

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER / CATALOG NO.	LAMPS	VOLTAGE	NOTES
A1	DECORATIVE PENDANT	LIGHTOLIER 40740 PBUC	(1) CF42TT/835	277	DIMMING
A2	LINEAR PENDANT INDIRECT CONCAVE SHEILDING	FOCAL POINT FV3S	(2) F54T5HO/841	277	DIMMING
A2b	LINEAR PENDANT INDIRECT CONCAVE SHEILDING	FOCAL POINT FV3S	(1) F54T5HO/841	277	DIMMING
A3	4 COVE LIGHT 95% SPECULAR ALLUMINUM REFLECTOR WHITE ENAMAL FINISH	PRUDENTIAL SC	(1)F32T8/830	277	DIMMING
A4	SURFACE MTD WALLWASH ALUMINUM REFLECTOR SILVER, SATIN MATT ANODISED	ERCO 65043.000	(1)F28T5/841	277	
B1	8" DOWNLIGHT, HORIZONTAL LAMP DARKLIGHT REFLECTOR ALUMINUM BRIGHT ANODISED	ERCO 22225.023	(2) CFQ26W/G24Q/835	277	DIMMING
B2	LIGHTCAST WALLWASHER DARKLIGHT REFLECTOR ALUMINUM MIRROR VAPORISED FINISH	ERCO 83855.000	(2) CFQ26W/G24Q/830	277	DIMMING
B3	8" DOWNLIGHT, HORIZONTAL LAMP DARKLIGHT REFLECTOR ALUMINUM BRIGHT ANODISED	ERCO 22225.023	(2) CFQ26W/G24Q/841	277	
B4	8" WALLWASHER	KURT VERSEN - P905	(1) CFQ26W/G24Q/841	277	
C1	8" DOWNLIGHT/VERTICAL LAMP LOW BRIGHTNESS REFLECTOR OUTDOOR	ERCO - 81022.023	(1)MH39W/830	277	
C2	8" DOWNLIGHT/VERTICAL LAMP DARKLIGHT REFLECTOR OUTDOOR	ERCO - 81029.000	(1)CFQ18W/G24Q/830	277	
C3	3' BOLLARD	LOUIS POLLSEN - BYS	(1)MH100W/830	277	
C4	POLE LIGHT ASYMMETRIC INDIRECT INDIRECT REFLECTIVE OPTICAL SYSTEM	PROVIDENCE - PROV-INDA	(1) MH50W/830	277	
C5	OUTD00R SPOT SPHEROLIT REFLECTOR SILVER, SPECULAR ANODIZED	ERCO - 34028.023	(1)MH39W/830	277	
D1	SCONCE	SPLIGHITNG P1W1016	(1)CFQ18W/830	277	DIMMING
D2	TABLE LAMP	CUSTOM	(1) CFQ13W/G24Q/830	120	outlet

Type: A1
Lamp: (1)CF42TT/835

THE AMERICAN GLASS LIGHT COMPANY[®]

PENDANT FIXTURES

Inca Plain Uplight
Catalog # 5826-PU



SPECIFICATIONS

Please select the specifications from the fields below. When finished, print a spec sheet or save to your project file.

Width/Diameter/Length

26"

Additional Details

Fixtures use stainless steel aircraft cabinet.

Overall Height

Select Second

Weight stands:

Lamping

Select Lamping

Glass/Panel

White Sandblasted Glass (std.)

Finish

Select Finish

Enter Your Notes Here:

PRINT SPEC SHEET

GET PHOTOMETRICS

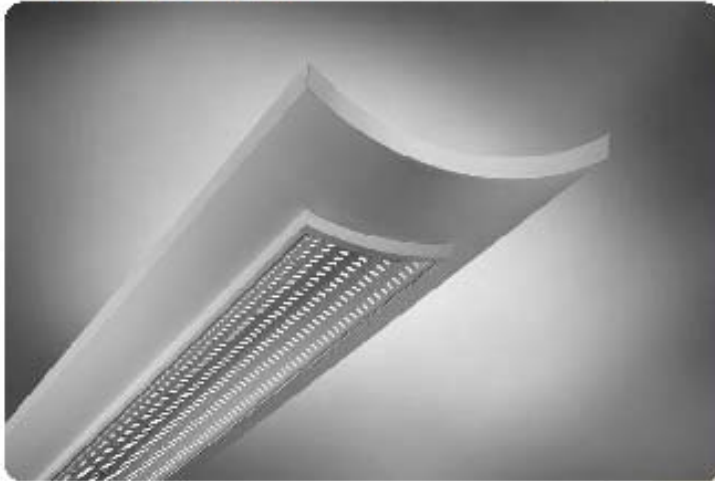
Sign-in to save P

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www.americanglasslight.com

Type: A2
Lamp: (2)F54T5HO/841

concave
verve™ III



Covered by the following U.S. Patents: D442,624; D420,499; D442,623.



FEATURES

Suspend linear indirect fluorescent with concave shielding.

Verve™ III is an excellent choice for open areas, small offices, lobbies, corridors and educational facilities.

shielding options



square

slotted

round

color options



cherry red

kelly green

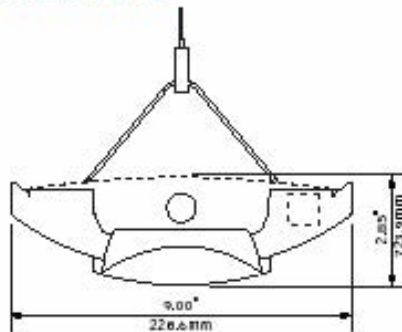
sky blue

companion luminaire



wall mount

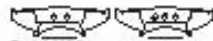
DIMENSIONAL DATA



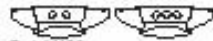
lampping options



T5HO LAMPS

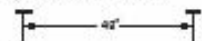


T5 LAMPS

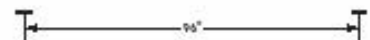


T8 LAMPS

fixture information

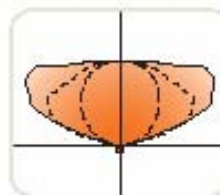


4' (4' 10")



6' (6' 10")

PERFORMANCE



Square Shielding
 2-Lamp T5HO
 94.5% Efficiency
 1302 cd @ 325°

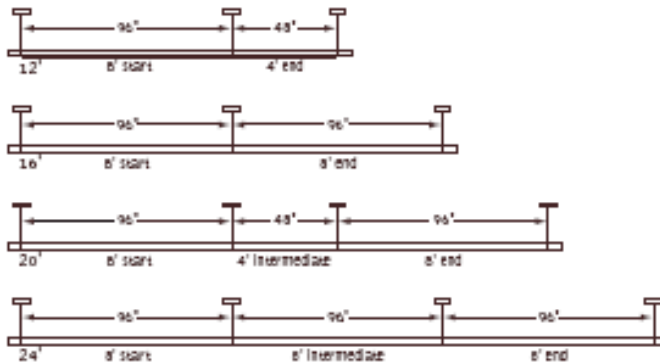
95% Indirect
 5% Direct

See Photometric section for additional performance data.

AUGUST 2005

fixture type:
project name:

MOUNTING INFORMATION



Consult factory for additional row length information.

SPECIFICATIONS

construction

One-piece 20 Ga. steel housing.
20 Ga. concave shield available with round, square or slotted perforations.
Concave shield includes white acrylic insert.
Optional red, green or blue color gel may be specified.
Ends of concave shielding is finished with specular aluminum insert and die-cast trim piece.
Die-cast 5" end cap fastened to housing.
For row installation, internal brackets form hairline joint.
All luminaires are provided with a Y-cable suspension system and are mounted on 48" or 96" centers.

4' unit weight: 22 lbs.
8' unit weight: 32 lbs.

optic

Reflector fabricated of low iridescent, semi specular premium grade aluminum.

electrical

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

emergency

Emergency battery packs provide 90 minutes of one lamp illumination.
Initial lumen output for lamp types are as follows:

T8 Lamp: Up to 425 lumens
T5 Lamp: Up to 500 lumens
T5HO Lamp: Up to 625 lumens

Battery pack requires unswitched hot from same branch circuit as AC ballast.

finish

Polyester powder coat applied over a 5-stage pretreatment.
Standard luminaire housing finished in Matte Satin White or Titanium Silver.
Canopy finished in Matte Satin White.

ORDERING

luminaire series	Verve III	FV3S	<u>FV3S</u>
shielding	(Includes white diffuser)		_____
Round Perforated Shielding (3-lamp T8, T5, T5HO only)	PS		_____
Square Shielding	SQ		_____
Slotted Shielding	SL		_____
optional color gel	(Leave blank for no color)		_____
Cherry Red Gel	R		_____
Kelly Green Gel	G		_____
Sky Blue Gel	B		_____
lamping			_____
2 Lamp T8	2T8		_____
3 Lamp T8	3T8		_____
1 Lamp T5HO	1T5HO		_____
2 Lamp T5HO	2T5HO		_____
3 Lamp T5HO	3T5HO		_____
2 Lamp T5	2T5		_____
3 Lamp T5	3T5		_____
circuit			_____
Single Circuit	1C		_____
Dual Circuit	2C		_____
(Multiple lamp fixtures only)			
voltage			_____
120 Volt	120		_____
277 Volt	277		_____
347 Volt	347		_____
(Consult factory for availability)			
ballast			_____
Electronic Instant Start	E		_____
<20% THD (T8 Only)			
Electronic Program Start	S		_____
<10% THD			
Electronic Dimming Ballast	D		_____
(Consult factory for dimming availability)			
mounting			_____
24" Cable Suspension	C24		_____
48" Cable Suspension	C48		_____
96" Cable Suspension	C96		_____
(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)			
factory options			_____
Emergency Circuit	EC		_____
Emergency Battery Pack	EM		_____
HLR/GLR Fuse	FU		_____
Include 3000K Lamp	L300		_____
Include 3500K Lamp	L350		_____
Include 4100K Lamp	L410		_____
finish			_____
Matte Satin White	WH		_____
Titanium Silver	TS		_____
luminaire run length			_____
4'	4'		_____
8'	8'		_____
12' (8'+4')	12'		_____
16' (8'+8')	16'		_____
20' (8'+4'+8')	20'		_____
24' (8'+8'+8')	24'		_____
integrator options			_____
90-degree Corner	FV3-90		_____



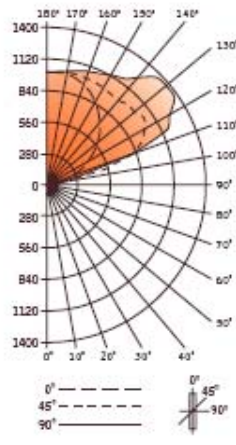
Focal Point L.L.C., 4201 South Purcell Rd, Chicago, Illinois 60632 | T: 773.247.9994 | F: 773.247.9996 | info@focalpointlights.com | www.focalpointlights.com
Focal Point L.L.C. reserves the right to change specifications for product improvement without notification.

concave
verve™ III



Filename: FV3SSQ1T5H.IES
 Catalog #: FV35-SQ-1T5HO-1C-120-S-C24-WH-4'
 Efficiency: 94.5%
 Test #: 11588.0

CANDLEPOWER DISTRIBUTION



Vertical Angle	Horizontal Angle				Zonal Lumens
	0°	22.5°	45°	67.5°	
0°	83	83	83	83	83
5°	84	82	82	84	82
15°	84	84	84	84	24
25°	77	77	79	79	36
35°	71	74	74	73	46
45°	55	56	56	56	43
55°	40	42	42	42	38
65°	24	25	25	24	24
75°	8	11	9	11	10
85°	0	0	1	1	7
90°	0	1	1	1	1
95°	40	40	11	11	24
105°	178	444	530	361	305
115°	350	621	948	1149	1196
125°	516	693	1060	1321	1392
135°	676	788	1030	1277	1376
145°	806	866	999	1121	1168
155°	923	951	1021	1082	1110
165°	996	1005	1029	1054	1064
175°	1017	1019	1021	1022	1024
180°	1020	1020	1020	1020	1020

Spacing: 1.3
 Criterion: 1.4

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt	
0°-30°	68	1.4	1.4	
0°-90°	230	4.6	4.9	
90°-130°	2211	44.2	46.8	
90°-180°	4493	89.9	95.1	
Total Luminaire	0°-180°	4723	94.5	100.0

LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	277	282	282
55°	248	261	261
65°	202	211	202
75°	110	124	124
85°	0	41	41

CO-EFFICIENTS OF UTILIZATION

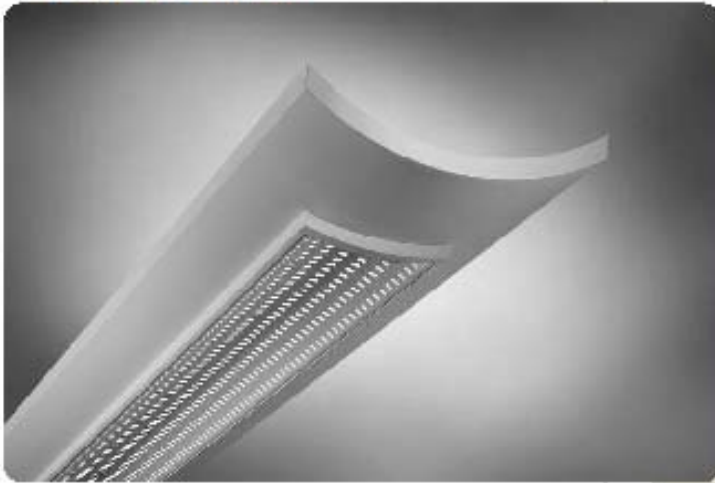
Floor	80				70		20		50		30		10		00	
	70	50	30	10	70	50	10	50	10	50	10	50	10	50	10	00
RCR 0	91	91	91	91	78	78	78	55	55	34	34	14	14	05		
1	83	79	75	72	71	68	63	48	45	29	28	12	12	04		
2	75	69	63	59	65	60	51	42	37	26	23	11	10	03		
3	69	60	54	49	59	52	43	37	31	23	19	10	08	03		
4	63	53	46	41	54	46	36	33	26	20	17	09	07	03		
5	57	47	40	35	49	41	31	29	22	18	14	08	06	02		
6	53	42	35	30	45	37	27	26	19	16	12	07	05	02		
7	49	38	31	26	42	33	25	24	17	15	11	06	05	02		
8	45	35	28	23	39	30	21	21	15	13	10	06	04	01		
9	42	31	25	21	36	27	18	19	13	12	08	05	04	01		
10	39	29	23	19	34	25	16	18	12	11	08	05	03	01		

Numbers indicate percentage values of reflectivity.

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

Type: A2b
Lamp: (1)F54T5HO/841

concave
verve™ III



Covered by the following U.S. Patents: D442,624; D440,499; D442,620.



FEATURES

Suspend linear indirect fluorescent with concave shielding.

Verve™ III is an excellent choice for open areas, small offices, lobbies, corridors and educational facilities.

shielding options

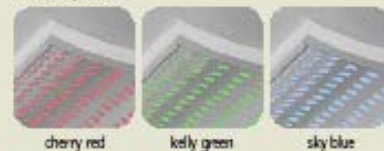


square

slotted

round

color options



cherry red

kelly green

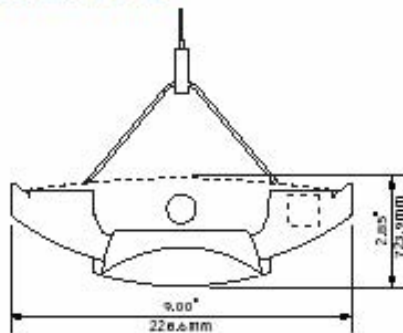
sky blue

companion luminaire

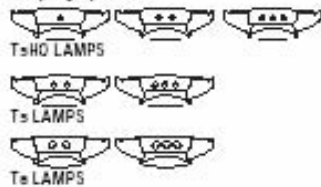


wall mount

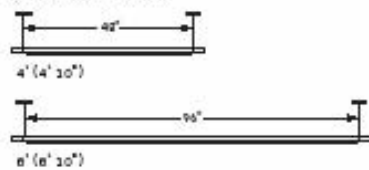
DIMENSIONAL DATA



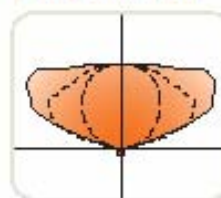
lampping options



fixture information



PERFORMANCE

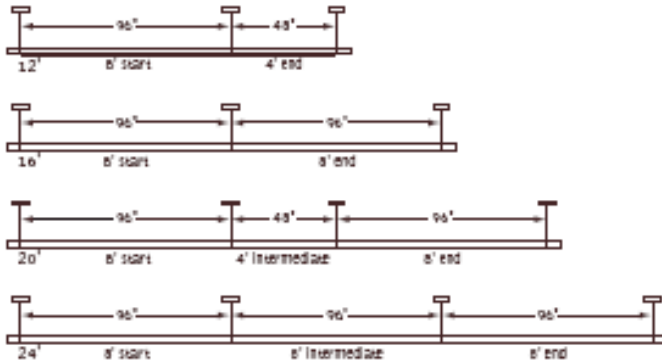


Square Shielding
 1-Lamp T5HO
 94.5% Efficiency
 1302 cd @ 325°
 95% Indirect
 5% Direct
 See Photometric section for additional performance data.

AUGUST 2005

fixture type:
project name:

MOUNTING INFORMATION



Consult factory for additional row length information.

SPECIFICATIONS

construction

One-piece 20 Ga. steel housing.
20 Ga. concave shield available with round, square or slotted perforations.
Concave shield includes white acrylic insert.
Optional red, green or blue color gel may be specified.
Ends of concave shielding is finished with specular aluminum insert and die-cast trim piece.
Die-cast 5" end cap fastened to housing.
For row installation, internal brackets form hairline joint.
All luminaires are provided with a Y-cable suspension system and are mounted on 48" or 96" centers.

4' unit weight: 22 lbs.
8' unit weight: 32 lbs.

optic

Reflector fabricated of low iridescent, semi specular premium grade aluminum.

electrical

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

emergency

Emergency battery packs provide 90 minutes of one lamp illumination.
Initial lumen output for lamp types are as follows:

T8 Lamp: Up to 425 lumens
T5 Lamp: Up to 500 lumens
T5HO Lamp: Up to 625 lumens

Battery pack requires unswitched hot from same branch circuit as AC ballast.

finish

Polyester powder coat applied over a 5-stage pretreatment.
Standard luminaire housing finished in Matte Satin White or Titanium Silver.
Canopy finished in Matte Satin White.

ORDERING

luminaire series	Verve III	FV3S	FV3S
shielding	(Includes white diffuser)		
Round Perforated Shielding	(3-lamp T8, T5, T5HO only)	PS	
Square Shielding		SQ	
Slotted Shielding		SL	
optional color gel	(Leave blank for no color)		
Cherry Red Gel		R	
Kelly Green Gel		G	
Sky Blue Gel		B	
lamping			
2 Lamp T8		2T8	
3 Lamp T8		3T8	
1 Lamp T5HO		1T5HO	
2 Lamp T5HO		2T5HO	
3 Lamp T5HO		3T5HO	
2 Lamp T5		2T5	
3 Lamp T5		3T5	
circuit			
Single Circuit		1C	
Dual Circuit	(Multiple lamp fixtures only)	2C	
voltage			
120 Volt		120	
277 Volt		277	
347 Volt	(Consult factory for availability)	347	
ballast			
Electronic Instant Start	<20% THD (T8 Only)	E	
Electronic Program Start	<10% THD	S	
Electronic Dimming Ballast	(Consult factory for dimming availability)	D	
mounting			
24" Cable Suspension		C24	
48" Cable Suspension		C48	
96" Cable Suspension	(Specify "J" in place of "C" for 3" dia. canopies at power feed and 2" dia. canopies at non-feed locations) (Consult factory for sloped ceiling applications)	C96	
factory options			
Emergency Circuit		EC	
Emergency Battery Pack		EM	
HLR/GLR Fuse		FU	
Include 3000K Lamp		L300	
Include 3500K Lamp		L350	
Include 4100K Lamp		L410	
finish			
Matte Satin White		WH	
Titanium Silver		TS	
luminaire run length			
4'		4'	
8'		8'	
12' (8'+4')		12'	
16' (8'+8')		16'	
20' (8'+4'+8')		20'	
24' (8'+8'+8')		24'	
integrator options			
90-degree Corner		FV3-90	

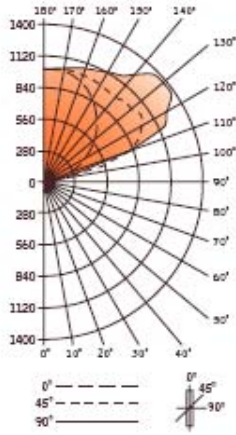


concave
verve™ III



Filename: FV3SSQ1T5H.IES
 Catalog #: FV35-SQ-1T5HO-1C-120-S-C24-WH-4'
 Efficiency: 94.5%
 Test #: 11588.0

CANDLEPOWER DISTRIBUTION



Spacing: 1.3
 Criterion: 1.4

Vertical Angle	Horizontal Angle				Zonal Lumens
	0°	22.5°	45°	67.5°	
0°	83	83	83	83	83
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35°	71	74	74	73	46
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75°	8	11	9	11	10
85°	0	0	1	1	7
90°	0	1	1	1	1
95°	40	40	11	11	24
105°	178	444	530	361	305
115°	350	621	948	1149	1196
125°	516	693	1060	1321	1392
135°	676	788	1030	1277	1376
145°	806	866	999	1121	1168
155°	923	951	1021	1082	1110
165°	996	1005	1029	1054	1064
175°	1017	1019	1021	1022	1024
180°	1020	1020	1020	1020	1020

LUMEN SUMMARY

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Total Luminaire	0°-180°	4723	94.5	100.0

LUMINANCE DATA (CD/M²)

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85°	0	41	41

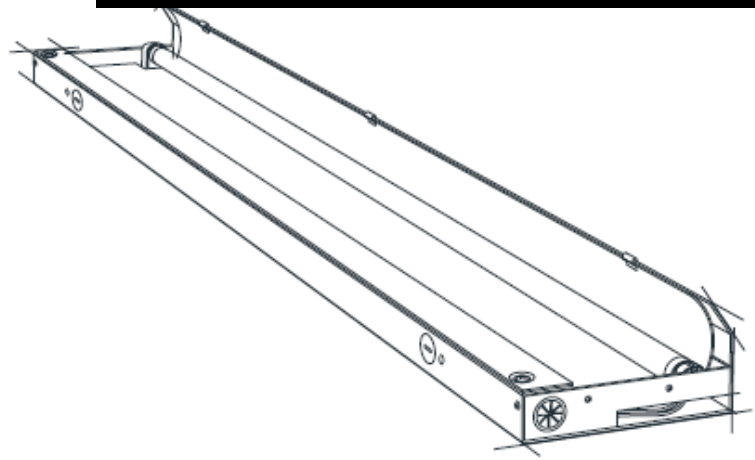
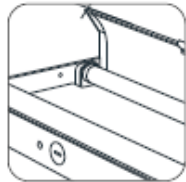
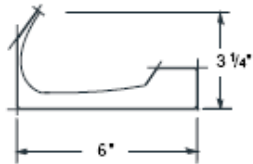
CO-EFFICIENTS OF UTILIZATION

Floor	80	70	20	30	10	00
0	91	91	91	91	91	91
1	83	79	75	72	71	68
2	75	69	63	59	65	60
3	69	60	54	49	59	52
4	63	53	46	41	54	46
5	57	47	40	35	49	41
6	53	42	35	30	45	37
7	49	38	31	26	42	33
8	45	35	28	23	39	30
9	42	31	25	21	36	27
10	39	29	23	19	34	25

Numbers indicate percentage values of reflectivity.

Type
 Job Name
 Catalog Number

Type: A3
Lamp: (1)F32T8/830



ordering

series	lamp rows	nominal length	voltage	options
SC				
	1T8	02'	120	PAF
	1T5	03'	277	EML*
	1T5HO	04'	347*	EMH*
		06'	*T8 & T5HO only	DM
		08'		RSE*†
		R__*		10THD†
		*row length		B__
				FH
				QC
				*consult factory for fixture lengths < 4'
				†T8 only

Applications Coves, retail, lobbies, small offices, conference rooms.

Features A low-profile cove lighting system designed for T5/HO or T8 lamps with a unique 3-piece optical system. Formed 95 percent reflective specular aluminum reflector throws light at low angles. Galvanized steel bottom reflector directs and diffuses light on ceiling to eliminate striations while limiting uplight. White backlight reflector fills the cove cavity with light, limiting socket shadow.

Construction The housing, available in 2-, 3-, 4-, 6- or 8-foot standard lengths, and end plates are made of die-formed, 20-gauge steel. The three part reflector system is die-formed from 95 percent reflective specular aluminum, 20-gauge steel and galvanized steel.

Finish The standard exterior body color is white enamel.

Electrical T8 fixtures have instant-start electronic ballasts with less than 20% THD. T5/HO fixtures have programmed-start electronic ballasts with less than 10% THD. Fixtures are U.L. Damp labeled (non-emergency) and I.B.E.W. manufactured. Maximum ballasts size available: 1 5/8" width x 1 1/4" height.

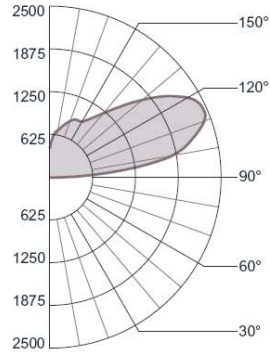
Mounting Fixture is to be surface-mounted within concealed coves.

Options **PAF:** painted after fabrication; **EML:** emergency battery (T5/HO=700 lumens; T8=600 lumens); **EMH:** emergency battery (T5/HO=1200 lumens; T8=1200 lumens); **DM:** dimming (consult factory); **RSE:** rapid-start electronic (T8 only); **10THD:** ballast with < 10% total harmonic distortion; (T8 only); **B_:** specific ballast, specify manufacturer and catalog number (consult factory); **FH:** fixture fusing (slow blow); **QC:** quick-connect circuit assemblies.

photometric data

SC-1T5HO-04

Report # LSI6391 D=0.0% I=100.0%
Lamp Lumens: 4500 Input Watts: 58



Candlepower Summary

Vertical Angle	Horizontal Angle					Output Lumens
	0°	22.5°	45°	67.5°	90°	
90	0	48	35	79	39	
95	10	584	840	1069	911	385
100	37	821	1350	1858	1802	
105	74	753	1615	2064	2149	723
110	111	633	1686	2253	2400	
115	147	567	1557	2225	2455	694
120	183	543	1356	2027	2335	
125	222	564	1154	1759	2076	519
130	256	616	1001	1492	1764	
135	290	646	892	1257	1473	359
140	323	660	835	1082	1230	
145	349	652	838	938	1056	249
150	374	652	848	916	946	
155	395	644	810	905	933	174
160	413	646	761	838	881	
165	427	616	707	756	788	96
170	439	564	671	690	701	
175	446	499	564	575	603	28
180	429	429	429	429	429	

Zonal Lumen Summary

Zone	% Lamp	% Luminaire
0-90	0.00	0.00
0-180	75.74	100.00

Efficiency = 75.7%

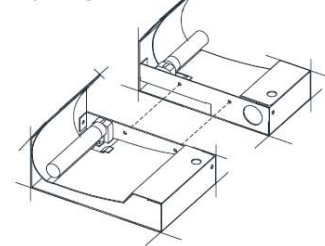
Peak Candela = 2458 @ 112.5°
Peak : Zenith Ratio = 5.7 : 1

Coefficients of Utilization (%)

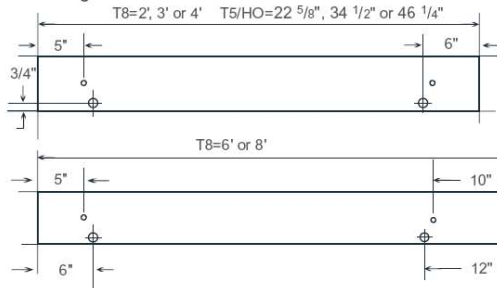
Floor Ceiling Wall	effective floor cavity reflectance = .20											
	80			70			50			10		
	70	50	30	10	70	50	30	10	50	30	10	
RCR 0	72	72	72	72	62	62	62	62	42	42	42	
1	66	63	60	57	56	53	51	49	37	35	34	
2	60	54	50	47	51	47	43	40	32	30	28	
3	54	48	43	39	46	41	37	34	28	26	24	
4	50	42	37	33	42	36	32	28	25	22	20	
5	45	37	32	28	39	32	27	24	22	19	17	
6	42	33	28	24	35	28	24	21	20	17	15	
7	38	30	24	20	32	25	21	18	18	15	12	
8	35	27	21	18	30	23	18	15	16	13	11	
9	32	24	19	15	28	21	16	13	14	12	09	

installation

Adjoining Detail



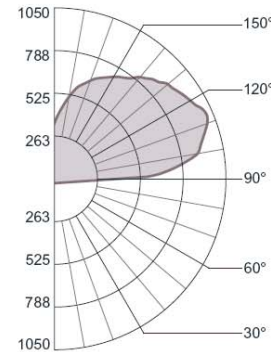
Mounting Locations



photometric data

SC-1T8-04

Report # LSI6088 D=0.0% I=100.0%
Lamp Lumens: 2950 Input Watts: 31



Candlepower Summary

Vertical Angle	Horizontal Angle					Output Lumens
	0°	22.5°	45°	67.5°	90°	
90	2	138	316	518	556	
95	17	258	493	704	757	248
100	44	360	605	855	917	
105	81	373	695	903	974	328
110	118	382	717	959	1042	
115	156	399	699	934	1044	325
120	192	422	685	887	986	
125	227	451	672	852	937	287
130	260	481	669	820	897	
135	292	509	653	798	857	245
140	319	530	660	756	827	
145	349	547	663	739	778	197
150	373	545	664	725	759	
155	393	536	652	709	734	142
160	410	520	637	679	704	
165	424	502	592	635	660	90
170	434	483	538	560	584	
175	440	460	485	486	500	24
180	430	430	430	430	430	

Zonal Lumen Summary

Zone	% Lamp	% Luminaire
0-90	0.00	0.00
0-180	71.58	100.00

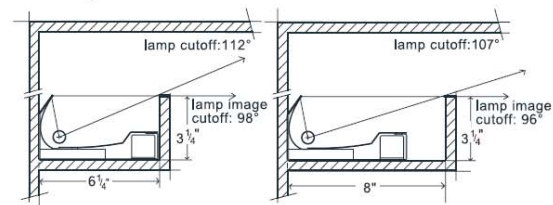
Efficiency = 71.6%

Peak Candela = 1053 @ 112.5°
Peak : Zenith Ratio = 2.4 : 1

Coefficients of Utilization (%)

Floor Ceiling Wall	effective floor cavity reflectance = .20											
	80			70			50			10		
	70	50	30	10	70	50	30	10	50	30	10	
RCR 0	68	68	68	68	58	58	58	58	40	40	40	
1	62	59	57	54	53	51	49	46	35	33	32	
2	56	51	47	44	48	44	41	38	30	28	26	
3	51	45	41	37	44	39	35	32	27	24	22	
4	47	40	35	31	41	34	30	27	23	21	19	
5	43	35	30	26	36	30	26	23	21	18	16	
6	39	31	26	22	33	27	23	19	19	16	14	
7	36	28	23	19	31	24	20	17	17	14	12	
8	33	25	20	17	28	22	17	14	15	12	10	
9	31	23	18	14	26	20	15	13	14	11	09	

Mounting Details



Distance from wall along ceiling

cove to ceiling	Peak Candela @ 112.5°	6 1/4" cove		8" cove	
		lamp	lamp image	lamp	lamp image
12"	27"	27"	70"	37"	91"
18"	42"	42"	112"	57"	148"
24"	57"	57"	155"	77"	205"

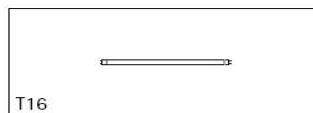
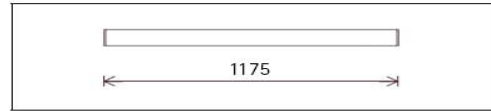
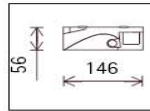
In an effort to continually provide the highest quality products, Prudential reserves the right to change design specifications and/or materials, without notice.

Type: A4
Lamp: (1)F28T5/841

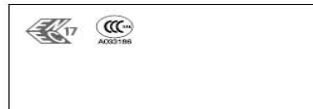
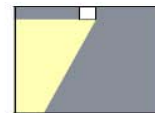
ERCO

TFL Wallwasher

for fluorescent lamps



T16



65043.000 White (RAL9002)
T16 28W G5 2600lm
ECG

Product description

Housing: aluminium profile, powder-coated.

1 cable entries. Through-wiring possible. 3-pole terminal block.

Electronic control gear.

Wallwasher reflector: aluminium, silver, satin matt anodised. Hinged cover for lamp replacement.

Weight 4.00kg

Planning data

Cleaning (a)	1				2				3			
Ambient conditions	P	C	N	D	P	C	N	D	P	C	N	D
LMF	0.94	0.89	0.81	0.72	0.88	0.80	0.69	0.59	0.84	0.74	0.61	0.52
RSMF	0.99	0.98	0.96	0.95	0.97	0.96	0.95	0.94	0.97	0.96	0.95	0.94
Hours of operation (h)	2000	4000	6000	8000	10000	12000	14000	16000	18000	20000		
LLMF	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.88		
LSF	1	1	1	1	1	1	1	1	1	1		

MF LMFxRSMFxLLMFxLSF
 MF Maintenance Factor
 LMF Luminaire Maintenance Factor
 RSMF Room Surface Maintenance Factor
 LLMF Lamp Lumens Maintenance Factor
 LSF Lamp Survival Factor
 P Room pure
 C Room clean
 N Room normal
 D Room dirty

Illuminance E_n (lx)

Specifications:
 Number of luminaires n > 5
 Wall height (m) 3
 T16 28W G5 2600lm

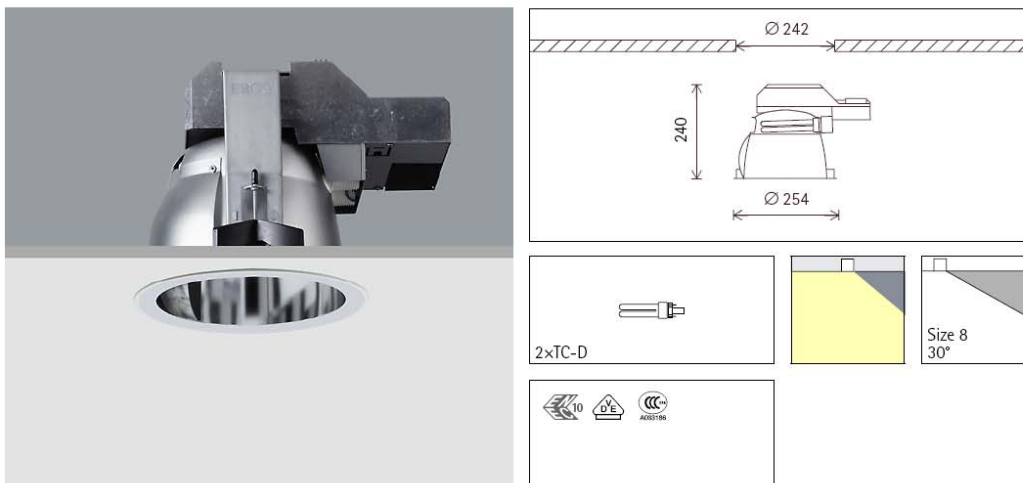
	1.00		1.00		1.25		1.25	
	below the luminaire	between the luminaires	below the luminaire	between the luminaires	below the luminaire	between the luminaires	below the luminaire	between the luminaires
0.250	285	228	258	176	123	117	93	79
0.500	624	559	559	430	396	382	313	252
0.750	619	579	540	463	506	488	390	331
1.000	510	490	439	401	460	450	348	315
1.250	412	403	352	335	394	389	297	278
1.500	333	327	284	275	333	329	250	240
1.750	269	265	230	225	280	277	211	205
2.000	217	213	185	182	235	233	178	174
2.250	176	172	151	149	197	194	150	147
2.500	144	140	125	122	164	162	126	124
2.750	118	116	104	101	137	135	107	105

Type: B1
Lamp: (2)CF26W/835

ERCO

Lightcast Washlight

for TC-D lamps



22215.000 Reflector silver
 2×TC-D 26W G24d-3 1800lm

Product description

Housing: cast aluminium, designed as heat sink.

Mounting ring: cast aluminium, white (RAL9002) powder-coated.

Tools not required for mounting with 4-point support and screw fixing.

Junction box for through-wiring, 5-pole terminal block, integrated cable clamp.

2 sets of low-loss control gear.

Darklight reflector: aluminium, bright anodised. Cut-off angle 30°.

Weight 3.70kg



Lightcast Washlight

Planning data

Cleaning (a)	1				2				3			
	P	C	N	D	P	C	N	D	P	C	N	D
Ambient conditions	0.94	0.89	0.81	0.72	0.88	0.80	0.69	0.59	0.84	0.74	0.61	0.52
LMF	0.99	0.98	0.96	0.95	0.97	0.96	0.95	0.94	0.97	0.96	0.95	0.94

Hours of operation (h)	1000	2000	4000	6000	8000	10000
LLMF	0.97	0.92	0.88	0.85	0.83	0.83
LSF	1	1	1	1	1	1

- MF LMFxRSMFxLLMFxLSF
- MF Maintenance Factor
- LMF Luminaire Maintenance Factor
- RSMF Room Surface Maintenance Factor
- LLMF Lamp Lumens Maintenance Factor
- LSF Lamp Survival Factor
- P Room pure
- C Room clean
- N Room normal
- D Room dirty

Illuminance E_n (lx)

Specifications:
 Number of luminaires $n > 5$
 Wall height (m) 3
 TC-D 26W G24d-3 1800lm

Offset from wall (m)	0.90		0.90		1.20		1.20	
	below the luminaire	between the luminaires	below the luminaire	between the luminaires	below the luminaire	between the luminaires	below the luminaire	between the luminaires
0.250	184	185	141	133	90	91	74	71
0.500	239	245	185	175	123	122	101	96
0.750	250	270	184	222	137	143	113	111
1.000	277	260	218	197	141	152	108	131
1.250	256	266	200	193	163	143	129	118
1.500	253	248	190	194	148	156	124	115
1.750	215	226	182	173	147	147	115	122
2.000	192	194	153	157	142	140	112	114
2.250	165	163	130	138	125	131	109	106
2.500	140	140	115	118	114	118	98	99
2.750	118	120	100	101	104	105	85	90

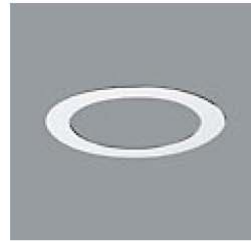
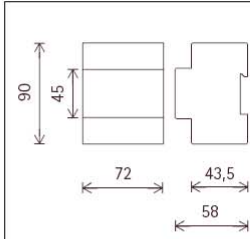
ERCO

Lightcast Washlight

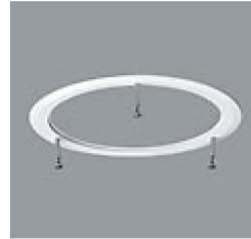
Accessories



83816.000
DALI switching actuator, double, 16A
Two voltage-free contacts for switching ohmic, inductive and capacitive loads max 16A.
DALI interface with two independent addresses.
Mounting on DIN rail.
Weight 0.21kg



83980.000
Cover ring
Metal, white. For covering the gap where ceiling cut-outs are too big.
Inner and outer diameter to be specified when placing order.



83973.000
Fixture
For decorative disc size 8.
Metal ring, white. 3 spacer sleeves, metal chrome-plated.



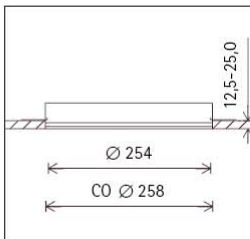
83955.000
Plaster ring
Metal, white.
Height 20mm.



83943.000
Decorative circular disc
Size 8
Plastic white, translucent, mirror-finish.
Only in conjunction with:
83973.000



83777.000
Mounting ring
Metal, white powder-coated. For flush-mounting installation in plasterboard ceilings.



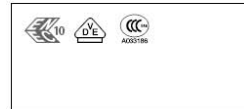
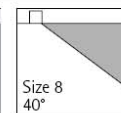
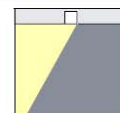
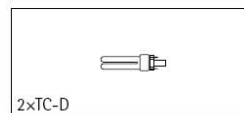
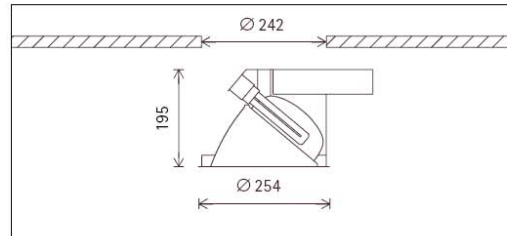
82950.000
Mounting plate for panelled ceilings
Metal, white (RAL9002) powder-coated. Individual design of mounting plates according to ceiling type and luminaire. Quote ceiling type and dimensions.

Type: B2
Lamp: (2)CF26W/830

ERCO

Lightcast Wallwasher

for TC-D lamps



83885.000 Reflector silver
2xTC-D 26W G24d-3 1800lm

Product description

Housing: metal, black powder-coated.

Mounting ring: cast aluminium, white (RAL9002) powder-coated.

2 cable entries, through-wiring possible. 5-pole terminal block.

2 sets of low-loss control gear.

Upper reflector: aluminium, silver anodised.

Darklight reflector: plastic, mirror-finish aluminium vaporised, outside white. Scratch resistant special coating. Cut-off angle 40°.

Weight 2.70kg

ERCO Leuchten GmbH
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58505 Lüdenscheid
Germany
Tel.: +49 2351 551-0
Fax.: +49 2351 551-300
info@erco.com

Technical Region: 230V/50Hz
Edition: December 16, 2005
Please download the current version
from
www.erco.com/83885.000



Lightcast Wallwasher

Planning data

Cleaning (a)	1				2				3				
	P	C	N	D	P	C	N	D	P	C	N	D	
Ambient conditions													
LMF	0.94	0.89	0.81	0.72	0.88	0.80	0.69	0.59	0.84	0.74	0.61	0.52	
RSMF	0.99	0.98	0.96	0.95	0.97	0.96	0.95	0.94	0.97	0.96	0.95	0.94	

Hours of operation (h)	1000	2000	4000	6000	8000	10000
LLMF	0.97	0.92	0.88	0.85	0.83	0.83
LSF	1	1	1	1	1	1

- MF LMFxRSMFxLLMFxLSF
- MF Maintenance Factor
- LMF Luminaire Maintenance Factor
- RSMF Room Surface Maintenance Factor
- LLMF Lamp Lumens Maintenance Factor
- LSF Lamp Survival Factor
- P Room pure
- C Room clean
- N Room normal
- D Room dirty

Illuminance E_n (lx)

Specifications:

Number of luminaires $n > 5$

Wall height (m) 3

TC-D 26W G24d-3 1800lm

Offset from wall (m)	0.90		0.90		1.20		1.20	
	below the luminaire	between the luminaires	below the luminaire	between the luminaires	below the luminaire	between the luminaires	below the luminaire	between the luminaires
0.250	132	127	117	74	44	34	42	21
0.500	438	480	348	332	156	167	133	122
0.750	612	675	463	496	284	311	231	240
1.000	601	658	437	507	344	380	277	302
1.250	521	556	375	446	346	379	273	309
1.500	431	443	311	361	317	344	248	287
1.750	348	347	259	286	280	297	220	251
2.000	278	276	215	228	242	249	191	213
2.250	223	221	178	183	207	207	166	178
2.500	179	178	147	150	175	174	144	150
2.750	147	144	122	124	148	147	124	126

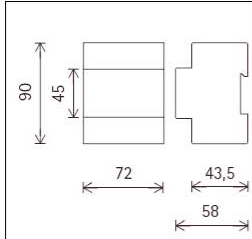
ERCO

Lightcast Wallwasher

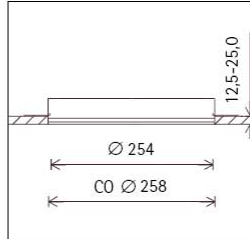
Accessories



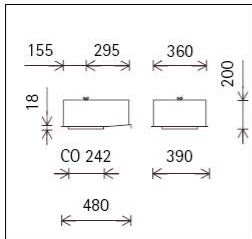
83816.000
DALI switching actuator, double, 16A
Two voltage-free contacts for switching ohmic, inductive and capacitive loads max 16A.
DALI interface with two independent addresses.
Mounting on DIN rail.
Weight 0.21kg



83777.000
Mounting ring
Metal, white powder-coated. For flush-mounting installation in plasterboard ceilings.



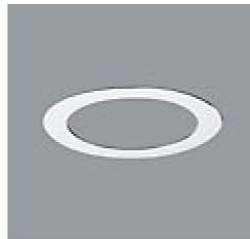
83590.000
Concrete housing
Metal, powder-coated.
Recommended aggregate grain size of the concrete is 0-8mm.
Weight 5.20kg



82950.000
Mounting plate for panelled ceilings
Metal, white (RAL9002) powder-coated. Individual design of mounting plates according to ceiling type and luminaire. Quote ceiling type and dimensions.



83955.000
Plaster ring
Metal, white.
Height 20mm.

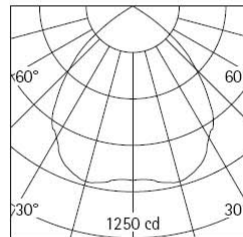
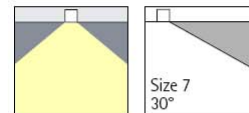
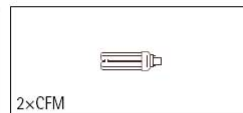
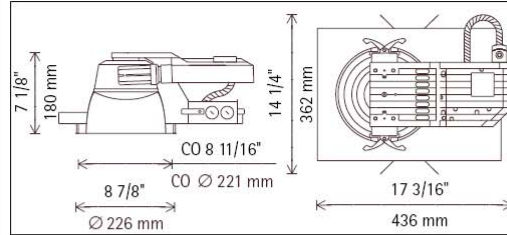


83980.000
Cover ring
Metal, white. For covering the gap where ceiling cut-outs are too big. Inner and outer diameter to be specified when placing order.

Type: B3
Lamp: (2)CF26W/841

ERCO

LC Downlight
 for compact fluorescent lamps



2xCFM 26W GX24q-3 1800lm
 Efficiency: 49%

22225.023 Reflector silver
 2xCFM 26W GX24q-3 1800lm
 ECG

Product description

Housing: cast aluminum, designed as heat sink.

Mounting ring: cast aluminum, white (RAL9002) powder-coated. 4-point support and screw tightening for fixing to mounting plate. Electronic control gear 120V/277V, 60Hz, class P inside cast housing. Mounting plate for preinstallation with junction box for through-wiring. Snap-in plug for connection between junction box and luminaire.

Low brightness reflector: aluminum, specular anodized. Cut-off angle 30° from horizontal. Diffuser as lamp cover: plastic, translucent, for lamp replacement removable without tools.

Type Non IC luminaire.

Insulation materials must be kept away from the luminaire by a minimum of 3". Suitable for damp location. Removal of reflector allows access to junction box from below. Max. ceiling thickness 3/4".

Weight 9.26lbs / 4.20kg

ERCO Lighting, Inc.
 160 Raritan Center Parkway
 Suite 10
 Edison, NJ 08837
 USA
 Tel.: +1 732 225 8856
 Fax: +1 732 225 8857
 info.us@erco.com

Technical Region: 120V/277V, 60Hz
 Edition: December 21, 2005
 Please download latest version from
 www.erco.com/22225.023

ERCO

LC Downlight

Planning Data

22225.023 CFM 26W GX24q-3 1800lm
Connected load P: 52 W
Connected load per 10fc P*: 0.4 W/ft²
Number of luminaires per 10fc n*: 7.0 1/1000ft²

22225.023 CFM 26W GX24q-3 1800lm
Number of luminaires per 1000ft² for
10fc 20fc 30fc 50fc
7 14 22 36

22225.023 CFM 26W GX24q-3 1800lm
Module (ft) 4x6 6x6 6x8 8x8
Illuminance (fc) 59 40 30 22

Correction table

Ceiling	0.70	0.70	0.70	0.50	0
Wall	0.70	0.50	0.20	0.20	0
Floor	0.50	0.20	0.20	0.10	0

k	0.6	77	58	49	49	45
k	1.0	100	77	69	67	63
k	1.5	116	91	84	81	77
k	2.5	129	100	95	90	86
k	3.0	133	103	99	93	89



LC Downlight

Photometric report

Lamp Information

CFM 26W GX24q-3 1800lm

Note:

Photometric data may change when using different lamps. These guide values are based on 10ft ceiling height in a square room of 1000ft² and mean reflectances (ceiling 70 %, walls 50 % and floor 20 %). Other room shapes or reflectances should be converted accordingly. The values include the light loss factor of 0.8.

Coefficients of Utilisation

Reflectances

Ceiling	80	80	80	70	70	70	50	50	50	30	30	30	10	10	10	0
Wall	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
Floor	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20

Room Cavity Ratio

0	62	62	62	60	60	60	56	56	56	53	53	53	50	50	50	49
1	54	54	54	53	53	52	51	51	50	48	48	48	47	46	46	45
2	50	49	48	49	48	47	47	46	45	45	45	44	44	43	43	42
3	46	44	43	45	44	42	43	42	41	42	41	40	41	40	39	38
4	42	40	38	42	40	38	40	39	37	39	38	37	38	37	36	35
5	39	37	35	39	36	34	37	36	34	36	35	33	35	34	33	32
6	36	33	31	36	33	31	35	32	30	34	32	30	33	31	30	29
7	33	30	28	33	30	28	32	29	27	31	29	27	30	28	27	26
8	31	27	25	30	27	25	29	27	25	29	26	24	28	26	24	23
9	28	25	22	28	25	22	27	24	22	26	24	22	26	23	22	21
10	26	23	20	26	22	20	25	22	20	24	22	20	24	21	19	19

Candlepower distribution

Vertical Angle	Candelas		
	0°	45°	90°
0°	939	939	939
10°	965	965	965
20°	953	953	953
30°	819	819	819
40°	623	623	623
50°	347	347	347
60°	4	4	4
70°	0	0	0
80°	0	0	0
90°	0	0	0

Zonal Lumen Summery

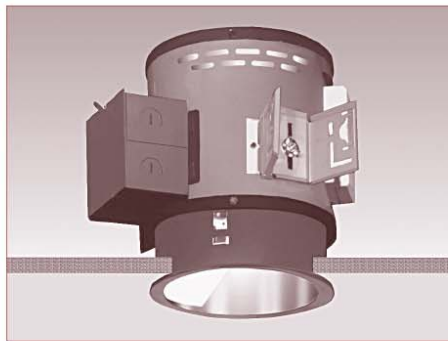
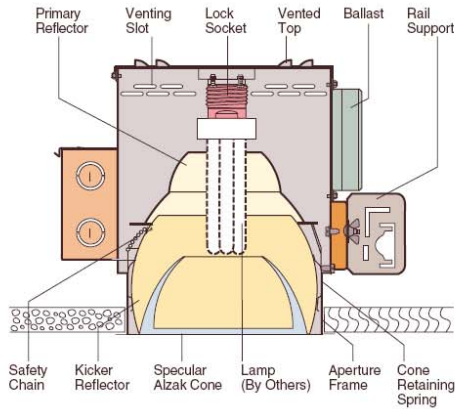
Zone	Lumens	%Lamp	%Fixture
0°	0	0	0
10°	91	3	5
20°	365	10	21
30°	778	22	44
40°	1239	34	70
50°	1610	45	91
60°	1761	49	100
70°	1762	49	100
80°	1762	49	100
90°	1762	49	100

Luminance Data

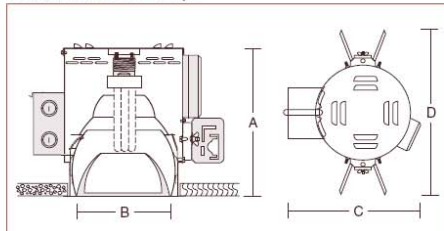
Vertical Angle	Footlamberts		
	0°	45°	90°
45°	7995	7995	7995
50°	6334	6334	6334
55°	3445	3445	3445
60°	95	95	95
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

Type: B4

Lamp: (1)CF26W/841



Dimensions and Lamps



Number	A Depth*	B Aperture	C Width	D Length	Lamp**
P905	9 3/4" 248mm	5 1/4" 149mm	10 1/2" 267mm	13 1/4" 337mm	26W or 32W Triple Tube
P915	10 1/4" 260mm	5 1/4" 149mm	10 1/2" 267mm	13 1/4" 337mm	42W Triple Tube

* Recess depth increases to 12 1/2" with EM and DM accessories.
 ** For proper focal position for 26W lamps, add 26W to catalog number.

Matching Units

Medium beam downlight [Page P51](#)
 Medium wide beam downlight [Page P52](#)
 Wall washers [Pages P61, P62](#)

** Click for link to pages in blue.

P905 One 26W or 32W Triple Tube Lamp **P63**
P915 One 42W Triple Tube Lamp

Wall Washers
 5 7/8" Conoid Aperture

Optics and Applications

Full circle kicker reflectors direct a uniform wash light to adjacent walls. The pattern is free from spikes, striations or dropouts and features wide lateral distribution. The downlight component is uniform with a soft edge to blend with nearby units. Use in low to medium height ceilings.

Design Features

Steel housings protect the reflectors which are joined to each other for predictable performance. The turn and lock socket prevents the lamp from falling if it is not properly engaged. It is a dependable fail safe mechanism to prevent injury and litigation. Cone and window assembly may be rotated 360° after installation. Vented air flow design assures cool fixture temperature for optimal lamp performance. Maximum ceiling thickness 2". Ballast and lamp service from below.

Finish

Specular clear Alzak cones are standard. Optional colors and Softglow® finishes are available. Housings and structural parts are painted optical matte black to suppress stray light leaks. Steel parts are phosphate conditioned for corrosion resistance before painting.

Ballasts

Fully electronic, microprocessor controlled with variable starting current for inrush protection to assure rated lamp life. Input voltage ranges from 120V through 277V. Power factor .98, starting temperature 0° F (-18° C), THD < 10%. Pre-heat start < 1.0 second. End of lamp life protection. Rated for > 50,000 starts.

General

Fixtures are pre-wired, UL and C-UL listed for eight wire 75°C branch circuit wiring. Union made IBEW. Luminaire Efficiency Ratings (LER) do not apply to wall washers.

Accessories

G Gold cone.	R2 26" support rails.
H Mocha cone.	R5 52" support rails.
P Graphite cone.	WT White trim flange.
T Titanium cone.	WHT White complete trim.
W Wheat cone.	V347 347 volt ballast.
Y Pewter cone.	F Fuse.
Z Bronze cone.	

S Softglow® finishes: add S before color letters. e.g. SW for Softglow® wheat cone, SC for Softglow® clear cone.

DM Dimming ballast. Specify watts and volts.

EM Emergency power includes integral charger light and test switch visible through aperture. Single lamp operation for 90 minutes. Specify volts.

WRL Wattage restriction label, specify wattage.

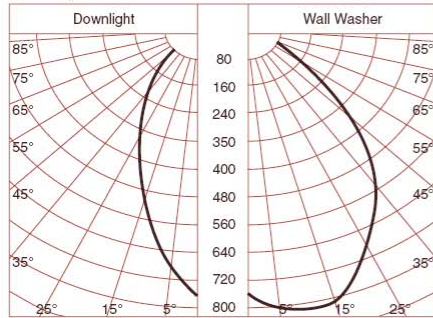
- L Limited wall wash.
- D Double wall wash.
- C 250° corner wall wash.

kurt versen

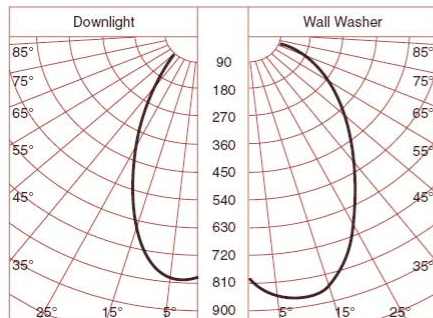
Kurt Versen Company Point Source Lighting
 Westwood, New Jersey 07675

P63 P905 P915

Candlepower Distribution Curves



P905 One 32W Philips Triple Tube



P915 One 42W Philips Triple Tube

Multiple Units Footcandles

From Ceiling	2' from wall		3' from wall		4' from wall							
	2' Centers		3' Centers		4' Centers		6' Centers					
	CL	Mid	CL	Mid	CL	Mid	CL	Mid				
1'	26	26	20	16	8	8	6	5	3	3	2	2
2'	48	43	38	27	15	14	12	10	7	7	5	4
3'	43	42	31	27	22	20	18	13	9	9	7	5
4'	32	32	23	21	21	20	17	15	12	11	10	6
5'	24	24	16	16	18	18	14	13	12	12	9	7
6'	18	18	12	12	15	15	11	11	11	11	8	7
7'	14	14	9	9	12	12	9	9	10	9	7	6
8'	11	11	7	7	10	10	7	7	8	8	6	5
10'	7	7	5	5	7	7	5	5	6	6	4	4
12'	5	5	3	3	5	5	4	4	4	4	3	3

P905 One 32W Philips Triple Tube
P905 One 32W Osram Sylvania x .85

From Ceiling	2' from wall		3' from wall		4' from wall							
	2' Centers		3' Centers		4' Centers		6' Centers					
	CL	Mid	CL	Mid	CL	Mid	CL	Mid				
1'	51	46	40	28	15	14	12	9	6	5	5	3
2'	60	56	45	35	26	25	21	17	13	12	10	6
3'	47	47	33	30	27	25	22	17	15	14	11	9
4'	35	36	24	23	23	23	18	16	15	14	11	8
5'	27	27	18	18	19	19	15	14	14	13	10	8
6'	20	21	13	13	16	15	12	12	12	12	8	7
7'	16	16	10	10	13	13	10	10	10	10	7	7
8'	12	12	8	8	11	10	8	8	8	9	6	6
10'	8	8	5	5	7	7	6	6	6	6	4	4
12'	5	5	3	3	5	5	4	4	4	5	3	3

P915 One 42W Philips Triple Tube
P915 One 42W Osram Sylvania x .85

Notes

- Data by IES methods. Compact fluorescent data vary due to lamp lumen differences, power input, burning position, ambient temperature and ballast characteristics. A modification factor should be applied.
- Above data measure output of the wall washers only. No contribution from adjacent downlights or ceiling, floor or wall reflectances is included. Total illumination on the wall will increase with the contribution from other sources.
- Data are cosine corrected to the plane of the wall. Uncorrected data would be substantially higher and depend upon the angle of incidence to the wall which varies with the mounting distance from the wall.
- Kurt Versen wall washers are designed to minimize hard shadow lines at the ceiling. Light intensity increases gradually to the maximum area, just above eye level. The field is uniform, devoid of hot spots, striations and spikes.
- If colored cones are required, only the downlight cone will be tinted. The kicker reflector is always clear Alzak for maximum output and true color rendition.
- Specular cone multipliers: Use for downlight and brightness data only: Gold x .93, Wheat x .89, Pewter x .81, Mocha x .79, Graphite x .76, Titanium x .76, Bronze x .73.
- Softglow® cone multipliers: Use for downlight and brightness data only: Clear x .96, Gold x .90, Wheat x .89, Pewter x .74, Mocha x .77, Graphite x .72, Titanium x .72, Bronze x .70.
- Brightness data from the Average Luminance Method are inaccurate for small aperture downlights. They are theoretical calculations derived for large surfaces such as troffers. For a complete discussion refer to section Z brochure Z1.

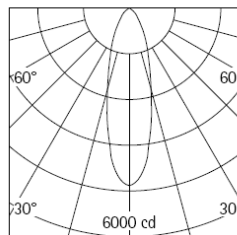
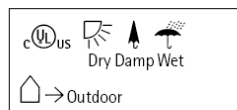
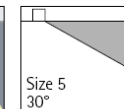
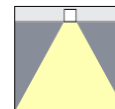
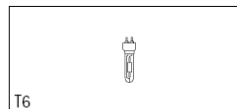
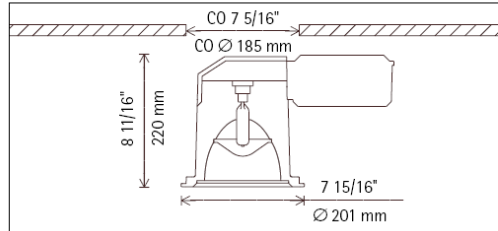
Brightness

Number	Lamps	85°	75°	65°	55°	45°
P905	One 32W Philips Triple Tube	9	18	42	2748	11404
	One 32W Osram Triple Tube	11	27	55	6727	13651
P915	One 42W Philips Triple Tube	11	23	57	3685	15394
	One 42W Osram Triple Tube	12	24	60	7376	14970

Data in footlamberts. Photometer readings, Maximum Brightness Method. See note 8.

Type: C1
Lamp: (1)MH39W/830

ERCO LC Downlight
 for metal halide lamps



T6 39W G12 3400lm

h(ft)	E(fc)	D
3	518	29° 17"
6	129	31° 3'1"
9	58	48° 4'8"
12	32	62° 6'2"
15	21	79° 7'9"

81022.023 Reflector silver
 T6 39W G12 3400lm
 ECG

Product description
 Housing: cast aluminum, silver powder-coated. Mounting with 3-point support and screw-tightening. Side-mounted control gear: cast aluminum, black powder-coated.
 Electronic control gear 120V/277V, 60Hz. Through-wiring possible.
 Low brightness reflector: aluminum, specular anodized. Cut-off angle 30° from horizontal. Diffuser as lamp cover: glass, frosted.
 Screw-fastened cover ring with safety glass: corrosion-resistant, cast aluminum, No-rinse surface treatment. Silver, double powder-coated. To be removed together with low-brightness reflector for lamp replacement.
 Suitable for wet location (IP65): dust-proof and water jet-proof.
 Weight 9.26lbs / 4.20kg

ERCO Lighting, Inc.
 160 Raritan Center Parkway
 Suite 10
 Edison, NJ 08837
 USA
 Tel.: +1 732 225 8856
 Fax: +1 732 225 8857
 info.us@erco.com

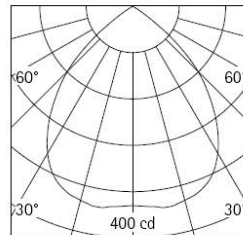
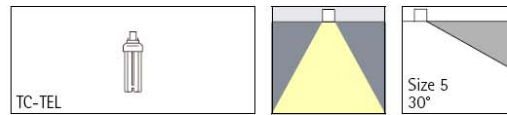
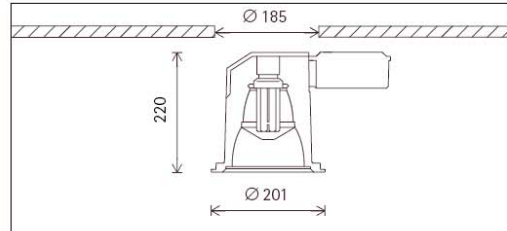
TechnischeUmgebung
 Edition: December 21, 2005
 Please download latest version from
www.erco.com/Artikelnummer

Type: C2
Lamp: (1)CF18W/830

ERCO

Lightcast Downlight

for compact fluorescent lamps



TC-TEL 18W GX24q-2 1150lm

h(m)	E(lx)	D(m)
		87°
1	344	1.90
2	86	3.80
3	38	5.69
4	22	7.59
5	14	9.49

81029.000 Reflector silver
 TC-TEL 18W GX24q-2 1150lm
 ECG

Product description

Housing: cast aluminium, silver powder-coated. Mounting with 3-point support and screw-tightening. Side-mounted control gear: plastic, black.
 Electronic control gear. 2 cable entries. Through-wiring possible. 5-pole terminal block.
 Darklight reflector: aluminium, bright anodised. Cut-off angle 30°.
 Diffuser as lamp cover: plastic, translucent.
 Screw-fastened cover ring with safety glass: corrosion-resistant, cast aluminium, No-rinse surface treatment. Silver double powder-coated. To be removed together with Darklight reflector for lamp replacement.
 Protection mode IP65: dust-proof and water-jet proof.
 Weight 2.40kg



Lightcast Downlight

Planning data

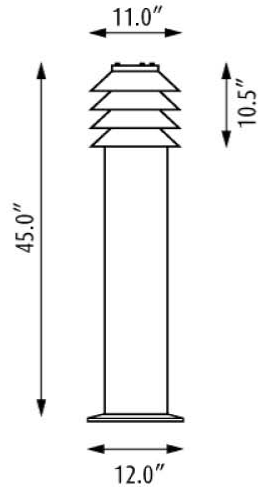
Cleaning (a)	1				2				3			
Ambient conditions	P	C	N	D	P	C	N	D	P	C	N	D
LMF	0.98	0.94	0.90	0.86	0.95	0.91	0.86	0.81	0.94	0.90	0.84	0.79
RSMF	0.99	0.98	0.96	0.95	0.97	0.96	0.95	0.94	0.97	0.96	0.95	0.94

Hours of operation (h)	1000	2000	4000	6000	8000	10000
LLMF	0.97	0.92	0.88	0.85	0.83	0.83
LSF	1	1	1	1	1	1

- MF LMFxRSMFxLLMFxLSF
- MF Maintenance Factor
- LMF Luminaire Maintenance Factor
- RSMF Room Surface Maintenance Factor
- LLMF Lamp Lumens Maintenance Factor
- LSF Lamp Survival Factor
- P Room pure
- C Room clean
- N Room normal
- D Room dirty

Bysted

Design: Peter Bysted



Bysted provides downward illumination. The louver shades are painted white on the inside, to optimize the reflected light and creates a distinct circular pattern of light on the ground. Bysted has a ruggedness that makes it suitable for use in public areas. The Cor-Ten steel and cast iron will oxidize with a thin layer of uniform rust.

Finish
Cor-Ten steel, raw.

Material
Housing: Die cast iron. Post: Cor-Ten steel.
Base plate: Cor-Ten steel.

Mounting
Base plate: Mounted to a concrete base with 4 anchor bolts. Base plate dimension: 12.0" dia.

Weight
Max. 94 lbs.

Label
cUL, Wet location, IBEW.

Type: C3
Lamp: (1)MH100W/830



Specification

- 1 | **Product code**
BYS
- 2 | **Light source**
1/100W/A-21/CL medium
1/100W/HPS/ED-17 medium
1/100W/MH/ED-17 medium
- 3 | **Voltage**
120/277V
120V
- 4 | **Finish**
COR-TEN

Specification notes:
a. HID variants are provided with one 120/277V F-can style ballast.
b. Incandescent variant is only available in 120V.

Info notes:
I. Cor-Ten steel contains copper and carbon steel. After weathering, a thin, uniform layer of rust appears and acts to self-protect the surface from further corrosion thus eliminating the need for future maintenance. The process of oxidation causes the surface to bleed. Care must be taken to install the bysted fixture in a drainage pit or in grass to prevent surface staining. II. The comparable EU version has the following application: Ingress Protection Code: IP44.

Type: C4
Lamp: (1)MH50W/830

Providence™

page 1 of 6

DATE

TYPE



- Die cast aluminum construction for corrosion resistance.
- Tool-less access and removal of the reflector, lamp and ballast.
- Type 2, 3, 4 and 5 full cutoff, horizontal reflectors.
- Type 3 and type 5 vertical lamp cutoff reflectors.
- Asymmetric and symmetric indirect, cutoff optical system.
- 50 to 175 watts HID including T-6 CDM lamps and electronic ballasts for metal halide lamps.
- Separate die cast aluminum ballast module for cooler operation and extended component life.
- Powder coat finish in ten standard colors with a polychrome primer.
- Slips over a 4 inch tenon for arm or pole mounting.



Architectural Area Lighting

14249 Artesia Blvd / La Mirada, CA 90638
714.994.2700 / fax 714.994.0522 / www.aal.net
Design patents, Copyright 2005.

PROV _____ / _____ / _____ / _____ / _____ / _____
 FIXTURE 1 LAMP/BALLAST 2 COLOR 3 OPTIONS 4 DECORATIVE ARMS 5 POLE/BASE 6

1 Fixture

- PROV-H2 type 2 horizontal reflector, flat tempered clear glass lens
- PROV-H3 type 3 horizontal reflector, flat tempered clear glass lens
- PROV-H4 type 4 horizontal reflector, flat tempered clear glass lens
- PROV-H5 type 5 horizontal reflector, flat tempered clear glass lens
- PROV-V3 type 3 vertical reflector, tempered clear sag glass lens
- PROV-V5 type 5 vertical reflector, tempered clear sag glass lens
- PROV-INDA asymmetric indirect, indirect reflective optical system, metal halide lamps only.
- PROV-INDS symmetric indirect, indirect reflective optical system, metal halide lamps only.

2 Lamp/Ballast

- 50MH 50 watt metal halide 120/277 volt ballast. Use a medium base, clear ED-17 lamps.
- 50MHEB 50 watt electronic metal halide ballast, 120 thru 277 volt. Use a medium base, clear ED-17 lamp.
- 70MH 70 watt metal halide 120/208/240/277 volt ballast. Use a medium base, clear ED-17 lamps.
- 70MHEB 70 watt electronic metal halide ballast, 120 thru 277 volt. Use a medium base, clear ED-17 lamp.
- 70MHT6 70 watt metal halide 120/277 volt ballast. Use a G12 base, clear T-6 ceramic lamp.
- 70MHT6EB 70 watt electronic metal halide ballast, 120 thru 277 volt. Use a G12 base, clear T-6 ceramic lamp.
- 100MH 100 watt metal halide 120/208/240/277 volt ballast. Use a medium base, clear ED-17 lamps.
- 150MH 150 watt metal halide 120/208/240/277 volt ballast. Use a medium base, clear ED-17 lamps.
- 150MHEB 150 watt electronic metal halide ballast, 120 thru 277 volt. Use a medium base, clear ED-17 lamp.
- 150MHT6 150 watt metal halide 120/208/240/277 volt ballast. Use a G12 base, T-6 ceramic MH lamp.
- 150MHT6EB 150 watt electronic metal halide ballast, 120 thru 277 volt. Use a G12 base, T-6 ceramic MH lamp.
- 175MH 175 watt metal halide 120/208/240/277 volt ballast. Use a medium base, clear ED-17 lamps.
- 70HPS 70 watt high pressure sodium 120/208/240/277 volt ballast. Use a medium base, clear ED-17 lamps
- 100HPS 100 watt high pressure sodium 120/208/240/277 volt ballast. Use a medium base, clear ED-17 lamps.
- 150HPS 150 watt high pressure sodium 120/208/240/277 volt ballast. Use a medium base, clear ED-17 lamps.

All HID ballasts are multi-tap, prewired for 277 volts. Lamps not included.

- CF Electronic transformer for 26, 32 or 42 watt compact fluorescent lamp 120 through 277 volt.
For Horizontal reflectors only.

3 Color

- | | |
|---|---|
| <ul style="list-style-type: none"> <input type="checkbox"/> WHT White <input type="checkbox"/> LGY Light Grey <input type="checkbox"/> MAL Matte Aluminum <input type="checkbox"/> MDG Medium Grey <input type="checkbox"/> ATG Antique Green <input type="checkbox"/> VGR Verde Green <input type="checkbox"/> WRZ Weathered Bronze | <ul style="list-style-type: none"> <input type="checkbox"/> DGN Dark Green <input type="checkbox"/> CRT Corten <input type="checkbox"/> BRM Metallic Bronze <input type="checkbox"/> DBZ Dark Bronze <input type="checkbox"/> BLK Black <input type="checkbox"/> MTB Matte Black <input type="checkbox"/> RAL # <input type="checkbox"/> CUSTOM |
|---|---|

SOLD TO _____ PO # _____ JOB NAME _____

Approvals

Architectural Area Lighting
 14249 Artesia Blvd / La Mirada, CA 90638
 714.994.2700 / fax 714.994.0522 / www.aal.net
 Design patents, Copyright 2006.

4 Options



SPK

Decorative cast aluminum spikes on the top and bottom of the four vertical struts.



PFN

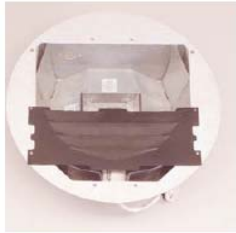
Cast aluminum finial painted a brass color.



PCA-T

Rotatable photocell housing. The housing slips over a 4"/100mm o.d. pole, a fixture slips over the 4"/100mm o.d. tenon. Includes an internal twist lock receptacle, and an access cover with integral lens. Photocell by others.

EGRESS AND EMERGENCY OPTIONS



HSS

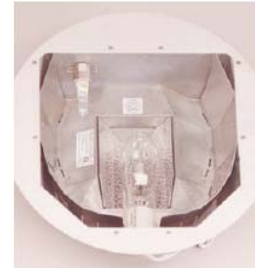
HOUSE SIDE SHIELD
For horizontal and vertical reflector models. House side shield to cut off light behind the pole and shield the lamp from view.



LDL

LOW BRIGHTNESS LENS
Frosted, flat tempered glass lens has a lightly diffused finish to minimize the lamp and reflector brightness. For horizontal reflector models.

Egress lighting codes require an illuminated path to allow occupants to get a safe distance from the building during a power failure or other emergency. In conjunction with the proper wiring, these two options can be implemented to provide egress lighting.



QL

HALOGEN LAMP CIRCUIT
Socket for a T-4 mini-cand halogen lamp, maximum 150 watt. Must be field wired to a separate 120 volt circuit. Not available for indirect models.

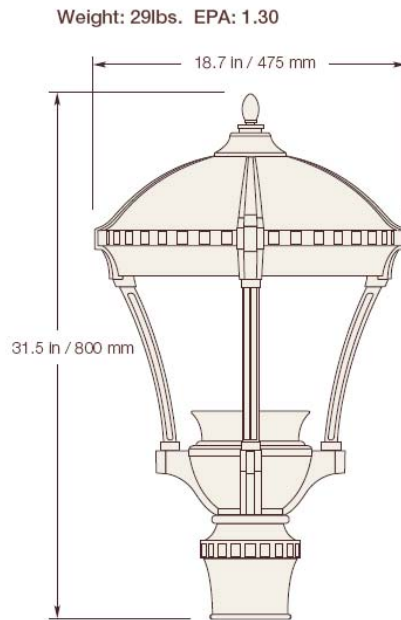
QRS

RESTRIKE CONTROLLER
Quartz restrike controller and socket for a T-4 mini-cand halogen lamp, maximum 150 watt. Not for use with electronic metal halide ballasts. Not available for indirect models.

Architectural Area Lighting

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Design patents, Copyright 2005.

Specifications



REFLECTOR MODELS - REFLECTOR/LAMP

The upper lamp housing shall be die cast aluminum. The internal reflector module is sealed from the outer housing with a molded silicone gasket. The tempered glass lens shall be sealed to the housing with a silicone gasket. One stainless steel latch shall release the door to allow access the lamp.

The reflector module shall be composed of faceted, specular and semi specular anodized aluminum panels rigidly attached in a die cast aluminum housing. The reflector shall be removed without tools by lifting it out of the four spring loaded posts. The reflector tray shall be rotatable on 90° centers for orienting the light distribution. The horizontal and vertical lamp reflectors shall meet ANSI-IES standards for full cutoff reflector systems.

REFLECTOR MODELS - BALLAST

The lower ballast housing shall be die cast aluminum. The tool-less ballast access for servicing is accomplished by a quarter turn motion of the top cover. The ballast shall be mounted on a prewired tray with a quick disconnect plug

attached to the underside of the cover. HID ballasts are high power factor, rated for -30°F starting. Electronic ballasts for metal halide lamps are sound rated A. Sockets are medium base for ED-17 lamps, G12 for use with T6 lamps. All sockets are pulse rated porcelain. Ballasts are multi-tap, wired at the factory for 277 volts. Compact fluorescent transformers shall accept 120 to 277 volt input and rated for 0°F starting.

INDIRECT MODELS - LOWER LAMP MODULE

The lower housing shall contain the lamp module. The cover shall be die cast aluminum with a tempered glass lens. The lamp shall be accessed by turning the lamp housing cover a quarter turn. The reflector shall be polished, anodized aluminum with an extremely narrow beam for directing the light to the upper reflector. Sockets are medium base for ED-17 lamps or G12 for use with T6 lamps, All sockets are pulse rated porcelain.

INDIRECT MODELS - UPPER REFLECTOR/BALLAST

The die cast aluminum upper housing shall contain the ballast assembly and the indirect reflector. The tool-less ballast access for servicing is accomplished single flip up latch and hinged top cover. The ballast shall be mounted on a prewired tray with a quick disconnect plug. The HID ballasts are high power factor, rated for -30°F starting. Ballasts are multi-tap, wired at the factory for 277 volts. The indirect reflector is mounted to the underside of the upper housing. The reflector shall be die cast aluminum, finished in a high reflectance white. The indirect reflector models shall be IES classified as cutoff with less than 1% lumen output above 90 degrees.

INSTALLATION & MOUNTING

The Providence series shall be factory supplied as a complete, prewired assembly. The fitter shall slip over a 4"/100mm open top pole or arm and be secured and leveled with three stainless steel set screws.

FINISH

Fixture finish consists of a five stage pretreatment regimen with a polymer primer sealer, oven dry off and top coated with a thermoset super TGIC polyester powder coat finish. The finish shall meet the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance.

CERTIFICATION

The fixture shall be listed with ETL for outdoor, wet location use, UL1598 and Canadian CSA Std. C22.2 no.250. IP=55.

Architectural Area Lighting

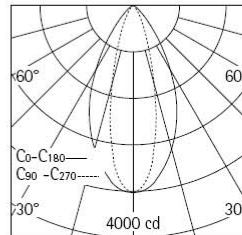
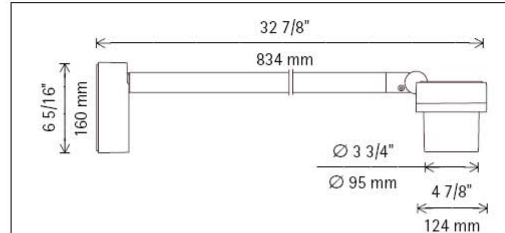
14249 Artesia Blvd / La Mirada, CA 90638
714.994.2700 / fax 714.994.0522 / www.aal.net
Design patents, Copyright 2005.

Type: C5
Lamp: (1)MH39W/830

ERCO

Grasshopper Projector

with cantilever for metal halide lamps



34028.023 Graphit m
 T4 39W G8.5 3300lm
 ECG

Product description

Housing, hinge and mounting plate: corrosion-resistant, cast aluminum, No-Rinse surface treatment. Double powder-coated. Optimized surface for reduced accumulation of dirt. Hinge with graduations and internal wiring, 80° tilt. Mounting plate rotatable through 360°.

Cantilever: corrosion-resistant aluminum tube.

Electronic control gear 120V, 60Hz. 2 cable entries. Through-wiring possible. 3-pole terminal block.

Spherulit reflector, spot: aluminum, silver, specular anodized. Sculpture lens for uniform illumination of close proximity areas.

Compact lamp head with improved lamp screening for optimum visual comfort. Corrosion-resistant cast aluminum, double powder-coated.

Suitable for wet location (IP65): dust-proof and water jet-proof.

Weight 7.83lbs / 3.55kg

T4 39W G8.5 3300lm

h(ft)	E(fc)	D	C0	C90
3	358	53"	2'12"	1'5"
6	89	5'12"	2'11"	4'4"
9	40	8'12"	5'9"	7'2"
12	22	11'12"		
15	14	14'11"		

ERCO Lighting, Inc.
 160 Raritan Center Parkway
 Suite 10
 Edison, NJ 08837
 USA
 Tel.: +1 732 225 8856
 Fax: +1 732 225 8857
 info.us@erco.com

Technical Region: 120V/60Hz
 Edition: December 21, 2005
 Please download latest version from
 www.erco.com/34028.023

ERCO

Grasshopper Projector

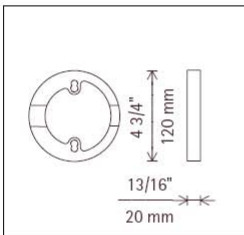
Accessories



33973.000
Ground spike
Metal, hot-dip galvanized.
Cable entry.



34990.000
Spacer
for cables mounted on top of plaster.
Corrosion-resistant, cast aluminum, No-Rinse surface treatment. Graphite double powder-coated.
Weight 0.35lbs / 0.16kg



Type: D1
Lamp: (1)CF18W/830



PIW1000
Painted-White



PIW1002
Painted-White



PIW1004
Painted-White



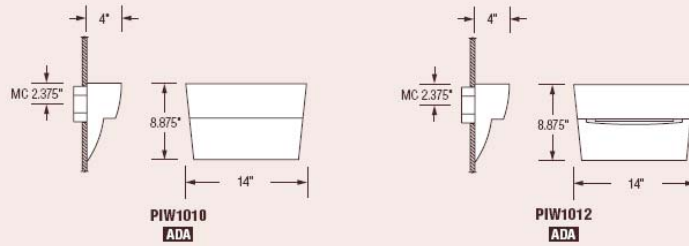
PIW1006
Painted-White with Brushed Brass Over Steel Accent

Scoop Surface Mount Sconce

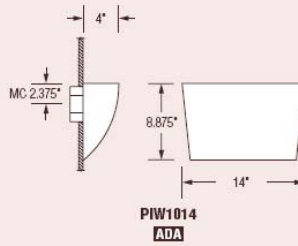
PHACES

14"

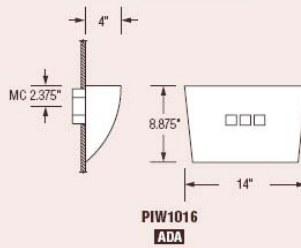
Stepped



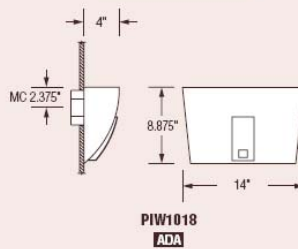
Scoop



Scoop with Window



Scoop with Accent



Specifications:

- 18 gauge formed cold-rolled steel housing
- ADA compliant
- Integral ballast
- Ballast thermally protected
- Universal mounting holes and direct access to a standard 4" octagonal junction box.
- UL listed for damp locations. (Not recommended for exterior use.)

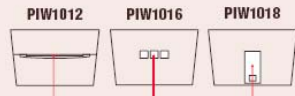
Design modification rights reserved.

MC = Mounting Center

Sample model number: **PIW1012 - 1F42 - 120 - PT03 - PBST - TL**

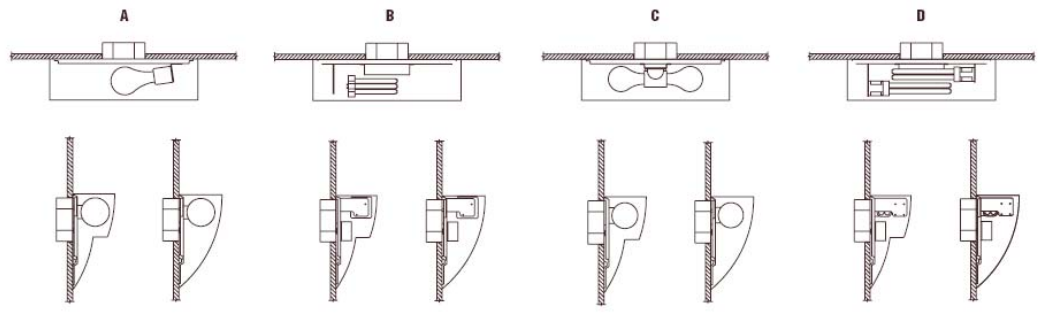
Select Style	Select any Lamping (indirect/bowl illumination)	Select Voltage	Select Finish	Select Accent Finish*	Select Options																								
PIW1010 PIW1012 PIW1014 PIW1016 PIW1018	<table border="1"> <thead> <tr> <th>Lamping Detail (indirect - bowl illumination)</th> <th>Optical Pkg. Photometry</th> </tr> </thead> <tbody> <tr><td>1N150</td><td>(1) 150W A21 INC A NA</td></tr> <tr><td>1F13</td><td>(1) CFQ13W/G24q B E14-2</td></tr> <tr><td>1F26</td><td>(1) CFQ26W/G24q B E14-2</td></tr> <tr><td>1F26DM</td><td>(1) CFQ26W/G24q B E14-2</td></tr> <tr><td>1F32</td><td>(1) CFTR32W/G24q B E14-2</td></tr> <tr><td>1F32DM</td><td>(1) CFTR32W/G24q B E14-2</td></tr> <tr><td>1F42</td><td>(1) CFTR42W/G24q B E14-2</td></tr> <tr><td>1F42DM</td><td>(1) CFTR42W/G24q B E14-2</td></tr> <tr><td>2N75</td><td>(2) 75W A19 INC C NA</td></tr> <tr><td>2F13</td><td>(2) CFQ13W/G24q D E14-2</td></tr> <tr><td>2F26</td><td>(2) CFQ26W/G24q D E14-2</td></tr> </tbody> </table>	Lamping Detail (indirect - bowl illumination)	Optical Pkg. Photometry	1N150	(1) 150W A21 INC A NA	1F13	(1) CFQ13W/G24q B E14-2	1F26	(1) CFQ26W/G24q B E14-2	1F26DM	(1) CFQ26W/G24q B E14-2	1F32	(1) CFTR32W/G24q B E14-2	1F32DM	(1) CFTR32W/G24q B E14-2	1F42	(1) CFTR42W/G24q B E14-2	1F42DM	(1) CFTR42W/G24q B E14-2	2N75	(2) 75W A19 INC C NA	2F13	(2) CFQ13W/G24q D E14-2	2F26	(2) CFQ26W/G24q D E14-2	120 277	PT__ Painted. (Include Paint Number.)	PT__ Painted. (Include Paint Number.) ABST Antique brass over steel BBST Brushed brass over steel CPST Polished chrome over steel PBST Polished brass over steel <i>See Finish Selection Guide, pages 268-269.</i>	TL Top Lens. Clear tempered glass. Standard on 1T150 lamping. F Fuse option. Factory installed. EMI Integral Emergency Lighting. Use with RAB - recessed accessory box. Fluorescent only. Battery lumen packages 650 and below. EMR Remote Emergency Lighting. Fluorescent only. Required for battery lumen packages greater than 650. RAB Recessed Accessory Box. Required with DM and EMI options. <i>For further detail on options, see Technical Notes on page 266.</i>
Lamping Detail (indirect - bowl illumination)	Optical Pkg. Photometry																												
1N150	(1) 150W A21 INC A NA																												
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2F26	(2) CFQ26W/G24q D E14-2																												

DM = Dimming ballast(s) provided (Requires **RAB** option.)
If Photometry is not available, consult factory for further details.



Add **Accent Finish** to specify finish of accent element.

OPTICAL PACKAGES



Type: **D2**
Lamp: **(1)CF13W/830**



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Hammered Brown Resin Table Lamp

sale
\$45.00
List price: ~~\$49.99~~
You Save: \$4.99 (10%)

Quantity: 1

OR

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-
-
-

Availability :
Usually ships within 24 hours.

FEATURES DESCRIPTION ADDITIONAL INFO SHIPPING INFO

- Off-white fabric lampshade
- 150-watt maximum
- 29Hx17-1/2Wx17-1/2L"
- UL listed

Better Together

Buy this [Hammered Brown Resin Table Lamp](#) with [Wicker Rattan Table Lamp](#) today!



[Hammered Brown Resin Table Lamp](#)
Our Price: **\$45.00**



[Wicker Rattan Table Lamp](#)
Our Price: **\$31.00**

Total List Price: \$84.98
Buy Together Today:
\$76.00

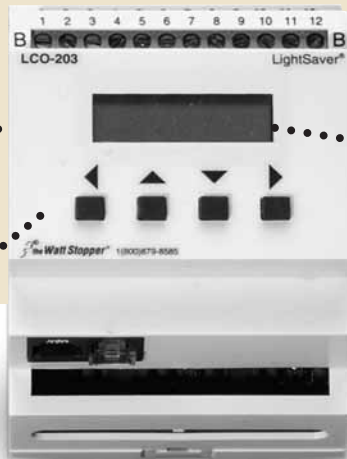


LightSaver® LCO-203 ON/OFF Switching

Automatic ON/OFF daylighting control module

Multi-level switching

Pushbutton programming and automated setup



Five individually programmable adjustments for each control channel

LCD display of light level readings

Open loop control

PROJECT

LOCATION/TYPE

Product Overview

Description

Watt Stopper/Legrand's LightSaver LCO-203 provides automatic ON/OFF switching control for fluorescent and HID fixtures. It is an open loop controller providing up to three zones of control from a single photocell.

Operation

The LCO controller is part of a system that includes the LS-290C photocell and the BT-203 Power Pack. Each of the LCO controller's three channels connects directly with its own dedicated relay in the power pack. The photocell measures daylight and transmits these data to the LCO controller. When daylight is adequate, the LCO controller switches lighting off. When daylight diminishes below the desired setpoint, the LCO controller switches lighting back on. The ON and OFF delays for each channel are individually adjustable. The LCO controller integrates with occupancy sensors as well as an optional wall switch for manual overrides.

Multiple Channel Control

Multi-channel control enables gradual, multi-level switching of electric lighting as the daylight contribution increases. The LCO can be used to either switch off individual rows of lamps in a luminaire or entire luminaires. This gradual reduction is likely to provide more balanced lighting while being less distracting to occupants.

Applications

Spaces such as warehouses, storage areas, atriums, lobbies, and open office areas will benefit from use of the LCO controller.

Features

- Simplified setup and calibration
- Optional wall switch (LS-4C) provides ON/OFF control so users can adjust lighting
- Five individually adjustable parameters for each channel: ON delay, OFF delay, deadband, setpoint, load shed setpoint
- Menu-driven, pushbutton programming without special tools
- Automatic internal calculation of daylight contribution for each channel for simplified setup
- DIN rail mounting
- Suitable for mounting in low voltage section in control panel
- California Title 24-2005 compliant





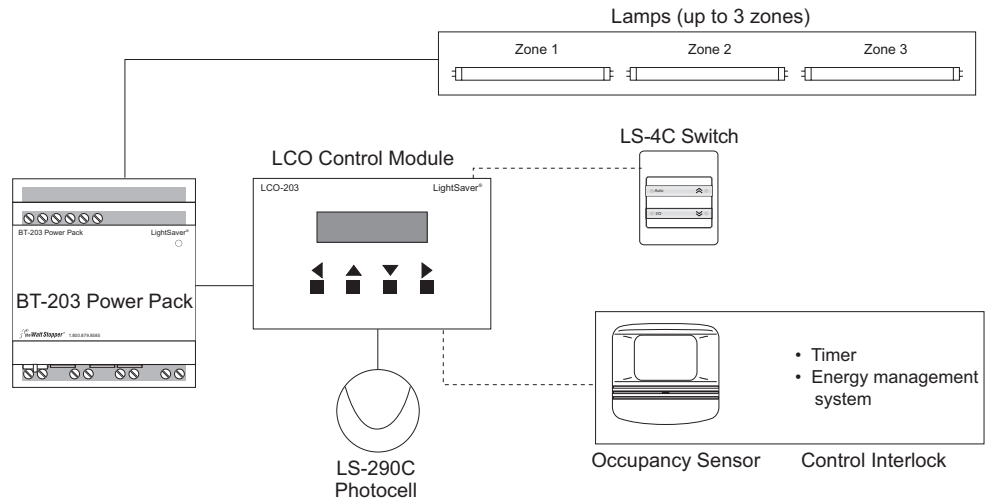
LCO-203 Technical Information

Specifications

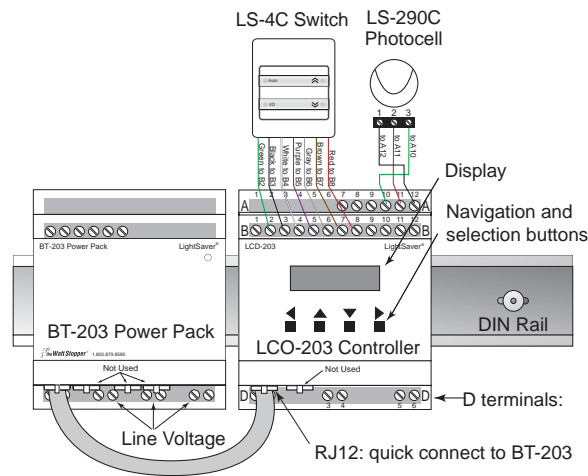
- Class 2 low voltage device
- Photocell range from 3 - 6,000 footcandles
- Setpoint range from 5-60 fc
- Programmable deadband from 10%-80%
- Adjustable ON delay from 5-60 seconds
- Adjustable OFF delay from 3-60 minutes
- Load shed setpoint from 5-60 fc
- 24VDC supply voltage provided by BT-203
- Dimensions: 3.5" x 2.81" x 2.5" (89mm x 71mm x 64mm) LxWxD
- UL and CUL listed; five year warranty

System Layout & Wiring

System Layout



LCO-203 Wiring and Settings



Ordering Information

Catalog No.	Description	Voltage	Channels
<input type="checkbox"/> LCO-203	ON/OFF switching control module	24 VDC	three
<input type="checkbox"/> LS-290c	Photocell		
<input type="checkbox"/> BT-203	Power Pack		
ON/OFF control system options:			
Product group	Catalog No.	Description	
Switch	<input type="checkbox"/> LS-4C	Wall Switch	
Enclosure	<input type="checkbox"/> LS-E8	Screw-cover enclosure 8" x 8" x 4" (203.2mm x 203.2mm x 101.6mm)	
	<input type="checkbox"/> LS-E12	Screw-cover enclosure 12" x 12" x 4" (304.8mm x 308.8mm x 101.6mm)	

WIRING PANEL SCHEDULE								
PANEL: EH1	MAINS: MLO				AMPS: 400			AIC: 25K
VOLTAGE: 480Y/277	WIRES: 4		PHASE: 3		MOUNTING: SURFACE			LOC: MAIN ELECTRICAL ROOM
DESCRIPTION	P	AMP	BRANCH CIRCUIT	CIR	DESCRIPTION	P	AMP	BRANCH CIRCUIT
SPARE	-	-	-	2	LIGHTING	1	20	3/4"C.W/2#12+1#12GRND
LIGHTING	1	20	3/4"C.W/2#12+1#12GRND	4	LIGHTING	1	20	3/4"C.W/2#12+1#12GRND
LIGHTING	1	20	3/4"C.W/2#12+1#12GRND	6	LIGHTING	1	20	3/4"C.W/2#12+1#12GRND
LIGHTING	1	20	3/4"C.W/2#12+1#12GRND	8	LIGHTING	1	20	3/4"C.W/2#12+1#12GRND
LIGHTING	1	20	3/4"C.W/2#12+1#12GRND	10	LIGHTING	1	20*	3/4"C.W/2#12+1#12GRND
LIGHTING	1	20	3/4"C.W/2#12+1#12GRND	12	SPARE	1	20	-
LIGHTING	1	20	3/4"C.W/2#12+1#12GRND	14	SPARE	1	20	-
SPARE	1	20	-	16	SPARE	1	20	-
SPARE	1	20	-	18	SPARE	1	20	-
SPARE	1	20	-	20	SPARE	1	20	-
SPARE	1	20	-	22	SPARE	1	20	-
SPARE	1	20	-	24	SPARE	1	20	-
SPARE	1	20	-	26	SPACE	-	-	-
SPARE	1	20	-	28	SPACE	-	-	-
SPARE	1	20	-	30	SPACE	-	-	-
-	-	-	-	32	SPACE	-	-	-
XFMR/PANEL EL1	3	45	3/4"C.W/3#8+1#10GRND	34	SPACE	-	-	-
-	-	-	-	36	SPACE	-	-	-
-	1	-	-	38	SPACE	-	-	-
PANEL EMP	1	225	2-1/2"C.W/3#4/0+1#4/0GRND	40	SPACE	-	-	-
-	1	-	-	42	SPACE	-	-	-
CONNECTED LOAD	16731 VA		TOTAL PHASE A		7750 VA			
DEMAND LOAD	20914 VA		TOTAL PHASE B		4261 VA			
25% GROWTH	26142 VA		TOTAL PHASE C		4720 VA			

WIRING PANEL SCHEDULE									
PANEL: HM11		MAINS: MLO				AMPS: 100		AIC: 25K	
VOLTAGE: 480Y/277		WIRES: 4		PHASE: 3		MOUNTING: SURFACE		LOC: MAIN ELECTRICAL ROOM	
CIR	DESCRIPTION	P	AMP	BRANCH CIRCUIT	CIR	DESCRIPTION	P	AMP	BRANCH CIRCUIT
1	LIGHTING	1	20	3/4"C.W/2#12+1#12GRND	2	GEN BLOCK HTR	2	20	3/4C.W/3#12+1#12GRND
3	LIGHTING	1	20	3/4"C.W/2#12+1#12GRND	4	-	-	-	-
5	LIGHTING	1	20*	3/4"C.W/2#12+1#12GRND	6	LIGHTING	1	20*	3/4"C.W/2#12+1#12GRND
7	SPARE	1	20	-	8	SPARE	1	20	-
9	SPARE	1	20	-	10	SPARE	1	20	-
11	SPARE	1	20	-	12	SPARE	1	20	-
13	SPARE	1	20	-	14	SPARE	1	20	-
15	SPARE	1	20	-	16	SPARE	1	20	-
17	SPARE	1	20	-	18	SPARE	1	20	-
19	SPARE	1	20	-	20	SPARE	1	20	-
21	SPARE	1	20	-	22	SPARE	1	20	-
23	SPARE	1	20	-	24	SPARE	1	20	-
25	SPARE	1	20	-	26	SPARE	1	20	-
27	SPARE	1	20	-	28	SPARE	1	20	-
29	SPARE	1	20	-	30	SPARE	1	20	-
31	SPARE	1	20	-	32	SPARE	1	20	-
33	SPARE	1	20	-	34	SPARE	1	20	-
35	SPARE	1	20	-	36	SPARE	1	20	-
37	SPARE	1	20	-	38	SPARE	1	20	-
39	SPARE	1	20	-	40	SPARE	1	20	-
41	SPARE	1	20	-	42	SPARE	1	20	-
CONNECTED LOAD		8500 VA		TOTAL PHASE A		5600 VA			
DEMAND LOAD		10625 V A		TOTAL PHASE B		3900 VA			
25% GROWTH		13282 VA		TOTAL PHASE C		8500 VA			

WIRING PANEL SCHEDULE									
PANEL: L1E2		MAINS: MLO			AMPS: 225			AIC: 14K	
VOLTAGE: 480Y/277V		WIRES: 4 PHASE: 3			MOUNTING: SURFACE			LOC: MAIN ELEC. RM	
CIR	DESCRIPTION	P	AMP	BRANCH CIRCUIT	CIR	DESCRIPTION	P	AMP	BRANCH CIRCUIT
1	LIGHTING	1	20	3/4"C.W/2#12+1#12GRD.	2	LIGHTING	1	20**	3/4"C.W/2#12+1#12GRD
3	LIGHTING	1	20	3/4"C.W/2#12+1#12GRD.	4	LIGHTING	1	20**	3/4"C.W/2#12+1#12GRD
5	LIGHTING	1	20	3/4"C.W/2#12+1#12GRD.	6	LIGHTING XFMR	1	20	3/4"C.W/2#12+1#12GRD
7	FANS	1	20	3/4"C.W/2#12+1#12GRD.	8	LIGHTING XFMR	1	20	3/4"C.W/2#12+1#12GRD
9	LIGHTING	1	20	3/4"C.W/2#12+1#12GRD.	10	LIGHTING	1	20	3/4"C.W/2#12+1#12GRD
11	LIGHTING	1	20	3/4"C.W/2#12+1#12GRD.	12	LIGHTING	1	20	3/4"C.W/2#12+1#12GRD
13	LIGHTING	1	20*	3/4"C.W/2#12+1#12GRD.	14	LIGHTING	1	20	3/4"C.W/2#12+1#12GRD
15	LIGHTING	1	20*	3/4"C.W/2#12+1#12GRD.	16	LIGHTING	1	20	3/4"C.W/2#12+1#12GRD
17	OUTDOOR DOWNLIGHT	1	20	3/4"C.W/2#12+1#12GRD.	18	OUTDOOR POLE/BOLLARD	1	20	1.5"C.W/2#8+1#10GRD.
19	SPARE	1	20	-	20	SPARE	1	20	-
21	SPARE	1	20	-	22	SPARE	1	20	-
23	SPARE	1	20	-	24	SPARE	1	20	-
25	SPARE	1	20	-	26	SPARE	1	20	-
27	SPACE	1	-	-	28	SPACE	1	-	-
29	SPACE	1	-	-	30	SPACE	1	-	-
31	SPACE	1	-	-	32	SPACE	1	-	-
33	SPACE	1	-	-	34	SPACE	1	-	-
35	SPACE	1	-	-	36	SPACE	1	-	-
37	SPACE	1	-	-	38	SPACE	1	-	-
39	SPACE	1	-	-	40	SPACE	1	-	-
41	SPACE	1	-	-	42	SPACE	1	-	-
CONNECTED LOAD		12144 VA		TOTAL PHASE A		3172 VA			
DEMAND LOAD		13905 VA		TOTAL PHASE B		4536 VA			
25% GROWTH		17381 A		TOTAL PHASE C		4436 VA			