

id[®] 6"

LED - REMOTE PHOSPHOR EMERGENCY DOWNLIGHT



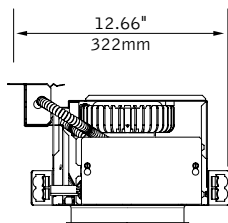
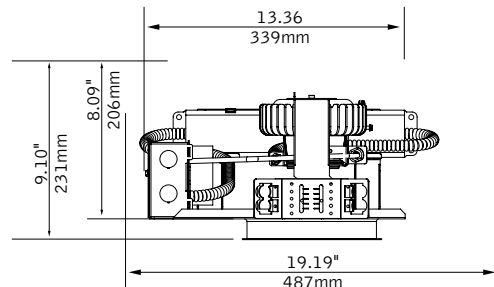
clear diffuse



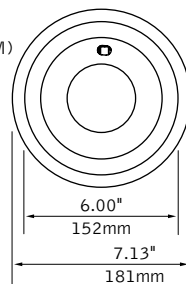
warm diffuse

DIMENSIONAL DATA

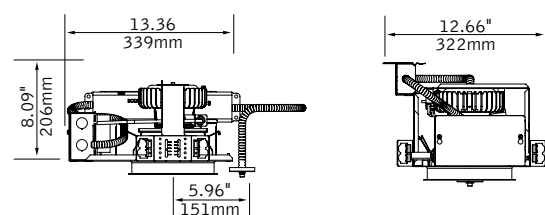
downlight integral test switch (EM) – below ceiling access



trim
(L6EM)



downlight remote test switch (EMR) – below ceiling access



FEATURES

LED module features remote phosphor technology enabling a high system efficacy, minimum 80 CRI and 3 SDCM color consistency.

Battery pack delivers emergency light levels and is compatible with all available LED modules. Integral or remote test switch available.

Constant current driver senses LED module characteristics and delivers the designed output regardless of color temperature.

Flicker-free 0-10V analog dimming capability standard.

Self-flanged Clear Diffuse reflector cone features superior brightness control and 50 degree cutoff to light source and its image.

PERFORMANCE

PRODUCT OVERVIEW

Lumen Output:	1151-1994lm
Wattage:	16-29W
LPW:	69-70
SDCM:	3
Lumen Maintenance:	L70 @ 50,000hrs

Clear Diffuse Reflector
3000k, 2000 Lumen LED
Module

Delivered Lumens: 1994lm
Total System Watts: 29W



Photometric performance is measured in accordance with IESNA LM-79.
Visit focalpointlights.com for complete photometric data.

fixture:

project:

HOUSING SPECIFICATIONS

LED System

Powered by Philips' Fortimo™ LED DLM, Advance Xitanium LED driver and communication cable. Aluminum heat sink provides appropriate thermal management.

LED Module

Philips' Fortimo™ LED DLM features patented remote phosphor technology for superior efficacy and color consistency. Module may be specified in 3000K or 3500K, CRI>80.

Construction

Thermally protected housing for new construction applications. Insulation to be kept 3" away from housing. Butterfly brackets allow mounting to ½ emt. Order bar hangers as an accessory. Die-cast aluminum heat sink designed for maximum thermal dissipation. Die-formed housing and integral junction box with (7) 1/2" pry outs. Accommodates ceiling thicknesses up to 1". For thicker ceiling consult factory. Fixture will not exceed 5 lb. 18" O.C. fixture to wall and 36" O.C. fixture to fixture spacing required.

Electrical

Advance Xitanium multi-volt 120V-277V constant current driver includes standard 0-10V analog dimming. Power factor >.9 typical, 50/60Hz., 200-700mA. 120-277v<15% THD @ 100% power <20% THD when dimming. "Thermal Guard" offers protection from overheating in abnormal conditions; driver will dim DLM if necessary. Voltage specific thermal protectors included standard.

Emergency Battery

Bodine BSL17C-C2.Emergency output—660 module lumens for all available models.

Dimming

0-10V DC low voltage dimming capability is included with the standard Advance Xitanium driver. Dimming range is to 10% light output, some dimmers may require high and/or low end trim adjustment for proper function.

Labels

UL and cUL listed. Suitable for Dry or Damp Locations, indoor use only. Lensed trims suitable for Wet Location.

Lumen Maintenance

L70 at 50,000 hours

Warranty

LED System rated for operation in ambient environments up to 25°C. 5 year limited warranty.

TRIM SPECIFICATIONS

Aesthetics

Parabolic reflector cone ensures glare free optics. Reflector is .050 spun aluminum. Torsion springs pull trim tight to the ceiling with no visible fasteners within the trim. Overlap trims are self-flanged. Non-painted trim matches reflector finish. White painted flange may also be specified.

Optics

50-degree cut-off to light source and its image.

PERFORMANCE CHART

Nominal Output	Color Temp	System Watts	Delivered Lumens	LPW
11LED	3000K	16	1151	70.2
15LED	3000K	21	1470	69.9
20LED	3000K	29	1994	69.5

*Based on Clear Diffuse reflector cone. Rated Output is the same for all color temps. Wattage reduction with other color temps. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

HOUSING ORDERING

Housing Series		FL6D
ID LED Round	FL6D	
Trim Type		RO
Round Overlap	RO	
Nominal Output		
1100 Lumen LED Module	11LED	
1500 Lumen LED Module	15LED	
2000 Lumen LED Module	20LED	
Color Temperature		
3000K	30K	
3500K	35K	
Voltage		
120V	120	
277V	277	
Driver		
0-10V Dimming	LD1	
Lutron A-Series -		
1% EcoSystem Digital	L3D	
(consult factory for 3-wire control)		
Housing Type		T
Thermally Protected, Non-IC	T	
Factory Options		
Bar Hangers	BH	
Emergency Battery Pack		
with Integral Test Switch	EM	
Emergency Battery Pack		
with Remote Test Switch	EMR	

TRIM ORDERING

Aperture		
6" Round EM Reflector	L6EM	
(Required for "EM" option)		
6" Round Reflector	L6	
(Required for "EMR" option)		
Trim Type		RD
Round	RD	
Optic		
Downlight	DN	
Regress Frosted Lens	RL	
(Wet location)		
Regress Clear Lens	CL	
(Wet location)		
Color		
Clear Diffuse	CD	
Warm Diffuse	WD	
Flange Finish		
Non-Painted	NP	
White Painted	WP	

A complete unit consists of two line items, housing and trim
Example: FL6D-RO-15LED-30K-120-LD1-T-EM | L6-RD-DN-CD-NP



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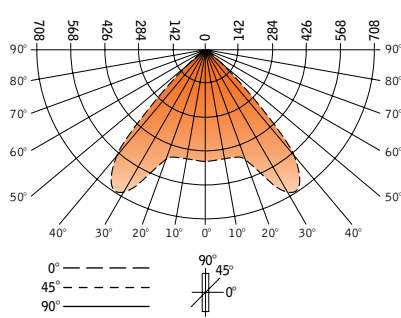
LED DOWNLIGHT

FL6D-RO-11LED-L30-120-LD1-T / L6-RD-DN-CD

Filename: FL6DNCD11LEDL30.IES
Test #: 101418870CHI-005

Lumens: 1151lm
System Watts: 16W
LPW: 70

CANDLEPOWER DISTRIBUTION



Vertical Angle	0°	22.5°	45°	67.5°	90°
0°	472	472	472	472	472
5°	471	472	473	472	470
15°	470	472	472	472	471
25°	611	609	614	617	616
35°	696	693	690	692	693
45°	297	298	294	291	289
55°	24	25	24	22	21
65°	5	5	5	4	4
75°	2	2	2	2	1
85°	0	1	1	0	0
90°	0	0	0	0	0

LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30°	466.1	40.5
0-40°	885.2	76.9
0-60°	1144	99.3
0-90°	1151	100.0
Total Luminaire 0-180°	1151	100.0

FOOTCANDLE VALUES

0° aiming angle - horizontal surface

Distance from source	Beam Diameter	Center Beam (FC)
2'	2.4'	118.0
4'	4.9'	29.5
6'	7.3'	13.1
8'	9.7'	7.4
10'	12.2'	4.7

Footcandle results based on AGI32; Reflectances=0/0/0; LLF=1

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

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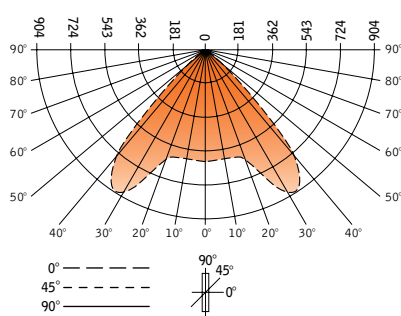
LED DOWNLIGHT

FL6D-RO-15LED-L30-120-LD1-T / L6-RD-DN-CD

Filename: FL6DNCD15LEDL30.IES
Test #: 101418870CHI-006

Lumens: 1470lm
System Watts: 21W
LPW: 70

CANDLEPOWER DISTRIBUTION



Vertical Angle	0°	22.5°	45°	67.5°	90°
0°	602	602	602	602	602
5°	600	602	602	602	600
15°	598	601	602	602	602
25°	778	776	783	786	785
35°	887	882	880	883	882
45°	380	375	379	376	377
55°	30	31	30	28	27
65°	6	7	6	6	6
75°	2	2	2	2	2
85°	1	1	1	1	1
90°	0	0	0	0	0

LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30°	594.7	70.4
0-40°	1130.7	76.8
0-60°	1461	99.3
0-90°	1470	100.0
Total Luminaire 0-180°	1470	100.0

FOOTCANDLE VALUES

0° aiming angle - horizontal surface

Distance from source	Beam Diameter	Center Beam (FC)
2'	2.4'	150.6
4'	4.9'	37.7
6'	7.3'	16.7
8'	9.7'	9.4
10'	12.2'	6.0

Footcandle results based on AGI32; Reflectances=0/0/0; LLF=1

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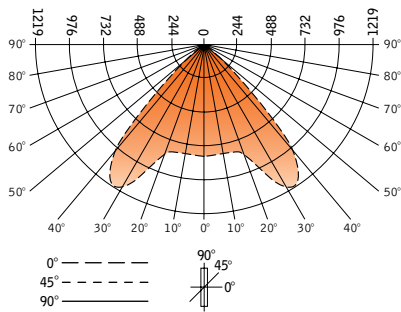
LED DOWNLIGHT

FL6D-RO-20LED-L30-120-LD1-T / L6-RD-DN-CD

Filename: FL6DNCD20LEDL30.IES
Test #: 101418870CHI-007

Lumens: 1994lm
System Watts: 29W
LPW: 69

CANDLEPOWER DISTRIBUTION



Vertical Angle	Horizontal Angle				
	0°	22.5°	45°	67.5°	90°
0°	810	810	810	810	810
5°	808	811	812	810	808
15°	805	807	808	808	808
25°	1034	1029	1036	1049	1054
35°	1197	1190	1191	1200	1204
45°	538	532	530	528	523
55°	42	43	42	39	37
65°	8	9	9	8	7
75°	3	3	3	2	2
85°	1	1	1	1	1
90°	0	0	0	0	0

LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30°	794.6	39.8
0-40°	1520	76.2
0-60°	1981	99.3
0-90°	1994	100.0
Total Luminaire	0-180°	1994

FOOTCANDLE VALUES

0° aiming angle - horizontal surface

Distance from source	Beam Diameter	Center Beam (FC)
2'	3.9'	202.6
4'	7.8'	50.6
6'	11.6'	22.5
8'	15.5'	12.7
10'	19.4'	8.1

Footcandle results based on AGI32; Reflectances=0/0/0; LLF=1

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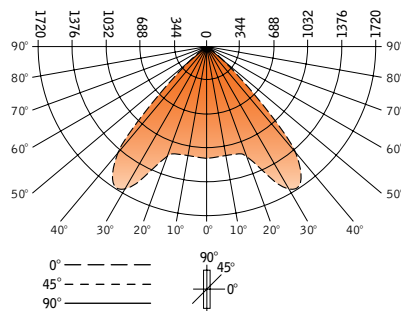
LED DOWNLIGHT

FL6D-RO-30LED-L30-120-LD1-T / L6-RD-DN-CD

Filename: FL6DNCD30LEDL30.IES
Test #: 101418870CHI-008

Lumens: 2800lm
System Watts: 40W
LPW: 69

CANDLEPOWER DISTRIBUTION



Vertical Angle	Horizontal Angle				
	0°	22.5°	45°	67.5°	90°
0°	1166	1166	1166	1166	1166
5°	1160	1162	1163	1163	1162
15°	1157	1158	1159	1158	1156
25°	1495	1497	1500	1496	1479
35°	1686	1680	1679	1691	1693
45°	711	714	703	702	707
55°	55	57	54	50	48
65°	12	13	12	11	10
75°	4	4	4	4	4
85°	1	2	2	2	1
90°	0	0	0	0	0

LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30°	1139	40.7
0-40°	2160	77.2
0-60°	2781	99.3
0-90°	2800	100.0
Total Luminaire	0-180°	2800

FOOTCANDLE VALUES

0° aiming angle - horizontal surface

Distance from source	Beam Diameter	Center Beam (FC)
2'	2.4'	291.5
4'	4.9'	72.9
6'	7.3'	32.4
8'	9.7'	18.2
10'	12.2'	11.7

Footcandle results based on AGI32; Reflectances=0/0/0; LLF=1

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