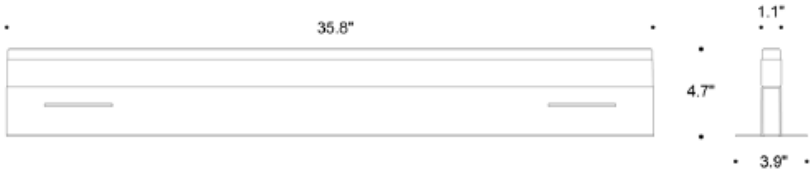
Appendix A:
Lighting cut sheets

TYPE: A1

L E D I A LL OD 36" LED Illuminating Strip

Project Name
Address
City
State
ZIP

Dimensions



L E D I A LL OD 36" LED Illuminating Strip Luminaire Weight = 14 lbs www.hessamerica.com

Type	Model	Length	Volt	Color	Option
	LEDIA-LL-OD	36	12 - 12 Volt DC	R - Red B - Blue G - Green A - Amber W - White (6500K)	DIM - Dimming Module N - None

Ordering Information

	LEDIA-LL-OD	36	12		

Comment

Specifications are subject to change without notification

HessAmerica . P.O. Box 28 . Gaffney,SC 29342 . Phone: 864-487-3535 . Fax: 864-487-3175 . www.hessamerica.com

hess

TYPE: A1

Specifications

DESCRIPTION	LED illuminating strip for exterior recessed inground use.
HOUSING	Machined tempered glass lens is 0.75" thick and bonded to the stainless steel luminaire housing providing a sealed enclosure. Exterior surface of lens is polished with chamfered edges. Underside of lens is diffused. LED light engine housing is constructed of stainless steel. All internal components are sealed to prevent moisture entry. Luminaire mounts into stainless steel sub-frame where electrical connections are made. Luminaire is supplied with removable extruded aluminum form for rough-in installation. Recessed frame and removable form may be preshipped upon request.
OPTICS	Low wattage LED's provide even illumination across the entire lens surface.
ELECTRICAL	Remote 60w LED driver is sold separately and may be used to power multiple luminaires. Universal voltage LED driver accepts 100v through 277v, 50/60 Hz input and provides 12v DC to luminaire. Driver shall have a high power factor rating greater than 95%. Maximum power consumption is 71 watts. UL Recognized driver has a minimum start temperature is -25°C(-13°F) and maximum ambient rating of 38°C (100°F). Luminaire is supplied with pigtail connectors and waterproof wire nuts. Wiring from LED power supply to luminaire and wiring between luminaires shall be supplied by others. Optional dimming module, suitable for dry locations, is available and requires a 10v DC voltage controller (by others).
LAMPING	Total power consumption is 12 watts. Colors are available in red, blue, green, amber, and white (6500K) **NOTE** : Due to rapid and continuous advances in LED technology, LED luminaire data is subject to change without notice and at the discretion of HessAmerica. Consult factory for more current technical data.
WARRANTY	Limited product warranty period is three years. LED driver (ordered separately) and optional dimming module shall carry the respective manufacturer's limited warranty.
CERTIFICATION	Listed 1838, Low Voltage Landscape Lighting Systems

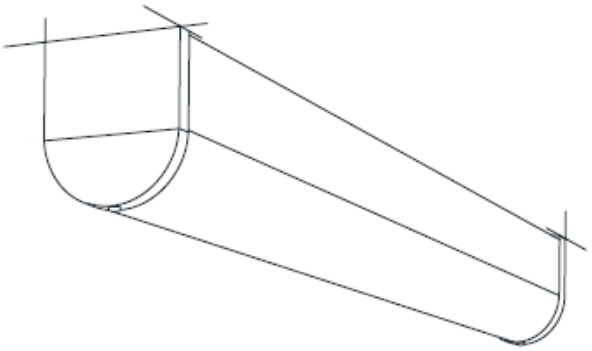
Specifications are subject to change without notification

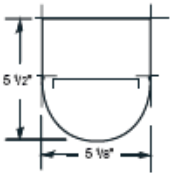
HessAmerica . P.O. Box 28 . Gaffney,SC 29342. Phone: 864-487-3535 . Fax: 864-487-3175 . www.hessamerica.com .hess

TYPE: B1

Type
Job Name
Catalog Number

P5160 Special Applications





ordering

series	lamp rows	nominal length	shielding	color/finish	voltage	options
P5100 damp P5160* wet *under covered ceilings only	1T8 2T8	02' 03' 04' 06' 08'	WA* white acrylic diffuser HWA high-impact white acrylic diffuser *standard	TMW textured matte white YGW* gloss white Y__ premium color CC custom color *standard	120 277 347 UNV* *120-277	AL EML-DL* EMH-DL* DM RSE 10THD B__ FH TRS *consult factory for fixture lengths < 4'

Applications Stairwells, under canopies, locker rooms, warehouses, parking garages.

Features A heavy-duty, surface-mounted radial lens luminaire suitable for both indoor or outdoor under-canopy applications. It offers an available aluminum housing as well as tamper-resistant screws.

Construction The housing, available in 2-, 3-, 4-, 6- or 8-foot standard lengths, is made of die-formed, 20-gauge steel finish plates. An aluminum body is also optional.

Finish The standard exterior body color is gloss white (YGW) or optional textured matte white (TMW) using polyester powder paint. Refer to the Color Selector for paint colors.

Electrical T8 fixtures have instant-start electronic ballasts with less than 20% THD. P5100 is U.L. Damp labeled; P5160 is U.L. Wet labeled for under covered ceiling applications and I.B.E.W. manufactured. Maximum ballast size available: 2.4" width x 1.5" height.

Mounting Fixture is to be surface- or wall-mounted.

Options **AL**: aluminum body; **EML**: emergency battery (600-700 lumens); **EMH**: emergency battery (1100-1400 lumens); **DM**: dimming (specify manufacturer, voltage and other requirements); **RSE**: rapid-start electronic; **10THD**: ballast with < 10% total harmonic distortion; **B_**: specific ballast, specify manufacturer and catalog number (consult factory); **FH**: fixture fusing (slow blow); **TRS**: tamper-resistant screws.

0710 P5100

0908 **Prudential Ltg.** 1737 East 22nd Street, Los Angeles, CA 90058 7/11

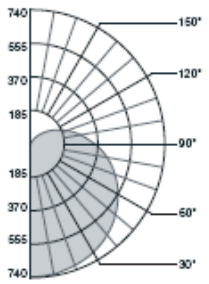
TYPE: B1

Special Applications **P5160**

photometric data

P-5160-2T8-04-WA

Report # LS11131 D-35.2% I-44.8%
Spacing Criteria: Along 1.3; Across 1.4
Lamp Lumens: 2950 Input Watts: 55



Candlepower Summary

Vertical Angle	Horizontal Angle 0°	22.5°	45°	67.5°	90°	Output Lumens
0	737	737	737	737	737	
5	734	738	736	733	736	71
15	710	715	717	720	723	202
25	661	669	682	697	705	315
35	588	603	635	665	676	396
45	495	520	574	617	635	439
55	381	424	502	560	584	440
65	256	322	425	490	526	405
75	124	223	345	430	460	340
85	17	136	269	358	389	264
90	0	98	230	318	350	
95	0	72	196	280	310	192
105	0	38	138	214	243	136
115	0	19	92	153	178	88
125	0	7	57	104	120	51
135	0	0	28	58	70	24
145	0	0	8	22	32	8
155	0	0	0	1	6	1
165	0	0	0	0	0	0
175	0	0	0	0	0	0
180	0	0	0	0	0	

Zonal Lumen Summary

Zone	% Lamp	% Luminaire
0-90	48.67	85.18
90-180	8.47	14.82

Efficiency - 57.1%

Luminance Summary (cd/m²)

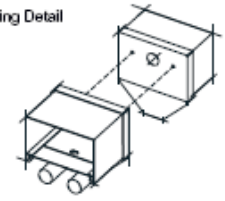
Angle	0°	45°	90°
45	4386	4701	4833
55	4166	4607	4838
65	3791	4659	4865
75	3013	4615	4873
85	1194	4907	4757

Coefficients of Utilization (%)

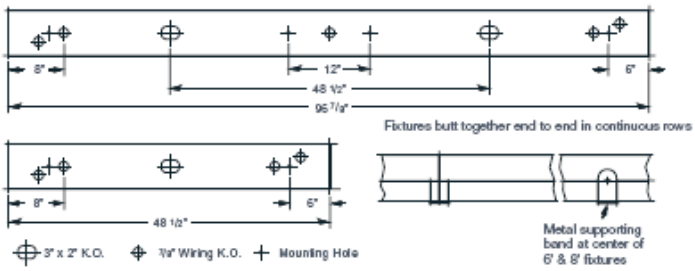
Floor	effective floor cavity reflectance - .20									
Ceiling	80			70			50			
Wall	70	50	30	10	70	50	30	10	50	30	10
RCR 0	66	66	66	66	63	63	63	63	59	59	59
1	59	56	53	50	56	53	51	48	49	47	45
2	53	48	43	39	51	46	42	38	42	39	36
3	48	41	36	32	46	40	35	32	37	33	30
4	44	37	31	27	42	35	30	26	33	28	25
5	40	32	27	23	38	31	26	22	29	24	21
6	37	29	23	19	35	27	22	19	26	21	18
7	34	26	20	17	32	25	20	16	23	19	16
8	31	23	18	14	30	22	17	14	21	16	13
9	29	21	16	12	27	20	15	12	19	14	12
10	26	19	14	11	25	18	14	11	17	13	10

installation

Adjoining Detail



Mounting Locations



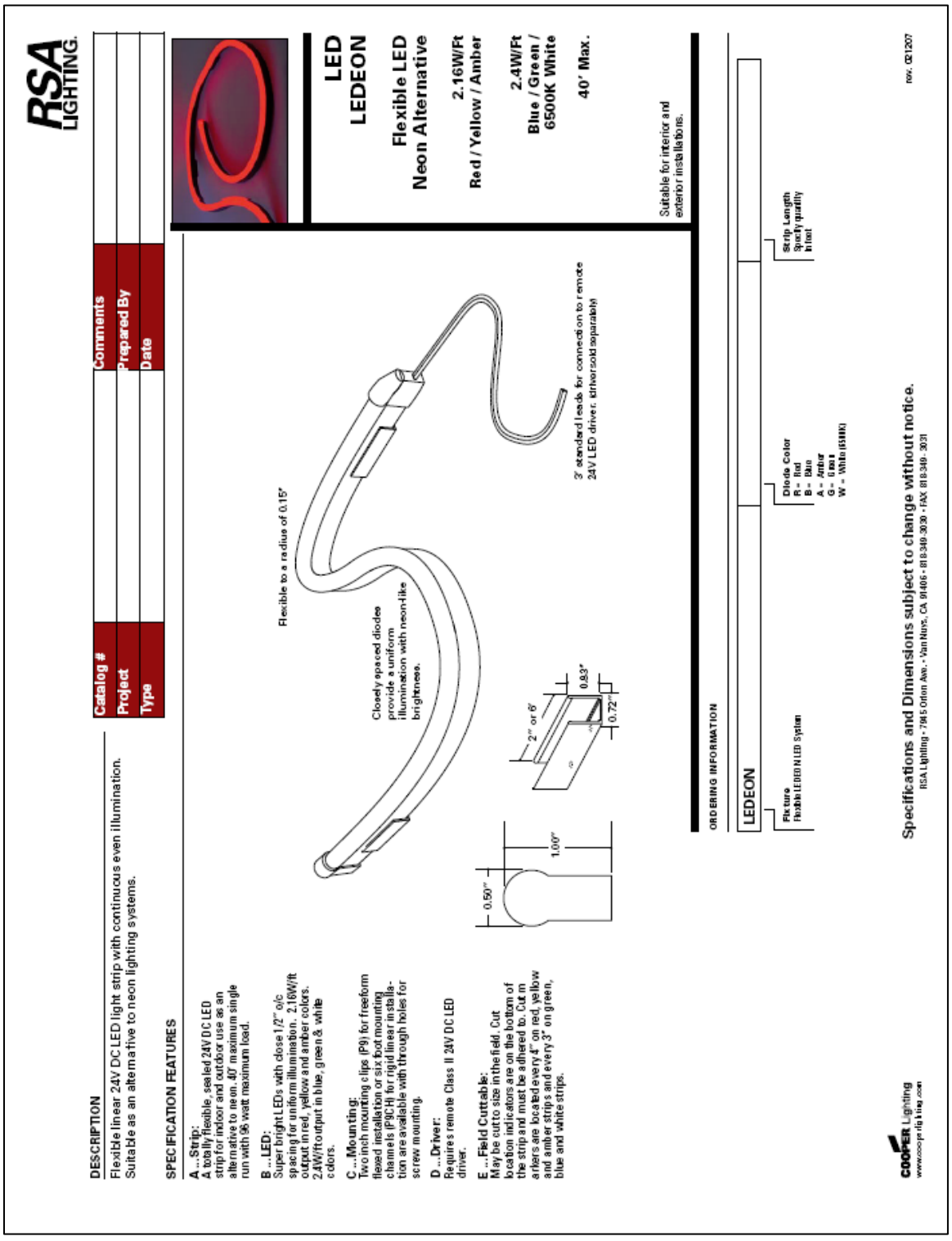
Fixtures butt together end to end in continuous rows

Metal supporting band at center of 6' & 8' fixtures

Prudential Ltg. tel 213.746.0360 fax 213.741.8590 **prultte.com**

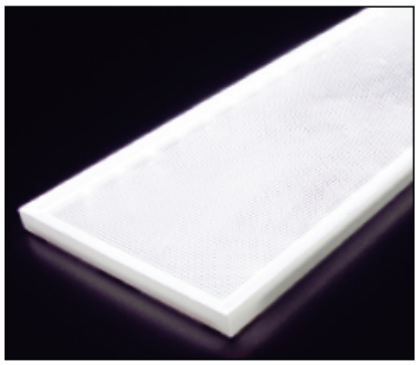
09 08

TYPE: C1


RSA LIGHTING
Catalog #
Project
Type
Comments
Prepared By
Date
LED
LEDEON
Flexible LED
Neon Alternative
2.16W/Ft
Red / Yellow / Amber
2.4W/Ft
Blue / Green / 6500K White
40' Max.
Suitable for interior and exterior installations.
DESCRIPTION
Flexible linear 24V DC LED light strip with continuous even illumination. Suitable as an alternative to neon lighting systems.
SPECIFICATION FEATURES
A ...Strip:
A totally flexible, sealed 24V DC LED strip for indoor and outdoor use as an alternative to neon. 40' maximum single run with 96 watt maximum load.
B ...LED:
Super bright LEDs with close 1/2" o/c spacing for uniform illumination. 2.16W/ft output in red, yellow and amber colors. 2.4W/ft output in blue, green & white colors.
C ...Mounting:
Two inch mounting clips (P9) for freeform flexed installation or six foot mounting channels (P9CH) for rigid linear installation are available with through holes for screw mounting.
D ...Driver:
Requires remote Class II 24V DC LED driver.
E ...Field Cuttable:
May be cut to size in the field. Cut location indicators are on the bottom of the strip and must be adhered to. Cut mi arkers are located every 4" on red, yellow and amber strips and every 3" on green, blue and white strips.
Flexible to a radius of 0.15"
Closely spaced diodes provide a uniform illumination with neon-like brightness.
3' standard leads for connection to remote 24V LED driver. (driver sold separately)
0.50"
1.00"
2" or 6'
0.83"
0.72"
ORDERING INFORMATION
LEDEON
Fixture
Flexible LEDEON LED System
Diode Color
R = Red
B = Blue
A = Amber
G = Green
W = White (6500K)
Strip Length
Specify quantity in feet
Specifications and Dimensions subject to change without notice.
RSA Lighting - 7915 Orion Ave. - Van Nuys, CA 91406 - 818-349-3000 - FAX 818-349-3031
COOPER Lighting
www.cooperlighting.com
rev. 021207

TYPE: D1

rosco architectural



CUSTOM LITEPAD

A low-voltage light source providing even, indirect illumination. LitePad consists of an acrylic sheet with white LEDs directed through a patented system of amplifying light channels.

LitePad's solid-state construction enables fabrication of virtually any shape or size. At a slim 8mm thick, designers can integrate LitePad into a multitude of applications where illumination is desired.

Available in DL or HO (33% brighter) configurations.

Rosco Project Consultants are available to help you determine your project needs.

Features

- **LED Type:** .25 Watt Surface Mounted Diode
- **Construction:** Optical Grade Clear Acrylic
- **Panel Thickness:** 8mm (0.3 in)
- **Weight:** 900g (2 lbs) / foot²
- **Operational Temperature:** -30ºC min to 70ºC max
- **Estimated Lifespan:** 50,000+ hours
- **Operating Voltage:** 12 Volt DC
- **Warranty:** 2 Years

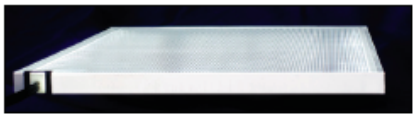
c UL us LISTED

Optical Properties

- **LED Spacing Options:**
  DL: 18 LED's per linear foot
  HO: 24 LED's per linear foot
- **LED Positioning Options:** LED ribbon may be located on 1, 2 or 4 sides of panel depending on the desired level of brightness.
- **Color Temperature Options:**
  5300ºK 3700ºK 2800ºK

Physical Properties

- **Single Panel Size:**
  Max: 48"W x 96"L (1219mm x 2438mm) (tileable)
  Min: 1.5"W x 1.5"L (38mm x 38mm)
- **Shaping:**
  LitePads can be factory cut into just about any flat shape imaginable. As well, they can be drilled or tooled anywhere across the interior surface within 1 inch of it's edge.
- **Heat Control:**
  An integral aluminum heat sink is mounted on the rear of the panel to disperse heat build-up, reducing the need for external cooling and prolonging service life.
- **Thin Film Reflector:**
  LitePads include a reflective opaque white backing to maximize optical brightness and distribution of light.
- **IP Rating:**
  - IP61



Ordering Information

LED Spacing	Color Temperature	Size	LED Placement
DL HO	5300K 3700K 2800K	Length x Width (inches/mm) Diameter CS - Custom shape (drawing may be required)	L1 - 1 Long Edge L2 - 2 Long Edges S1 - 1 Short Edge S2 - 2 Short Edges A4 - All 4 Sides DIA - Diameter CI - Custom Illumination

Example: HO - 5300K - 3x3 - L1

Contact customlitepad@rosco.com for specification questions

www.rosco.com

Date: _____ Type: _____

Firm Name: _____

Project: _____

v 1.2

TYPE: D1

Electrical Properties

- **Power Consumption:** .25 watts per LED
- **Coordination:** Panels may be wired together in parallel not series. Each panel must have direct connection to a power supply.
- **Power Supply:** Rosco has a complete range of approved power supplies to meet your project requirements.
- **Dimming/Control:** Rosco can provide a full suite of dimming and control accessories to complement your custom LitePad.
- **Wire Placement:** The point of wire entry is customizeable to accomodate your projects tiling requirements.
- **Cord Length:** LitePad comes standard with a 4' power cable with barrel connector. This is customizable based upon the needs of your project.

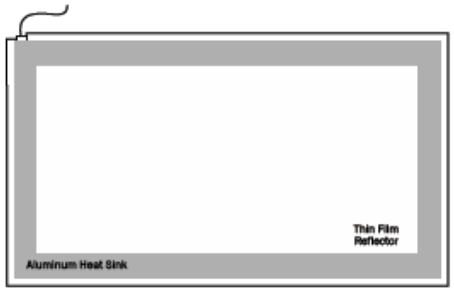
rosco architectural

Acrylic Properties

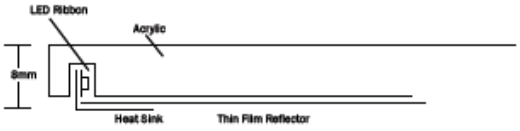
- **Flammability Clasification:** 94HB
- **Smoke Density** (D2843) 4-10%
- **Deflection:** LitePad may bow if the panel area is too large. Broad sheets should be supported every 30 inches in any direction.

Typical LitePad Front View

Typical LitePad Back View



Typical LitePad Side View



www.rosco.com

TYPE: F1

INVUE®

DESCRIPTION

PHOCUS defines the ultimate floodlighting solution; powerful performance, easily concealable size and a stunningly beautiful shape. Available in wattages up to 150 watt T6 Metal Halide. PHOCUS is versatile in application. Ground, wall, ceiling, burial and remote mounting configurations offer a wide variety of application alternatives to accomplish specific design requirements. Offering seven (7) uniquely shaped optical distributions, plus an array of HID and Quartz Halogen PAR lamps, PHOCUS is unrivaled in it's optical versatility. An available family of light control accessories provides custom cutoff solutions to meet specific distribution requirements.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction

HOUSING: One-piece, die-cast aluminum housing maintains a nominal .125" wall to endure the toughest environments while maintaining precise tolerance control. Cast indicator mark on backside of housing reference 2.5 degree internal aiming marks on yoke arm for precise vertical aiming control. DOOR: Die-cast aluminum door maintains a nominal .125" wall thickness. Door is secured with two (2) tamper resistant recessed stainless steel fasteners. Lens is impact resistant .20" tempered clear contoured glass, sealed to the door with a one-piece molded silicone gasket. YOKE ARMS: Heavy-duty die-cast aluminum yoke utilizes a taper-lock adjustment mechanism for both solid attachment and infinite aiming. Vertical adjustment is made via one (1) captive stainless steel fastener consistent with doorframe fasteners. Tested in all planes to sustain 3G of vibration.

BASE ASSEMBLY: Die-cast aluminum base assembly grounds yoke arms and allows for 357 degrees of horizontal rotation. Base assembly includes angle increment markers spaced at 2.5 degree intervals for ease of aiming, and an internal cast stop to prohibit rotation beyond one full revolution. Continuous silicone gaskets prevent water intrusion into base.

Electrical

INTEGRAL BALLAST BOX: Die-cast aluminum ballast enclosure attaches to mounting surface with two (2) 3/8" stainless steel lag bolts. Wiring compartment features a removable cover and is completely sealed from electrical components to prevent water or vapor entry into the fixture. Standard silicone-filled wire nuts prevent wicking of water through wire leads. Continuous silicone gasketing throughout base assembly forbids contaminant entry. ELECTRICAL COMPONENTS: Choice of high power factor (HPF) magnetic, or superior performing electronic HID ballasts.

Optical

OPTICAL SYSTEMS: Choice of seven (7) high efficiency optical systems constructed of highly reflective anodized aluminum sheet, or bright anodized polished spun aluminum. Available distributions include Narrow Spot Axial, Horizontal Narrow Flood, Horizontal Medium Flood, Horizontal Wide Flood, Vertical Narrow Flood, Vertical Medium Flood, and Vertical Wide Flood. Pulse Start Metal Halide available in a variety of beam spreads. Pulse Start Metal Halide T6 lamps feature G12 lampholders. Pulse Start Metal Halide PAR-20 lamps feature medium screw base lampholders.

Finish

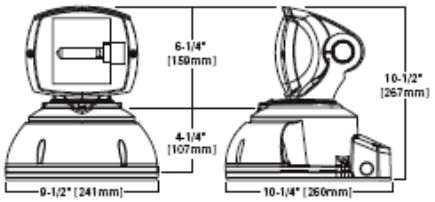
Fixtures and accessories are finished in a premium 5 stage TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum, and graphite metallic. RAL and custom color matches available. Consult your INVUE Lighting Systems Representative for more information.

PHH
PHOCUS FLOOD

39 - 150W
Pulse Start Metal Halide

ARCHITECTURAL FLOOD LUMINAIRE

DIMENSIONS



WATTAGE TABLE

Lamp Type	Wattage
Pulse Start Metal Halide T6	39, 70, 100, 150W
Pulse Start Metal Halide PAR20	39W

CERTIFICATION DATA

IP66 Rated
U.L. 1598 Listed
2G Vibration Tested
CSA Listed
25°C Ambient Temperature Rating
ISO 9001

SHIPPING DATA

(Approximate)
Net Weight (lbs.): 10

COOPER Lighting
www.cooperlighting.com

AVU083427 pc
2010-06-28 14:46:52

TYPE: F1

ORDERING INFORMATION

Sample Number: PHH-150-MH-120-MB-HNF-GIB-BK-L

Product Family
PHH=PHOCUS HID

Lamp Wattage
39=39W
70=70W
100=100W
150=150W

Lamp Type
MP=Pulse Start Metal Halide

Voltage [1]
120=120V
208=208V
240=240V
277=277V
347=347V
DT=Dual-Tap wired 277V[2, 3]
MT=Multi-Tap wired 277V[2, 4]
TT=Triple-Tap wired 347V[2, 5]
UNV=120-277V Universal Electronic Ballast

Ballast
MB=Magnetic Ballast
EB=Electronic Ballast[6]

Optical System
HID T6 Lamps
NS=Narrow Spot
HNF=Horizontal Narrow Flood
HMF=Horizontal Medium Flood
HWF=Horizontal Wide Flood
VNF=Vertical Narrow Flood
VMF=Vertical Medium Flood
VWF=Vertical Wide Flood
HID PAR Lamps [7]
SP10=10° Spot
FL30=30° Flood

Mounting
Ground Mount
GBB=Direct In-Ground Mount (supplied w/ in-ground box and ballast)[8]
GIB=Integral Ballast Box
GRB=Remote Mount (supplied w/ remote in-ground box and ballast)[8]
GRNB=Remote Mount (requires remote potted ballast and ballast box by[8] others)
GSR=Spike Mount (supplied w/ remote in-ground box and ballast)[8]
Wall/Ceiling Mount
WIB=Integral Ballast Box
WRNB=Remote Mount (requires remote potted ballast and ballast box by others)

Color [10]
BK=Black
AP=Grey
BZ=Bronze
WH=White
DP=Dark Platinum
GM=Graphite Metallic
VR=Verde Green

Options [11]
F=Single Fuse (120, 277 or 347V)[12] Specify Voltage
FF=Double Fuse (208, 240 or 480V)[12] Specify Voltage
FR=Frosted Flat Glass Lens
L=Lamp Included

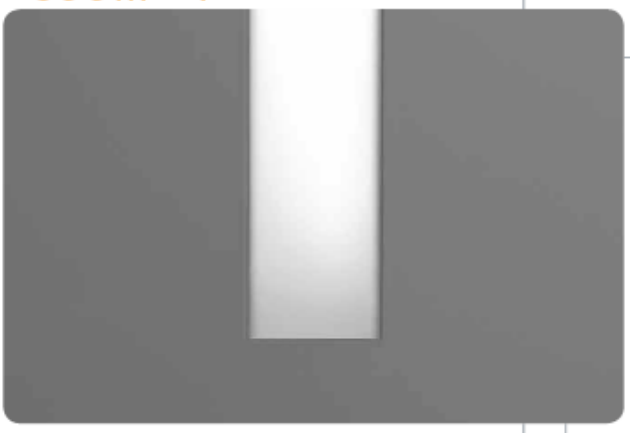
Accessories [13]
VA3003-XX=Color Filter Adapter with Red Gel
VA3004-XX=Color Filter Adapter with Bright Blue Gel
VA3005-XX=Color Filter Adapter with Deep Green Gel
VA3006-XX=Color Filter Adapter with Warm Orange Gel
VA3001-XX=Top Visor
VA3002-XX=Four Sided Shield
VA3007-XX=Wire Guard

Notes: 1 Products also available in non-US voltages and 50Hz for international markets. Consult factory for availability and ordering information.
2 Magnetic ballasts only.
3 Dual-tap is 120/277V wired 277V.
4 Multi-tap is 120/208/240/277V wired 277V.
5 Triple-tap is 120/277/347V wired 347V.
6 120 through 277V only. Not available with 150 MP lamp, or GBB, GRB, GSR ground mount options.
7 PAR 20 MP lamps available in 39W only.
8 GBB, GRB, GSR mounting options include a magnetic potted in-ground ballast enclosure. Not available in 150W MP. Maximum 50' remoting distance from fixture head.
9 For use when ground mounting in non-earth or interior surface environments.
10 Custom and RAL color matching available upon request. Consult your INVUE Lighting Systems Representative for further information.
11 Add as suffix in the order shown.
12 Fusing available on GIB and WIB mounting options only.
13 Order separately, replace XX with color suffix.

TYPE: A2

recessed wall mount

seem® 4



FOCAL POINT

features

Narrow 4" aperture slot fluorescent luminaire that integrates with wall for a clean unobtrusive aesthetic.

Frosted acrylic flush lens provides even illumination.

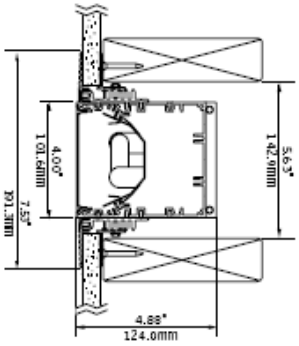
Allows for individual and continuous row mount in trimless drywall applications.

Available in 1 lamp T5 or T8 configurations, Seem 4 provides continuous illumination by combining 3' and 4' staggered lamps.

companion luminaires

recessed wall to ceiling corner

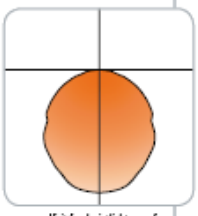
dimensional data



notes: designed for 2"x6" construction
0.375"min - 2.125"max material thickness

performance

1-Lamp T5
56% Efficiency
595 cd @ 0°



Visit focalpointlights.com for complete photometric data.

www.focalpointlights.com | 1.773.247.9494

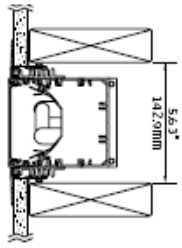
september 2011 G

TYPE: A2

fixture:

project:

mounting information



notes: designed for 2"x6" construction
0.375"min - 2.125"max drywall thickness

specifications

construction
One piece, .07" thick housing of 6063-T5 extruded aluminum.
16 Ga. internal bulkhead. 20 Ga. steel end caps.
Luminaires include trimless aluminum flange.
Lengths 6' and longer configured with staggered lamps:

1-lamp T8:	4.47" overlap
1-lamp T5/T5HO:	4.35" overlap

2' unit weight:	18 lbs.
3' unit weight:	24 lbs.
4' unit weight:	30 lbs.
5' unit weight:	36 lbs.

optic
Reflectors fabricated of 22 Ga. steel finished in High Reflectance White powder coat.
Flush satin lens: extruded acrylic lens .07" thick with opal satin finish.

electrical
Luminaires are pre-wired with factory installed branch circuit wiring and over-molded quick connects.
Electronic fluorescent 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 pre-treatment.

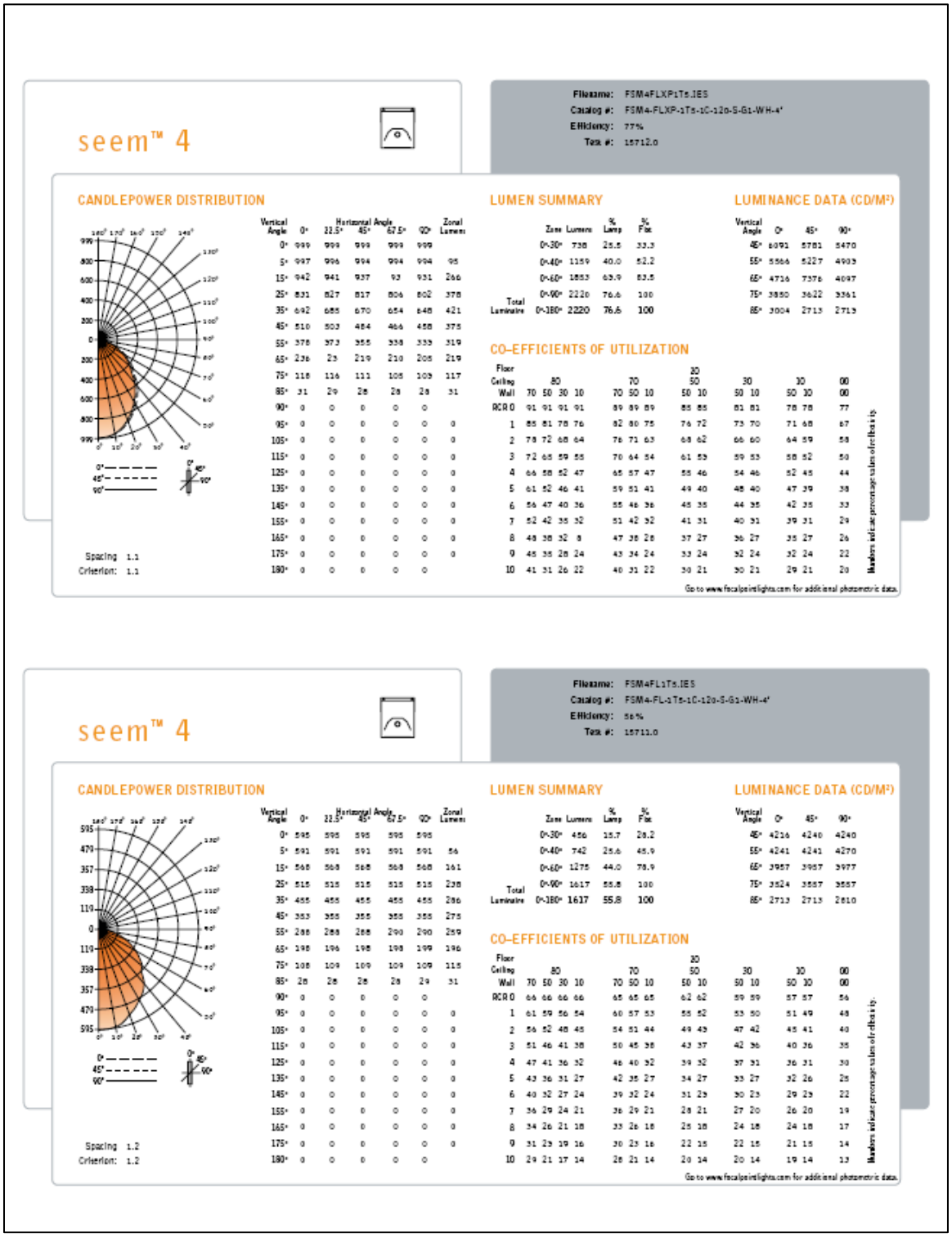
ordering

luminaire series		FSM4
Seem 4	FSM4	
shielding		FL
Flush Satin Lens	FL	
lamping		
One Lamp T8	1T8	
One Lamp T5	1T5	
circuits		1C
Single Circuit	1C	
voltage		
120 Volt	120	
277 Volt	277	
347 Volt	347	
ballast		
Electronic Instant Start <20% THD (T8 only)	E	
Electronic Program Start <10% THD Electronic Dimming Ballast*	S D	
mounting		
Mud-in Trimless, pre-set for 1/2" Drywall	XF1	
Mud-in Trimless, pre-set for 5/8" Drywall	XF2	
Mud-in Trimless, set thickness in field (mounting equipment assembled in field) (2.125" max/.375" min ceiling/wall thickness. Suitable for both wall and ceiling applications.)	XFF	
factory options		
Emergency Circuit*	EC	
Emergency Battery Pack*	EM	
Flex Whip*	FW	
HLR/GLR Fuse	FU	
Include 3000K lamp	L830	
Include 3500K lamp	L835	
Include 4100K lamp	L841	
finish		WH
Matte White	WH	
luminaire length (lengths are nominal)		
Specify wall and ceiling lengths in 1' increments (lengths 6' and longer configured with staggered lamps.) (Consult factory for 5' dimming)	X'	

* for more information see Reference section.

wall/ceiling

TYPE: A2



seem™ 4

Filename: FSM4FLXP1T5.IES
Catalog #: FSM4-FLXP-1T5-1C-120-S-G1-WH-4'
Efficiency: 77%
Test #: 15712.0

CANDLEPOWER DISTRIBUTION

Vertical Angle	0°	22.5°	45°	67.5°	90°	Zonal Lumens
0°	999	999	999	999	999	
5°	997	996	994	994	994	95
15°	942	941	937	93	931	266
25°	831	827	817	806	802	378
35°	692	685	670	654	648	421
45°	510	503	484	466	458	375
55°	378	373	355	338	333	319
65°	236	23	219	210	205	219
75°	118	116	111	105	103	117
85°	31	29	28	26	26	31
90°	0	0	0	0	0	
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	

Spacing 1.1
Criterion: 1.1

LUMEN SUMMARY

	Zone	Lumens	% Lamp	% Flux
	0-30°	738	25.5	33.3
	0-40°	1159	40.0	52.2
	0-60°	1853	63.9	83.5
	0-90°	2226	76.6	100
Total Luminaire	0-180°	2220	76.6	100

LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	6091	5781	5470
55°	5566	5227	4903
65°	4716	7376	4097
75°	3850	3622	3361
85°	3004	2713	2713

CO-EFFICIENTS OF UTILIZATION

Floor	80				70			70	50		30		10	00
Ceiling	80				70			50			30		10	00
Wall	70	50	30	10	70	50	10	50	10		50	10	00	
RCR 0	91	91	91	91	89	89	89	86	86		81	81	78	77
1	86	81	78	76	82	80	75	76	72		73	70	71	68	67
2	78	72	68	64	76	71	63	68	62		66	60	64	59	58
3	72	65	59	55	70	64	54	61	53		59	53	58	52	50
4	66	58	52	47	65	57	47	55	46		54	46	52	45	44
5	61	52	46	41	59	51	41	49	40		48	40	47	39	38
6	56	47	40	36	55	46	36	45	35		44	35	42	35	33
7	52	42	35	32	51	42	32	41	31		40	31	39	31	29
8	48	38	32	8	47	38	28	37	27		36	27	35	27	26
9	45	35	28	24	43	34	24	33	24		32	24	32	24	22
10	41	31	26	22	40	31	22	30	21		30	21	29	21	20

Numbers indicate percentage values of reflectivity.

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

seem™ 4

Filename: FSM4FL1T5.IES
Catalog #: FSM4-FL-1T5-1C-120-S-G1-WH-4'
Efficiency: 56%
Test #: 15711.0

CANDLEPOWER DISTRIBUTION

Vertical Angle	0°	22.5°	45°	67.5°	90°	Zonal Lumens
0°	595	595	595	595	595	
5°	591	591	591	591	591	56
15°	568	568	568	568	568	161
25°	515	515	515	515	515	238
35°	455	455	455	455	455	286
45°	353	355	355	355	355	275
55°	288	288	288	290	290	259
65°	198	196	198	198	199	196
75°	108	109	109	109	109	115
85°	28	28	28	28	29	31
90°	0	0	0	0	0	
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	

Spacing 1.2
Criterion: 1.2

LUMEN SUMMARY

	Zone	Lumens	% Lamp	% Flux
	0-30°	456	15.7	28.2
	0-40°	742	25.6	45.9
	0-60°	1275	44.0	78.9
	0-90°	1617	55.8	100
Total Luminaire	0-180°	1617	55.8	100

LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	4216	4240	4240
55°	4241	4241	4270
65°	3957	3957	3977
75°	3524	3557	3557
85°	2713	2713	2610

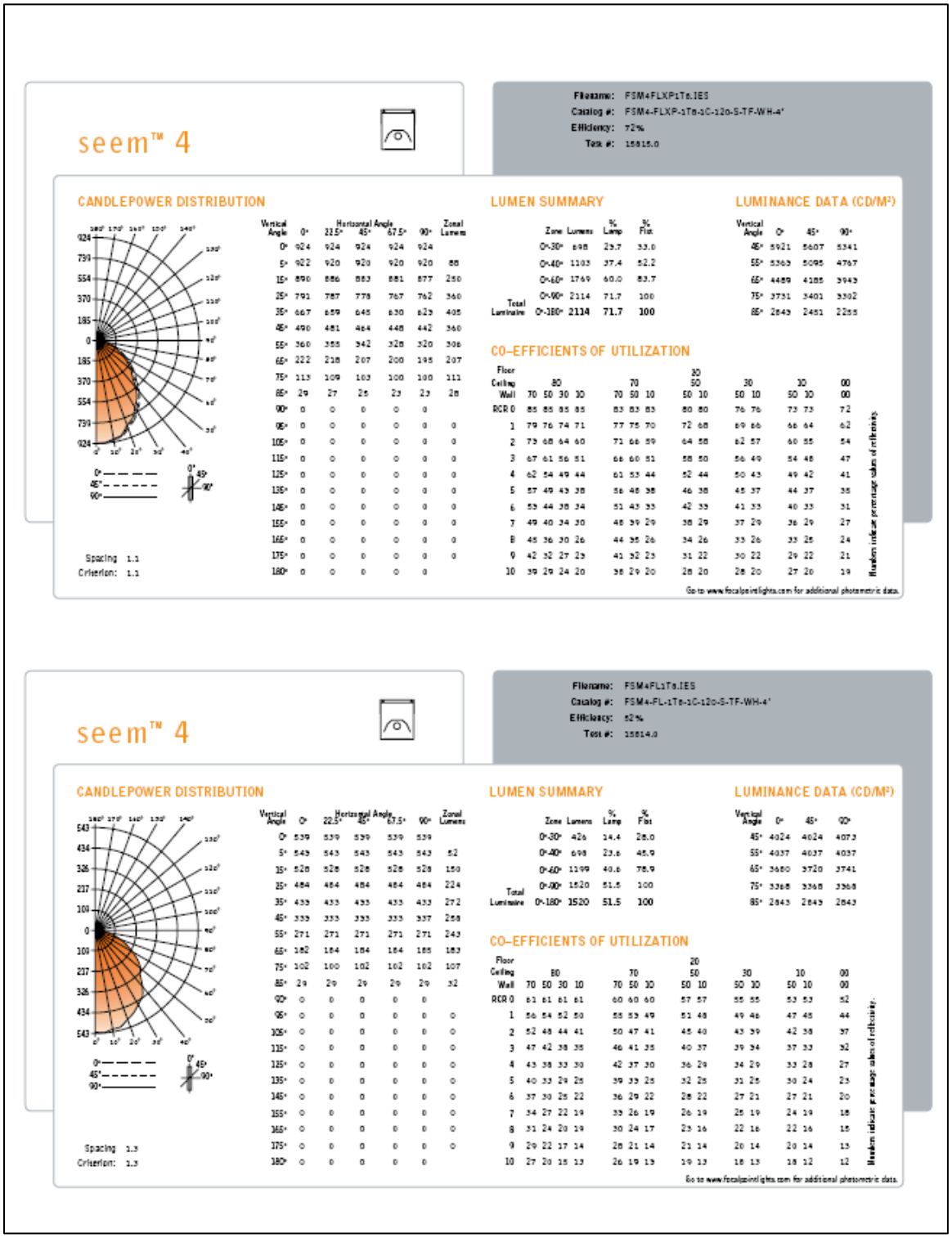
CO-EFFICIENTS OF UTILIZATION

Floor	80				70			70	50		30		10	00
Ceiling	80				70			50			30		10	00
Wall	70	50	30	10	70	50	10	50	10		50	10	00	
RCR 0	66	66	66	66	65	65	65	62	62		59	59	57	56
1	61	59	56	54	60	57	53	55	52		53	50	51	49	48
2	56	52	48	45	54	51	44	49	43		47	42	45	41	40
3	51	46	41	38	50	45	38	43	37		42	36	40	36	35
4	47	41	36	32	46	40	32	39	32		37	31	36	31	30
5	43	36	31	27	42	35	27	34	27		33	27	32	26	25
6	40	32	27	24	39	32	24	31	23		30	23	29	23	22
7	36	29	24	21	36	29	21	28	21		27	20	26	20	19
8	34	26	21	18	33	26	18	25	18		24	18	24	18	17
9	31	23	19	16	30	23	16	22	15		22	15	21	15	14
10	29	21	17	14	28	21	14	20	14		20	14	19	14	13

Numbers indicate percentage values of reflectivity.

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

TYPE: A2



seem™ 4

Filename: FSM4FLXP1T8.IES
Catalog #: FSM4-FLXP-1T8-1C-120-S-TF-WH-4'
Efficiency: 72%
Test #: 15815.0

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle 0°	22.5°	45°	67.5°	90°	Zonal Lumens
0°	924	924	924	924	924	
5°	922	920	920	920	920	88
15°	890	886	883	881	877	250
25°	791	787	778	767	762	360
35°	667	659	645	630	623	405
45°	490	481	464	448	442	360
55°	360	355	342	328	320	306
65°	222	218	207	200	195	207
75°	113	109	103	100	100	111
85°	29	27	25	23	23	28
90°	0	0	0	0	0	
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	

Spacing 1.1
Criterion: 1.1

LUMEN SUMMARY

	Zone	Lumens	% Lamp	% Fix
	0-30°	698	23.7	33.0
	0-40°	1103	37.4	52.2
	0-60°	1769	60.0	83.7
	0-90°	2114	71.7	100
Total Luminaire	0-180°	2114	71.7	100

LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	5921	5607	5341
55°	5363	5095	4767
65°	4489	4185	3943
75°	3731	3401	3302
85°	2843	2451	2255

CO-EFFICIENTS OF UTILIZATION

Floor	80				70			50	30	10	00
Ceiling								30			
Wall	70	50	30	10	70	50	10	50	10	50	00
RCR 0	85	85	85	85	83	83	83	80	76	73	72
1	79	76	74	71	77	75	70	72	69	66	62
2	73	68	64	60	71	66	59	64	62	57	54
3	67	61	56	51	66	60	51	58	56	49	47
4	62	54	49	44	61	53	44	52	50	43	41
5	57	49	43	38	56	48	38	46	45	37	35
6	53	44	38	34	51	43	33	42	41	33	31
7	49	40	34	30	48	39	29	38	37	29	27
8	45	36	30	26	44	35	26	34	33	26	24
9	42	32	27	23	41	32	23	31	30	22	21
10	39	29	24	20	38	29	20	28	28	20	19

Numbers indicate percentage values of reflectance.

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

seem™ 4

Filename: FSM4FL1T8.IES
Catalog #: FSM4-FL-1T8-1C-120-S-TF-WH-4'
Efficiency: 52%
Test #: 15814.0

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle 0°	22.5°	45°	67.5°	90°	Zonal Lumens
0°	539	539	539	539	539	
5°	543	543	543	543	543	52
15°	528	528	528	528	528	150
25°	484	484	484	484	484	224
35°	433	433	433	433	433	272
45°	333	333	333	333	337	268
55°	271	271	271	271	271	243
65°	182	184	184	184	185	183
75°	102	100	102	102	102	107
85°	29	29	29	29	29	32
90°	0	0	0	0	0	
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	

Spacing 1.3
Criterion: 1.3

LUMEN SUMMARY

	Zone	Lumens	% Lamp	% Fix
	0-30°	426	14.4	28.0
	0-40°	698	23.6	45.9
	0-60°	1199	40.6	78.9
	0-90°	1520	51.5	100
Total Luminaire	0-180°	1520	51.5	100

LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	4024	4024	4073
55°	4037	4037	4037
65°	3680	3720	3741
75°	3368	3368	3368
85°	2843	2843	2843

CO-EFFICIENTS OF UTILIZATION

Floor	80				70			50	30	10	00
Ceiling								30			
Wall	70	50	30	10	70	50	10	50	10	50	00
RCR 0	61	61	61	61	60	60	60	57	55	53	52
1	56	54	52	50	55	53	49	51	49	47	44
2	52	48	44	41	50	47	41	45	43	42	37
3	47	42	38	35	46	41	35	40	39	37	32
4	43	38	33	30	42	37	30	36	34	33	27
5	40	33	29	25	39	33	25	32	31	30	24
6	37	30	25	22	36	29	22	28	27	27	20
7	34	27	22	19	33	26	19	26	25	24	18
8	31	24	20	19	30	24	17	23	22	22	16
9	29	22	17	14	28	21	14	21	20	20	13
10	27	20	15	13	26	19	13	19	18	18	12

Numbers indicate percentage values of reflectance.

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

TYPE: A2

seem® 4 & 6 run information

EXAMPLE 16' run

1-T5/T5HO

2-T5/T5HO (may exhibit noticeable socket shadows)

1-T8

2-T8 (may exhibit noticeable socket shadows)

notes:

- lamp overlap is consistent throughout run.
- unlit ends vary to provide even light throughout run.
- standard configurations listed, consult factory for additional options.

www.focalpointlights.com | 1.773.247.9494

TYPE: A2

seem® 4 & 6 run information

nominal run length (ft)	1-T5/T5HO (4.35" overlap)			2-T5/T5HO (2.00" overlap)			1-T8 (4.47" overlap)			2-T8 (9.35" overlap)		
	lamp quantity		unlit ends (in)	lamp quantity		unlit ends (in)	lamp quantity		unlit ends (in)	lamp quantity		unlit ends (in)
	3'	4'		3'	4'		3'	4'		3'	4'	
6	2		3.5	4		0.2	2		1.8	n/a	n/a	n/a
7	1	1	3.6	2	2	0.3	1	1	1.8	4		0.8
8	3		0.5		4	0.4		2	1.8	2	2	0.8
9	2	1	0.6	6		1.1	3		4.0		4	0.9
10	1	2	0.6	4	2	1.2	2	1	4.1	6		0.8
11		3	0.8	2	4	1.3	4		0.3	4	2	0.8
12	3	1	3.7		6	1.3	3	1	0.3	2	4	0.8
13	5		0.7	6	2	2.1	2	2	0.3		6	0.8
14	4	1	0.8	4	4	2.2	1	3	0.3	6	2	0.8
15	3	2	0.8	2	6	2.3		4	0.3	4	4	0.8
16	2	3	1.0		8	2.3	3	2	2.6	2	6	0.8
17	1	4	1.1	6	4	3.0	2	3	2.6		8	0.8
18		5	1.1	4	6	3.1	1	4	2.6	6	4	0.8
19	6	1	0.8	2	8	3.2	7		1.0	4	6	0.8
20	5	2	0.8		10	3.3	6	1	1.0	2	8	0.8
21	4	3	1.0	6	6	4.0	5	2	1.1		10	0.8
22	3	4	1.1	4	8	4.1	4	3	1.1	6	6	0.8
23	9		1.1	2	10	4.2	3	4	1.1	4	8	0.8
24	1	6	0.9		12	4.3	2	5	1.1	2	10	0.8
25	7	2	1.3	6	8	4.9	1	6	1.1		12	0.8
26	6	3	1.2	18		0.3		7	1.2	6	8	0.8
27	5	4	1.3	16	2	0.3	10		1.8	4	10	0.8
28	11		1.0	14	4	0.4	9	1	1.8	2	12	0.8
29	10	1	1.1	12	6	0.6	8	2	1.8		14	0.8
30	9	2	1.2	10	8	0.7	7	3	1.8	6	10	0.8
31	8	3	1.3		16	0.2	6	4	1.8	4	12	0.8
32	7	4	1.4	6	12	0.8	5	5	1.8	2	14	0.8
33	13		1.2	4	14	0.9	4	6	1.8		16	0.8
34	12	1	1.2	2	16	1.1	3	7	1.9	6	12	0.8
35	11	2	1.3		18	1.1	2	8	1.9	4	14	0.8
36	10	3	1.4	6	14	1.8	1	9	1.9	2	16	0.8
37	9	4	1.5	4	16	1.9	7	5	0.3		18	0.9
38	15		1.3	2	18	2.0	6	6	0.3	6	14	0.8
39	14	1	1.3		20	2.1	5	7	0.4	4	16	0.8
40	13	2	1.4	6	16	2.8	4	8	0.4	2	18	0.8
41	12	3	1.6	4	18	2.8	3	9	0.4		20	0.9
42	4	11	1.7	2	20	2.9	2	10	0.4	6	16	0.8
43	5	10	1.8		22	3.1	1	11	0.4	4	18	0.9
44	9	6	1.9	6	18	3.7		12	0.4	2	20	0.9
45	8	7	1.9	4	20	3.8	3	10	2.7		22	0.9
46	7	8	2.1	2	22	3.9	2	11	2.7	6	18	0.9
47	13	4	1.8		24	4.0	1	12	2.7	4	20	0.9
48	19		1.5	6	20	4.6	7	8	1.1	2	22	0.9

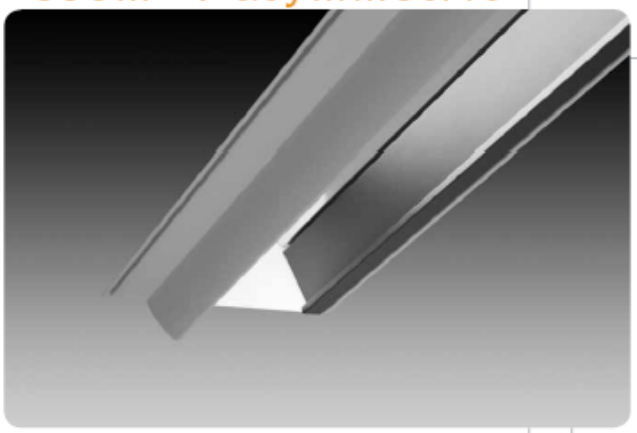
reference

TYPE: B2

drywall

seem® 4 asymmetric

FOCAL POINT



features

Narrow 4" asymmetric slot wall wash fluorescent that integrates luminaire with ceiling for clean unobtrusive aesthetic.

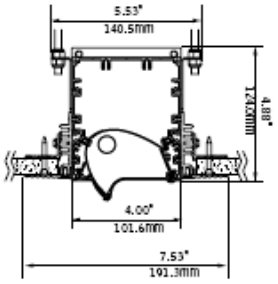
Precision micro-optic delivers shadow free illumination from ceiling to floor.

Allows for individual or continuous row mount in trimless drywall applications.

Available in 1 lamp T8, T5 or T5HO configurations.

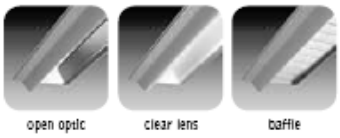
Delivers high levels of vertical illumination to highlight artwork, white boards or displays.

dimensional data



shielding options

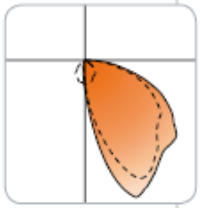
shielding options



companion luminaires

performance

1–Lamp T5HO - No Shielding
53% Efficiency
1690 cd @ 20°



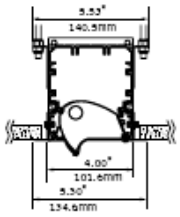
Visit focalpointlights.com for complete photometric data.

TYPE: B2

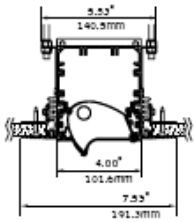
fixture:
project:

mounting information

trim flange



trimless mud-in



Note: New construction only. Luminaires must be installed prior to drywall.

specifications

construction

One piece, .07" thick housing of 6063-T5 extruded aluminum.
16 Ga. internal bulkhead. 20 Ga. steel end caps.
Mud-in Luminaires include trimless aluminum flange.

2' unit weight:	18 lbs.
3' unit weight:	24 lbs.
4' unit weight:	30 lbs.
5' unit weight:	36 lbs.
6' unit weight:	43 lbs.
8' unit weight:	55 lbs.

optic

.020" specular aluminum upper reflector and 0.20" semi-specular lower reflector.
Matte black extruded aluminum diffuser.
24 Ga. Steel Radial cut off baffle.

electrical

Luminaires are pre-wired with factory installed branch circuit wiring and over-molded quick connects.
Electronic fluorescent 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 pre-treatment.

ordering

luminaire series		FSM4A
Seem 4 Asymmetric	FSM4A	
shielding		
No Shielding, Open Optic	NS	
Snap-In Clear Lens	CL	
Radial Cut-Off Baffle (Baffle always painted white)	RL	
lamping		
One Lamp T8	1T8	
One Lamp T5	1T5	
One Lamp T5HO	1T5HO	
circuits		1C
Single Circuit	1C	
voltage		
120 Volt	120	
277 Volt	277	
347 Volt	347	
ballast		
Electronic Instant Start <20% THD (T8 only)	E	
Electronic Program Start <10% THD	S	
Electronic Dimming Ballast*	D	
mounting		
Mud-In Trimless, pre-set for 1/2" Drywall	XF1	
Mud-In Trimless, pre-set for 5/8" Drywall	XF2	
Mud-In Trimless, set thickness in field (mounting equipment assembled in field)	XFF	
factory options		
Chicago Plenum	CP	
Emergency Circuit*	EC	
Emergency Battery Pack*	EM	
Flex Whip*	FW	
HLR/GLR Fuse	FU	
Include 3000K lamp	L830	
Include 3500K lamp	L835	
Include 4100K lamp	L841	
finish		WH
Matte White	WH	
luminaire length (lengths are nominal)		
Specify luminaire/row length in 1' increments (consult Factory for 5' dimming)	X'	

Focal Point LLC | 1444 S. Pulaski Rd, Chicago, IL 60623 | T: 773.247.4000 | F: 773.247.4001 | info@focalpointlights.com | www.focalpointlights.com.
Focal Point LLC reserves the right to change specifications in products or discontinue them without notification.

* for more information see Reference section.

7

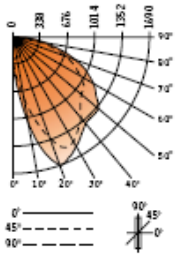
TYPE: B2

recessed asymmetric - drywall/grid

seem™ 4

Filename: FSM4ANS1TsHO.IES
Catalog #: FSM4A-NS-1TsHO-1C-120-5-G1-WH-4'
Efficiency: 53%
Test #: 16062.0

CANDLEPOWER DISTRIBUTION



Vertical Angle	Horizontal Angle 0°	22.5°	45°	67.5°	90°	Zonal Lumens
0°	269	269	269	269	269	
5°	663	613	523	403	268	33
15°	1459	1363	1064	659	255	158
25°	1652	1636	1309	930	229	315
35°	1488	1480	1415	1111	199	424
45°	1401	1305	1185	1052	139	474
55°	1264	1226	1083	857	105	480
65°	1012	984	858	609	58	404
75°	637	613	537	403	31	274
85°	268	252	203	126	7	104
90°	142	126	88	32	0	
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	

LUMEN SUMMARY

	Zone	Lumens	% Lamp	% Fix
	0-30°	506	10.1	19.0
	0-40°	930	18.6	34.9
	0-60°	1883	37.7	70.7
	0-90°	2665	53.3	100.0
Total Luminaire	0-180°	2665	53.3	100

CO-EFFICIENTS OF UTILIZATION

Floor		80				70			50	30	10	00
Ceiling												
Wall	70	50	30	10		70	50	10	50	10	50	00
RCR 0	63	63	63	63		62	62	62	59	57	54	53
1	57	55	52	50		56	53	49	51	49	47	43
2	52	47	43	40		50	46	39	44	42	41	38
3	47	41	36	33		43	40	32	39	37	36	33
4	43	36	31	27		41	35	27	34	33	31	29
5	39	31	26	22		37	31	22	29	28	27	25
6	35	28	22	19		34	27	19	26	24	24	22
7	32	24	19	16		31	24	16	23	22	22	20
8	29	22	17	13		29	21	13	20	20	19	17
9	27	19	14	11		26	19	11	18	18	17	15
10	25	17	13	10		24	17	10	16	16	15	14

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

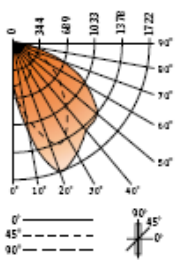
Numbers indicate percentage values of reflectivity.

recessed asymmetric - drywall/grid

seem™ 4

Filename: FSM4ARL1TsHO.IES
Catalog #: FSM4A-RL-1TsHO-1C-120-5-G1-WH-4'
Efficiency: 45%
Test #: 16063.0

CANDLEPOWER DISTRIBUTION



Vertical Angle	Horizontal Angle 0°	22.5°	45°	67.5°	90°	Zonal Lumens
0°	546	546	546	546	546	
5°	812	793	725	632	533	55
15°	1509	1413	1129	793	509	203
25°	1681	1593	1395	892	465	345
35°	1517	1382	1190	899	399	429
45°	1415	1357	883	678	294	414
55°	1229	976	661	46	230	371
65°	880	644	365	215	151	248
75°	429	303	179	127	83	124
85°	116	106	79	49	21	42
90°	69	65	44	21	0	
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	

LUMEN SUMMARY

	Zone	Lumens	% Lamp	% Fix
	0-30°	609	12.1	27.1
	0-40°	1026	20.5	46.1
	0-60°	1812	36.2	81.4
	0-90°	2225	44.5	100.0
Total Luminaire	0-180°	2225	44.5	100

CO-EFFICIENTS OF UTILIZATION

Floor		80				70			50	30	10	00
Ceiling												
Wall	70	50	30	10		70	50	10	50	10	50	00
RCR 0	53	53	53	53		52	52	52	49	47	45	45
1	49	47	45	44		48	46	43	44	42	41	38
2	45	41	39	36		44	41	36	39	38	36	33
3	41	37	33	31		40	36	30	35	34	32	28
4	38	33	29	26		37	32	26	31	30	29	24
5	34	29	25	22		34	28	22	27	27	26	20
6	32	26	22	19		31	25	19	25	24	23	18
7	29	23	19	17		28	23	16	22	21	21	15
8	27	21	17	14		26	20	14	20	19	19	13
9	25	18	15	12		24	18	12	18	17	17	11
10	23	17	13	11		22	16	11	16	16	15	10

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

Numbers indicate percentage values of reflectivity.

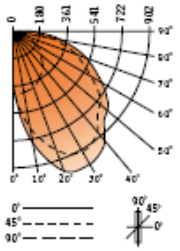
TYPE: B2

recessed asymmetric - drywall

seem™ 4

Filename: FSM4ANS1T8.IES
Catalog #: FSM4A-NS-1T8-1C-120-S-TF-WH-4'
Efficiency: 50%
Test #: 16251.0

CANDLEPOWER DISTRIBUTION



Vertical Angle	Horizontal Angle 0°	22.5°	45°	67.5°	90°	Zonal Lumens
0°	356	356	356	356	356	
5°	531	511	468	409	348	35
15°	755	726	647	519	336	106
25°	856	834	758	578	310	177
35°	837	821	762	611	275	235
45°	708	697	654	541	213	248
55°	632	611	568	479	165	252
65°	501	485	431	358	109	213
75°	356	342	293	219	58	151
85°	186	171	135	81	7	69
90°	121	108	73	30	0	
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	

LUMEN SUMMARY

	Zone	Lumens	% Lamp	% Fixt
	0-30°	318	10.8	21.4
	0-40°	552	18.7	37.2
	0-60°	1053	35.7	70.8
	0-90°	1486	50.4	100
Total Luminaire	0-180°	1486	50.4	100

CO-EFFICIENTS OF UTILIZATION

Floor	80				70			50		30		10	00
Ceiling								30		10		00	
Wall	70	50	30	10	70	50	10	50	10	50	10	00	00
RCR 0	60	60	60	60	59	59	59	56	56	54	54	51	50
1	54	52	49	47	53	50	46	48	45	46	43	44	41
2	49	45	41	38	48	44	37	42	36	40	36	39	35
3	45	39	35	31	43	38	31	37	30	35	30	34	29
4	41	34	30	26	39	34	26	32	26	31	25	30	25
5	37	30	25	22	36	29	22	28	21	27	21	26	20
6	34	27	22	18	33	26	18	25	18	24	18	23	18
7	31	4	19	16	30	23	16	23	16	22	15	21	15
8	28	21	17	14	28	21	13	20	13	19	12	19	13
9	26	19	14	12	25	19	11	18	11	17	11	17	11
10	24	17	13	10	24	17	10	13	10	13	10	15	10

Bracketed values indicate percentage values of reflectivity.

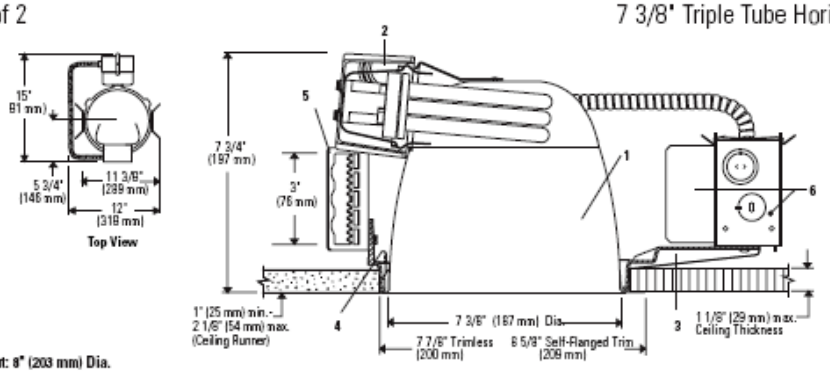
Go to www.focalpointlights.com for additional photometric data.

TYPE: C2

LIGHTOLIER® Calculite® CFL Open Downlight 8037

Page 1 of 2

7 3/8" Triple Tube Horizontal Lamp



Ceiling Cutout: 8" (203 mm) Dia.

Reflector Trim

8037CLW	Clear Iridescence Free, White Flange
8037CLP	Clear Iridescence Free, Polished Flange
8037CL	Clear Iridescence Free, Molded Trim Ring
8037 ☐	Add suffix. See options for other finishes.

Frame-In Kit

S7126BU	7" aperture, 1 lamp 26W Triple Tube CFL (120/277V) 4-Pin (Amalgam)
S7132BU	7" aperture, 1 lamp 26/32W Triple Tube CFL (120/277V) 4-Pin (Amalgam)
S7142BU	7" aperture, 1 lamp 26/32/42W Triple Tube CFL (120/277V) 4-Pin (Amalgam)

Dimming Options:

S7132B ☐ or **S7142B** ☐

CU3	Lightolier PowerSpec 3% Dimming (120/277V)	**J1LD3**	Lutron 5% Dimming (120V)
J2LD3	Lutron 5% Dimming (277V)	**JUM7**	Mark 7 Dimming (120/277V)
J1MX	Mark 10 Dimming (120V)	**J2MX**	Mark 10 Dimming (277V)

Other dimming product available, please consult factory

Remodeler Frame-In Kits

7126BURM	7" aperture, 1 lamp 26W Triple Tube CFL (120/277V) 4-Pin (Amalgam))
7132BURM	7" aperture, 1 lamp 26/32W Triple Tube CFL (120/277V) 4-Pin (Amalgam)
7142BURM	7" aperture, 1 lamp 26/32/42W Triple Tube CFL (120/277V) 4-Pin (Amalgam)

Features

1. **Reflector:** 16 ga. Alzak® aluminum, 55° visual cutoff to lamp and lamp image, wide distribution. Iridescence Free finish. Self-flanged or flangeless with molded white trim ring (field paintable).
2. **Socket Cup:** Snaps onto reflector neck to assure consistently correct optical alignment without tools.
4. **Retaining Springs:** Precision-tooled steel friction springs secure reflector to mounting frame for quick, tool-less installation.
5. **Mounting Brackets:** 16 ga. steel. Adjust from inside of fixture. Use 3/4" or 1 1/2" lathing channel, 1/2" EMT, or optional mounting bars.
6. **Ballast/J-Box:** Outboard mounted to reduce heat transfer and maintain lamp efficacy and life. Service from below without tools.

Electrical

Note: Note: For ballast electrical data and latest lamp/ballast compatibility refer to "Ballast" specification sheet for complete electrical data.

UL Listed for through branch circuit wiring with max of (8) No 12 AWG, 90 degree C supply conductors.

Options and Accessories

Comfort Clear™ Finishes[1]		Other Finishes	
Clear	**CCL**	White	**WH**
Diffuse	**CCD**	Multigroove	**MG**
Champagne Bronze	**CCZ**		

[1]Specify desired flange
W White, **P** Polished
Blank - Molded Ring

Options and Accessories (continued)

Emergency	Add suffix **EM***
Chicago Plenum	Add suffix **LC**
Existing/Thk. Ceiling	**FA EC7***
Emergency Ltg. Kit	**FA EM3E***
	FA EM4E*
Fuse (Slow Blow)	Add Suffix **F**

*See Spec. Sheets: FAEC, FAEM

Mounting Bars & Accessories; see Specification Sheet MBA.
Sloped Ceiling Adapters; see Specification Sheet SCA.

Labels

UL listed for damp locations, I.B.E.W.

Alzak® is a registered trademark of ALCOA

Job Information **Type:**

Job Name:

Cat. No.:

Lamp(s):

Notes:

631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710

Lightolier is a Philips group brand

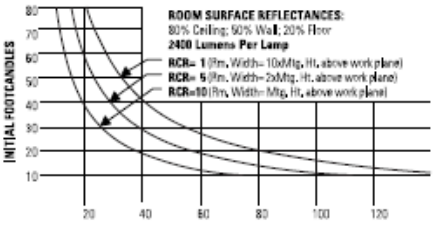
PHILIPS

TYPE: C2

LIGHTOLIER Calculite® CFL Open Downlight **8037**

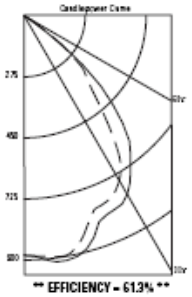
Page 2 of 2 — 7 3/8" Triple Tube Horizontal Lamp

32W
Quick Calculator



This quick calculator chart determines the number and spacing of 1 lt.- 32W PL-T units with clear reflector, for any level of illumination.

Spacing Ratio = 1.3
Report No.: LRL 796-1G
PREPARED BY: LIGHTING RESEARCH LABORATORY, INC
PREPARED FOR: LIGHTOLIER
DESCRIP.: 7-3/8" dia. x 7" Ht. recessed downlight
- open bottom spun semispecular reflector; tilted horizontal lamp
BALLAST: LIGHTOLIER GLT423-120I.
LAMPS: 1 PLT-32W rated at 2400 LUMENS.



** EFFICIENCY = 61.3% **

ZONE	0	22	45	67	88
DEG.		CANDELAS			
90	0	0	0	0	0
85	0	0	1	1	1
80	1	1	1	1	1
75	1	2	2	2	2
70	2	2	3	3	3
65	4	4	4	4	4
60	9	9	10	11	10
55	70	67	71	73	69
50	235	247	270	282	282
45	328	333	377	430	462
40	437	461	534	572	604
35	508	585	633	654	683
30	701	656	665	728	768
25	746	728	748	784	788
20	750	802	807	811	809
15	841	893	884	902	888
10	847	921	918	916	915
5	889	902	885	899	882
0	883	883	883	883	883

ZONE	LUMENS	%BARE LAMP	%LUMINAIRE
0-30	681	28.4	46.3
0-40	1069	44.6	72.7
0-60	1463	61.0	99.5
0-90	1470	61.3	100.0
40-90	401	16.7	27.3
60-90	7	0.3	0.5
90-120	0	0.0	0.0
90-150	0	0.0	0.0
90-180	0	0.0	0.0
0-180	1470	61.3	100.0

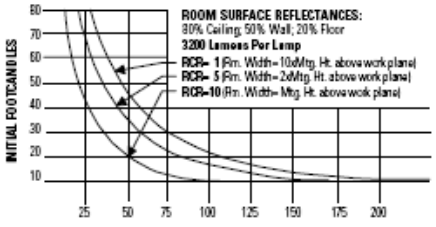
Coefficients Of Utilization

% EFFECTIVE CEILING CAVITY REFLECTANCE

	80			70			50			30			10		0
	% WALL REFLECTANCE														
ROOM CAVITY RATIO	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
1	.67	.65	.63	.65	.64	.62	.63	.61	.60	.60	.59	.58	.58	.58	.57	.56
2	.61	.58	.55	.60	.57	.55	.58	.55	.54	.56	.54	.52	.54	.53	.51	.50
3	.55	.52	.49	.55	.51	.49	.53	.50	.48	.51	.49	.47	.50	.48	.46	.45
4	.51	.47	.44	.50	.46	.43	.49	.45	.43	.47	.45	.42	.46	.44	.42	.41
5	.47	.42	.39	.46	.42	.39	.45	.41	.39	.44	.41	.38	.43	.40	.38	.37
6	.43	.38	.35	.42	.38	.35	.41	.38	.35	.40	.37	.35	.39	.37	.34	.33
7	.39	.35	.32	.38	.35	.32	.38	.34	.32	.37	.34	.31	.37	.34	.31	.30
8	.36	.32	.29	.35	.32	.29	.34	.32	.29	.35	.31	.29	.34	.31	.29	.28
9	.34	.30	.27	.33	.29	.27	.33	.29	.27	.32	.29	.26	.32	.29	.26	.25
10	.31	.27	.25	.31	.27	.24	.31	.27	.24	.30	.27	.24	.30	.26	.24	.23

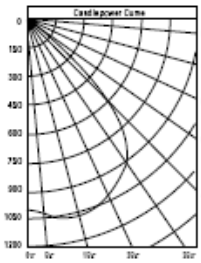
20% FLOOR CAVITY REFLECTANCE

42W
Quick Calculator



This quick calculator chart determines the number and spacing of 1 lt.- 42W PL-T units with clear reflector, for any level of illumination.

Spacing Ratio = 1.4
Report No.: LRL 796-1F
PREPARED BY: LIGHTING RESEARCH LABORATORY, INC
PREPARED FOR: LIGHTOLIER
DESCRIP.: 7-3/8" dia. x 7" Ht. recessed downlight
- open bottom spun semispecular reflector; tilted horizontal lamp
BALLAST: LIGHTOLIER GLT423-120I.
LAMPS: 1 PLT-42W rated at 3200 LUMENS.



** EFFICIENCY = 65.4% **

ZONE	0	22	45	67	88
DEG.		CANDELAS			
90	0	0	0	0	0
85	1	1	1	1	1
80	1	1	1	1	1
75	3	3	3	3	3
70	3	3	3	3	3
65	4	4	4	4	4
60	9	9	9	9	9
55	83	90	80	77	78
50	436	409	436	398	413
45	634	622	634	663	688
40	737	756	800	850	858
35	886	935	820	851	848
30	975	964	823	1022	1048
25	1845	1050	1030	1066	1100
20	1853	1070	1077	1117	1148
15	1874	1097	1148	1141	1176
10	1846	1076	1091	1069	1121
5	1804	1069	1017	1021	1028
0	1802	1002	1002	1002	1002

ZONE	LUMENS	%BARE LAMP	%LUMINAIRE
0-30	896	28.0	42.8
0-40	1485	46.8	70.0
0-60	2094	65.1	99.6
0-90	2062	65.4	100.0
40-90	627	19.6	30.0
60-90	8	0.3	0.4
90-120	0	0.0	0.0
90-150	0	0.0	0.0
90-180	0	0.0	0.0
0-180	2062	65.4	100.0

Coefficients Of Utilization

% EFFECTIVE CEILING CAVITY REFLECTANCE

	80			70			50			30			10		0
	% WALL REFLECTANCE														
ROOM CAVITY RATIO	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
1	.72	.70	.69	.71	.69	.68	.68	.67	.66	.65	.64	.64	.63	.62	.62	.61
2	.67	.64	.62	.66	.63	.61	.64	.62	.60	.62	.60	.59	.60	.59	.57	.56
3	.62	.59	.56	.61	.58	.56	.60	.57	.55	.58	.56	.54	.57	.55	.53	.52
4	.57	.54	.51	.57	.53	.50	.55	.52	.50	.54	.51	.49	.53	.50	.49	.48
5	.53	.49	.46	.53	.49	.46	.51	.48	.46	.50	.47	.45	.49	.47	.45	.44
6	.49	.45	.42	.49	.45	.42	.48	.44	.42	.47	.44	.41	.46	.43	.41	.40
7	.45	.41	.38	.45	.41	.38	.44	.40	.38	.43	.40	.37	.42	.40	.37	.36
8	.42	.37	.34	.41	.37	.34	.40	.37	.34	.40	.36	.34	.39	.36	.34	.33
9	.38	.34	.31	.38	.34	.31	.37	.33	.31	.36	.33	.30	.36	.33	.30	.29
10	.33	.29	.26	.33	.29	.26	.32	.29	.26	.32	.28	.25	.31	.28	.25	.24

20% FLOOR CAVITY REFLECTANCE

Job Information **Type:**

631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710

Lightolier is a Philips group brand

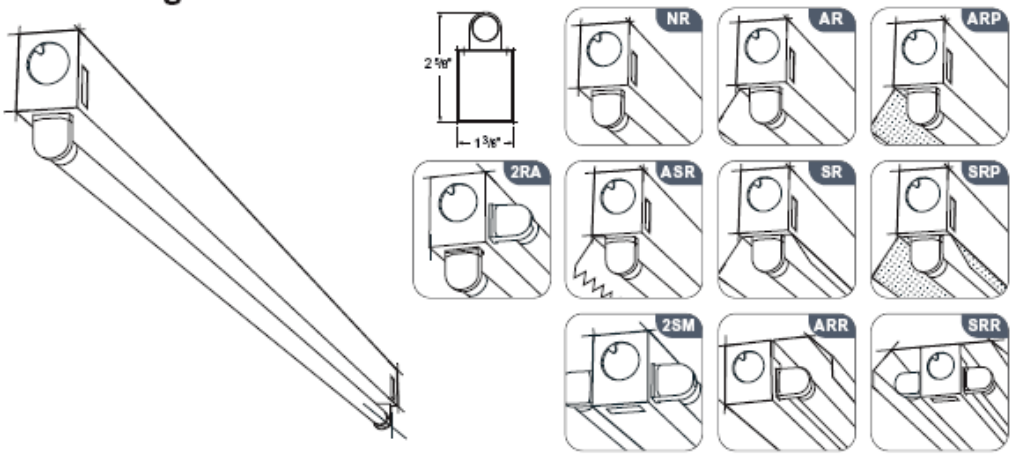
PHILIPS

TYPE: D2

Type
Job Name
Catalog Number

Efficiency ADA Compliant

String Basis Strips Series



ordering

series/ lamping	configu-ration	body style	nominal length	color/finish	circuiting	voltage	mounting	options
String-								
T5 T5HO	1TM	NR no reflector AR asymmetric reflector ARP asymmetric reflector perforated ASR asymmetric sawtooth reflector SR symmetric reflector SRP symmetric reflector perforated	02' 03' 04' 06' 08' R__‡ ‡row length	YGW* gloss white TMW textured matte white Y__ premium color CC custom color *standard	SC DC‡ ‡2 or 3 lamp only- 4' minimum fixture length	120 277 UNV‡ ‡120-277	SUR surface or wall mount CA48" aircraft cable CA96" aircraft cable	EML‡ EMH‡ ECO10† ECOS† ECOS-H† HI-L† HI-L3D† MRK7† MRK10† B__ FH EBCP1G EBCP2G
	1SM 2RA	NR no reflector ARR asymmetric reverse reflector						
	2SM 3SM	NR no reflector SRR symmetric reverse reflector						

‡4' minimum fixture lengths
~not available with 3SM
†specify 220 or 277 voltage

Finish The standard housing finish is gloss white (YGW) polyester powder paint, and is painted after fabrication. See the Color Selector for optional paint colors.

Electrical T5 and T5HO fixtures have programmed rapid start electronic ballasts with less than 10% THD. Non-dimming ballasts are 120-277 voltage. See Options column for available dimming ballasts. Fixtures are U.L. Damp labeled and I.B.E.W. manufactured. Maximum ballast case size available: 1.18" width x 1.00" height

Applications Retail, creative office spaces, concealed coves, schools.

Features A high-quality T5 and T5HO configurable strip fixture with a wide variety of lamping positions and reflector options. The fixture body has a minimal profile, yet integrates many common ballasts, dimming ballasts and emergency ballasts. Fixture body has side and end knockouts to accommodate top and side lamp sockets and electrical fittings.

Construction The fixture body is formed and welded of die-formed 20-gauge steel. Standard fixture nominal lengths are 2', 3', 4', 6' and 8'.

Mounting Fixture is to be surface-mounted, wall-mounted directly, or suspended with adjustable aircraft cables.

Options **EML**: emergency battery (390-700 lumens); **EMH**: emergency battery (600-1325 lumens); **ECO10**: Lutron Eco10; **ECOS**: Lutron EcoSystem dimming; **ECOS-H**: Lutron EcoSystem H-Series dimming; **HI-L**: Lutron Hi-Lume; **HI-L3D**: Lutron Hi-Lume 3D; **MRK7**: Advance Mark7 0-10V dimming; **MRK10**: Advance Mark10 line voltage dimming; **B_**: specific ballast, specify manufacturer and catalog number; **FH**: fixture fusing (slow blow). **EBCP**: electrical box cover plate/mud ring, single gang or 2 gang.

Prudential reserves the right to change design specifications or materials without notice.

0816 **Prudential Ltg.** 1737 East 22nd Street, Los Angeles, CA 90058 10/11

TYPE: D2

ADA Compliant

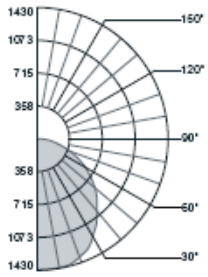
Efficiency

Basis Strips Series **String**

photometric data

STRING-2SM-SRR-04-YGW-120

Report # Lo8o2oo1 D-74.1% I-15.9%
Spacing Criteria: Along 1.16; Across 1.28
Lamp Lumens: 2500 Input Watts: 55.68



Candlepower Summary

Vertical Angle	Horizontal Angle 0°	22.5°	45°	67.5°	90°
0	1421	1421	1421	1421	1421
5	1411	1414	1417	1423	1430
15	1359	1373	1392	1407	1420
25	1262	1289	1319	1324	1324
35	1124	1162	1167	1146	1141
45	951	991	958	941	938
55	752	770	736	727	730
65	530	525	513	511	508
75	297	292	276	276	279
85	63	82	104	120	126
90	22	34	54	69	75
95	17	16	27	39	43
105	0	0	0	0	0
115	0	0	0	0	0
125	0	0	0	0	0
135	0	0	0	0	0
145	0	0	0	0	0
155	0	0	0	0	0
165	0	0	0	0	0
175	0	0	0	0	0
180	0	0	0	0	0

Zonal Lumen Summary

Zone	% Lamp	% Luminaire
0-90	72.30	90.10
90-180	00.60	00.90

Efficiency - 71.90%

Luminance Summary (cd/m²)

Angle	0°	45°	90°
45	9784	9518	9215
55	9617	8866	8566
65	9070	8161	7898
75	8233	6766	6589
85	4991	5947	6801

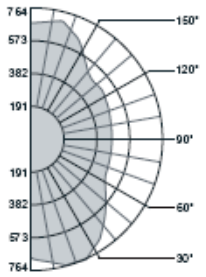
Coefficients of Utilization (%)

Floor	effective floor cavity reflectance - .20									
Ceiling	80			70			50			
Wall	70	50	30	10	70	50	30	10	50	30	10
RCR 0	87	87	87	87	85	85	85	85	81	81	81
1	77	73	69	66	75	71	68	65	68	65	62
2	69	62	57	52	67	61	56	51	58	54	50
3	63	54	47	42	61	53	46	41	50	45	41
4	57	47	40	35	55	46	39	34	44	38	34
5	52	42	34	29	50	41	34	29	39	33	28
6	48	37	30	25	46	36	30	25	35	29	24
7	44	33	26	22	43	33	26	21	31	25	21
8	41	30	23	19	39	30	23	19	28	23	19
9	38	27	21	17	37	27	21	17	26	20	16
10	36	25	19	15	34	25	19	15	24	18	15

photometric data

STRING-2SM-NR-04-YGW

Report # Lo10404 D-86.0% I-13.9%
Lamp Lumens: 2500 Input Watts: 64.13



Candlepower Summary

Vertical Angle	Horizontal Angle 0°	22.5°	45°	67.5°	90°
0	689	689	689	689	689
5	686	688	693	700	704
15	669	676	711	741	755
25	606	648	717	754	764
35	530	600	669	690	698
45	437	533	577	602	612
55	332	426	472	514	530
65	220	306	374	446	478
75	110	212	329	435	473
85	24	122	316	427	467
90	16	149	314	429	470
95	44	161	319	431	471
105	138	211	337	438	475
115	247	269	372	455	486
125	354	380	395	473	500
135	453	492	468	471	493
145	538	548	571	555	550
155	606	642	659	651	647
165	653	667	693	710	712
175	676	678	677	679	681
180	676	676	676	676	676

Zonal Lumen Summary

Zone	% Lamp	% Luminaire
0-90	49.20	51.90
90-180	46.30	48.90

Efficiency - 95.50%

Luminance Summary (cd/m²)

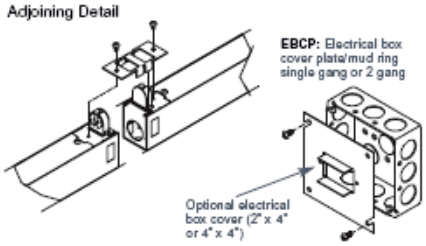
Angle	0°	45°	90°
45	6123	6017	5851
55	5651	5415	5450
65	4960	4934	5497
75	3845	5297	6392
85	2001	6789	7941

Coefficients of Utilization (%)

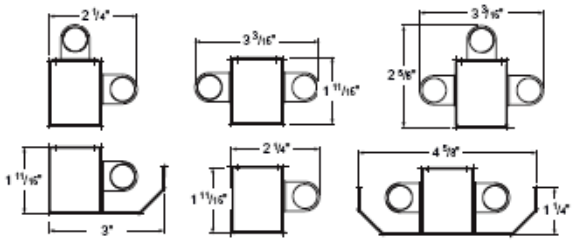
Floor	effective floor cavity reflectance - .20									
Ceiling	80			70			50			
Wall	70	50	30	10	70	50	30	10	50	30	10
RCR 0	103	103	103	103	95	95	95	95	90	90	90
1	90	84	79	75	83	78	73	69	65	62	59
2	81	72	65	59	74	66	60	54	55	51	46
3	73	62	54	48	67	57	50	44	48	42	38
4	66	55	46	39	61	50	43	37	42	36	31
5	61	48	40	33	55	44	37	31	37	31	26
6	56	43	34	28	51	40	32	26	33	27	22
7	51	38	30	24	47	35	28	23	30	24	19
8	47	35	27	21	43	32	25	20	27	21	17
9	44	31	24	19	40	29	22	17	25	19	15
10	41	28	21	16	38	27	20	15	22	17	13

installation

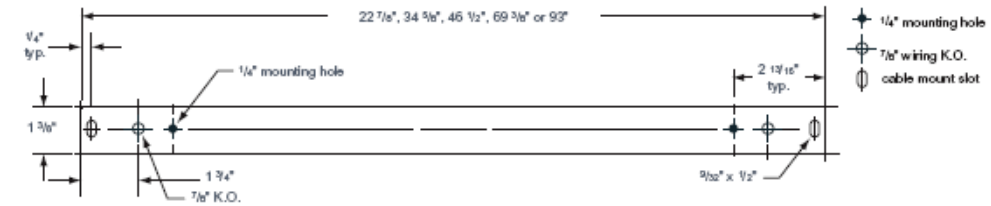
Adjoining Detail



Body Style Dimensions



Mounting Locations

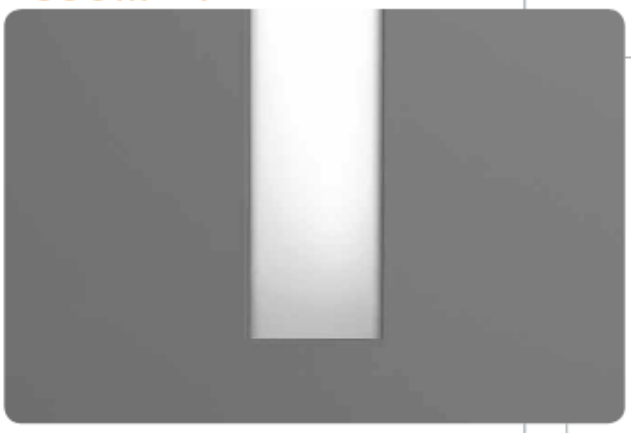


Prudential Ltg. tel 213.746.0360 fax 213.741.8590 prultte.com 08 16

TYPE: A3

recessed wall mount

seem® 4



FOCAL POINT

features

Narrow 4" aperture slot fluorescent luminaire that integrates with wall for a clean unobtrusive aesthetic.

Frosted acrylic flush lens provides even illumination.

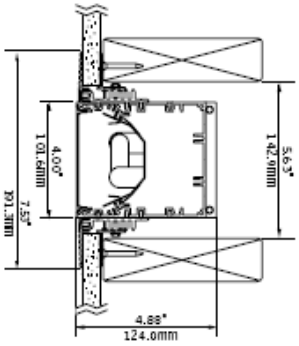
Allows for individual and continuous row mount in trimless drywall applications.

Available in 1 lamp T5 or T8 configurations, Seem 4 provides continuous illumination by combining 3' and 4' staggered lamps.

companion luminaires

recessed wall to ceiling corner

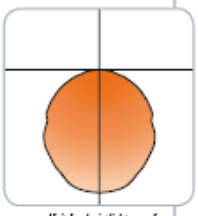
dimensional data



notes: designed for 2"x6" construction
0.375"min - 2.125"max material thickness

performance

1-Lamp T5
56% Efficiency
595 cd @ 0°



Visit focalpointlights.com for complete photometric data.

september 2011 G

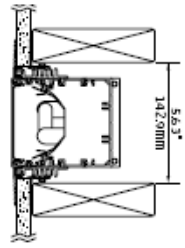
www.focalpointlights.com | 1.773.247.9494

TYPE: A3

fixture:

project:

mounting information



notes: designed for 2"x6" construction
0.375"min - 2.125"max drywall thickness

specifications

construction
One piece, .07" thick housing of 6063-T5 extruded aluminum.
16 Ga. internal bulkhead. 20 Ga. steel end caps.
Luminaires include trimless aluminum flange.
Lengths 6' and longer configured with staggered lamps:

1-lamp T8: 4.47" overlap
1-lamp T5/T5HO: 4.35" overlap

2' unit weight: 18 lbs.
3' unit weight: 24 lbs.
4' unit weight: 30 lbs.
5' unit weight: 36 lbs.

optic
Reflectors fabricated of 22 Ga. steel finished in High Reflectance White powder coat.
Flush satin lens: extruded acrylic lens .07" thick with opal satin finish.

electrical
Luminaires are pre-wired with factory installed branch circuit wiring and over-molded quick connects.
Electronic fluorescent 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 pre-treatment.

ordering

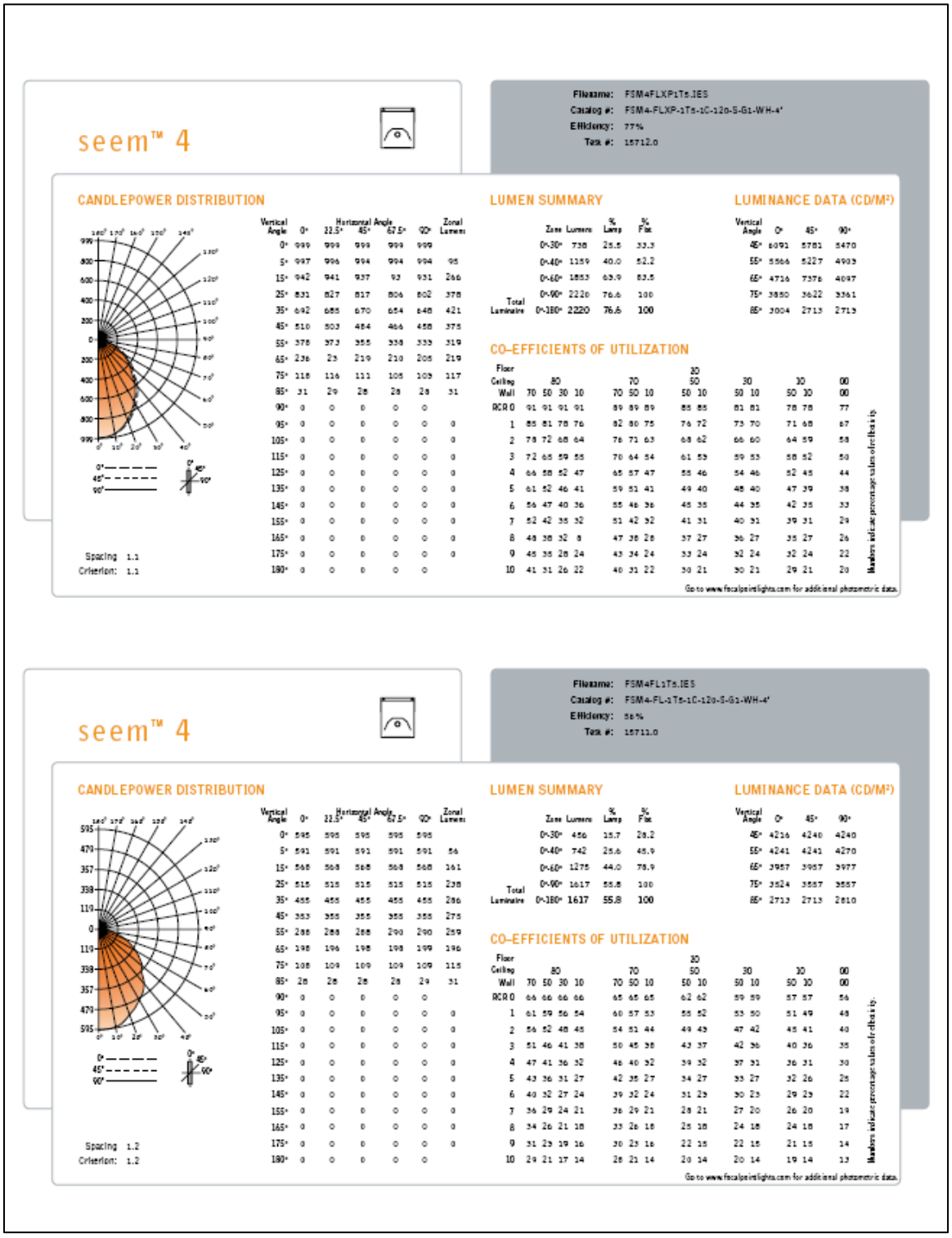
luminaire series		FSM4
Seem 4	FSM4	
shielding		FL
Flush Satin Lens	FL	
lamping		
One Lamp T8	1T8	
One Lamp T5	1T5	
circuits		1C
Single Circuit	1C	
voltage		
120 Volt	120	
277 Volt	277	
347 Volt	347	
ballast		
Electronic Instant Start <20% THD (T8 only)	E	
Electronic Program Start <10% THD Electronic Dimming Ballast*	S D	
mounting		
Mud-in Trimless, pre-set for 1/2" Drywall	XF1	
Mud-in Trimless, pre-set for 5/8" Drywall	XF2	
Mud-in Trimless, set thickness in field (mounting equipment assembled in field) (2.125" max/.375" min ceiling/wall thickness. Suitable for both wall and ceiling applications.)	XFF	
factory options		
Emergency Circuit*	EC	
Emergency Battery Pack*	EM	
Flex Whip*	FW	
HLR/GLR Fuse	FU	
Include 3000K lamp	L830	
Include 3500K lamp	L835	
Include 4100K lamp	L841	
finish		WH
Matte White	WH	
luminaire length (lengths are nominal)		
Specify wall and ceiling lengths in 1' increments (lengths 6' and longer configured with staggered lamps.) (Consult factory for 5' dimming)	X'	

* for more information see Reference section.

Focal Point LLC | 1440 S. Pulaski Rd, Chicago, IL 60623 | T: 773.247.9999 | F: 773.247.9990 | info@focalpointlights.com | www.focalpointlights.com.
Focal Point LLC reserves the right to change specifications for product improvement without notification.

wall/ceiling

TYPE: A3



seem™ 4

Filename: FSM4FLXP1T5.IES
Catalog #: FSM4-FLXP-1T5-1C-120-S-G1-WH-4'
Efficiency: 77%
Test #: 15712.0

CANDLEPOWER DISTRIBUTION

Vertical Angle	0°	22.5°	45°	67.5°	90°	Zonal Lumens
0°	999	999	999	999	999	
5°	997	996	994	994	994	95
15°	942	941	937	93	931	266
25°	831	827	817	806	802	378
35°	692	685	670	654	648	421
45°	510	503	484	466	458	375
55°	378	373	355	338	333	319
65°	236	23	219	210	205	219
75°	118	116	111	105	103	117
85°	31	29	28	26	26	31
90°	0	0	0	0	0	
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	

Spacing 1.1
Criterion: 1.1

LUMEN SUMMARY

	Zone	Lumens	% Lamp	% Flux
	0-30°	738	25.5	33.3
	0-40°	1159	40.0	52.2
	0-60°	1853	63.9	83.5
	0-90°	2226	76.6	100
Total Luminaire	0-180°	2220	76.6	100

LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	6091	5781	5470
55°	5566	5227	4903
65°	4716	7376	4097
75°	3850	3622	3361
85°	3004	2713	2713

CO-EFFICIENTS OF UTILIZATION

Floor	80				70			70		50	30		10	00
Ceiling	80				70			50		10	50	10	50	00
Wall	70	50	30	10	70	50	10	50	10		50	10	50	00
RCR 0	91	91	91	91	89	89	89	85	85		81	81	78	77
1	85	81	78	76	82	80	75	76	72		73	70	71	68
2	78	72	68	64	76	71	63	68	62		66	60	64	59
3	72	65	59	55	70	64	54	61	53		59	53	58	52
4	66	58	52	47	65	57	47	55	46		54	46	52	45
5	61	52	46	41	59	51	41	49	40		48	40	47	39
6	56	47	40	36	55	46	36	45	35		44	35	42	35
7	52	42	35	32	51	42	32	41	31		40	31	39	31
8	48	38	32	8	47	38	28	37	27		36	27	35	27
9	45	35	28	24	43	34	24	33	24		32	24	32	24
10	41	31	26	22	40	31	22	30	21		30	21	29	21

Numbers indicate percentage values of efficiency.

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

seem™ 4

Filename: FSM4FL1T5.IES
Catalog #: FSM4-FL-1T5-1C-120-S-G1-WH-4'
Efficiency: 56%
Test #: 15711.0

CANDLEPOWER DISTRIBUTION

Vertical Angle	0°	22.5°	45°	67.5°	90°	Zonal Lumens
0°	595	595	595	595	595	
5°	591	591	591	591	591	56
15°	568	568	568	568	568	161
25°	515	515	515	515	515	238
35°	455	455	455	455	455	286
45°	353	355	355	355	355	275
55°	288	288	288	290	290	259
65°	198	196	198	198	199	196
75°	108	109	109	109	109	115
85°	28	28	28	28	29	31
90°	0	0	0	0	0	
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	

Spacing 1.2
Criterion: 1.2

LUMEN SUMMARY

	Zone	Lumens	% Lamp	% Flux
	0-30°	456	15.7	28.2
	0-40°	742	25.6	45.9
	0-60°	1275	44.0	78.9
	0-90°	1617	55.8	100
Total Luminaire	0-180°	1617	55.8	100

LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	4216	4240	4240
55°	4241	4241	4270
65°	3957	3957	3977
75°	3524	3557	3557
85°	2713	2713	2610

CO-EFFICIENTS OF UTILIZATION

Floor	80				70			70		50	30		10	00
Ceiling	80				70			50		10	50	10	50	00
Wall	70	50	30	10	70	50	10	50	10		50	10	50	00
RCR 0	66	66	66	66	65	65	65	62	62		59	59	57	56
1	61	59	56	54	60	57	53	55	52		53	50	51	49
2	56	52	48	45	54	51	44	49	43		47	42	45	41
3	51	46	41	38	50	45	38	43	37		42	36	40	36
4	47	41	36	32	46	40	32	39	32		37	31	36	31
5	43	36	31	27	42	35	27	34	27		33	27	32	26
6	40	32	27	24	39	32	24	31	23		30	23	29	23
7	36	29	24	21	36	29	21	28	21		27	20	26	20
8	34	26	21	18	33	26	18	25	18		24	18	24	18
9	31	23	19	16	30	23	16	22	15		22	15	21	15
10	29	21	17	14	28	21	14	20	14		20	14	19	14

Numbers indicate percentage values of efficiency.

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

TYPE: A3

seem® 4 & 6 run information

EXAMPLE 16' run

1-T5/T5HO

2-T5/T5HO (may exhibit noticeable socket shadows)

1-T8

2-T8 (may exhibit noticeable socket shadows)

notes:

- lamp overlap is consistent throughout run.
- unlit ends vary to provide even light throughout run.
- standard configurations listed, consult factory for additional options.

www.focalpointlights.com | 1.773.247.9494

TYPE: A3

seem® 4 & 6 run information

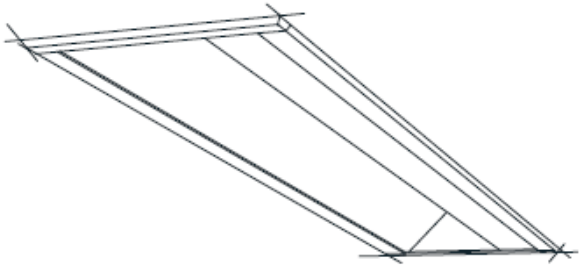
nominal run length (ft)	1-T5/T5HO (4.35" overlap)			2-T5/T5HO (2.00" overlap)			1-T8 (4.47" overlap)			2-T8 (9.35" overlap)		
	lamp quantity		unlit ends (in)	lamp quantity		unlit ends (in)	lamp quantity		unlit ends (in)	lamp quantity		unlit ends (in)
	3'	4'		3'	4'		3'	4'		3'	4'	
6	2		3.5	4		0.2	2		1.8	n/a	n/a	n/a
7	1	1	3.6	2	2	0.3	1	1	1.8	4		0.8
8	3		0.5		4	0.4		2	1.8	2	2	0.8
9	2	1	0.6	6		1.1	3		4.0		4	0.9
10	1	2	0.6	4	2	1.2	2	1	4.1	6		0.8
11		3	0.8	2	4	1.3	4		0.3	4	2	0.8
12	3	1	3.7		6	1.3	3	1	0.3	2	4	0.8
13	5		0.7	6	2	2.1	2	2	0.3		6	0.8
14	4	1	0.8	4	4	2.2	1	3	0.3	6	2	0.8
15	3	2	0.8	2	6	2.3		4	0.3	4	4	0.8
16	2	3	1.0		8	2.3	3	2	2.6	2	6	0.8
17	1	4	1.1	6	4	3.0	2	3	2.6		8	0.8
18		5	1.1	4	6	3.1	1	4	2.6	6	4	0.8
19	6	1	0.8	2	8	3.2	7		1.0	4	6	0.8
20	5	2	0.8		10	3.3	6	1	1.0	2	8	0.8
21	4	3	1.0	6	6	4.0	5	2	1.1		10	0.8
22	3	4	1.1	4	8	4.1	4	3	1.1	6	6	0.8
23	9		1.1	2	10	4.2	3	4	1.1	4	8	0.8
24	1	6	0.9		12	4.3	2	5	1.1	2	10	0.8
25	7	2	1.3	6	8	4.9	1	6	1.1		12	0.8
26	6	3	1.2	18		0.3		7	1.2	6	8	0.8
27	5	4	1.3	16	2	0.3	10		1.8	4	10	0.8
28	11		1.0	14	4	0.4	9	1	1.8	2	12	0.8
29	10	1	1.1	12	6	0.6	8	2	1.8		14	0.8
30	9	2	1.2	10	8	0.7	7	3	1.8	6	10	0.8
31	8	3	1.3		16	0.2	6	4	1.8	4	12	0.8
32	7	4	1.4	6	12	0.8	5	5	1.8	2	14	0.8
33	13		1.2	4	14	0.9	4	6	1.8		16	0.8
34	12	1	1.2	2	16	1.1	3	7	1.9	6	12	0.8
35	11	2	1.3		18	1.1	2	8	1.9	4	14	0.8
36	10	3	1.4	6	14	1.8	1	9	1.9	2	16	0.8
37	9	4	1.5	4	16	1.9	7	5	0.3		18	0.9
38	15		1.3	2	18	2.0	6	6	0.3	6	14	0.8
39	14	1	1.3		20	2.1	5	7	0.4	4	16	0.8
40	13	2	1.4	6	16	2.8	4	8	0.4	2	18	0.8
41	12	3	1.6	4	18	2.8	3	9	0.4		20	0.9
42	4	11	1.7	2	20	2.9	2	10	0.4	6	16	0.8
43	5	10	1.8		22	3.1	1	11	0.4	4	18	0.9
44	9	6	1.9	6	18	3.7		12	0.4	2	20	0.9
45	8	7	1.9	4	20	3.8	3	10	2.7		22	0.9
46	7	8	2.1	2	22	3.9	2	11	2.7	6	18	0.9
47	13	4	1.8		24	4.0	1	12	2.7	4	20	0.9
48	19		1.5	6	20	4.6	7	8	1.1	2	22	0.9

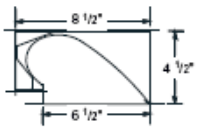
reference

TYPE: B3

Type
Job Name
Catalog Number

P5900 Wall Wash & Stack





ordering

series	lamp rows	nominal length	voltage	ceiling system	options
P5900					
	1T8 1T5 1T5HO 1BX39w (3' only) 1BX_w‡ ‡ biax, specify 40w, 50w or 55w	02' 03' 04' 06' 08' R__* *row length	120 277 347 UNV* *120-277	X1 exposed T-bar X3B hard ceiling	EML‡ EMH‡ DM RSE† 10THD† B__ FH INTCW ‡consult factory for fixture lengths < 4' †T8 & biax only

Applications Retail displays, art galleries, corridors.

Features A recessed luminaire perfect for displaying art, merchandise or highlighting vertical surfaces. The specular reflector gives punch to the wall while concealing the lamp source.

Construction The housing, available in 2-, 3-, 4-, 6-, or 8 foot standard lengths, and flange trim are made of die-formed, 20-gauge steel.

Finish The standard housing and trim color is gloss white (YGW) using polyester powder paint.

Electrical T8 and biax fixtures have instant-start electronic ballasts with less than 20% THD. T5/T5HO fixtures have programmed-start electronic ballasts with less than 10% THD. Fixtures are U.L. Damp labeled and I.B.E.W. manufactured. Maximum ballast size available: 2.4" width x 1.5" height.

Mounting Fixture is recess-mounted in either exposed T-bar or hard ceiling application(s).

Options **EML**: emergency battery (600-700 lumens); **EMH**: emergency battery (1100-1400 lumens); **DM**: dimming (specify manufacturer, voltage and other requirements); **RSE**: rapid-start electronic (T8 & biax only); **10THD**: ballast with < 10% total harmonic distortion (T8 & biax only); **B_**: specific ballasts, specify manufacturer and catalog number (consult factory); **FH**: fixture fusing (slow blow); **INTCW**: integrates with Sense™ System as whiteboard luminaire.

Prudential reserves the right to change design specifications or materials without notice.

0401 **Prudential Ltg.** 1737 East 22nd Street, Los Angeles, CA 90058 1/12

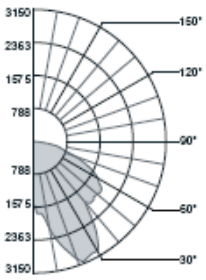
TYPE: B3

Wall Wash & Stack **P5900**

photometric data

P-5900-1BX50W-04

Report # LSI6359 D-100.0% I-0.0%
Lamp Lumens: 5000 Input Watts: 58



Candlepower Summary

Vertical Angle	0°	Horizontal Angle 22.5°	45°	67.5°	90°	Output Lumens
0	1543	1543	1543	1543	1543	
5	1484	1704	1727	1738	1743	84
10	1471	1711	1748	1911	2145	
15	1441	1688	2075	2413	2619	293
20	1395	1675	2408	2779	3020	
25	1324	1767	2663	3066	3079	557
30	1231	1925	2852	2989	3047	
35	1119	2024	2758	2860	2571	732
40	995	2064	2639	2298	1925	
45	872	2061	2232	1872	2011	734
50	738	1982	1635	1885	1990	
55	601	1759	1580	1896	1980	720
60	467	1517	1467	1746	1764	
65	332	1144	1346	1533	1451	599
70	226	804	1102	1175	1049	
75	136	655	733	755	681	343
80	70	445	429	531	421	
85	38	203	148	187	74	91
90	0	0	0	0	0	

Zonal Lumen Summary

Zone	% Lamp	% Luminaire
0-90	56.30	100.00
90-180	0.00	0.00

Efficiency - 56.4%

Luminance Summary (cd/m²)

Angle	0°	45°	90°
45	6925	17792	16036
55	5884	15530	19450
65	4411	17962	19355
75	2950	15932	14833
85	2448	9549	4780

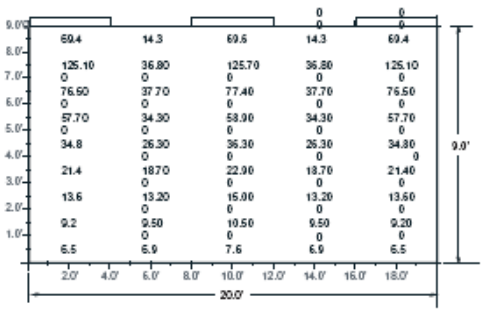
Coefficients of Utilization (%)

Floor	effective floor cavity reflectance - .20								
Ceiling	80			70			50		
Wall	70	50	30	10	70	50	30	10	50	30	10
RCR 0	67	67	67	67	66	66	66	66	63	63	63
1	61	59	56	54	60	58	55	53	55	53	52
2	56	51	48	44	55	50	47	44	48	45	43
3	51	45	41	37	50	44	40	37	43	39	36
4	47	40	35	32	46	39	35	31	38	34	31
5	43	36	31	27	42	35	30	27	34	30	26
6	39	32	27	23	38	31	26	23	30	26	23
7	36	28	23	20	35	28	23	20	27	22	19
8	33	25	21	17	32	25	20	17	24	20	17
9	31	23	18	15	30	23	18	15	22	18	15
10	28	21	16	13	28	21	16	13	20	16	13

wall wash application

20' x 9' wall wash layout

Fixture mounted 2' from wall
Average Illuminance/Vertical Grid (Wall Surface)

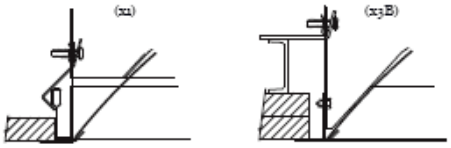


69.4	14.3	69.6	14.3	69.4
125.10	36.80	125.70	36.80	125.10
76.50	37.70	77.40	37.70	76.50
57.70	34.30	58.90	34.30	57.70
34.8	26.30	36.30	26.30	34.80
21.4	18.70	22.90	18.70	21.40
13.6	13.20	15.00	13.20	13.60
9.2	9.50	10.50	9.50	9.20
6.5	6.9	7.6	6.9	6.5

Individual Fixtures on 8' Centers – P-5900-1BX50W-04 Vertical Footcandles

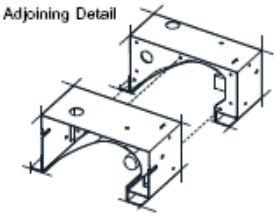
Average Illuminance maintained (LLF - .70)	Max FC	Max : Min	FC's 1' A.F.F.
35.7 FC	125.7	19.2 : 1	8.8

Ceiling Systems

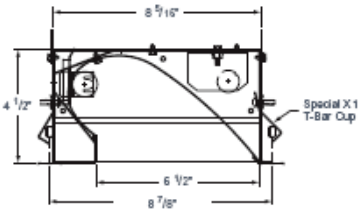


installation

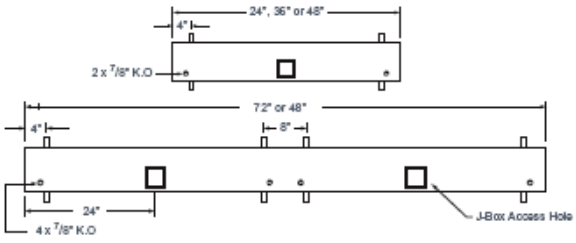
Adjoining Detail



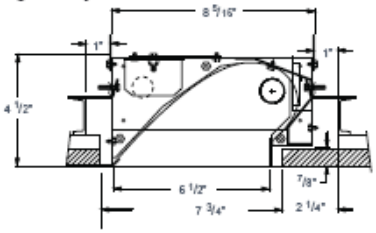
Ceiling Detail (xx) T-Bar



Mounting Locations



Ceiling Detail (x3B)



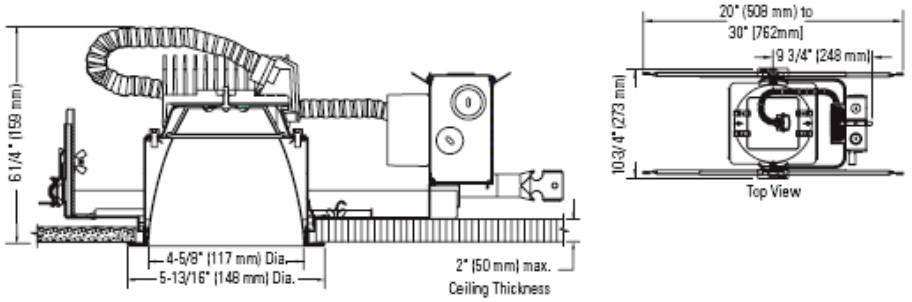
Prudential Ltg. tel 213.746.0360 fax 213.741.8590 prulite.com 0401

TYPE: C3

C4X4L05DL

Calculite LED 4 1/2" X 4 1/2" Square Downlight

Page 1 of 6



Ordering Guide: Light Engines

Light Engine Series	Style	Color Temperature	Reflector Finish	Flange	Options
C4X4L05	**DL** (Downlight)	**27K** (2700K) **30K** (3000K) **35K** (3500K) **40K** (4000K)	**CL** (Clear) **CCL** (Comfort Clear) **CCD** (Comfort Clear Diffuse) **CCZ** (Champagne Bronze) **WH** (Painted White)	**W** (Painted white) **P** (Aperture-matching/polished)	**EM** (Integral emergency test switch)
Example: C4L05DL35KCCLWEM					

Ordering Guide: Frame-in Kits

Frame-in Kit Series	Installation Options	Input Voltage	Options
C4X4L05	**N** (New construction)	**1** (120V) **2** (277V)‡	**Blank** (Electronic low voltage dimming) **EM** (Emergency) **Z10V** (0-10V dimming)
CUL05	**J** (J-box mount retrofit) **S** (Screw-in base retrofit (120V only))	**1** (120V) **2** (277V)‡	**Blank** (Electronic low voltage dimming) **Z10V** (0-10V dimming)
Example: C4L05N1EM			

‡277V dimming applications require Z10V option.

Job Information **Type:**

Job Name:

Cat. No.:

Notes:

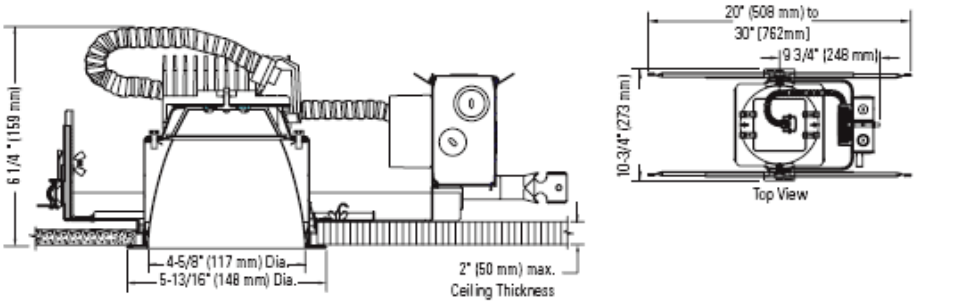
PHILIPS
LIGHTOLIER

TYPE: C3

C4X4L05DL

Calculite LED 4 1/2" X 4 1/2" Square Downlight

Page 2 of 6



Features

Aperture: 4 5/8" x 4 5/8" (117mm) I.D., 5 13/16" (148mm) O.D.
Input Wattage: 9W (+/- 5%)
Reflector Cone: Aluminum. Provides 50° cutoff to source & source image. Self-flanged.
Depth (including Frame-in kit): 5 3/4" (146mm)
Power Connection: Attaches to frame-in kit via push-in connector (on frame). Removable cover provides access.

Technology

LED Board: Array of high brightness royal blue LED's.
Remote Phosphor Technology: Remote phosphor technology provides increased efficiency and color consistency. Phosphor lens assembly positioned in front of LED array converts blue light to white. Color shift will not exceed +/- 100K over life.
Optical Mixing Chamber: Lightolier-specific mixing chamber redirects back-reflected light through aperture resulting in 20% increase in efficiency.
Thermal Management: Proprietary heat sink and thermal design along with clean room assembly ensures specified performance.

Features (continued)

Rated Life: Based on IESNA LM-80-2008 50,000 hours at 70% lumen maintenance.
Photometric Performance: Tested in accordance to IESNA LM-79-2008

Options

Dimming Capability: See LED-DIM specification sheet
Emergency Capability (Integral): Add "EM" suffix. See LED-EM spec sheet.
Emergency Capability (Inverter): See LED-LMI specification sheet

Labels

UL (suitable for wet locations), cUL, I.B.E.W.
5 Year Warranty

Job Information **Type:**

PHILIPS
LIGHTOLIER

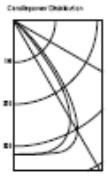
TYPE: C3

C4X4L05DL

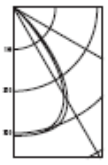
Calculite LED 4 1/2" X 4 1/2" Square Downlight

Page 3 of 6

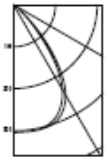
10W LED, 2700K, CL FINISH TRIM



10W LED, 2700K, CCL FINISH TRIM



10W LED, 2700K, CCD FINISH TRIM



Job Information Type:

PHILIPS LIGHTOLIER

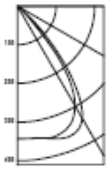
TYPE: C3

C4X4L05DL

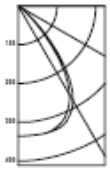
Calculite LED 4 1/2" X 4 1/2" Square Downlight

Page 4 of 6

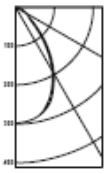
10W LED, 3000K, CL FINISH TRIM



10W LED, 3000K, CCD FINISH TRIM



10W LED, 3000K, WH FINISH TRIM



Job Information | Type:

PHILIPS

LIGHTOLIER

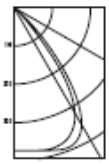
TYPE: C3

C4X4L05DL

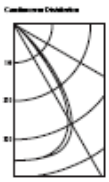
Calculite LED 4 1/2" X 4 1/2" Square Downlight

Page 5 of 6

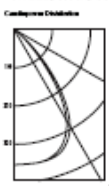
10W LED, 3500K, CL FINISH TRIM



10W LED, 3500K, CCL FINISH TRIM



10W LED, 3500K, CCD FINISH TRIM



Job Information Type:

PHILIPS

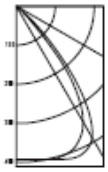
LIGHTOLIER

TYPE: C3

C4X4L05DL

Calculite LED 4 1/2" X 4 1/2" Square Downlight

10W LED, 4000K, CL FINISH TRIM



ANGLE	0DEG	45DEG	LUMENS
0	287	287	
5	288	288	37
10	291	291	
15	296	403	113
20	291	404	
25	273	404	170
30	234	375	
35	202	303	171
40	132	195	
45	58	92	53
50	4	24	
55	1	4	3
60	1	1	
65	1	0	0
70	0	0	
75	0	0	0
80	0	0	
85	0	0	0
90	0	0	

Output Lumens:	512 lm
Correlated Color Temp[1]:	4000K
Input Watts[2]:	8.7 w
Efficacy:	58.9 lm/w
CRI[3]:	76
Spacing Criterion:	1.2

CEILING	80%			70%		50%		30%		0%
WALL	70	50	30	50	30	50	30	50	30	0
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%									
0	119	119	119	115	115	111	111	106	106	100
1	113	113	108	109	104	106	103	100	97	93
2	107	102	97	103	98	97	93	94	89	85
3	101	94	89	98	93	90	86	88	83	78
4	95	87	81	93	88	84	79	83	78	72
5	90	81	74	88	83	78	73	78	73	66
6	85	75	68	84	78	73	68	74	68	61
7	80	70	63	80	74	69	63	70	64	57
8	75	65	58	76	69	64	59	66	60	53
9	71	61	54	72	65	60	55	62	56	49
10	67	57	50	68	61	56	51	58	52	46

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	%LUMINAIRE
0-90	512	100.0%
0-60	510	99.6%
0-50	512	99.9%
0-90	512	100.0%

Single Unit Data

Height to Lighted Plane	Initial Footcandles	Beam Diameter
5'	15	6 '
6'	11	7 '
7'	8	8 '
8'	6	10 '
9'	5	11 '

Multiple Unit Data - RCR 2

Spacing On Ctr.	Initial Footcandles	Watts/ Sq. Ft.
5'	26	0.34
6'	17	0.25
7'	12	0.18
8'	10	0.15
9'	8	0.12

30'x30'x10' Room, Workplane 2.5' above Floor, 80/50/20% Reflectances

CERTIFIED TEST REPORT NO. F08329[4]

[1]Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
[2]Wattage controlled to within ±5%.
[3]Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
[4]Color Rendering Index within +/- 2%.

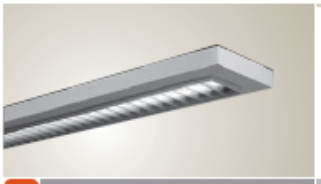
Philips Lighkolier
e: lol.webmaster@philips.com
c: (508) 679-8131
w: www.lighkolier.com

C4X4L05DL November 18, 2011

Job Information Type:

TYPE: A4/B4

PEERLESS®



Bruno

Indirect / Direct T8

Type:

Project:

SPECIFICATIONS Pendant Mount — Modular / 8" X 2" Rectangular BRM4

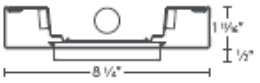
CATALOG NUMBER

FT

Examples: BRM4 2 32 SPR 40FT R8 277 GEB10 DCT LP835 FV/18 SCEP — BRM4 3 32 SPR 32FT R8 277 GEB10 1SE EL DCT LP835 FV/21

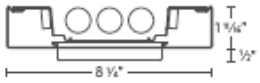
AVAILABLE FIXTURES

BRM4 - 1



BRM4 - 2

BRM4 - 3



SPECIFICATIONS

Construction
Housing is a nominal 8 1/4" x 1 5/16" rectangular channel formed from cold-rolled steel. 5/8" thick aluminum die cast end cap is standard, 4" sculpted die cast aluminum end cap is optional.

Reflectors
Die formed specular reflector with 95% reflectance.

Shielding
Two choices: 1) Aluminum semispecular parabolic louver. 2) Optional white painted aluminum parabolic baffle. Each available with optional acrylic opal overlay.

Finish
Fine textured white polyester powder paint is standard. Consult factory for special finish requirements.

Electrical
Specify 120V, 277V, or 347V. Pre-wired with 16AWG fixture wire. For special circuiting or wire gauge, consult factory. Plug-in electrical connectors included. UL and C-UL listed and labeled.

Fixture Length
4' 3/8", 8' and 12' lengths in a single section for nominal support spacing 4'-0" and 8'-0". For total fixture length, add 5/8" for each flat end cap and 4" for each sculpted end cap. Using internal joiners, 4' and 8' sections can be joined to form longer rows. Consult factory for availability of 12' length fixture section.

ORDERING LOGIC

Use guide below to order complete fixture runs from four feet to one-hundred feet in increments of four.

Fixture	# of Lamps in Cross Section	Lamp Type	Distribution	Reflector	Shielding	Baffle	Nominal Row Length[1] (FT)	Maximum Section Length	Voltage	Ballast Type	# of Emergency Modules[2]
BRM4	1 2 3	32	Blank Standard 65/35 20/80 20% Up, 80% Down 40/60 40% Up, 60% Down 0/100 0% Up, 100% Down CLI Center Lamp Isolator[3]	SPR[4] Specular Reflector	Blank OPD Baffle w/ std brightness diffuser/ Opal overlay	SSB Semi Specular WPB White Painted SSP Semi Specular Perforated Blade WPP White Painted Perforated Blade		B4 B8 R12	120 277 347	GEB10 <10% THD ELECTRONIC ADEZ[5] Advance Mark 10 dimming ECO10[6] Lutron ECO-10 dimming ADZT[5] Advance Mark 7 0-10v dimming Reference Ballast Chart on website or consult factory for other options.	Blank No Emergency 1SE 1 section 2SE 2 sections XSE X sections

Emergency Type[2,3]	Switching	Lamp Color	Mounting Type /	Overall Suspension	Finish	Options
Blank No Emergency or Night Light EL Emergency Battery Pack EC Emergency / Night Light Circuit EH Emergency Battery Pack with Night Light Circuit	SCT Single Circuit DCT Dual Circuit	L/LP No Lamp LP930 3000K 90+ CRI LP935 3500K 90+ CRI LP941 4100K 90+ CRI LP830 3000K 80+ CRI LP835 3500K 80+ CRI LP841 4100K 80+ CRI Reference Lamp Chart on website or consult factory for other options.	F1 T-Bar Ceiling (Universal Mounting Bracket) F1A T-Bar Ceiling (UMB with Integrated J-Box) F2 Hard Ceiling (Horizontal J-Box) F3 Stem Mount F4A IDS Clip 9/16" Tee F4B IDS Clip 15/16" Tee F4C IDS Clip Screw Slot	12 12" overall suspension 15 15" overall suspension 18 18" overall suspension 21 21" overall suspension 24 24" overall suspension XX XX" overall suspension	C210 Standard White (fine-textured low gloss) C110 Painted to match Aluminum Finish C099 Custom Color	ACG Adjustable Cable Grippers APF Alternate Power Feed CP Chicago Plenum DL Damp Location Label DU Dust Cover ELH EM Through wire w/ Separate Feed ELS EM Through Wire w/ Single Feed GLR Fusing (Fast blow) GMF Fusing (Slow Blow) NYC New York City Code SCEP Sculptured End Cap

Notes:
1 Must be in 4' increments.
2 Optional.
3 EL and EC are installed in last 4' of fixture sections and are not available concurrently with each other. Separate feed required for each EL or EC unless ELS/ELH is specified.
4 Available with standard distribution only.
5 Available with 3 lamp cross section only.
6 Not available in 347 volt.

PEERLESS LIGHTING • 2246 5th St., Berkeley, CA 94710 • Tel: 510.845.2760 • Fax: 510.845.2776 • www.peerless-lighting.com
An AcuityBrands Company

TYPE: A4/B4

PEERLESS®

Bruno

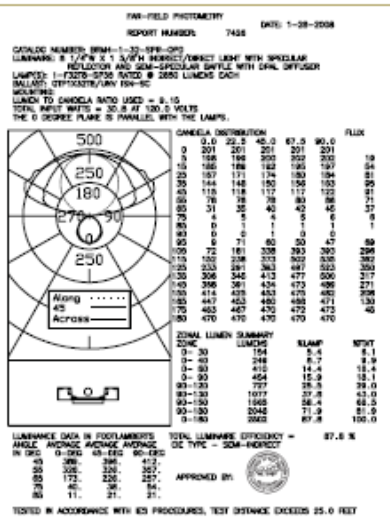
Indirect / Direct T8

Type:

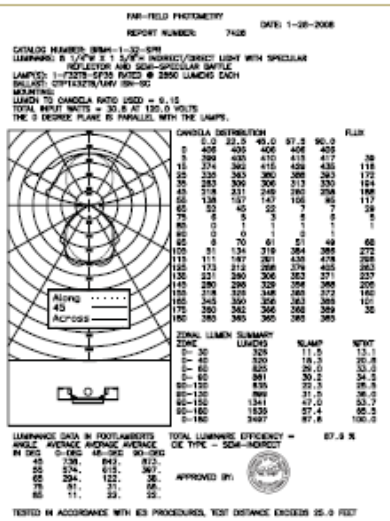
Project:

PHOTOMETRICS | Pendant Mount — Modular / 8" X 2" Rectangular | BRM4

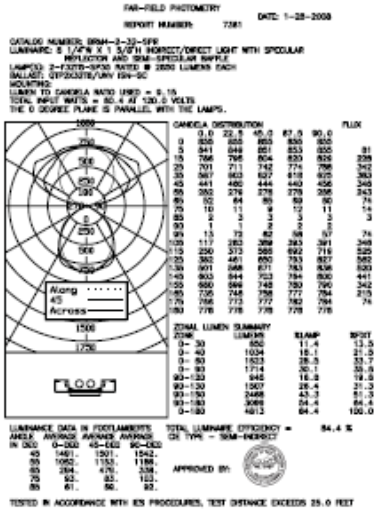
1-LAMP T8 WITH SPECULAR REFLECTOR AND OPD



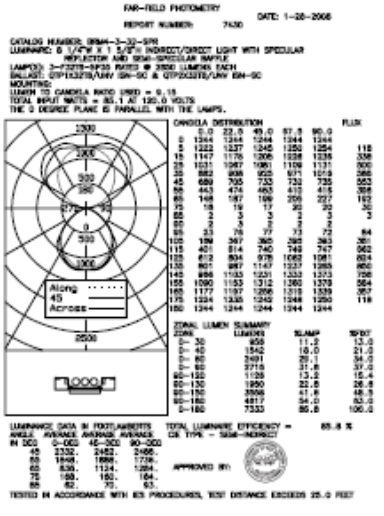
1-LAMP T8 WITH SPECULAR REFLECTOR



2-LAMP T8 WITH SPECULAR REFLECTOR



3-LAMP T8 WITH SPECULAR REFLECTOR



PEERLESS LIGHTING • Box 2556, Berkeley, CA 94702-0556 • Tel: 510.845.2760 • Fax: 510.845.2776 • www.peerless-lighting.com An AcuityBrands Company

TYPE: A4/B4

PEERLESS®

Bruno

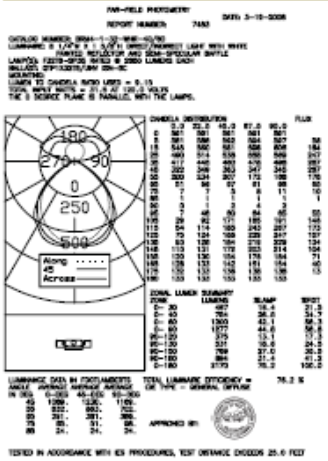
Indirect / Direct T8 — 40/60 VDR

Type:

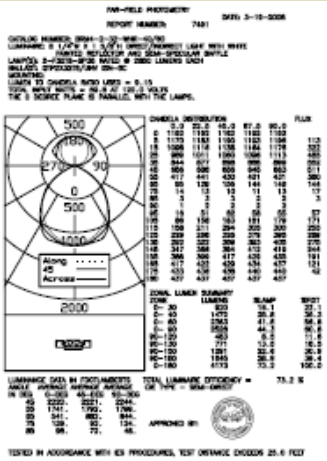
Project:

PHOTOMETRICS | Pendant Mount — Modular / 8" X 2" Rectangular | BRM4

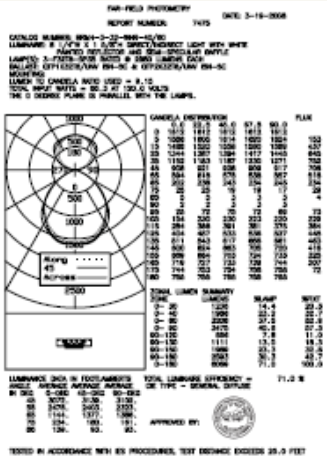
1-LAMP T8 WITH WHITE REFLECTOR



2-LAMP T8 WITH WHITE REFLECTOR



3-LAMP T8 WITH WHITE REFLECTOR



PEERLESS LIGHTING • Box 2556, Berkeley, CA 94702-0556 • Tel: 510.845.2760 • Fax: 510.845.2776 • www.peerless-lighting.com

An AcuityBrands Company

TYPE: C4

groove™ d

FOCAL POINT

features

Pendant mount decorative luminaire available with compact fluorescent or incandescent lamps

Housing, reflector and canopy are spun with high quality aluminum.

Ideally suited for retail, hospitality, lobbies, corridors, open ceiling areas and other specialty applications.

details

decorative grooves

stepped canopy & single point suspension

options

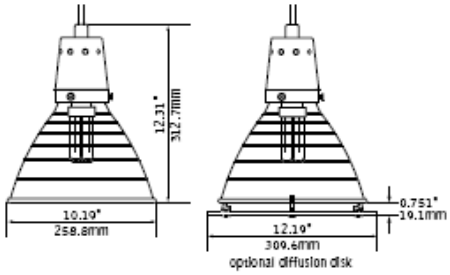
frosted green diffusion disk

frosted white diffusion disk

companion luminaire

sconce

dimensional data



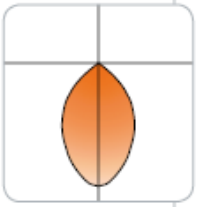
lamping options

18W & 26W TRIPLE TUBE

A15, A19 & A21 LAMPS

performance

1-Lamp 26W Triple Tube
67% Efficiency
883 cd @ 0°

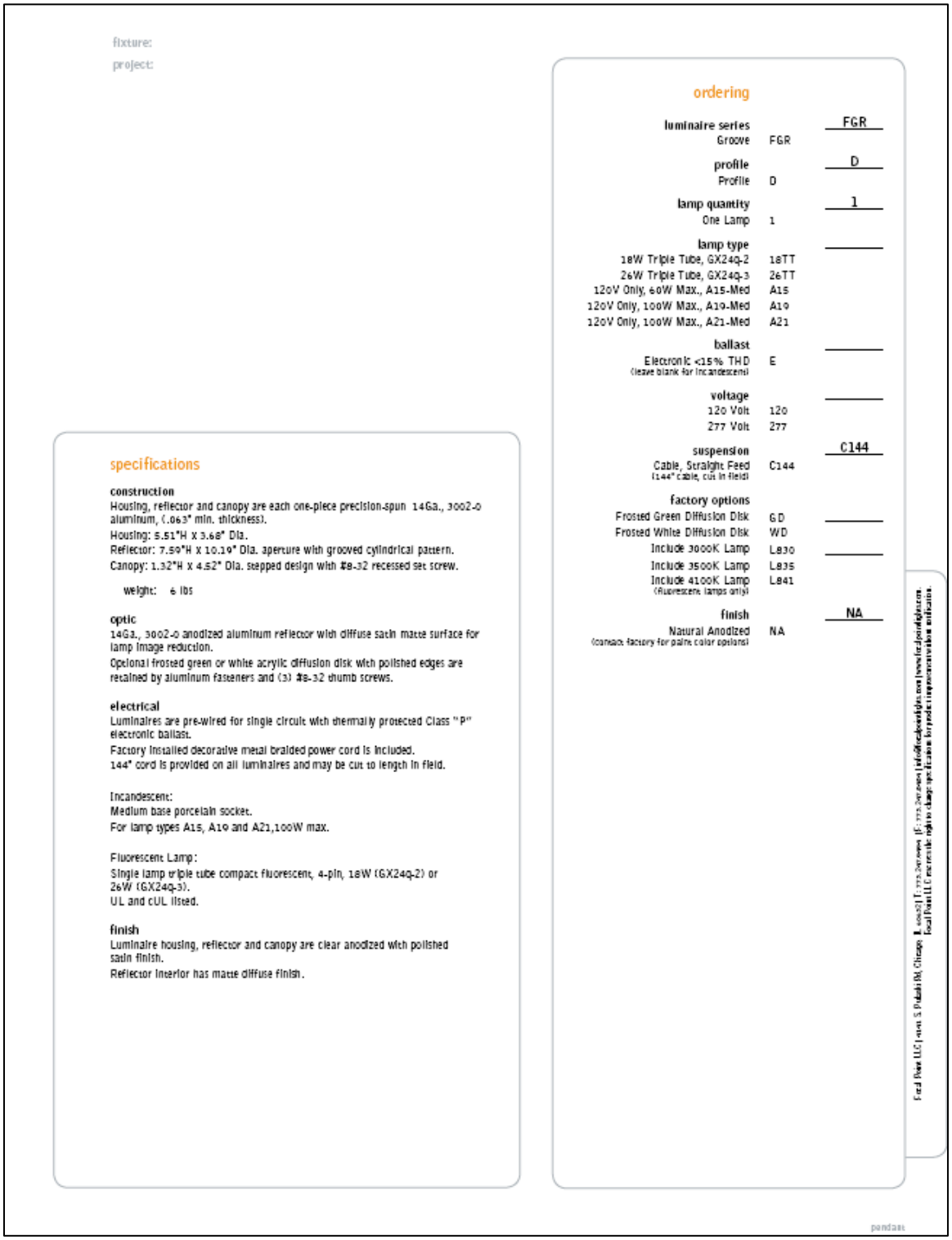


Visit focalpointlights.com for complete photometric data.

april 2011 8

www.focalpointlights.com | 1.773.247.9494

TYPE: C4



fixture:

project:

specifications

construction
Housing, reflector and canopy are each one-piece precision-spun 14Ga., 3002-0 aluminum, (.063" min. thickness).
Housing: 5.51"H x 3.68" Dia.
Reflector: 7.59"H x 10.19" Dia. aperture with grooved cylindrical pattern.
Canopy: 1.32"H x 4.52" Dia. stepped design with #8-32 recessed set screw.

weight: 6 lbs

optic
14Ga., 3002-0 anodized aluminum reflector with diffuse satin matte surface for lamp image reduction.
Optional frosted green or white acrylic diffusion disk with polished edges are retained by aluminum fasteners and (3) #8-32 thumb screws.

electrical
Luminaires are pre-wired for single circuit with thermally protected Class "P" electronic ballast.
Factory installed decorative metal braided power cord is included.
144" cord is provided on all luminaires and may be cut to length in field.

Incandescent:
Medium base porcelain socket.
For lamp types A15, A19 and A21,100W max.

Fluorescent Lamp:
Single lamp triple tube compact fluorescent, 4-pin, 18W (GX24q-2) or 26W (GX24q-3).
UL and cUL listed.

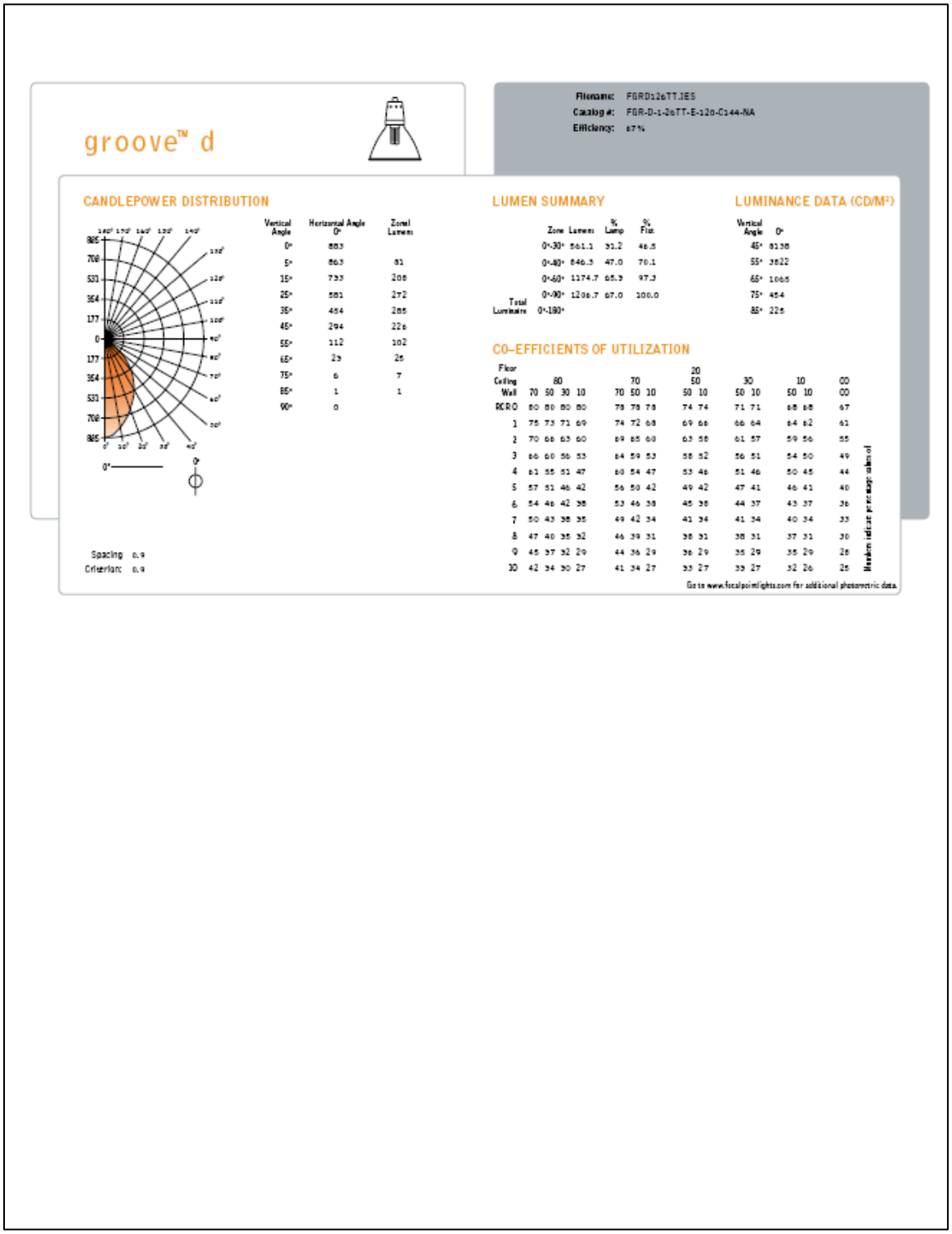
finish
Luminaire housing, reflector and canopy are clear anodized with polished satin finish.
Reflector interior has matte diffuse finish.

ordering

luminaire series		FGR
Groove	FGR	
profile		D
Profile	D	
lamp quantity		1
One Lamp	1	
lamp type		
18W Triple Tube, GX24q-2	18TT	
26W Triple Tube, GX24q-3	26TT	
120V Only, 60W Max., A15-Med	A15	
120V Only, 100W Max., A19-Med	A19	
120V Only, 100W Max., A21-Med	A21	
ballast		
Electronic <15% THD (leave blank for incandescent)	E	
voltage		
120 Volt	120	
277 Volt	277	
suspension		C144
Cable, Straight Feed (144" cable, cut in field)	C144	
factory options		
Frosted Green Diffusion Disk	GD	
Frosted White Diffusion Disk	WD	
Include 3000K Lamp	L830	
Include 3500K Lamp	L835	
Include 4100K Lamp (Fluorescent lamps only)	L841	
finish		NA
Natural Anodized (contact factory for paint color options)	NA	

pendant

TYPE: C4



groove™ d

Filename: FGRD12sTT.IES
Catalog #: FGR-D-1-2sTT-E-12o-C144-NA
Efficiency: 67%

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle 0°	Zonal Lumens
0°	883	
5°	863	81
15°	733	208
25°	581	272
35°	454	285
45°	294	226
55°	112	102
65°	29	25
75°	6	7
85°	1	1
90°	0	

Spacing 0.9
Criterion 0.9

LUMEN SUMMARY

	Zone	Lumens	% Lamp	% Fixt
	0°-30°	561.1	31.2	46.5
	0°-40°	846.3	47.0	70.1
	0°-60°	1174.7	65.3	97.3
	0°-90°	1206.7	67.0	100.0
Total Luminaire	0°-180°			

LUMINANCE DATA (CD/M²)

Vertical Angle	0°
45°	8138
55°	3822
65°	1065
75°	454
85°	225

CO-EFFICIENTS OF UTILIZATION

Floor		80				70			20 50	30	10	00
Ceiling												
Wall	70	50	30	10	70	50	10	50	10	50	10	00
RCRO	80	80	80	80	78	78	78	74	74	71	71	68	68	67
1	75	73	71	69	74	72	68	69	66	66	64	64	62	61
2	70	66	63	60	69	65	60	63	58	61	57	59	56	55
3	66	60	56	53	64	59	53	58	52	56	51	54	50	49
4	61	55	51	47	60	54	47	53	46	51	46	50	45	44
5	57	51	46	42	56	50	42	49	42	47	41	46	41	40
6	54	46	42	38	53	46	38	45	38	44	37	43	37	36
7	50	43	38	35	49	42	34	41	34	41	34	40	34	33
8	47	40	35	32	46	39	31	38	31	38	31	37	31	30
9	45	37	32	29	44	36	29	36	29	36	29	35	29	28
10	42	34	30	27	41	34	27	33	27	33	27	32	26	25

Numbers indicate percentage coefficient

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

Appendix B: electrical cut sheets

PANELBOARD

3.3 Panelboards and Lighting Control

Pow-R-Line C Panelboards

3

Type PRL5P

Contents

Product Overview

The PRL5P panelboard incorporates Eaton's plug-on power panelboard experience with modern manufacturing technology to provide the most flexible plug-on design in the industry.

Designed to eliminate the multitude of parts associated with other similar products, the PRL5P panelboard is the choice for applications where additions and changes must be fast and convenient.

Panelboard Installation

Plug-On Mains and Branches provide the flexibility to move devices on factory-assembled panels after the boards are received at the job site. The electrician may move branch devices and place them into a configuration that fits the particular wiring needs of that installation.

Breakers are mounted to an adapter that includes the bus connection hardware. The breaker to bus bar connection is positive and secure. This proven connection has been utilized by Eaton in plug-on power panelboards since 1984.

Two Enclosure Widths Provide Greater Flexibility

30-Inch (762.0 mm) Wide. The narrowest enclosure in the industry for an 800A main, breaker or lug, and up to 600A branch breakers—while providing ample wiring bending space. An industry exclusive is the ability to mount two 225A, 480 Vac breakers on the same adapter unit. It requires half the space necessitated by other products.

Type PRL5P—30-Inch (762.0 mm) Wide

48-Inch (1219.2 mm) Wide. Provides for mains up to 1200A. The 1200A lug adapter unit accepts up to 750 kcmil conductors. Two 600A breakers can be mounted across from one another. Another exclusive allows breakers of different sizes to be mounted across from one another, providing the ability to maximize space within the panel. There are no restrictions or predetermined spaces where branch devices must be placed.

Type PRL5P—48-Inch (1219.2 mm) Wide

PANELBOARD

Circuit Breaker and Lug Adapter Units

Breaker adapter units utilize molded case circuit breakers that provide increased performance in considerably less space than standard breakers. They're available from 15–1200A at 600 Vac maximum. A wide range of integrally mounted breaker accessories are available.

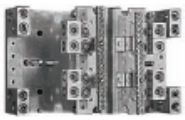
Main and through-feed lug adapter units are available and are mounted similar to the breakers. Lug units are available up to 1200A.

Breaker and lug attachment units can withstand fault currents up to 200 kA rms symmetrical.

600A L-Frame Breaker

1200A Main Lug Unit

400A K-Frame Breaker



An Oversized Area is Provided for Neutral Connections with Ample Lugs for Ease of Installation

Dual-Mounted 225A F-Frame Breakers

PANELBOARD

3.3 Panelboards and Lighting Control

Pow-R-Line C Panelboards

3

Type PRL5P

Contents

Type PRL5P

Product Description

- 600 Vac maximum (250 Vdc)
- Three-phase four-wire, three-phase three-wire, single-phase three-wire
- 1200A maximum mains
- 1200A maximum branch devices
- Plug-on branch devices
- Factory assembled
- Refer to **Pages V2-T3-7** and **V2-T3-78** for additional information

Application Description

- Power distribution panelboard
- Fully rated or series rated
- Interrupting ratings up to 200 kA symmetrical
- Suitable for use as Service Entrance Equipment, when specified on the order
- See **Pages V2-T3-7** through **V2-T3-23** for additional information

Standards and Certifications

- UL 67, UL 50
- Federal Specification W-P-115c
- Refer to **Page V2-T3-7** for additional information

UL Listed

PANELBOARD

Product Selection

Panelboard Selection and Layout

Select either single-row or double-row bus chassis. Single-row bus chassis—maximum 800 ampere main breaker or main lug only. Select main device and "X" space from table below. Select branch devices and corresponding "X" space from the following tables.

Refer to layout data from the following tables. Make a layout sketch of the main and branch devices utilizing either a single-row or double-row bus chassis indicating the "X" space for each device. The maximum total "X" space cannot exceed 40X for any panelboard. Should more than 40X be required, add the appropriate through-feed lug adapter or breaker to feed an additional panelboard.

Type PRL5P

PRL5P ①

Main Ampere Rating	Interrupting Rating (kA Symmetrical) 240 Vac	480 Vac	600 Vac	250 Vdc	Main Device Type	Main "X" Space
Main Lug Only Single-Row Bus						
400	—	—	—	—	Lug	8X
600	—	—	—	—	Lug	8X
800	—	—	—	—	Lug	8X
Main Lug Only Double-Row Bus						
800	—	—	—	—	Lug	7X
1200	—	—	—	—	Lug	7X
Main Breaker Single-Row Bus						
400	65	—	—	10	DK	4X
400	65	35	25	10	KD	4X
400	100	65	35	22	HKD	4X
400	200	100	65	22	KDC	4X
600	35	35	25	22	LD	6X
600	100	65	35	25	HL	6X
600	200	100	35	25	LDC	6X
800	65	50	25	22	MDL	6X
800	100	65	35	25	HMDL	6X
Main Breaker Double-Row Bus						
800	65	50	25	22	MDL	6X
800	100	65	35	25	HMDL	6X
1200	65	50	25	—	ND	6X
1200	100	65	35	—	HND	6X
1200	200	100	65	—	NDC	6X

Branch Devices—Single-Pole Breakers in Single Adapter Units—PRL5P

Ampere Rating	Interrupting Rating (kA Symmetrical) 120 Vac	240 Vac	277 Vac	125 Vdc	Breaker Type	"X" Type
15–60	14	—	14	10	EHD	2X, 3X
15–60	35	—	35	10	FD	2X, 3X
15–60	65	—	65	10	HFD	2X, 3X

Note

① Includes aluminum bus chassis, box, trim, main and neutral (if required).

12.2 Molded Case Circuit Breakers

Series G Ground Fault (Earth Leakage) and Current Limiting Circuit Breaker Modules

30 mA Ground Fault (Earth Leakage) Modules

Clockwise from Left: JG, LG, EG MCCBs Shown with Ground Fault (Earth Leakage) Module

Contents

12

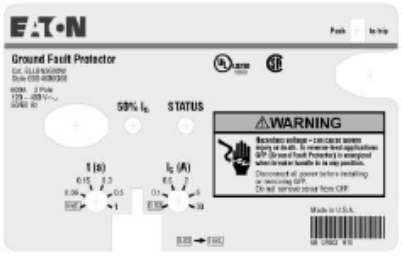
30 mA Ground Fault (Earth Leakage) Modules

Product Description

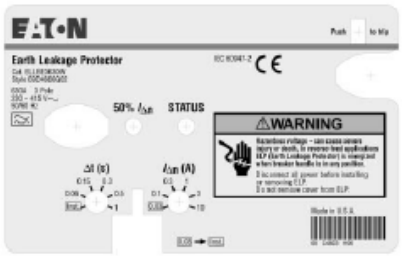
Eaton offers a three- and four-pole 30 mA ground fault (earth leakage) protection module for Series G E-, J- and L-Frame breakers. The module does not restrict the use of other breaker accessories. UL®-listed modules are available for E, J and L molded case circuit breakers (MCCBs). The modules are bottom mounted for circuits up to 125A (E-Frame) 160 and 250 amperes (J-Frame), or 400 and 630 amperes for the L-Frame.

The module is completely self-contained because the current sensor, relay and power supply are located inside the product. Current pickup settings are selectable from 0.03–10 amperes for all IEC-rated modules and E and J UL-listed module, and 0.03–30 amperes for the L UL-listed modules. Time delays are also selectable from Instantaneous–1.0 seconds for 0.10 ampere settings and above. A current pickup setting of 0.03 amperes defaults to an Instantaneous time setting regardless of the time dial's position. Two alarm contacts come as standard: a 50% pretrip and a 100% after trip, both based only on earth leakage current levels.

UL-Rated LG-Frame Earth Leakage Module Faceplate



IEC-Rated LG-Frame Earth Leakage Module Faceplate



BREAKERS

Molded Case Circuit Breakers 12.2

Series G Ground Fault (Earth Leakage) and Current Limiting Circuit Breaker Modules

Product Selection

EG-Frame

EG-Frame Ground Fault Modules, UL-Rated (Bottom Mounted, 120–480 Vac, 50/60 Hz)

Amperes	Number of Poles	Catalog Number
125	3	ELEBN3125G
125	4	ELEBN4125G

EG-Frame Earth Leakage Modules, IEC-Rated (Bottom Mounted, 230–415 Vac, 50/60 Hz)

Amperes	Number of Poles	Catalog Number
125	3	ELEBE3125G
125	4	ELEBE4125G

JG-Frame

JG-Frame Ground Fault Modules, UL-Rated (Bottom Mounted, 120–480 Vac, 50/60 Hz)

Amperes	Number of Poles	Catalog Number
150	3	ELJBN3150W
150	4	ELJBN4150W
250	3	ELJBN3250W
250	4	ELJBN4250W

JG-Frame Earth Leakage Modules, IEC-Rated (Bottom Mounted, 230–415 Vac, 50/60 Hz)

Amperes	Number of Poles	Catalog Number
160	3	ELJBE3160W
160	4	ELJBE4160W
250	3	ELJBE3250W
250	4	ELJBE4250W

LG-Frame

LG-Frame Ground Fault Modules, UL-Rated (Bottom Mounted, 120–480 Vac, 50/60 Hz)

Amperes	Number of Poles	Catalog Number
400	3	ELLBN3400W
400	4	ELLBN4400W
600	3	ELLBN3600W
600	4	ELLBN4600W

LG-Frame Earth Leakage Modules, IEC-Rated (Bottom Mounted, 230–415 Vac, 50/60 Hz)

Amperes	Number of Poles	Catalog Number
400	3	ELLBE3400W
400	4	ELLBE4400W
630	3	ELLBE3630W
630	4	ELLBE4630W

12

Ground Fault and Current Limiting Circuit Breaker Modules CA01200003E—May 2010 www.eaton.com 3

12.2 Molded Case Circuit Breakers

Series G Ground Fault (Earth Leakage) and Current Limiting Circuit Breaker Modules

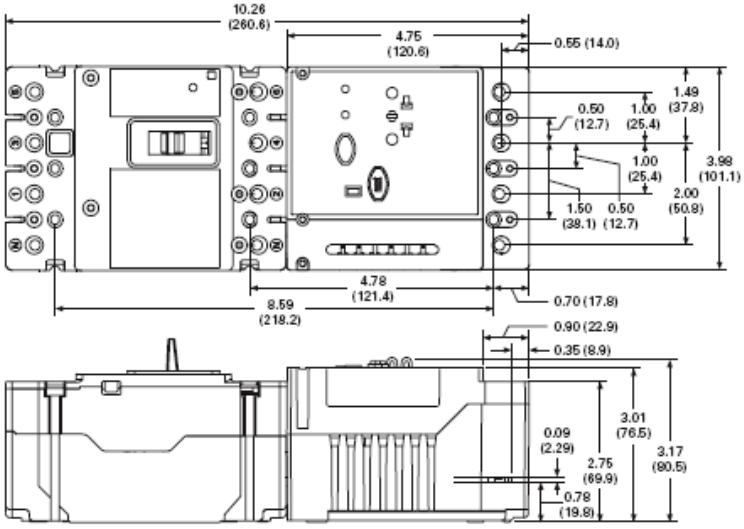
Dimensions

Approximate Dimensions in Inches (mm)

Assembled Breaker and Earth Leakage Module

Frame	Height	Width	Depth
Three-Pole			
EG	10.25 (260.3)	3.00 (76.2)	2.98 (75.8)
JG	11.25 (285.8)	4.13 (104.9)	3.57 (90.7)
LG	15.38 (390.7)	5.49 (139.2)	4.06 (103.1)
Four-Pole			
EG	10.25 (260.3)	4.00 (101.6)	2.98 (75.8)
JG	11.25 (285.8)	5.50 (139.7)	3.57 (90.7)
LG	15.38 (390.7)	7.23 (183.6)	4.06 (103.1)

EG-Frame With Earth Leakage Module



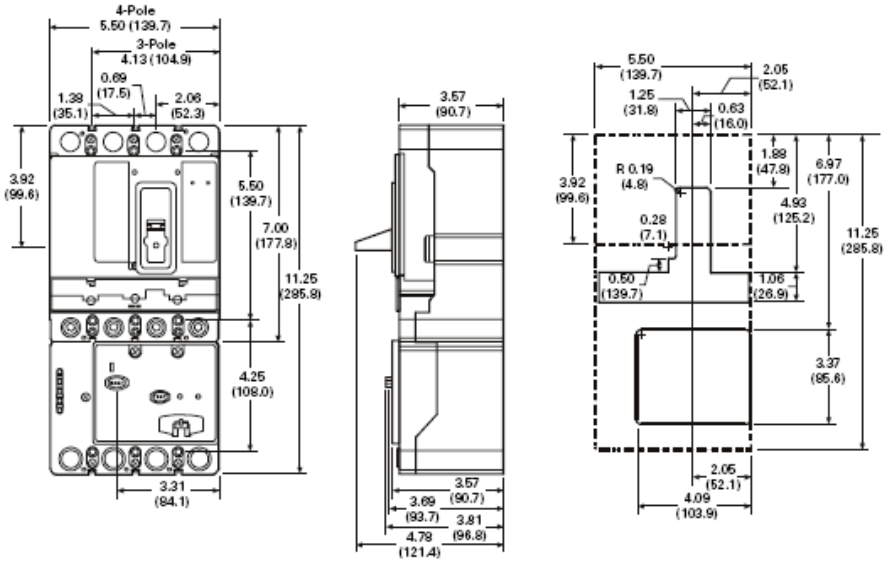
12

BREAKERS

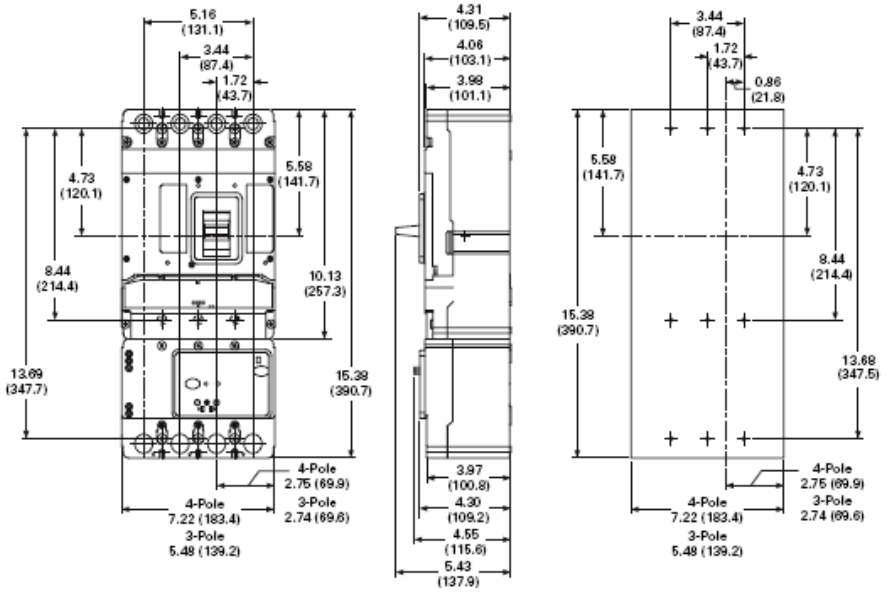
Molded Case Circuit Breakers 12.2

Series G Ground Fault (Earth Leakage) and Current Limiting Circuit Breaker Modules

JG-Frame With Earth Leakage Module



LG-Frame With Earth Leakage Module



12

Appendix C: control schedule and cut sheets

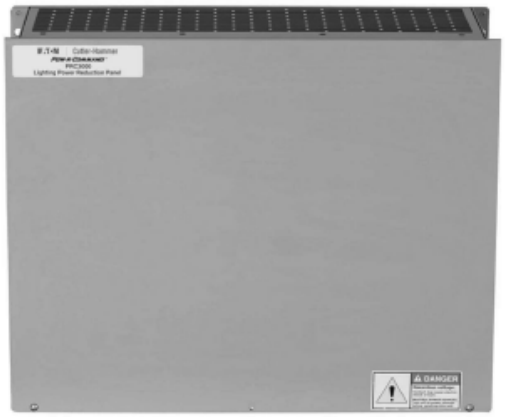
CONTROL PANEL

EATON | Cutler-Hammer

Pow-R-Command™ 3000 Lighting Power Reduction Panel Specifications and Capacities

Technical Data TD01412053E

Effective November 2008



Introduction

The Pow-R-Command 3000 Lighting Power Reduction Panel is an energy-saving device for use with new or existing fluorescent lighting systems. By conditioning the incoming power wave, it reduces electrical consumption with negligible foot-candle loss at savings up to 15%.

For safety, the Pow-R-Command 3000 Lighting Power Reduction Panel is UL® and cUL® listed.

The Pow-R-Command 3000 Lighting Power Reduction Panel drops consumption, maintains light levels and offers a great ROI.

The Pow-R-Command 3000 Lighting Power Reduction Panel must be installed by licensed electrical personnel meeting all appropriate state electrical codes.

Product Specifications

TABLE 1. VOLTAGES AND CAPACITIES

MODEL NUMBER	CAPACITY	VOLTAGE
PRC3000-60-120	60 Amps, 3-Phase	120 / 208
PRC3000-60-277	60 Amps, 3-Phase	277 / 480
PRC3000-100-120	100 Amps, 3-Phase	120 / 208
PRC3000-100-277	100 Amps, 3-Phase	277 / 480
PRC3000-200-120	200 Amps, 3-Phase	120 / 208
PRC3000-200-277	200 Amps, 3-Phase	277 / 480

TABLE 2. DIMENSIONS

MODEL NUMBER	DIMENSIONS (W X H X D) — INCHES (MM)	WEIGHT — LBS (KG)
PRC3000-60-120	11.00 x 16.75 x 12.00 (279.4 x 425.5 x 304.8)	52 (24)
PRC3000-60-277	11.00 x 16.75 x 12.00 (279.4 x 425.5 x 304.8)	52 (24)
PRC3000-100-120	27.00 x 19.00 x 9.00 (685.8 x 482.6 x 228.6)	85 (39)
PRC3000-100-277	27.00 x 19.00 x 9.00 (685.8 x 482.6 x 228.6)	85 (39)
PRC3000-200-120	27.00 x 21.00 x 12.75 (685.8 x 533.4 x 323.9)	148 (67)
PRC3000-200-277	27.00 x 21.00 x 12.75 (685.8 x 533.4 x 323.9)	148 (67)

CONTROL PANEL

Installation: Installation is accomplished by "splicing" the Pow-R-Command 3000 Lighting Power Reduction Panel in between the supply feeder and the lighting panel. The Pow-R-Command 3000 Lighting Power Reduction Panel conditions the power for all of the lights controlled by the lighting panel. Suitable for three-phase or single-phase systems.

Ballast Requirements: The Pow-R-Command 3000 Lighting Power Reduction Panel works with either T8 or T12 ballasts. Testing shows that the greatest savings with the least lumen loss are achieved when the Pow-R-Command 3000 Lighting Power Reduction Panel is used with single voltage T8 ballasts.

TABLE 3. MAXIMUM NUMBER OF FIXTURES PER POW-R-COMMAND 3000 LIGHTING POWER REDUCTION PANEL

MODEL	NUMBER OF FIXTURES (2 X 32W LAMPS)	NUMBER OF FIXTURES (4 X 32W LAMPS)	NUMBER OF FIXTURES (6 X 32W LAMPS)
PRC3000-60-120	300	150	100
PRC3000-60-277	690	345	220
PRC3000-100-120	500	250	165
PRC3000-100-277	1150	575	380
PRC3000-200-120	1000	500	330
PRC3000-200-277	2300	1150	765

Bypass: The Pow-R-Command 3000 Lighting Power Reduction Panel is equipped with an electronic bypass. It is accessible only after removing the outer cover. The cover and panel are equipped with holes for a security seal. This satisfies utility requirements for energy-saving devices by preventing use of the bypass except in the event of an equipment failure.

Enclosure: Gray powder coated, galvanized steel. Rated as NEMA® 1.

UL/cUL Listing: The Pow-R-Command 3000 Lighting Power Reduction Panel is UL and cUL listed, File Number E306255.

Generator Compatibility: The Pow-R-Command 3000 Lighting Power Reduction Panel is compatible with generators. The Pow-R-Command 3000 Lighting Power Reduction Panel adjusts to any sine wave shift caused by the transition from grid to generator or generator to grid.

Computer Connection: The Pow-R-Command 3000 Lighting Power Reduction Panel connects to any PC or laptop via a serial cable via an external RJ-45 jack located on the upper right side of the enclosure.

Control Software: The Pow-R-Command 3000 Lighting Power Reduction Panel is controlled with the Pow-R-Command 3000 software provided. This software is compatible with the Windows® family of operating systems. This software controls each phase independently and allows the user to program lighting changes as timed events and/or turn all lights associated with each of the phases on and off.

Eaton Corporation
Electrical Group
1000 Cherrington Parkway
Moon Township, PA 15108
United States
877-ETN-CARE (877-386-2273)
Eaton.com

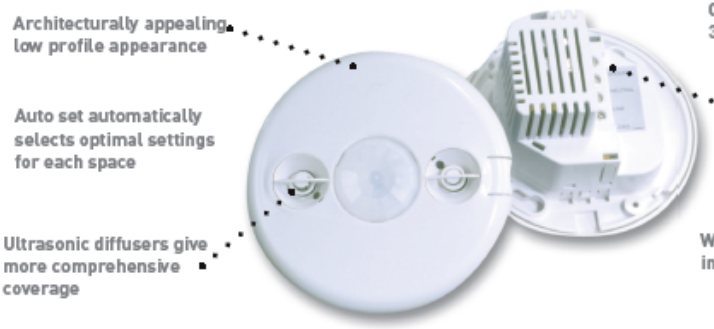
PowerChain Management®

EATON | Cutler-Hammer

OCCUPANCY SENSOR

COMMERCIAL OCCUPANCY SENSORS & CONTROLS

DT-355 Dual Technology Line Voltage Ceiling Sensor



PROJECT

LOCATION/TYPE

Product Overview

Description

WattStopper's low profile DT-355 dual technology occupancy sensor combines the benefits of passive infrared (PIR) and ultrasonic technologies. The sensor mounts on the ceiling with a flat, unobtrusive appearance and provides 360 degrees of coverage.

Operation

The DT-355 is line voltage and operates at 120, 277 or 347 VAC. The sensor turns lighting on when both PIR and ultrasonic technologies detect occupancy. PIR technology senses the difference between infrared energy from a human body in motion and the background space. Ultrasonic technology uses high frequency (40KHz) ultrasound to sense motion within the space. Once lighting is on, detection by either technology holds lighting on. When no occupancy is detected for the length of the time delay, lighting turns off. The DT-355 can also be set so that only one technology is needed to trigger or both technologies are needed to hold lighting on.

Auto Set

The DT-355 requires no adjustment at installation. Auto set continuously monitors the controlled space to identify usage patterns. Using this information, it automatically adjusts the time delay and sensitivity settings for optimal performance and energy efficiency. The sensor assigns short delays (as low as 5 minutes) for times when the space is usually vacant, and longer delays (up to 30 minutes) for busier times.

Application

WattStopper's patented dual technology has the flexibility to work in a variety of applications, where one technology alone could encounter false triggers. Ideal applications include classrooms, open office spaces, large offices, and computer rooms. In addition, because the DT-355 can be mounted onto a variety of junction boxes, the sensor has the flexibility to be used in a wide range of spaces. The sensors eliminate the need for a power pack by using line voltage wiring.

Features

- Advanced control logic based on RISC microcontroller provides:
  - Detection Signature Processing eliminates false triggers and provides immunity to RFI and EMI
  - Walk-through mode turns lights off 3 minutes after the area is initially occupied – ideal for brief visits such as mail delivery
  - Built-in light level sensor featuring simple, one-step setup
- Ultrasonic diffusion technology spreads coverage to a wider area (patent pending)
- DIP switch simplifies sensor adjustments
- LEDs indicate occupancy detection
- Uses existing line voltage wiring and doesn't require a power pack
- Six occupancy logic options give users the ability to customize control to meet application needs
- Qualifies for ARRA-funded public works projects

WattStopper
www.wattstopper.com
800.879.8585

OCCUPANCY SENSOR

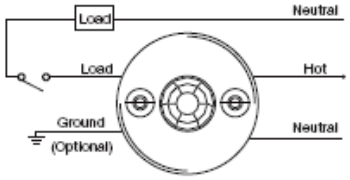
COMMERCIAL OCCUPANCY SENSORS & CONTROLS

Specifications

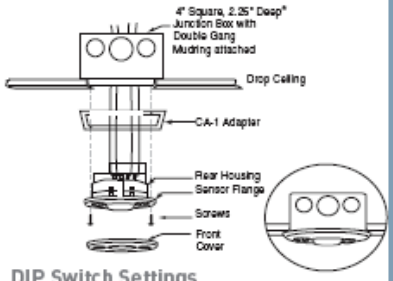
- 120/277/347 VAC, 50/60 Hz
- Ultrasonic frequency of 40kHz
- Time delays: Auto set, fixed (5, 10, 15, 20, or 30 minutes), walk-through, test-mode
- Sensitivity adjustment: Auto set or reduced sensitivity (for PIR sensitivity); ultrasonic sensitivity is variable with trimpot
- Built-in light level sensor – works from 10 to 300 footcandles (107.6 to 3,229.2 lux)
- Multi-level, 360° Fresnel lens for superior occupancy detection
- Mounting options: 4 square junction box with double gang mudring; 4 inch octagonal junction box
- Dimensions: 4.50" diameter x 1.45" deep (114.3mm x 25.9mm)
- UL and cUL listed
- Five year warranty

Wiring & Mounting

DT-355 Wiring Diagram

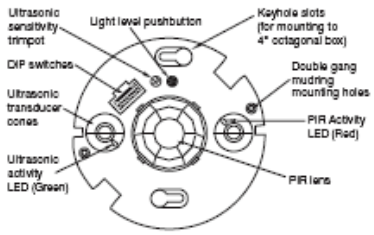


Ceiling Mounting

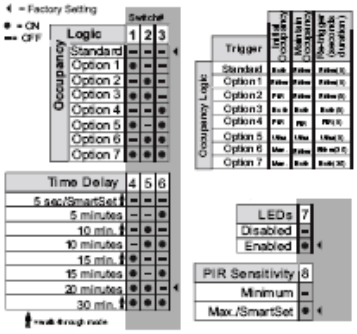


Controls & Settings

Product Controls



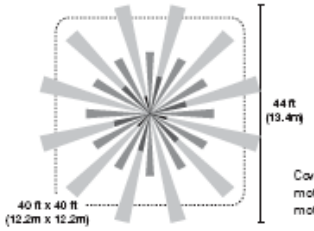
DIP Switch Settings



The technology control (occupancy logic) options are adjustable by user. The standard setting (recommended for most applications) is both technologies to trigger on, either to hold on.

Coverage

Coverage Pattern



Coverage shown is maximum and represents half-step walking motion. Under ideal conditions, coverage for half-step walking motion can reach up to 1000 ft² (92.9 m²).

Ordering Information

Catalog No.	Voltage	Load Rating	Coverage
☐ DT-355 ☐ DT-355-U	120 VAC, 50/60 Hz 277 VAC, 50/60 Hz 347 VAC, 50/60 Hz	0-800W Ballast/Tungsten 0-1200W Ballast 0-1500W Ballast	up to 1000 ft², (92.9 m²)
☐ CA-1	Cosmetic adapter for ceiling installations with 4" square j-box or Wiremold #V5748-2 box		

Sensors are white.

Pub. No. 15807 rev. 11/2010

Appendix D: lighting plans