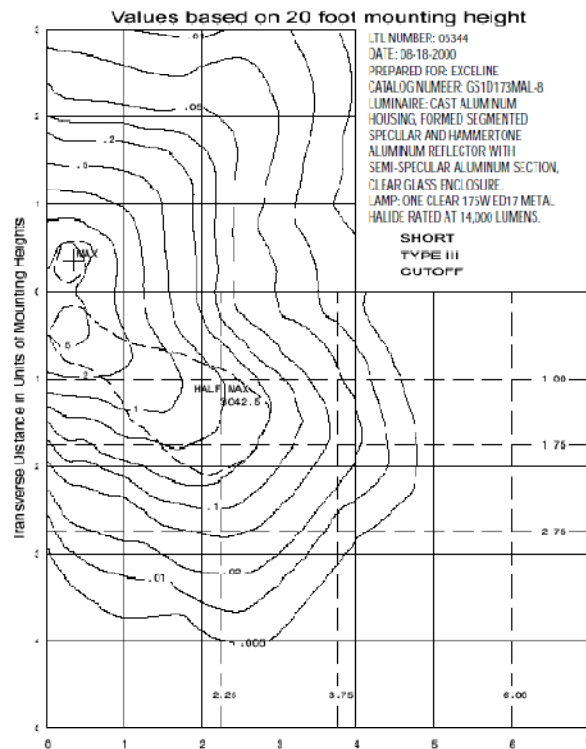
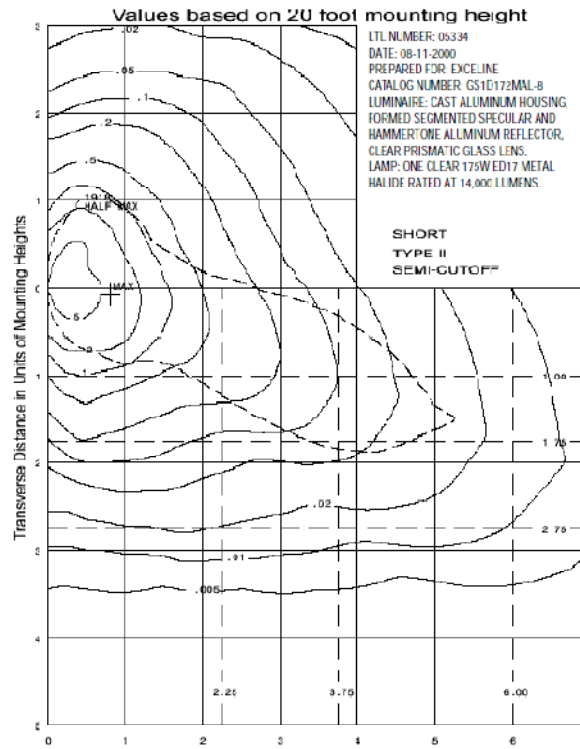
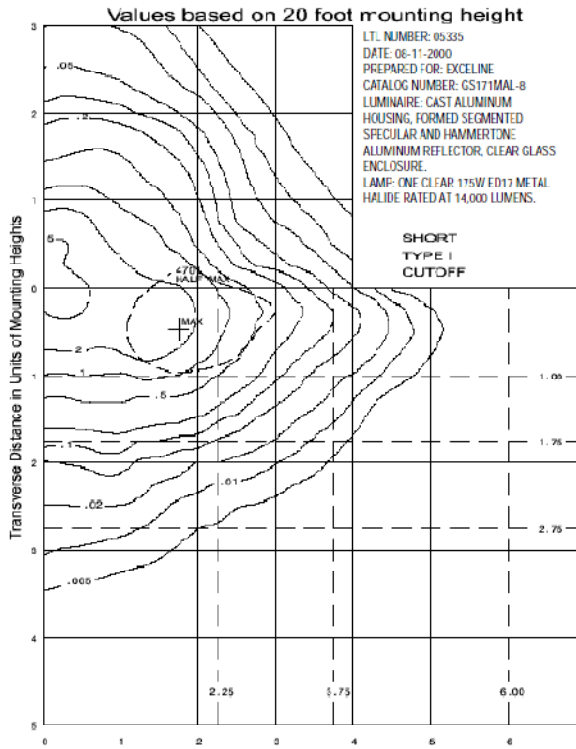
Patent Pending

Product information is subject to change without notice.

¹Voltage is 6(120/277) ballast only.
²Type 3 only. Example: GS1D323-IF-6



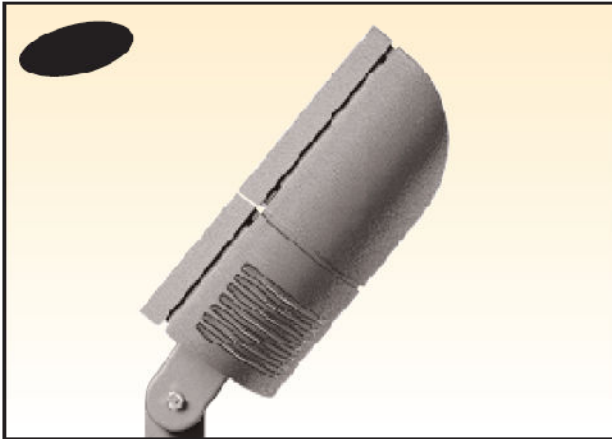
GeoScapes™ Series 1 Low Wattage



Type F1

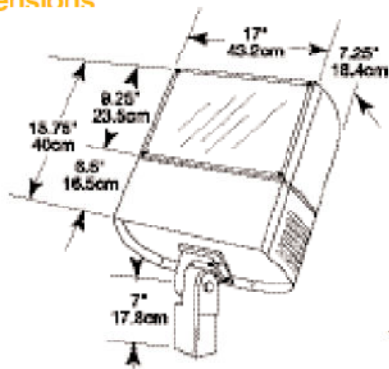
GeoFlood™
Architectural Floodlight
Series 1 High Wattage

Patent Pending



250 and 400 Watt (MA) Metal Halide and (LX) High Pressure Sodium

Dimensions



1.9

APPLICATIONS

- Ideal for Schools, Malls, Office Buildings, Industrial Parks, Hospitals, Sports Complexes, and Commercial Centers.

CONSTRUCTION

- Heavy duty die cast aluminum housing and hinged door.
- Corrosion resistant Duraplex II Wrinkle Bronze polyester powder coated finish.
- Optional designer finishes available. See page 391.
- Stainless steel Torx head T25 tamperproof hardware.

ELECTRICAL

- Core/coil HID CWA Class H(180° C) ballasts.
- Spring-loaded 4KV pulse rated HID socket-mogul base.
- Starting temperature: LX(HPS)-40° F/-40° C, MA(MH) 20° F/ 30° C.
- **Pulse Start compatible. See page 112.**

OPTICS

- Formed and polished and/or segmented specular aluminum reflectors.
- Tempered flat glass lens.
- Lockable 5° incremental aiming adjustment.
- Pin Spot: 3 X 3 18.0° H X 20.6° V.
- Spot: 5 X 4 30.5° H X 22.8° V.
- Flood: 6 X 5 37.2° H X 26.6° V.

MOUNTING

- Slipfitter for 2" pipe (2 3/8") tenon.
- Integral wiring/splice chamber in arm.

WARRANTY/LISTINGS

- UL 1598 wet location listed.
- Published five year limited warranty.

OPTIONS & ACCESSORIES — SEE PAGES 151-152.

PHOTOMETRICS SEE PAGES 355-356.

ORDERING GUIDE EXAMPLE: GF1F400MAL-1



GF	1	F	400	MA	L		1
GF	1				L		

Name	Shape	Distribution	Wattage	Source	Lamp	Options
GF= GeoFlood	1= Series 1	P= Pin Spot S= Spot F= Flood	250(E/BT28) 400(E/ED28) 250(E18/28) 400(E18/37)	MA LX	L (Included and Installed)	See page 151 1=120 2=208 3=240 4=277 5=480 8=120-277

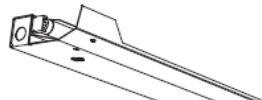


Product information is subject to change without notice.

Type L1

In-Cove II

Cove
Indirect
1 T8



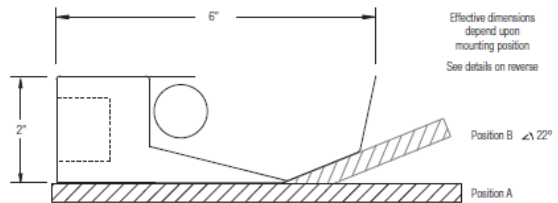
Project Name	
Spec Type	
Notes	

Order Guide Some combinations of product options may not be available. Consult factory for assistance with your specification.

3808	T01							
Product Series & Type In-Cove II Indirect	Lamping 1 T8	Lower Optics E Solid Housing	Upper Optics N None	Run Length Enter the total run length in feet	Wiring 1 1 oct 3 1 oct w/ Emergency oct 5 1 oct w/ Battery Pack 7 1 oct Dimming	Voltage 1 120V 2 277V 3 347V	Ballast E Standard Ballast	Color & Finish W High Reflective White
				See details on reverse	Consult website for complete list of standard wiring options		Consult website for ballast manufacturer information	

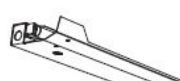
Upgrades & Accessories Please indicate with check mark.

Lamps Included Lamps Included and Installed



In-Cove II

Cove
Indirect
1 T8

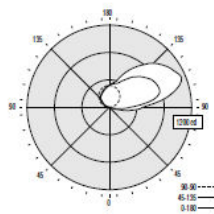


Photometry Optics EN

Report Summary
 Report # 99011111
 Filename 3808T01EN.rpt
 Efficiency 78.1%
 Peak Candela Value* 1140 @ 113°
 Peak to Zenith Ratio* 3.6 : 1
 * Between 90-180° vertical angle

Candela Distribution

Vertical Angle	0	22.5	45	67.5	90	Zonal Lumens
0	0	0	0	0	0	0
5	0	0	0	0	3	0
15	0	0	0	0	3	0
25	0	0	0	0	3	0
35	0	0	0	3	3	0
45	0	0	0	3	4	0
55	0	0	0	3	4	0
65	0	0	0	3	4	0
75	134	15	0	4	4	16
85	388	288	0	5	4	30
90	483	393	7	6	4	30
95	697	474	22	8	5	135
105	1012	751	70	28	9	338
115	1128	771	123	84	8	392
125	1024	723	172	138	114	310
135	910	624	216	184	172	320
145	735	527	256	212	209	249
155	564	422	288	246	233	175
165	390	320	327	280	266	158
175	245	226	317	307	301	48
180	320	320	320	320	320	0



Coefficients of Utilization (%)

Calling	70	80	90	10	70	80	90	10	0
0	75	75	75	75	85	85	85	85	46
1	67	65	60	57	57	54	51	50	36
2	61	55	50	46	52	47	43	32	30
3	55	48	42	38	47	41	36	28	25
4	50	42	36	31	43	36	31	25	22
5	45	37	31	26	39	32	27	22	19
6	42	33	27	23	36	28	23	20	16
7	39	30	24	19	33	25	20	18	14
8	36	27	21	17	30	23	18	16	13
9	33	24	18	15	28	21	16	14	11
10	31	22	16	13	26	19	14	13	10

Avg. Luminance (cd/m²)

Vertical Angle	0	45	90
55	0	0	54
65	0	0	73
75	3979	0	119
85	34215	0	353

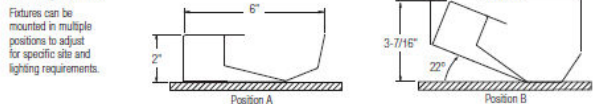
IES files for this and other photometric options can be downloaded online at www.ledalite.com

Additional Information

Modules

Module	Nominal Length
2R	2'0"
3R	3'0"
4R	4'0"
6R	6'0"
8R	8'0"

Mounting Positions



Specifications

Due to continuing product improvements, Ledalite reserves the right to change specifications without notice.

Housing
Die-formed 20 gauge cold-rolled steel painted white.

Weight
3.0 lb/ft.

Optical System
Constructed of highly specular Micro IP® aluminum* and highly reflective 20 gauge steel to produce an asymmetric distribution.
*Note: 219 constructed of highly specular aluminum.

Mounting
Fixtures can be screwed down in multiple positions and orientations to enable precise coordination of optical distributions.

Electrical
Factory pre-wired to section ends with quick-wire connectors.

Ballast
Electronic.

Approvals
Certified to UL & CSA standards.

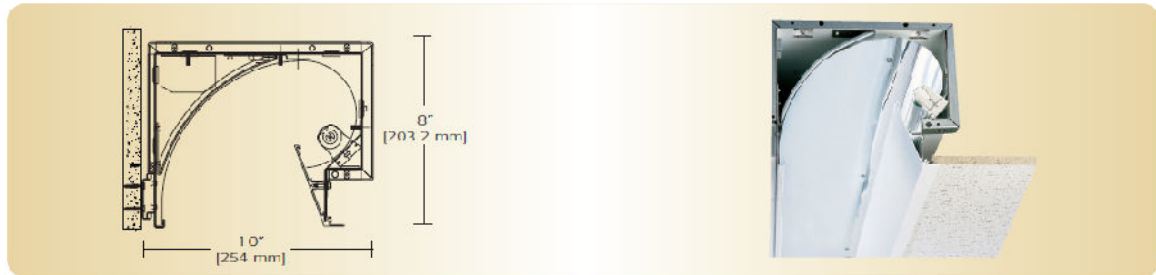
Type L2

JOB NAME:

TYPE:

Perimeter

J B



TYPE _____

FEATURES

The JB perimeter system is designed to produce diffused light with its concealed lamp source. Producing reflected horizontal illumination and disperses lamp imaging and socket shadows. Designed to produce no lamp image or reflection on mirrors its usage has expanded to meet today's interior designs. The JB series is engineered to provide easy installation for this specific architectural cove requirement.

SPECIFICATIONS

Housing: Fully assembled one-piece die form 20-gauge cold rolled steel with extruded aluminum ceiling trim. Standard lengths are up to 8 feet. All fixtures are self-flanged. Fixtures join together with alignment brackets and accept 1/4"-20 rods or tie wire. (Supplied by others) Locking alignment clips join reflectors. The fully assembled 8" x 10" housing mounts to continuous wall rail system which provides horizontal adjustment and ease of installation.

Reflector: Standard front reflector is die formed .025 semi-specular anodized aluminum, rear reflector is specular aluminum.

Electrical: Ballast is electronic, high power factor, thermally protected class P, sound rated A, with less than 20% total harmonic distortion. The minimum number of ballasts will be used unless otherwise specified.

Mounting: Recessed mounting for grid or flange ceilings.

Finish: Fixture housing and steel components are finished in baked white enamel applied over a five-stage pretreatment process.

Lamps: Fixtures are provided for use with one 32 watt T8 lamps, 28 watt T5, or 54 watt T5 HO lamps. (Supplied by Others)

Certification: Luminaires are U. L. Listed, C. S. A. certified and are Union Made in the United States of America I.B.E.W.

ORDERING GUIDE

MODEL NO.	LAMPS	MOUNTING	LENGTH	FINISH	VOLTAGE	OPTIONS
JB	-	-	-	-	-	-
JB	132T8 128T5 154T5 HO	G= Grid F= Flange	2 3 4 6 8	W= White CC= Custom Color	120v 277v	See Options Below
	O=Other Specify	See Accessories	for other, please enter row length (eg. 48=48ft)			

Example: **JB-132T8-G-4-W-120V**

JB with one 32 watt T8 lamps grid ceiling application four foot fixture finished in baked white enamel 120v electronic ballast less than 20% total harmonic distortion

OPTIONS

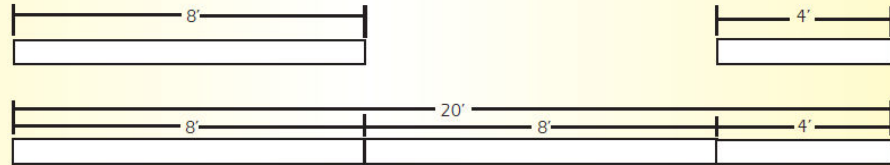
- E10=** Electronic ballast, high power factor, thermally protected class P, sound rated A, < 10% total harmonic distortion
- DIM=** Dimming Ballast
- EPC=** Emergency Battery Pack
- EMC=** Emergency Circuit
- OTH=** See Accessories for other options available

Perimeter

JB

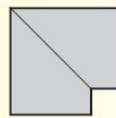
LINEAR SECTIONS AND
SUSPENSION LOCATION

SUSPENSION
MOUNTING

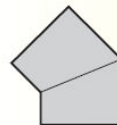


CORNERS

Corners and fixture extensions are custom fabricated to precise dimensions. Please indicate the specific requirements on the layout



C2
90° Corner

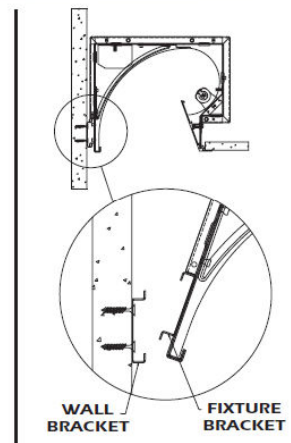
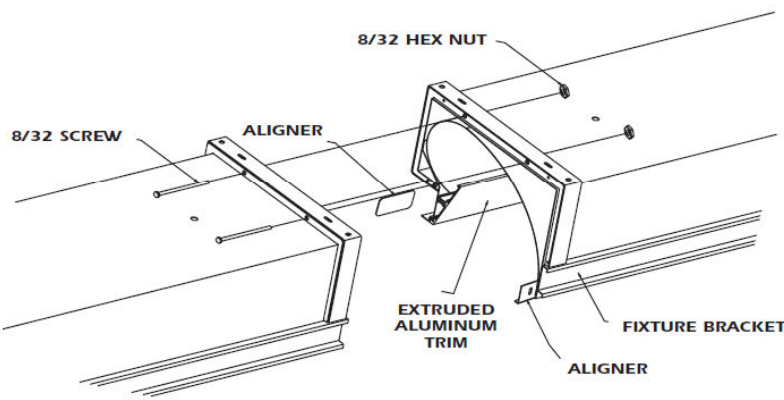


()° AC
Angular
Corner

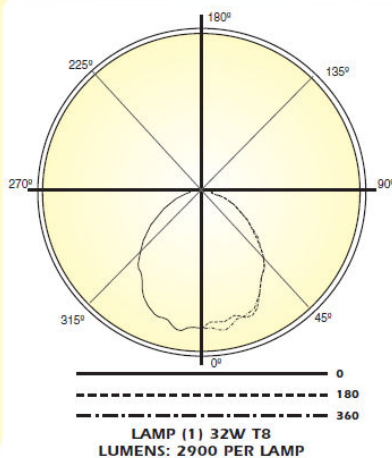
For any angular corner,
()° must be specified and
dimensions must be
included on the layout

For any pattern, a layout
must accompany the order.

INSTALLATION PREPARATION



PHOTOMETRY



Candela Distribution:

Vert. Angle	225	247.50	270	292.50	315
0	745	745	745	745	745
5	666	707	698	716	727
10	731	715	748	695	741
15	725	712	695	628	643
20	711	693	627	569	557
25	668	657	545	387	345
30	623	600	413	266	236
35	588	513	294	228	273
40	531	434	230	355	364
45	488	339	265	345	358
50	422	282	306	294	239
55	352	225	277	111	23.4
60	271	196	184	31.9	22.9
65	203	176	91.7	35.0	8.87
70	164	150	79.7	16.6	2.78
75	107	103	48.2	9.81	2.84
80	49.2	79.2	39.5	9.25	1.58
85	20.6	59.5	44.8	9.78	0.860
90	10.4	56.3	38.8	5.96	0.230

Coefficients of Utilization - Zonal Cavity Method:
pfc = 0.20

	.8	.7	.5	.3	.1	0
pcc	.8	.7	.5	.3	.1	0
pw	.7	.5	.3	.1	.5	.3
RCR	.1	.7	.5	.3	.1	.5
0	61	61	61	61	60	60
1	57	55	53	51	55	54
2	52	49	46	43	51	48
3	48	43	40	37	47	43
4	45	39	35	32	43	38
5	41	35	31	28	40	35
6	38	32	28	25	37	31
7	36	29	25	22	35	29
8	33	27	23	20	32	26
9	31	25	21	18	30	24
10	29	23	19	16	29	23

Total Luminaire Optical
Efficiency = 52.50%

Optical Distribution:
Direct

Type W2

sconce

softlite™ VI



features

ADA compliant wall sconce that compliments entire Softlite™ family.

1', 2' and 4' nominal lengths provide endless design capabilities.

Detachable perforated lamp shield allows for quick cleaning and re-lamping.

Softlite™ Sconce makes an exceptional aesthetic statement in corridors, conference rooms, private or open offices, reception areas or other high-end applications.

companion luminaire



recessed

recessed

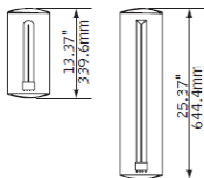
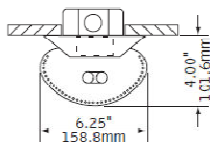
linear



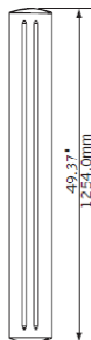
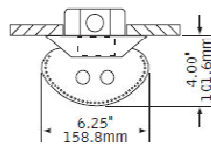
WMR
Designed for
MRI use

dimensional data

1' & 2' fixtures



4' fixture



lamping options

1' & 2' fixtures

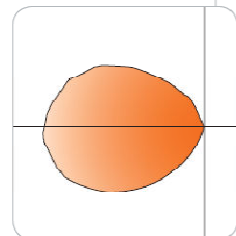


4' fixture



performance

1-Lamp 18W BiAx
74% Efficiency
180 cd @ 85°

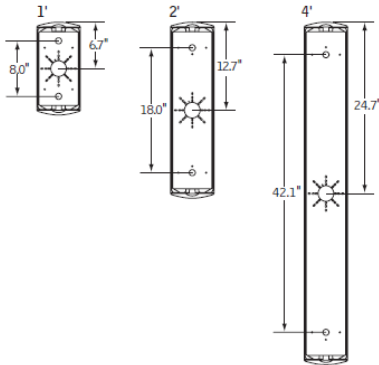


Visit focalpointlights.com for complete photometric data.

july 2008

fixture:
project:

mounting information



specifications

construction

20 Ga. Steel housing/reflector.
Lamps are shielded by detachable 22 Ga. steel perforated lamp shield with acrylic lens insert.
Die-cast aluminum end caps complete shield assembly.

- 1' unit weight: 4 lbs.
- 2' unit weight: 7 lbs.
- 4' unit weight: 12 lbs.

optic

20 Ga. C.R.S. reflector finished in High Reflectance White powder coat.

electrical

Luminaires are pre-wired for specified circuits, with thermally protected Class "P" electronic ballasts.
Optional dimming ballasts available.
Consult factory for specifications and availability.
UL and cUL listed.

finish

Polyester powder coat applied over a 5-stage pre-treatment.

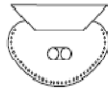
ordering

luminaire series	FS6
Softlite Sconce	FS6
profile	
1' Length (120V. only)	1
2' Length	2
4' Length	4
lamping	
1' Length Only	
1 Lamp 18 Watt Blax	1BX18
2' Length Only	
1 Lamp 40 Watt Blax	1BX40
4' Length Only	
1 Lamp T5	1T5
2 Lamp T5	2T5
1 Lamp T5HO	1T5HO
2 Lamp T5HO	2T5HO
circuit	1C
Single Circuit	1C
voltage	
120 Volt	120
277 Volt	277
347 Volt	347
<small>(Consult factory for availability) (277V. & 347V. not available on 1' luminaire)</small>	
ballast	
Electronic Instant Start <20% THD <small>(Not available on 1' luminaire)</small>	E
Electronic Program Start <10% THD	S
Electronic Dimming Ballast* <small>(Available on 2' and 4' units only)</small>	D
mounting	WM
Wall Mount	WM
factory options	
Emergency Battery Pack* <small>(2' & 4' units only)</small>	EM
HLR/GLR Fuse	FU
Include 3000K Lamp	L830
Include 3500K Lamp	L835
Include 4100K Lamp	L841
finish	WH
Matte Satin White	WH

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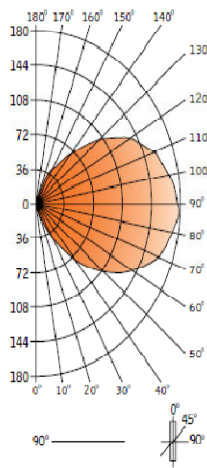
* for more information see Reference section.

softlite™ VI



Filename: FS611BX18.1ES
Catalog #: FS6-1-1BX18-1C-120-S-WM-WH
Efficiency: 74%
Test #: 12016.0

CANDLEPOWER DISTRIBUTION



Vertical Angle	Horizontal Angle				Zonal Lumens
	0°	22.5°	45°	67.5°	
0°	0	0	0	0	0
5°	0	0	0	0	0
15°	9	10	7	8	6
25°	30	28	24	20	18
35°	64	60	49	39	32
45°	95	92	76	60	49
55°	126	121	102	82	64
65°	151	146	125	95	77
75°	170	162	139	110	87
85°	180	174	148	117	92
90°	176	171	145	114	91
95°	178	169	146	115	90
105°	164	159	135	107	84
115°	144	139	120	95	75
125°	118	113	96	74	63
135°	87	84	70	58	47
145°	52	54	45	37	33
155°	27	27	23	20	9
165°	9	9	8	9	2
175°	0	0	1	0	0
180°	0	0	0	0	0

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt
0°-30°	9	.8	1.0
0°-90°	460	36.8	50.1
90°-130°	379	30.4	41.3
90°-180°	458	36.7	49.9
Total Luminaire	0°-180°	918	73.5

Numbers indicate percentage values of

Go to www.focalpointlights.com for additional photometric data.

Type D1

H5.1.0

JUNO lighting

ACULUX™ RECESSED DOWNLIGHT

5-5/8" OPEN APERTURE

IC Rated, 75W PAR30 or 100W PAR38

IC62-627 SERIES

Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____

PRODUCT DESCRIPTION

Recessed PAR30/PAR38 downlight luminaire with 5-5/8" Alzak® deep cone aperture. Fixture has 50° visual cutoff to lamp and lamp image. Sealed Air-Loc housing eliminates leak-paths to ensure maximum energy savings and comfort. Also controls plenum sound transmission and keeps dust and insects from entering living space. IC rated housing for use in direct contact with insulation.

PRODUCT SPECIFICATIONS

Lamp One 75W PAR30 or 100W PAR38 lamp.

Socket Medium base porcelain socket with nickel plated copper screw shell.

Trim Ring White baked enamel on steel • Torsion spring retention for tight, secure fit to ceiling • Beveled profile for clean ceiling interface without light leaks.

Reflector .040" aluminum reflector with clear, gold, black or haze finish • 50° lamp and lamp image cut-off.

Labels U.L. listed for direct contact with insulation, through-branch wiring, damp locations and IP • Meets Washington State Air Tight Requirements, 1995 CABO Model Energy Code
• Product thermally protected against improper use of lamps
• Union made AFLCIO • CSA certified.

Testing All reports are based on published industry procedures; field performance may differ from laboratory performance.

Product specifications subject to change without notice.

INSTALLATION

Real Nail Bar Hangers Telescoping Real Nail™ bar hanger system permits quick placement of housing anywhere within 24" O.C. joists or suspended ceilings • Bars scored in two locations for fast, clean breaking allowing housing installation in tight applications • Edge-mounted for extra strength • Bars captive to mounting frame • Captive ring shank nail for quick one step installation • Quick-Loc slot and oversized locking set screw locks fixture in position.

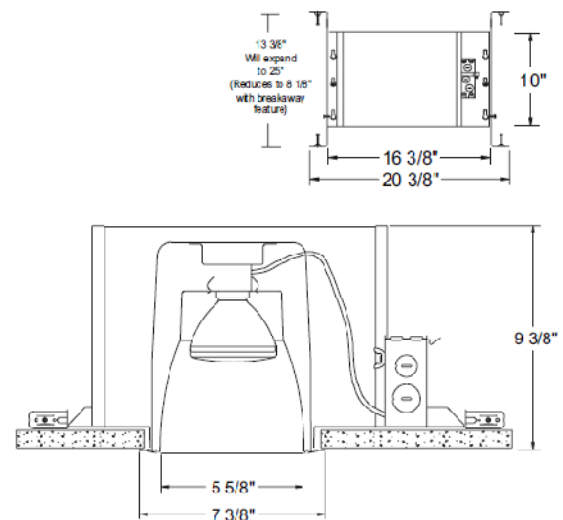
Junction Box Pre-wired junction box, U.L. listed/CSA certified for through-branch wiring, maximum 8 No. 12 AWG 90° C branch circuit conductors (4 in, 4 out) • Junction box provided with removable access plates (5) 1/2" and (1) 3/4" knockouts, (4) Romex knock-outs with built-in strain reliefs and ground wire • Knockouts equipped with pryout slots.

Housing/Mounting Frame 20-gauge die-formed galvanized steel plaster frame • .032" die-formed aluminum outer housing with .064" formed aluminum inner housing • Rough-in section (junction box, mounting frame, housing assembly and bar hangers) fully assembled for ease of installation.

PRODUCT CODES

Catalog Number	Reflector Finish	Wattage and Lamp
IC62-627C-WH	Clear Alzak	75W PAR30 or 100W PAR38
IC62-627B-WH	Black Alzak	75W PAR30 or 100W PAR38
IC62-627G-WH	Gold Alzak	75W PAR30 or 100W PAR38
IC62-627HZ-WH	Haze	75W PAR30 or 100W PAR38
IC62-627WHZ-WH	Wheat Haze	75W PAR30 or 100W PAR38

DIMENSIONS



6 7/8" CEILING CUTOUT

ACCESSORIES

Catalog No.	Description
G2405	T-Bar Clips (4)

To order, specify catalog number.



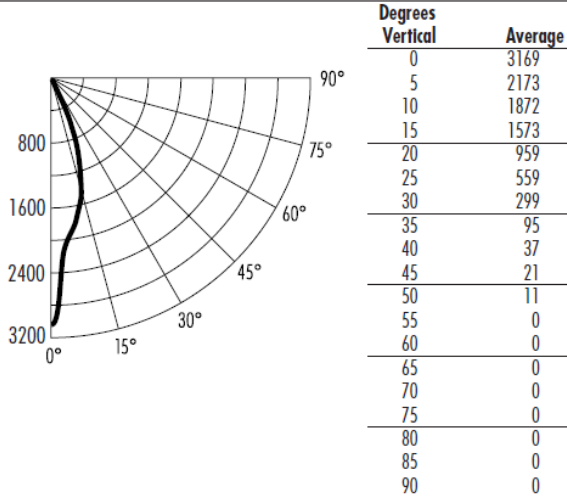
H5.1.0

PHOTOMETRIC REPORT

Test Report #: PT02012201
 Catalog No: IC62-627C-WH
 Total Luminaire Efficiency: 94.9%
 Luminaire Spacing Criterion: 0.5
 Luminaire: 5-5/8" Recessed PAR Downlight, Open Aperture
 Lamp: One 75W PAR30 FL35 lamp rated @ 1030 lumens

ACULUX™ RECESSED DOWNLIGHT
 5-5/8" OPEN APERTURE
 IC Rated, 75W PAR30 or 100W PAR38
IC62-627 SERIES

CANDLEPOWER DISTRIBUTION (Candelas)



*Multipliers: 50W PAR30HIR - 0.75, 50W PAR30H - 0.58,
 Gold - 0.9, Haze - 0.95, Black - 0.7

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	1846
55	0
65	0
75	0
85	0

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	890	86.4	91.1
0-40°	960	93.2	98.2
0-60°	977	94.9	100.0
0-90°	977	94.9	100.0
90-180°	0	—	—
0-180°	977	94.9	100.0

COEFFICIENTS OF UTILIZATION – % (Zonal Cavity Method) Effective Floor Cavity Reflectance 20% (ρfc)

RCR	ρcc ρw	80			70			50			30			10			0
		50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0		113	113	113	110	110	110	105	105	105	101	101	101	97	97	97	95
1		106	104	103	104	103	101	101	99	98	97	96	95	94	93	92	91
2		101	97	95	99	96	94	96	94	92	93	91	90	91	89	88	86
3		95	92	89	94	91	88	92	89	86	90	87	85	88	86	84	83
4		91	87	83	90	86	83	88	85	82	86	83	81	84	82	80	79
5		87	82	79	86	82	78	84	81	78	83	80	77	81	79	77	75
6		83	78	75	82	78	75	81	77	74	80	76	74	78	76	73	72
7		79	75	71	79	74	71	78	74	71	77	73	71	76	73	70	69
8		76	71	68	76	71	68	75	71	68	74	70	68	73	70	67	66
9		73	68	65	73	68	65	72	68	65	71	67	65	70	67	65	64
10		70	66	63	70	66	63	69	65	63	69	65	62	68	65	62	61

ρcc – Ceiling Cavity Reflectance (%) ρw – Wall Reflectance (%)

INITIAL FOOTCANDLES

One Unit, 75W PAR30, 30° Beam

Footcandles Beam Edge	Footcandles Beam Center	Beam Diameter	Distance to Illuminated Plane (Feet)
39.8	88.0	3.2'	6
22.4	49.5	4.2'	8
14.3	31.7	5.3'	10
9.9	22.0	6.4'	12
7.3	16.2	7.4'	14
5.6	12.4	8.5'	16
4.4	9.8	9.5'	18
3.6	7.9	10.6'	20

(Beam Edge defined as 50% of Maximum Nadir Candlepower)

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60' x 60' Room)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	68	61	56
5.0'	44	39	36
6.0'	30	27	25
7.0'	25	22	20
8.0'	19	17	16
9.0'	15	13	12
10.0'	11	10	9

*Note: Multipliers are provided for estimating purposes only. Use IES photometric files for precise photometric information.



JUNO lighting

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Type D2

H5.1.4

JUNO® lighting

ACULUX™ RECESSED DOWNLIGHT

5-5/8" LENSED WALL WASH

IC Rated, 75W PAR30

IC62-629 SERIES

Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____

PRODUCT DESCRIPTION

Recessed PAR30 downlight luminaire with 5-5/8" prismatic lens wall wash aperture. Fixture has 50° visual cutoff to lamp and lamp image. Sealed Air-Loc housing eliminates leak-paths to ensure maximum energy savings and comfort. Also controls plenum sound transmission and keeps dust and insects from entering living space. IC rated housing for use in direct contact with insulation.

PRODUCT SPECIFICATIONS

Lamp One 75W PAR30 lamp.

Socket Medium base porcelain socket with nickel plated copper screw shell.

Trim Ring White baked enamel on steel • Torsion spring retention for tight, secure fit to ceiling • Beveled profile for clean ceiling interface without light leaks.

Reflector .050" aluminum angle-cut reflector with clear, gold, black or haze finish • 50° lamp and lamp image cut off • Specular clear kicker reflector directs light towards wall surface.

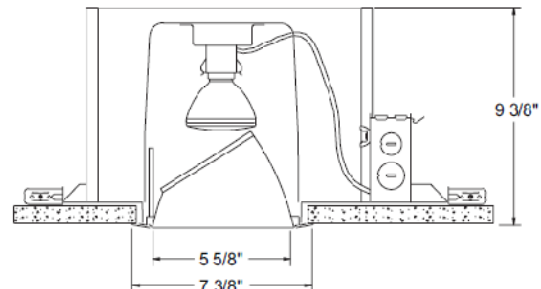
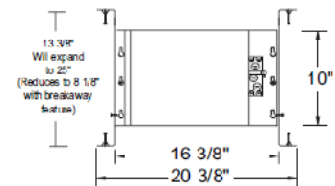
Lens Frosted prismatic lens attached to top of trim provides maximum, even illumination on wall surface.

Labels U.L. listed for direct contact with insulation, through-branch wiring, damp locations and IP • Meets Washington State Air Tight Requirements, 1995 CABO Model Energy Code
• Product thermally protected against improper use of lamps
• Union made AFL-CIO • CSA certified.

Testing All reports are based on published industry procedures; field performance may differ from laboratory performance.

Product specifications subject to change without notice.

DIMENSIONS



6 7/8" CEILING CUTOUT

INSTALLATION

Real Nail Bar Hangers Telescoping Real Nail™ bar hanger system permits quick placement of housing anywhere within 24" O.C. joists or suspended ceilings • Bars scored in two locations for fast, clean breaking allowing housing installation in tight applications • Edge-mounted for extra strength • Bars captive to mounting frame • Captive ring shank nail for quick one-step installation • Quick-Loc slot and oversized locking set screw locks fixture in position.

Junction Box Pre-wired junction box, U.L. listed/CSA certified for through-branch wiring, maximum 8 No. 12 AWG 90° C branch circuit conductors (4 in, 4 out) • Junction box provided with removable access plates (5) 1/2" and (1) 3/4" knockouts, (4) Romex knock-outs with built-in strain reliefs and ground wire • Knockouts equipped with pryout slots.

Housing/Mounting Frame 20-gauge die-formed galvanized steel plaster frame • .032" die-formed aluminum housing
• Rough-in section (junction box, mounting frame, housing assembly and bar hangers) fully assembled for ease of installation.

ACCESSORIES

Catalog No.	Description
G2405	T-Bar Clips (4)

To order, specify catalog number.

PRODUCT CODES

Catalog Number	Reflector Finish	Wattage and Lamp
IC62-629C-WH	Clear Alzak	75W PAR30
IC62-629B-WH	Black Alzak	75W PAR30
IC62-629G-WH	Gold Alzak	75W PAR30
IC62-629HZ-WH	Haze	75W PAR30
IC62-629WHZ-WH	White Haze	75W PAR30



H5.1.4

PHOTOMETRIC REPORT

Test Report#: PT03011504

Catalog No: IC62-629C-WH

Total Luminaire Efficiency: 50.7%

Luminaire Spacing Criterion @ 90°: 0.66

Luminaire: 5-5/8" Recessed PAR Downlight, Lensed Wall Wash

Lamp: One 75W PAR30 FL40 lamp rated @ 965 lumens

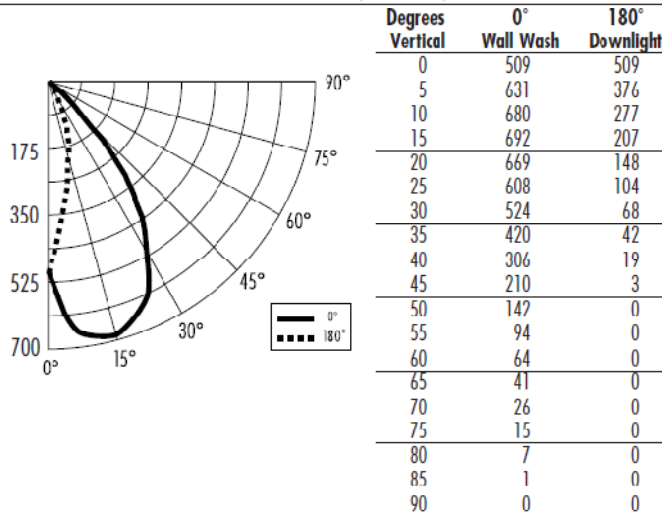
ACULUX™ RECESSED DOWNLIGHT

5-5/8" LENSED WALL WASH

IC Rated, 75W PAR30

IC62-629 SERIES

CANDLEPOWER DISTRIBUTION (Candelas)



LUMINANCE

(Average cd/m²)

Degrees	180° Downlight Luminance
45	241
55	0
65	0
75	0
85	0

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	285	29.5	58.2
0-40°	389	40.4	79.5
0-60°	474	49.1	96.8
0-90°	490	50.7	100.0
90-180°	0	—	—
0-180°	490	50.7	100.0

FOOTCANDLES ON WALL FROM MULTIPLE FIXTURES

Fixture Distance to Wall	2'			3'								
	2'	3'	4'	3'	4'	5'						
1'	8	11	8	4	4	4	2	3	2	1	2	1
2'	20	24	20	9	20	9	5	7	5	3	6	3
3'	25	27	25	13	21	13	9	11	9	6	9	6
4'	21	21	21	13	16	13	11	12	11	7	10	7
5'	16	16	16	10	11	10	11	12	11	8	9	8
6'	12	12	12	8	8	8	10	10	10	7	8	7
7'	9	9	9	6	6	6	8	8	8	6	6	6
8'	7	7	7	5	5	5	7	7	7	5	5	5
9'	6	6	6	4	4	4	6	6	6	4	4	4

*Multipliers: 50W PAR30HIR - 0.75, 50W PAR30H - 0.58, Gold - 0.9, Black - 0.7, Haze - 0.95

*Note: Multipliers are provided for estimating purposes only.
Use IES photometric files for precise photometric information.

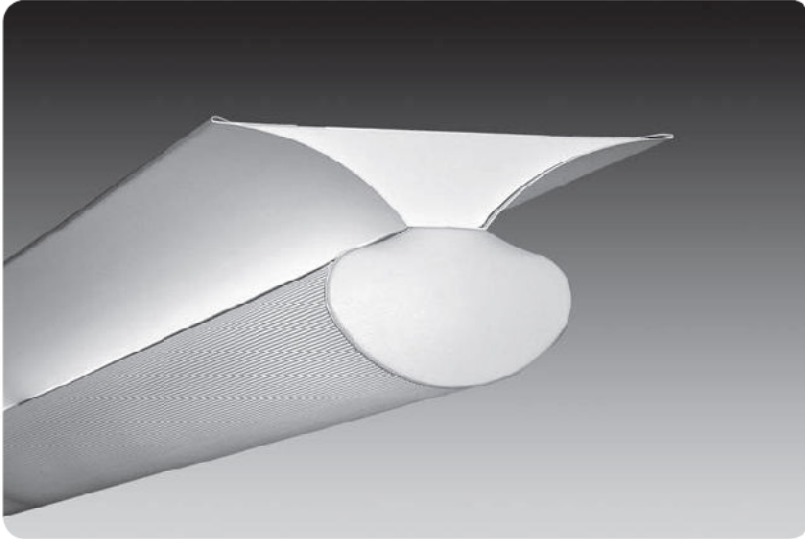


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Type L3

direct/indirect
softlite™ V



features

Suspended direct/indirect luminaire with Matte Satin White reflector and perforated lamp shield.

Separate upright optical compartment provides indirect illumination.

Two-piece sculpted end caps are removable to allow for continuous mounting of multiple luminaires.

Reflectors provide indirect quality of light.

Great choice for lighting library stacks, conference rooms and large open spaces.

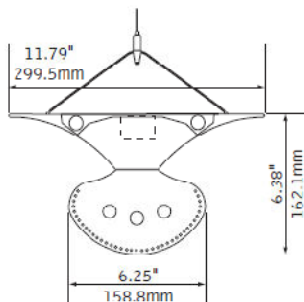
shielding options



companion luminaire



dimensional data

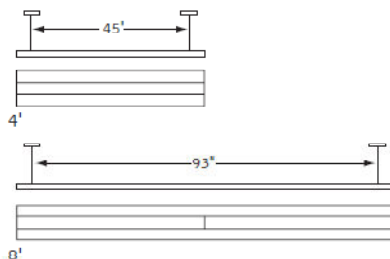


lamping options



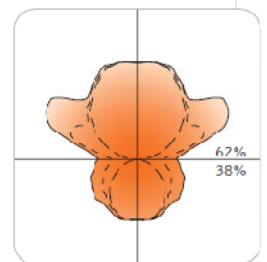
T5/T5HC LAMPS

fixture information



performance

Perforated Lamp Shield
2 Up/3Down-T5 Lamps
78% Efficiency
1832 cd @ 125°

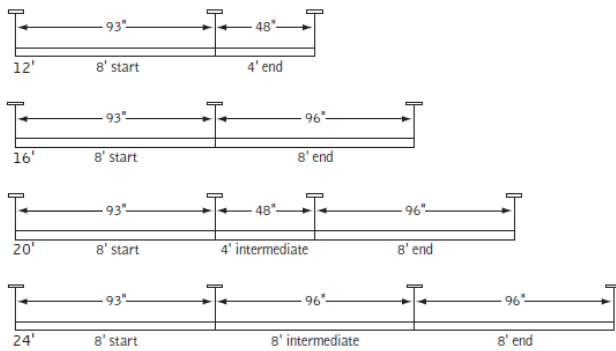


Visit focalpointlights.com for complete photometric data

july 2008

fixture:
project:

suspension information



Consult factory for additional row length information.

specifications

construction

One-piece 20 Ga. steel housing.
Die-cast aluminum end caps complete shield assembly.
For row installation, Internal brackets form hairline joint.
Standard lengths are available in 48" and 96".
All luminaires are provided with Y-cable suspension.

4' unit weight: 19 lbs.
8' unit weight: 38 lbs.

optic

One-piece 20 Ga. steel reflectors finished in Matte Satin White powder coat.
22 Ga. steel perforated lamp shield with white acrylic insert.
Optional radial blade louver, .75"H x 1" frequency blade spacing.

electrical

Luminaires are pre-wired with factory installed branch circuit wiring with over-molded quick connects.
Factory installed SJT power cord at feed location is included.
Electronic ballasts are thermally protected and have a Class "P" rating.
Optional dimming ballasts available.
UL and cUL listed.

finish

Polyester powder coat applied over a 5-stage pretreatment.
Canopy finished in Matte Satin White.

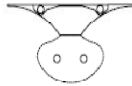
ordering

luminaire series		FS5S
Softlite V	FS5S	
shielding		
Perforated Shield	PS	
Radial Blade Louver	RLP	
lamping		
2 T5HO Up, 1 T5HO Down	21T5HO	
2 T5 Up, 2 T5 Down	22T5	
2 T5HO Up, 2 T5HO Down	22T5HO	
2 T5 Up, 3 T5 Down	23T5	
2 T5HO Up, 3 T5HO Down	23T5HO	
circuit		
Single Circuit	1C	
Dual Circuit	2C	
Triple Circuit	3C	
voltage		
120 Volt	120	
277 Volt	277	
347 Volt	347	
ballast		
Electronic Program Start <10% THD	S	
Electronic Dimming Ballast*	D	
mounting		
24" Cable Suspension	C24	
48" Cable Suspension	C48	
96" Cable Suspension	C96	
<small>(Specify "J" in place of "C" for 5" dia. canopies at power feed and 2" dia canopies at non-feed locations) (Consult factory for sloped ceiling applications)</small>		
factory options		
Emergency Circuit*	EC	
Emergency Battery Pack*	EM	
HLR/GLR Fuse	FU	
Include 3500K Lamp	L830	
Include 3000K Lamp	L835	
Include 4100K Lamp	L841	
finish		WH
Matte Satin White	WH	
luminaire length		
4'	4	
8'	8'	
12' (8' + 4')	12'	
16' (8' + 8')	16'	
20' (8' + 4' + 8')	20'	
24' (8' + 8' + 8')	24'	

* for more information see Reference section.

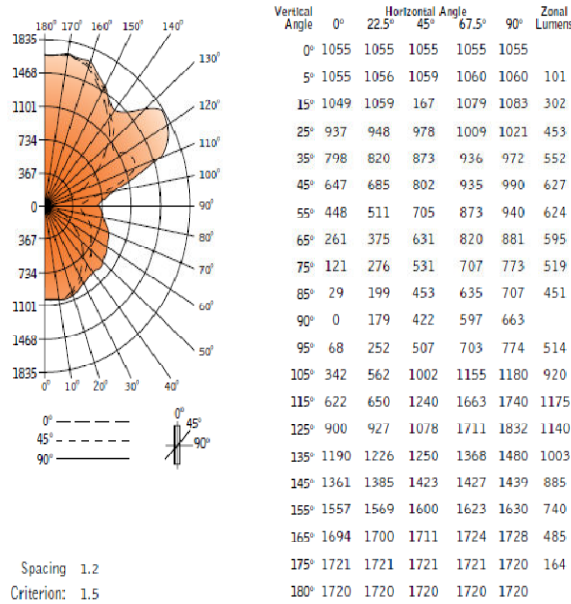
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direct/indirect
softlite™ V



Filename: FS5SPS23T5.IES
Catalog #: FS5S-PS-23T5-1C-120-S-CXX-WH-4'
Efficiency: 78%
Test #: 12066.0

CANDLEPOWER DISTRIBUTION



LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt
0°-30°	856	5.9	7.6
0°-90°	4225	29.1	37.6
90°-130°	3749	25.9	33.3
90°-180°	7025	48.4	62.4
Total Luminaire	0°-180° 11249	77.6	100

LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	2469	1991	2458
55°	2108	1877	2503
65°	1667	1873	2615
75°	1262	1843	2683
85°	898	1965	3067

CO-EFFICIENTS OF UTILIZATION

Floor	80				70				20						
Ceiling	70	50	30	10	70	50	10	50	10	50	10	30	10	50	10
Wall	81	81	81	81	73	73	73	59	59	46	46	35	35	29	29
RCR 0	1	73	69	65	62	66	62	57	50	46	39	36	29	27	22
1	2	66	59	54	50	59	54	45	43	37	34	29	25	22	18
2	3	60	52	46	41	54	47	38	38	31	30	25	22	18	15
3	4	54	46	39	34	49	41	32	32	26	62	21	19	16	12
4	5	50	40	34	29	45	37	27	30	22	23	17	17	13	10
5	6	46	36	30	25	41	33	23	26	19	21	15	15	11	09
6	7	42	32	26	22	338	29	20	24	16	19	13	14	10	08
7	8	39	29	23	19	35	27	17	21	14	17	11	12	08	06
8	9	36	26	21	17	32	24	15	19	13	15	10	11	07	05
9	10	34	24	19	15	30	22	14	18	11	14	09	10	06	05

Numbers indicate percentage values of

Go to www.focalpointlights.com for additional photometric data.

Type L4

ALKCO®

A14.1

aris

LED Task Light

ARIS Series



PROJECT	TYPE
PROJECT LOCATION	
CATALOG #	

Description

Aris is a low-profile LED luminaire that is ideal for undercabinet, task and display case lighting in both residential and commercial applications. Its 0.86" high x 1.7" cross-section is easy to conceal in cabinetry and casework. With an integrated driver, Aris can be connected directly to line voltage power without the need for external drivers. Jumper cables and mounting clips further simplify system installation. The LED light source offers long life, good color rendition, and low power consumption. With no ultraviolet or infrared radiation, photosensitive objects are safe from damage. Aris provides maintenance-free operation for years.

Additional features:

- Available in two color temperatures: 2700K and 4000K
- Three installation lengths*: 11" (28 cm), 21" (53.3 cm), and 41" (104.1 cm)
- Line voltage operation – doesn't require an external driver
- Up to 50 linear feet and <324 watts of Aris luminaires can be connected on a single run
- Controllable with commercially available line voltage dimmers (ELV-type)
- LED source provides 50,000 hours of life with 70% of initial lumens
- California Title 24 Compliant

* Installation length includes the nominal length of the luminaire plus the required electrical connectors. Refer to the product drawings on the reverse side for further dimensional detail.



Photo shows right end of luminaire

Specifications

Construction Extruded aluminum body with molded polycarbonate endcaps.

Finish The luminaire body has a polyester paint finish in a pearl finish. The endcaps are molded to match.

Lens Extruded clear, polycarbonate lens.

Lamps High efficacy (>40 lumens per watt), high brightness LEDs with a beam angle of 110° x 110° beam angle. The LED source has a life of 50,000 hours (based on manufacturer's test data). ARIS-11 has 5 LEDs, ARIS-21 has 10 LEDs and ARIS-41 has 20 LEDs. Aris is available in two LED color temperatures – 2700K and 4000K.

Listings UL and CUL Damp Listed for both permanent and portable installations.

Electrical Aris has an integrated driver system so that luminaires can be connected directly to 120 volts and can be operated at temperatures ranging from -4°F to 122°F (-20°C to 50°C). Aris is not available for 277 or 347 volt applications.

Dimming Aris can be dimmed with commercially available line voltage dimmers (electronic low voltage load type).

Installation Mounting clips are provided with each Aris luminaire. Once the clips are installed, the Aris luminaire can be snapped into place. Full length

mounting brackets are also available as an option. A hard-wire connection can be made with the optional wiring compartment (HWC) and jumper cables or with the switched leader cable (SLC) and plugged into a standard 120v receptacle. For other installation details, refer to the back of this sheet.

Warranty Aris fixtures (for the original installation) have a driver warranty of 3 years from the date of manufacture and a LED warranty for the specified lumen maintenance for 10 years.

Ordering Information

Sample Catalog No: ARIS-11 - 27 - 120 - PRL - HWC - AJC6

NOM. LENGTH	Model Number	LED Color Temp.	Voltage	Finish (standard color is PRL)	Options
11"	ARIS-11	27 2700K 40 4000K	120	PRL Pearl	HWC Wiring compartment ^{1,2} SLC Switched leader cable ¹ AFC Flush connector AJC6 6" Jumper cable AJC12 12" Jumper cable AJC18 18" Jumper cable AJC60 60" Jumper cable AJCY "Y" Jumper cable ¹ ATRM Termination plug ³ AMB11 9" Full length mounting bracket (for ARIS-11) AMB21 19" Full length mounting bracket (for ARIS-21) AMB41 39" Full length mounting bracket (for ARIS-41)
21"	ARIS-21				
41"	ARIS-41				

¹ Supplied with a Termination Plug (ATRM)
² Requires a Jumper Cable to connect to first luminaire.
³ A Termination Plug is required to be plugged into the left-side connector of the last luminaire in the run before energizing the system. One ATRM is supplied with HWC, SLC and AJCY options.

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aris

LED Task Light

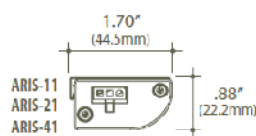
ARIS Series



PROJECT

TYPE

Dimensional Data

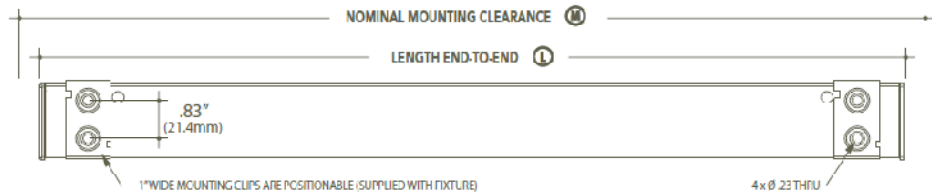


DIMENSION	Ⓛ	Ⓜ
ARIS-11	9.25" (23.5mm)	11" (27.9mm)
ARIS-21	19.25" (48.9mm)	21" (53.3mm)
ARIS-41	39.25" (99.7mm)	41" (104.1mm)

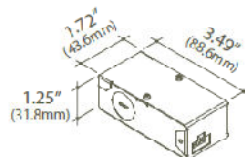
Note: The electrical connection is made on the right end of the fixture (as you stand in front of the installation).

Note: Do not install closer than 0.25" (7mm) to cabinet wall or in a compartment smaller than 12" wide x 12" high and 12", 24" or 44" long for the ARIS-11, ARIS-21 and ARIS-41 fixtures respectively.

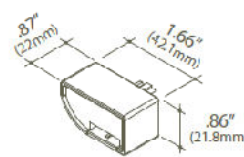
Max. Power Consumption
ARIS-11 (6W)
ARIS-21 (13W)
ARIS-41 (25W)



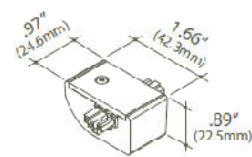
1" WIDE MOUNTING CLIPS ARE POSITIONABLE (SUPPLIED WITH FIXTURE)



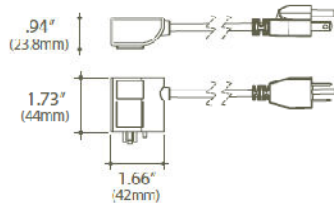
Wiring Compartment (HWC)



Termination Plug (TRM)



Flush Connector (AFC)



Switched Leader Cables



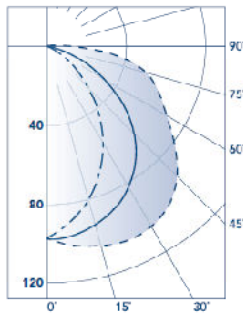
Jumper Cables (AJC6, AJC12, AJC18, AJC60)



"Y" Jumper Cable (AJCY)

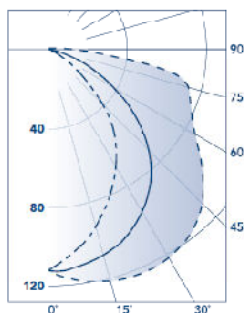
Photometric Data

Model: ARIS-21-27



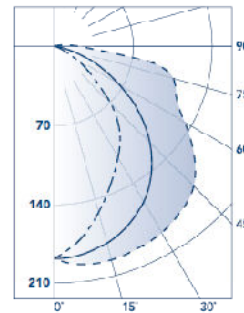
LEGEND:
0-deg: - - - - -
90-deg: ————
180-deg: - - - - -

Model: ARIS-21-40



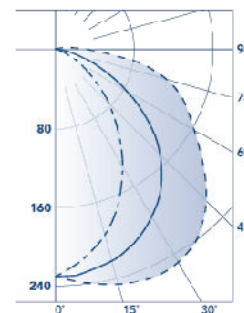
LEGEND:
0-deg: - - - - -
90-deg: ————
180-deg: - - - - -

Model: ARIS-41-27



LEGEND:
0-deg: - - - - -
90-deg: ————
180-deg: - - - - -

Model: ARIS-41-40



LEGEND:
0-deg: - - - - -
90-deg: ————
180-deg: - - - - -

► Go to www.alkco.com for additional Photometric Data

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LED Task Light

ARIS Series

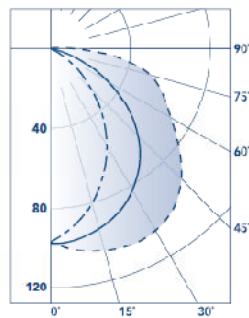


Project	TYPE
---------	------

Photometric Data

ARIS-21-27

(10) White LEDs
Report No.: IITL6J514



LEGEND:
C-deg: ---
9C-deg: - - -
18C-deg: - - - -

CO-EFFICIENTS OF UTILIZATION | Effective floor cavity reflectance=20%

rc 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	
RCR	0	118	118	118	118	115	115	115	115	110	110	110	105	105	105	101	101	101	99
	1	108	103	98	94	105	100	96	93	96	92	89	92	89	86	88	86	84	81
	2	98	89	82	77	95	87	81	76	84	78	74	80	76	72	77	73	70	68
	3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	68	63	59	57
	4	82	70	61	54	79	68	60	54	66	57	53	63	57	52	61	56	51	49
	5	75	62	53	47	73	61	53	46	59	51	46	57	50	45	55	49	45	42
	6	70	56	47	41	68	55	47	41	53	46	40	57	45	40	50	44	39	37
	7	64	51	42	36	63	50	42	36	48	41	36	47	40	35	46	40	35	33
	8	60	47	38	32	58	46	38	32	44	37	32	43	36	32	42	36	31	29
	9	56	43	35	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
	10	53	39	32	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

CANDLEPOWER DISTRIBUTION

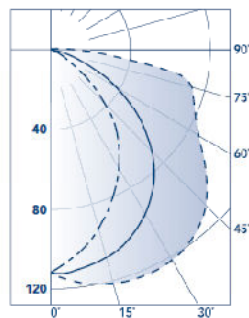
Vertical Angle	Horizontal Angle				
	0°	45°	90°	135°	180°
0°	97	97	97	97	97
5°	100	99	97	94	92
15°	105	101	91	84	81
25°	106	101	87	72	66
35°	103	96	77	56	48
45°	93	87	63	39	30
55°	78	71	45	21	15
65°	64	51	25	9	6
75°	53	35	9	3	2
85°	28	17	2	1	1
90°	13	10	0	0	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixt.
0-30	75	27.4
0-40	123	44.8
0-60	212	77.2
0-90	271	98.7
90-180	3	1.3
0-180	275	100.0

ARIS-21-40

(10) White LEDs
Report No.: IITL6J517



LEGEND:
C-deg: ---
9C-deg: - - -
18C-deg: - - - -

CO-EFFICIENTS OF UTILIZATION | Effective floor cavity reflectance=20%

rc 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	
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
	1	108	103	98	94	105	101	96	93	96	93	90	92	89	87	88	86	84	82
	2	98	90	83	77	95	88	81	76	84	78	74	80	76	72	77	73	70	68
	3	89	79	70	64	87	77	69	63	74	67	62	71	65	60	68	63	59	57
	4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	55	51	49
	5	75	62	53	46	73	61	53	46	59	51	45	57	50	45	55	49	44	42
	6	70	56	47	41	68	55	47	40	53	46	40	51	45	39	50	44	39	37
	7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	35	33
	8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
	9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	38	32	28	26
	10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle				
	0°	45°	90°	135°	180°
0°	112	112	112	112	112
5°	116	114	112	108	106
15°	121	116	108	97	93
25°	123	116	100	83	77
35°	120	111	89	67	60
45°	110	101	72	49	40
55°	94	85	51	27	17
65°	80	64	27	10	6
75°	74	47	10	4	2
85°	25	21	2	1	1
90°	14	10	0	0	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixt.
0-30	87	26.6
0-40	142	43.7
0-60	218	76.2
0-90	322	98.9
90-180	4	1.2
0-180	325	100.0

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PHILIPS

Type T1

PH 4/3 Table

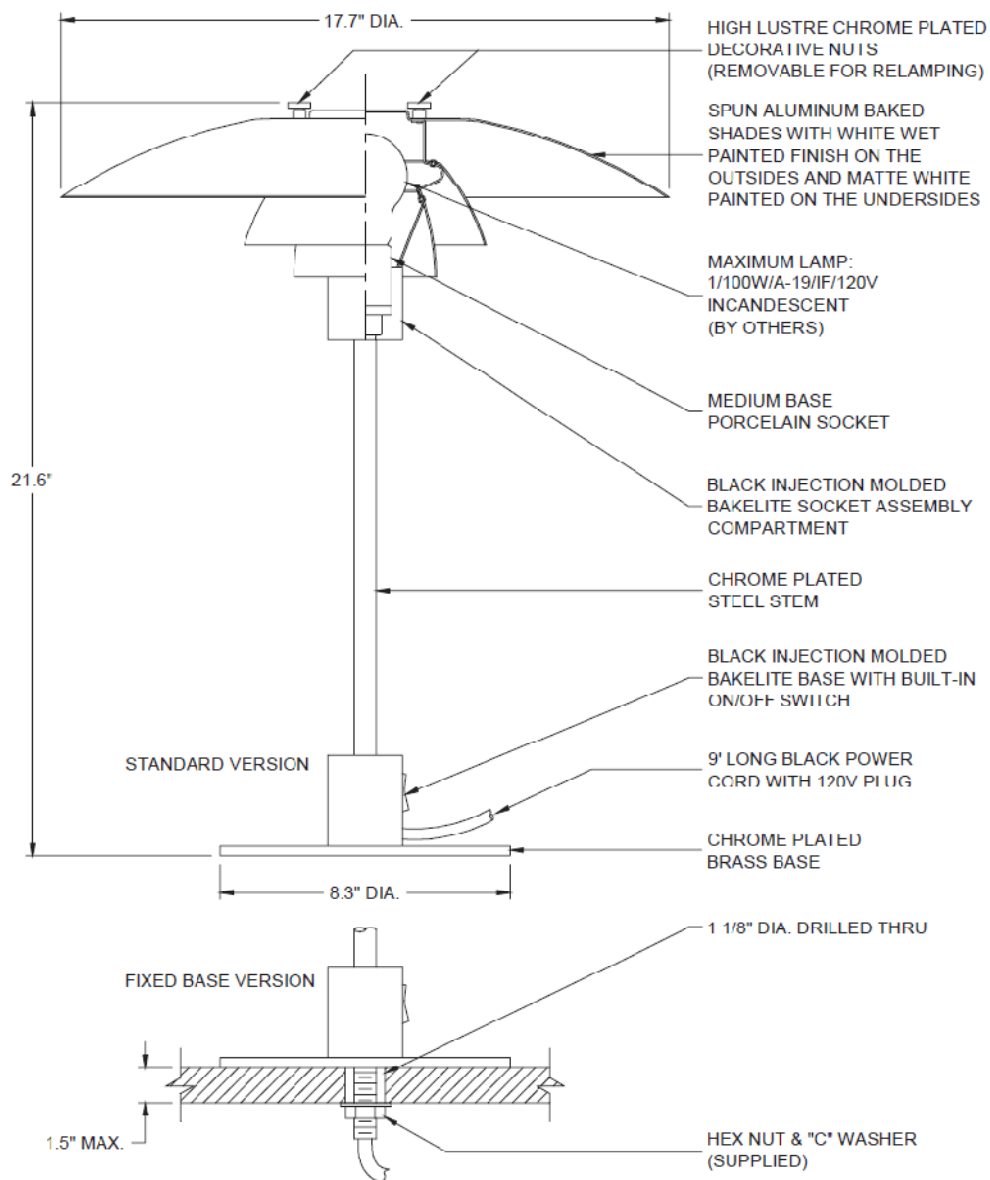
incandescent

Design: Poul Henningsen

Type:

Project:

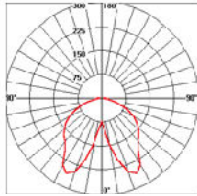
Catalog Number:



PH 4/3 Table

table & floor

incandescent



Photometric Report: PH43-T-1-100W-A19-IF-IFS
Report No.: TL36488
Poulsen Report No.: PH43-T-1-100W-A19-IF-IES
Luminaire: PH 4-3 Table Lamp
Lamp: 1/100W/IF, Incandescent
Efficiency: 41.7%
Description: All data shown are per 1750 lumens. This report can be used for calculation on all versions. Use only actual lumen data when calculating.

Vertical Angle	Candlepower
0	72
5	92
10	145
25	203
35	189
45	166
55	137
65	97
75	75
90	7

Zone	Lumens	% Lamp	% Fixture
0-30	105	10.0	25.5
0-40	313	17.9	43.1
0-60	582	33.3	77.4
0-90	726	41.5	100.0
90-120	0	0.0	0.0
90-150	0	0.0	0.0
90-180	0	0.0	0.0
0-180	726	41.5	100.0

Coefficients of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 20%

Ceiling Reflectance (%)	30				70				50				30				10				0							
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10		
Room Cavity Ratio																												
0	49	40	40	40	48	48	48	48	46	46	46	44	44	44	42	42	42	41	41	41	41	39	39	39	37	36	35	34
1	45	43	41	39	44	42	40	38	40	39	37	39	37	36	37	36	35	34	34	33	32	32	31	30	31	30	29	28
2	41	37	34	32	40	36	34	31	35	33	31	34	32	30	32	31	29	28	28	27	26	26	25	24	25	24	23	22
3	37	32	29	26	36	32	29	26	31	28	25	29	27	25	28	26	25	24	24	23	22	22	21	20	21	20	19	18
4	34	29	25	22	33	28	25	22	27	24	21	25	23	21	25	23	21	20	20	19	18	18	17	16	17	16	15	14
5	31	25	22	19	30	25	21	18	24	21	18	23	20	18	22	20	18	17	17	16	15	15	14	13	14	13	12	11
6	28	23	19	16	28	22	19	16	22	18	16	21	18	16	20	18	16	15	15	14	13	13	12	11	12	11	10	9
7	26	21	17	14	26	20	17	14	20	16	14	19	16	14	18	16	14	13	13	12	11	11	10	9	10	9	8	7
8	24	19	15	13	24	18	15	12	18	15	12	17	14	12	17	14	12	11	11	10	9	9	8	7	8	7	6	5
9	23	17	14	11	22	17	13	11	16	13	11	16	13	11	15	13	11	10	10	9	8	8	7	6	7	6	5	4
10	21	16	12	10	21	15	12	10	15	12	10	15	12	10	14	12	10	9	9	8	7	7	6	5	6	5	4	3

Design

Paul Henningsen

Concept

PH 4/3 Table (1967) provides mainly downward illumination. PH 4/3 is based on the principle of a reflecting multi-shade system, creating a harmonious and glare free illumination. The shades are drawn over a logarithmic spiral, with the center of the light source placed in the spiral's focal point.

Finish

White, wet painted. High lustre chrome plated

Material

Base: High lustre chrome plated, spun brass. Shades: Spun aluminum. Stem: High lustre chrome plated, steel. Triangular piece: Black, injection molded bakelite.

Mounting

Cord type: Black. Cord length: 9'. Switch: On/off switch located in black bakelite stem base.

Weight

Max 5 lbs.

Label

CUL, Dry location, IBEW.

Product code	Light source	Voltage	Finish	Mounting
PH4/3 T	1/100W/A19/IF medium	120V	White	FIXED BASE FREE STANDING

Info notes:
1. The comparable LU version has the following classification: Ingress Protection Code: IP20.

Type S1



Pendalum™
SDPS6LED

6" Pendant Mount, Surface
LED Housing
Wet Location
120V

DATE: _____ TYPE: _____

FIRM NAME: _____

PROJECT: _____



For conversion to millimeters,
multiply inches by 25.4
Not to Scale

APPLICATIONS:

Prescolite's Pendalum series of luminaires provides specifiers with a superior alternative to traditional low bay fixtures and cylinders. The Pendalum™ collection is ideal for a wide variety of applications including retail stores, commercial offices, schools, grocery stores, restaurants, and airport terminals.

FIXTURE CONSTRUCTION:

Decorative diecast aluminum heat sink with decorative 52° hang straight canopy/driver compartment and 17 7/8" x 1 1/2" I.P. stem. Painted surfaces feature durable powder coat finish in Zet (metallic silver), White, or Black.

REFLECTOR:

Specify from a variety of Alzak finish options.

LED LIGHT ENGINE:

Each equipped with (10) 3-Watt white Lumileds Luxeon K2 LEDs (5500K option) or (10) 1-watt warm white Nichia LEDs (3500K option) with integral heat sink that will provide 70% average lumen maintenance at 50,000 hours. Vacuum metallized injection molded reflector provides uniform light beam spread. LED board is attached to the heat sink with three pin-in socket button head tamper-proof screws.

LED DRIVER:

Solid state electronic 1.4A max, FCC class B compliant, 24V, 50,000 hour minimum anticipated life. Rated for -40°C starting temperature. (Cool white)

Solid state electronic 700mA max, FCC class B compliant, 24V, 2A max., 50,000 hour minimum anticipated life. Rated for -40°C starting temperature. (Warm white)

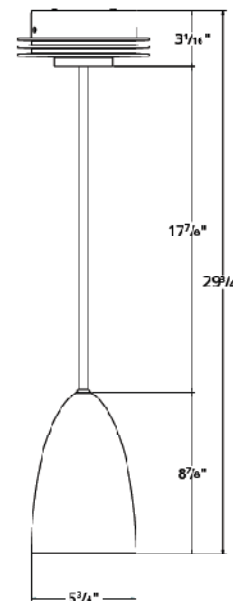
Solid state electronic 700mA max, FCC class A compliant, 16-24V dc. Rated for -40°C starting temperature. For use with 0-10V, 3-wire controls (Dimming)

INSTALLATION:

Luminaire mounts to standard J-box.

LABELS:

CSA C/US listed. Suitable for wet location under covered ceiling. Approved for through wiring. Non-IC rated.



CATALOG NUMBER:

EXAMPLE: SDPS6LEDDM35K120VZ

FIXTURES	HOUSING OPTIONS	LED COLOR TEMP.	VOLTAGE	FIXTURE FINISH	REFLECTOR FINISH	REFLECTOR COLOR
<input type="checkbox"/> SDPS6LED (1) 6" Pendant Mount Surface LED luminaire	<input type="checkbox"/> DM Dimmable (35K only)	<input type="checkbox"/> Blank 5500 Kelvin, 30W <input type="checkbox"/> 35K 3500 Kelvin, 10W	<input type="checkbox"/> 120V	<input type="checkbox"/> Z Zet (metallic silver) <input type="checkbox"/> BL Black <input type="checkbox"/> WH White	<input type="checkbox"/> Blank Specular <input type="checkbox"/> SS Semi-Specular	<input type="checkbox"/> Blank Clear Alzak <input type="checkbox"/> CG Champagne Gold Alzak <input type="checkbox"/> BL Black Alzak <input type="checkbox"/> WE Wheat Alzak <input type="checkbox"/> LW Light Wheat Alzak <input type="checkbox"/> PW Pewter Alzak



In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product. Web: www.prescolite.com • Tech Support: (888) 777-4832

ALUM-PLM-011

PHOTOMETRIC DATA

Alūm - 6" Pendant Mount LED SDPS6LED

Lumileds K2 - Test. No. 1712

INPUT PARAMETER	VALUE	UNITS
Input Voltage range	120 ± 10%	V
Power	32	W
Current	0.266	A
Frequency	60	Hz

OPTICAL CHARACTERISTICS

Color Temperature				Lumens
Color	Min.	Typ	Max.	TYP
White	5,000 K	5,500 K	6,000 K	57

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%LUMINAIRE
0-30	371	65.2	72.9
0-40	466	81.7	91.4
0-60	510	89.4	100.0
0-90	510	89.4	100.0
90-180	0	0.0	0.0
0-180	510	89.4	100.0

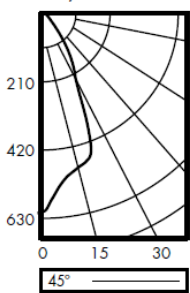
**LUMINANCE DATA IN
CANDELA/SQ. METER**

Angle in Vertical	Average
45	3875
55	382
65	0
75	0
85	0

Test No. 1712

SDPS6LED

Lamp: Ten 3-watt White LEDs (Lumileds K2)
Spacing Criteria = 0.8
Efficiency=89.4%



**CANDLEPOWER
SUMMARY**

Angle	45°
0	618
5	547
15	471
25	433
35	152
45	50
55	4
65	0
75	0
85	0
90	0

Test No. 1712

COEFFICIENTS OF UTILIZATION Zonal Cavity Method

Room Cavity Ratio	% Effective Floor Cavity Reflectance																			
	80%				70%				50%				30%				10%			
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10			
1	101	99	97	95	99	97	95	93	93	92	90	90	89	88	87	86	85			
2	96	92	88	85	94	90	87	84	87	85	83	85	83	81	82	81	79			
3	91	86	81	78	90	84	80	77	82	79	76	80	77	75	78	76	74			
4	87	80	75	71	85	79	74	71	77	73	70	75	72	69	74	71	68			
5	82	75	70	66	81	74	69	66	72	68	65	71	67	64	70	66	64			
6	78	70	65	61	77	70	64	61	68	64	60	67	63	60	66	62	60			
7	74	66	61	57	73	65	60	57	64	60	56	63	59	56	62	59	56			
8	71	62	57	53	69	62	57	53	61	56	53	60	56	53	59	55	52			
9	67	59	53	50	66	58	53	50	57	53	49	56	52	49	56	52	49			
10	64	55	50	47	63	55	50	47	54	50	46	54	49	46	53	49	46			

SDPS6LED

Test No. 1712

SDPS6LED

AVERAGE INITIAL FOOTCANDLES

Assumptions:

- Multiple Units (Square Ceiling Layout)
- Ceiling 80% Wall 50% Floor 20%
- 4 fixtures evenly spaced in the center of the room.
- The room is square and has a width and length equal to twice the lamp spacing.
- The lumen depreciation factor is 0.8
- The dirt depreciation factor is 0.98

3W SPACING	LED RCR1	RCR3	RCR7
7.0	10	10	8
8.0	8	7	6
9.0	6	6	5
10.0	5	5	4
11.0	4	4	3
12.0	4	3	3
13.0	3	3	2
14.0	3	2	2
15.0	2	2	2

Test No. 1712

Nichia - Test. No. 1774

INPUT PARAMETER	VALUE	UNITS
Input Voltage range	120 ± 10%	V
Power	13.3	W
Current	0.11	A
Frequency	60	Hz

OPTICAL CHARACTERISTICS

Color Temperature				Lumens
Color	Min.	Typ	Max.	TYP
White	3,000 K	3,500 K	4,000 K	52

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%LUMINAIRE
0-30	371	60.7	69.5
0-40	407	79.8	91.3
0-60	445	87.3	99.9
0-90	446	87.4	100.0
90-180	0	0.0	0.0
0-180	446	87.4	100.0

**LUMINANCE DATA IN
CANDELA/SQ. METER**

Angle in Vertical	Average
45	3255
55	287
65	0
75	0
85	0

Test No. 1774

SDPS6LED35K

Lamp: 1-LED w/10 LED @1W=10 Nichia
Spacing Criteria = 0.9
Efficiency=87.4%



**CANDLEPOWER
SUMMARY**

Angle	45°
0	489
5	457
15	396
25	360
35	158
45	42
55	3
65	0
75	0
85	0
90	0

Test No. 1774

COEFFICIENTS OF UTILIZATION Zonal Cavity Method

Room Cavity Ratio	% Effective Floor Cavity Reflectance																			
	80%				70%				50%				30%				10%			
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10			
1	99	97	94	92	97	95	93	91	91	90	88	88	87	86	85	84	83			
2	94	90	86	83	92	88	85	82	85	83	81	83	81	79	80	79	77			
3	89	84	79	76	87	82	78	75	80	77	74	78	75	73	76	74	72			
4	85	78	73	69	83	77	72	69	75	71	68	73	70	67	72	69	67			
5	80	73	68	64	79	72	67	64	70	66	63	69	65	62	68	64	62			
6	76	68	63	59	75	67	62	59	66	62	58	65	61	58	64	60	58			
7	72	64	59	55	71	63	58	55	62	58	54	61	57	54	60	57	54			
8	69	60	55	51	67	60	55	51	59	54	51	58	54	51	57	53	50			
9	65	57	51	48	64	56	51	48	55	51	48	55	50	47	54	50	47			
10	62	53	48	45	61	53	48	45	52	48	45	52	47	44	51	47	44			

SDPS6LED35K

Test No. 1774

SDPS6LED35K

AVERAGE INITIAL FOOTCANDLES

Assumptions:

- Multiple Units (Square Ceiling Layout)
- Ceiling 80% Wall 50% Floor 20%
- 4 fixtures evenly spaced in the center of the room.
- The room is square and has a width and length equal to twice the lamp spacing.
- The lumen depreciation factor is 0.8
- The dirt depreciation factor is 0.98

1W SPACING	LED RCR1	RCR3	RCR7
7.0	7	6	5
8.0	5	5	3
9.0	4	4	3
10.0	3	3	2
11.0	3	2	2
12.0	2	2	2
13.0	2	2	1
14.0	2	1	1
15.0	1	1	1

Test No. 1774

*LEDs have inherent variances in light output of +/- 10% of rated lumens. The above published data assumes a weighted average of 57 lumens/LED.

NOTES: Refer to www.prescolite.com for additional photometric tests (IES Files).



Web: www.prescolite.com • Tech Support: (888) 777-4832
701 Millennium Boulevard • Greenville, SC 29607 U.S.A. • Phone (864) 678-1000
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Specifications subject to change without notice. • Printed in U.S.A. • ALUM-PLM-011 • 06/28/07

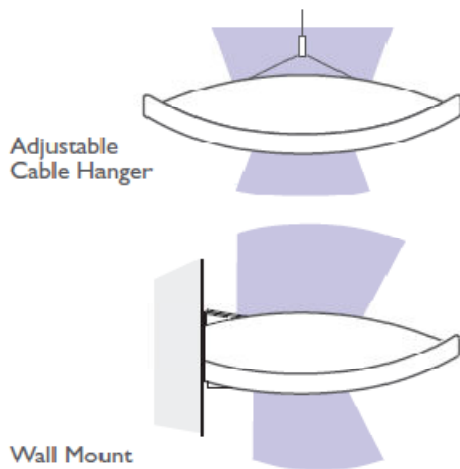


PRODUCT ORDERING CODES

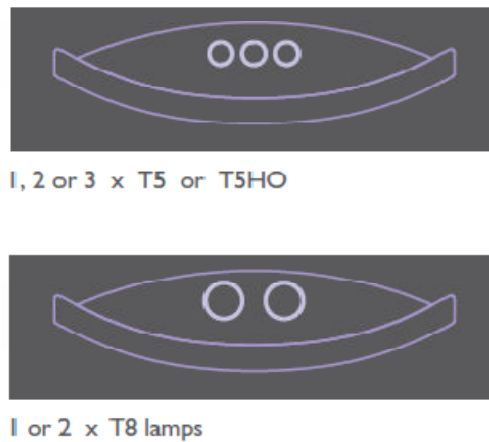
product id	center optic	length / ft	lamp	lamp config	finish	up light	down light	ballast	voltage	circuits	suspension	hanger	other	custom
LT	PL	4	T8	2	A	0*	0*	E	120	I	CA36	C		
LT	pendant	4	1	one lamp		0		E	120	1	CA#	C		C
+W	wall	8	2	two lamps		1		ERS	277	2	CT#	+SM		custom
+S	surface	12	3	three lamps		2		D	347	+E	SA#			description
+A	asymmetric	S#	(T5/T5HO only)								(length / inch)			
SB	white solid baffle		T8	32w	A	0	0					D		
PL	spec. para. louver		T5	28w	AP	1	1					B#		
P	perf		T5HO	54w	W	2	2					F		
S	slotted				C	HP								
B	blank					FP								
F	frosted diffuser					BK								

*Please refer to Light Distribution Guide for up / down light reflectors specifications. For use with SB or PL center optics only.

FIXTURE CONFIGURATIONS



LAMP CONFIGURATIONS

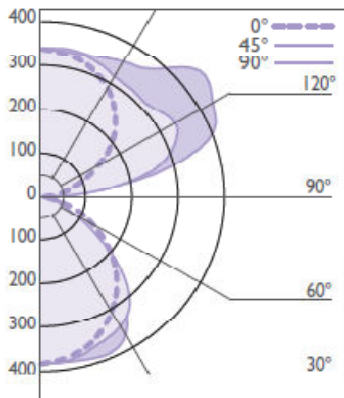


PHOTOMETRICS

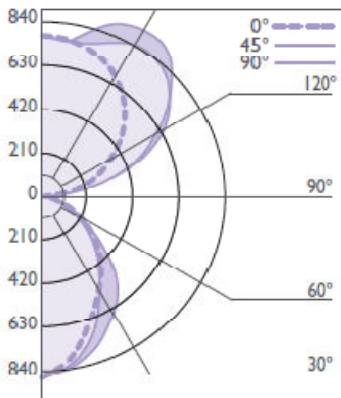
Site specific lighting calculations and electronic photometric data are available at www.axislighting.com

LT Candlepower Distribution

Photopia Electronic Simulation
Test Lamps: 1 x F32T8 Fluorescent
LT -PL-4-T8-1 direct / indirect
w/ MIRO Interior Reflectors Efficiency : 89%



Photopia Electronic Simulation
Test Lamps: 2 x F32T8 Fluorescent
LT -PL-4-T8-2 indirect/direct
Efficiency : 85%

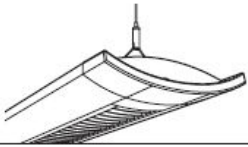


Illuminance (Footcandles)

Sample Typicals
Code: 2 x LT -PB-24-T8-2 Reflectances:
(2x 24" curved w/ perf. baffles) Ceiling 00%
Test Lamps: 2 x F32T8 Walls 50%
Light Loss Factor: 0.8 Floor: 20%

Sample Room Layout
30' x 30' x 9' with work plane @ 2.5' AFF

20	21	26	32	35	34	21	20	31	34	35	32	26	21	20
20	23	31	42	50	45	37	32	37	45	50	42	31	23	20
22	26	38	55	67	58	45	38	45	58	67	55	38	26	22
23	28	43	62	75	66	51	43	51	66	75	62	43	28	23
24	30	45	66	81	70	54	46	54	70	81	66	45	30	24
25	31	47	68	83	72	56	48	56	72	83	68	47	31	25
26	32	48	70	85	74	58	50	58	74	85	70	48	32	26
25	32	48	69	84	74	58	49	58	74	84	69	48	32	25
26	32	48	70	85	74	58	50	58	74	85	70	48	32	26
25	31	47	68	83	72	56	48	56	72	83	68	47	31	25
24	30	45	66	81	70	54	46	54	70	81	66	45	30	24
23	28	43	62	75	66	51	43	51	66	75	62	43	28	23
22	26	38	55	67	58	45	38	45	58	67	55	38	26	22
20	23	31	42	50	45	37	32	37	45	50	42	31	23	20
20	21	26	32	35	34	21	20	31	34	35	32	26	21	20



FEATURES & HIGHLIGHTS



LT is part of the award winning XO collection of highly versatile and functional lighting fixtures. Meeting a broad range of specific lighting needs, LT appeals to designers, architects and the client's bottom line. With modern styling and clean lines LT is a welcome addition to any interior design project.

INDIRECT / DIRECT LIGHT

- LT features extremely efficient performance. (up to 91% efficient)
- Direct-indirect linear fluorescent design provides evenly distributed, glare-free light.
- Added flexibility with on-site adjustable reflectors; by using the variable reflectors, the LT can be modified to provide any combination of up/down light ranging from 50% up / 50% down to 100% indirect. This allows flexibility in specification and personalization of individual rooms depending on their usage at any given time.

ZINC DIE-CAST END CAPS

- Precision fabricated zinc die cast end caps add form, structure and quality to this simple, elegant lighting product.
- End caps can be powder coated or painted to match any standard or custom color.

OPTICAL COMPONENTS

- LT features semi-specular parabolic louvers or white painted baffles for direct/indirect requirements.
- Slots or a frosted acrylic lens are the standard optical infill panels. available for semi-indirect requirements; completely indirect fixtures are available as well with blank infills.

PENDANT & LINEAR SYSTEMS

- Pendant fixtures available in lengths of 4', 8' and 12'.
- Fixtures can also be seamlessly joined to create continuous runs in any specified custom linear length using an internal profile.

LIGHT SOURCE OPTIONS

- The LT is available with T8, T5 and T5 high output lamps.
- The high efficiency design allows for a wide spacing between fixtures and even lighting.
- Relamping and cleaning is easy and can be done in a fraction of the time required for traditional troffer lights.



1, 2 or 3 x T5 or T5H0



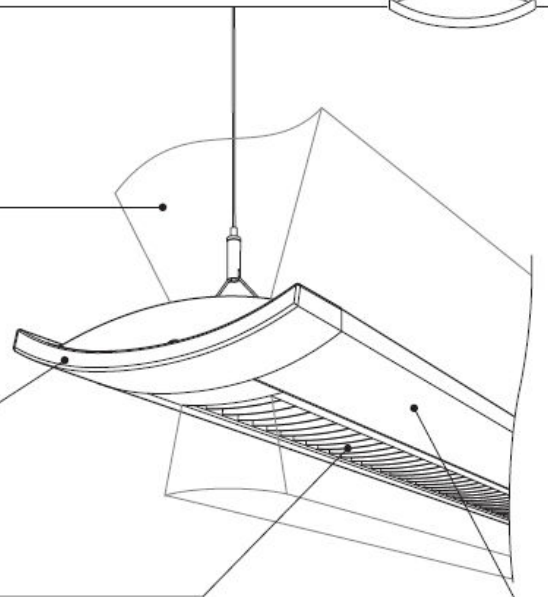
1 or 2 x T8 lamps

INTERNAL COMPONENTS

- Socket brackets and all other internal metal components are die formed 18 gauge, steel, white powder coated for maximum efficiency.

BALLAST & ELECTRICAL

- Electronic, dimmable & emergency ballasts are available.
- All wiring and ballasts are easily accessible.
- 120, 277 or 347 voltages are available.
- Only the highest quality electrical components are used for added safety, convenience and long term cost and ecological savings.
- C-UL certified.

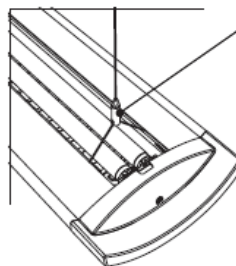


ALUMINUM STRUCTURE

- Side profiles precisely fabricated in the highest grade aluminum ensures straight linear fixtures.
- Powder coated finish in standard aluminum or white, and in many custom colors.

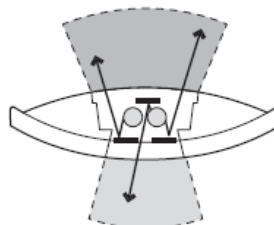
ADJUSTABLE MOUNTING

- Sliding hangers allow for large and small mounting variations due to installer error or obstacles in the ceiling.
- Set screw used for locking position of hangers.
- Can span 12' between mounting centers.
- Aircraft cable mounts into quick-connecting, releasing & leveling cable grips; the cable grippers can be specified as tamper-proof and can even support the weight of a person.
- Stem mounting is also available.



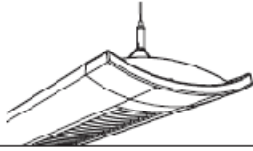
CUSTOMIZING PERFORMANCE

- Our innovative, variable reflector system allows up to 2 upright reflectors or 3 downlight reflectors, and combinations thereof, to direct more light where it is needed; the reflectors can be installed or removed on-site to provide on-the-spot customization.



REFLECTORS

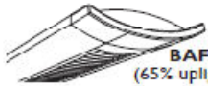
Refer to page i1.2 - Light Distribution Guide for customizing upright/downlight ratios with variable reflectors



**PENDANT
SPECIFICATIONS**



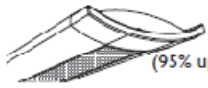
OPTICS



BAFFLES / LOUVERS
(65% uplight/35% downlight)*



SLOTS
(90% uplight/10% downlight)



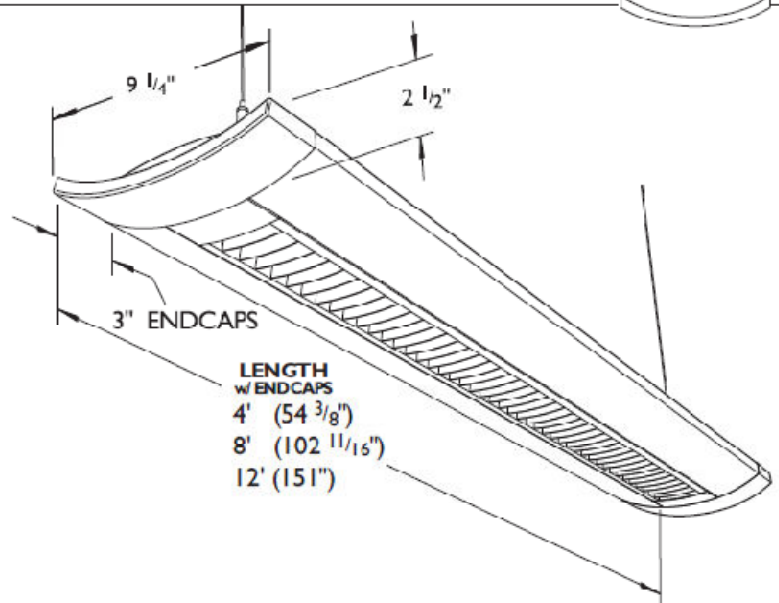
PERFORATIONS
(95% uplight/5% downlight)



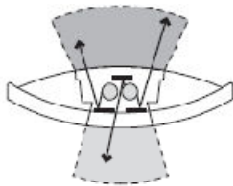
FROSTED DIFFUSER
(70% uplight/30% downlight)



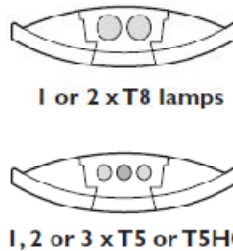
BLANK
(100% uplight/no downlight)



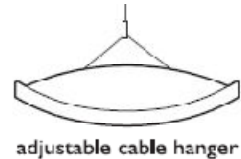
REFLECTORS



LAMPS



HANGER



* Refer to page ii.2 - "Light Distribution Guide" for customizing uplight/downlight ratios with variable reflectors

INSTALLATION PAGES

i 1.2 2.1 2.15

CONSTRUCTION

End Cap	Die Cast Zinc (0.100" nominal)
Side Profile	Extruded Aluminum (0.100" nominal)
Louvers	Die Formed Semi-Specular aluminum (22 gauge)
Baffles	Die Formed Aluminum (22 gauge)
Interior Brackets	Die Formed Sheet Steel (18 gauge)
Hanger	Aircraft Cable
Suspension	Aircraft Cable or Ø 5/8" Stem
Cable Grips	Quick Connecting / Release

Finish Certification

Anodized, Powder Coated, Lacquered
UL listed to U.S. & Canadian standards

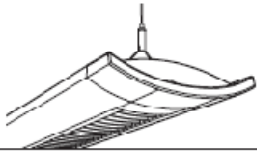
ELECTRICAL

Ballast Options	Electronic, Dimmable, Emergency
Emergency	Emergency Battery Pack or Circuit
Lamp Options	T8, T5, T5-HO
Voltage	120, 277, 347

PRODUCT ORDERING CODE

product id	optics	length / ft	lamp	lamp config.	finish	up light	down light	ballast	voltage	circuits	suspension	hanger	other	custom
LT	PL	4	T8	2	A	0*	0*	E	120	I	CA36	C		
LT	pendant	4	1	one lamp	A	0	0	E	120	I	CA#	C		
+W	wall	8	2	two lamps	AP	1	1	ERS	277	2	CT#	+SM	D	custom
+S	surface	12	3	three lamps	AW	2	2	D	347	+E	SA#	C	B#	description
+A	asymmetric	S#	system	(T5 / T5HO only)	C			(specify details)					F	(one per section)
SB	white solid baffle		T8	32w	A						CA#		D	dust cover
PL	specular para. louver		T5	20w	AP						CT#		B#	batt. pack
P	perf		T5HO	54w	AW						SA#		F	(quant./' sections)
S	slotted				C									fuse
B	blank													(one per section)
F	frosted diffuser													

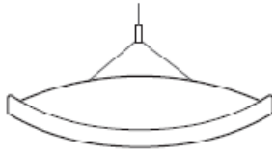




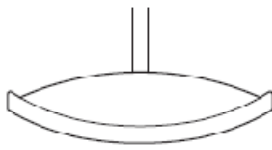
**ASYMMETRIC
SPECIFICATIONS**



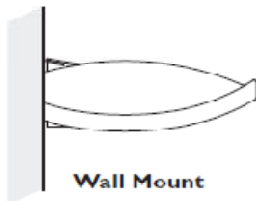
CONFIGURATIONS



Pendant Cable

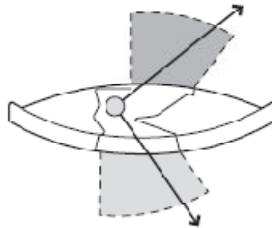


Pendant Stem

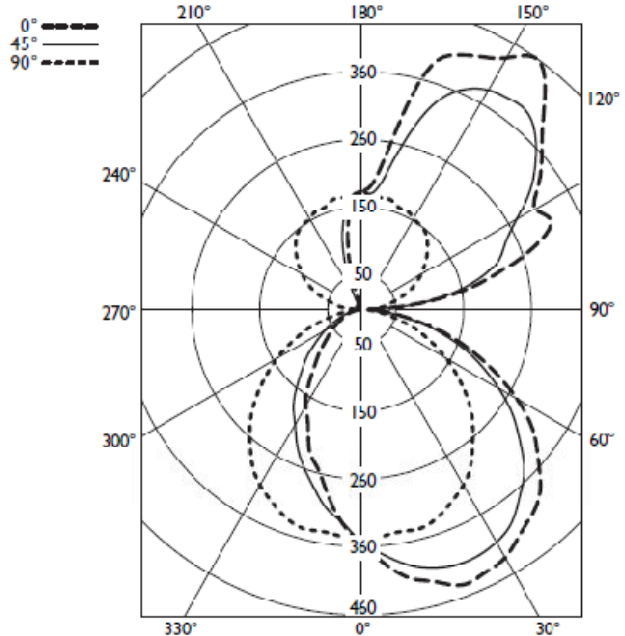


Wall Mount

REFLECTORS



CANDLEPOWER DISTRIBUTION



LAMPS



1 x T5 or T5HO lamp



1 x T8 lamp

INSTALLATION PAGES

i 2.1 2.15 2.17

CONSTRUCTION

End Cap	Die Cast Zinc (0.100" nominal)
Side Profile	Extruded Aluminum (0.100" nominal)
Louvers	Die Formed Semi-Specular aluminum (22 gauge)
Baffles	Die Formed Aluminum (22 gauge)
Interior Brackets	Die Formed Sheet Steel (18 gauge)
Hanger	Aircraft Cable
Suspension	Aircraft Cable or Ø 5/8" Stem
Cable Grips	Quick Connecting / Release

Finish	Anodized, Powder Coated or Lacquers
Certification	UL listed to U.S. & Canadian standards

ELECTRICAL

Ballast Options	Electronic, Dimmable, Emergency
Emergency	Emergency Battery Pack or Circuit
Lamp Options	T8, T5, T5-HO
Voltage	120, 277, 347

PRODUCT ORDERING CODE

product id	center optics	length / ft	lamp	lamp config.	finish	up light	down light	ballast	voltage	circuits	suspension	hanger	other	custom
LTA	F	4	T8	I	A	0	0	E	120	I	CA36			
LT	pendant							E		I	C	SM		C
+W	wall	4		I				ERS		2	+E	+SM		C
+A	asymmetric	8		one lamp				electronic		one circuit		cable seismic		custom
		12						rapid start		two circuits				description
		S#						dimming		em. circuit				
		system						(specify details)						
	F	frosted diffuser	T8		A				120		CA #		D	
			T5		alu. anodized				277		cable (36" std)		dust cover	
			T5HO		alu. paint				347		cable / t-bar		batt. pack	
					white						stem (18" std)		(quan./4 sections)	
					custom						(length / inch)		fuse	
													(one per ballast)	

Type L6

Architectural lighting
RIVA
Rivoli-Asym Series

Job Information	
Type:	
Catalog #:	
Project:	
Comments:	
Prepared by:	



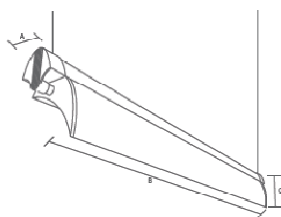
Description

Deco's Rivoli-Asym series suspended direct fluorescent luminaire features hermetically sealed aluminum extrusion with die cast end caps and an adjustable asymmetric louver with a clear cover ideal for directing light, ideal for retail applications. The Rivoli-Asym may be connected in line with a special adapter.

Application

The functional Rivoli-Asym series is best suited for retail spaces, open offices, private offices, conference rooms, reception areas, educational facilities and public spaces.

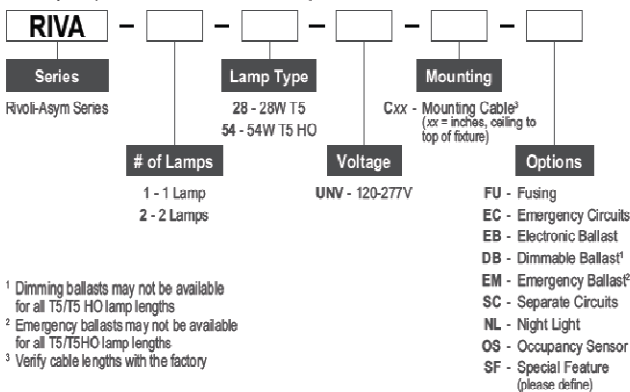
Dimensions



Width(A)	Length(B)	Depth(C)	Specifications
5.62"	49.25"	4.72"	T5

ORDERING INFORMATION:

Example: (RIVA-2-28-UNV-C24-EM)



¹ Dimming ballasts may not be available for all T5/T5 HO lamp lengths
² Emergency ballasts may not be available for all T5/T5HO lamp lengths
³ Verify cable lengths with the factory

Architectural Lighting | DECO™ | LIGHTING

Type D3



LUCERNA

The LUCERNA (LUC) series of recessed downlights is a refreshing alternative to the traditional compact fluorescent downlight. It is a luminous recessed fixture that emanates light from a lensed (1/8") recessed acrylic shield combined with an open reflector with no visible lamp source.

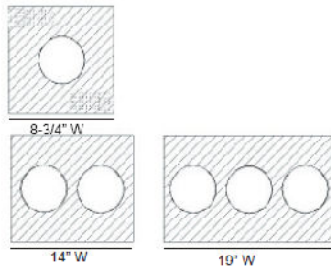
LUCERNA recessed downlights are configured with either One, Two or Three reflector designs.

Single MR16 downlight option and lens only option also available.

The LUCERNA is configured with 1" recessed FLANGE ONLY. Flange is standard in Powdercoated white paint on die-cast aluminum.

For Photometric Information at www.archltgworks.com

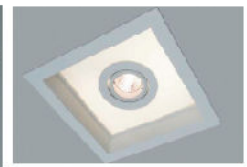
PLAN VIEW (LUC1, LUC2, LUC3):



SHOWN: LUC1 D 26 120 STD

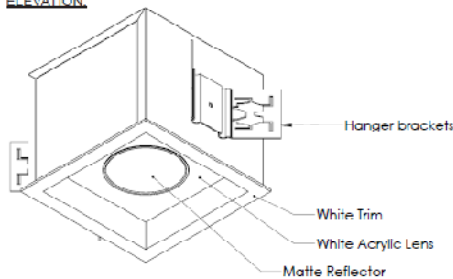


SHOWN: LUC2-D-25-120-STD

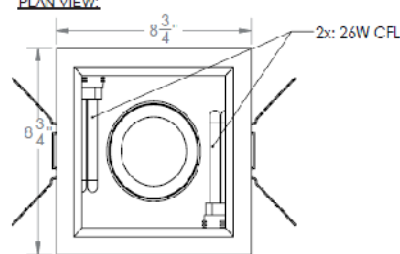


SHOWN: LUC1-MR16-26-120-STD

ELEVATION:



PLAN VIEW:



LAMP QTY PER UNIT:

LUC1	2 X CF TTT (PL-C) LAMPS
LUC2	3 X CF TTT (PL-C) LAMPS
LUC3	4 X CF TTT (PL-C) LAMPS
LUC1-MR	2 X CF TTT (PL-C) LAMPS 1 X 37W MR16-CG
LUC2-MR	3 X CF TTT (PL-C) LAMPS 1 X 37W MR16-CG
LUC3-MR	4 X CF TTT (PL-C) LAMPS 1 X 37W MR16-CG

STYLE	DIFFUSER / REFLECTOR	LAMPS	VOLTAGE	BALLAST	FLANGE	OPTIONS
LUC1 LUCERNA (SINGLE REFLECTOR)	D WHITE 1/8" ACRYLIC LENS WITH SPECULAR REFLECTOR	18 18 WATT TTT (PL-C)	120 120 VOLT	STD STANDARD ELECTRONIC <10T ID NON-DIM	WH WHITE (STANDARD) FLANGE	EM EMERGENCY BALLAST
LUC2 LUCERNA (DOUBLE REFLECTOR)	DM WHITE 1/8" ACRYLIC LENS WITH MATTE DIFFUSE REFLECTOR	26 26 WATT TTT (PL-C)	277 277 VOLT	MK7 ADVANCE® MARK 7 0-10V 5% DIMMING BALLAST	AL ALUMINUM FLANGE	EMC EMERGENCY CIRCUIT
LUC3 LUCERNA (TRIPLE REFLECTOR)	L 1/8" ACRYLIC LENS ONLY		347 347 VOLT	MK10 ADVANCE® MARK 10 POWER- LINE DIMMING BALLAST		
	MR16 3/4" MR16 CENTRAL DOWN- LIGHT			SE5 LUTRON® COMPACT SE5 DIMMING BALLAST		

