

id[®] 4.5"

LED - REMOTE PHOSPHOR DOWNLIGHT

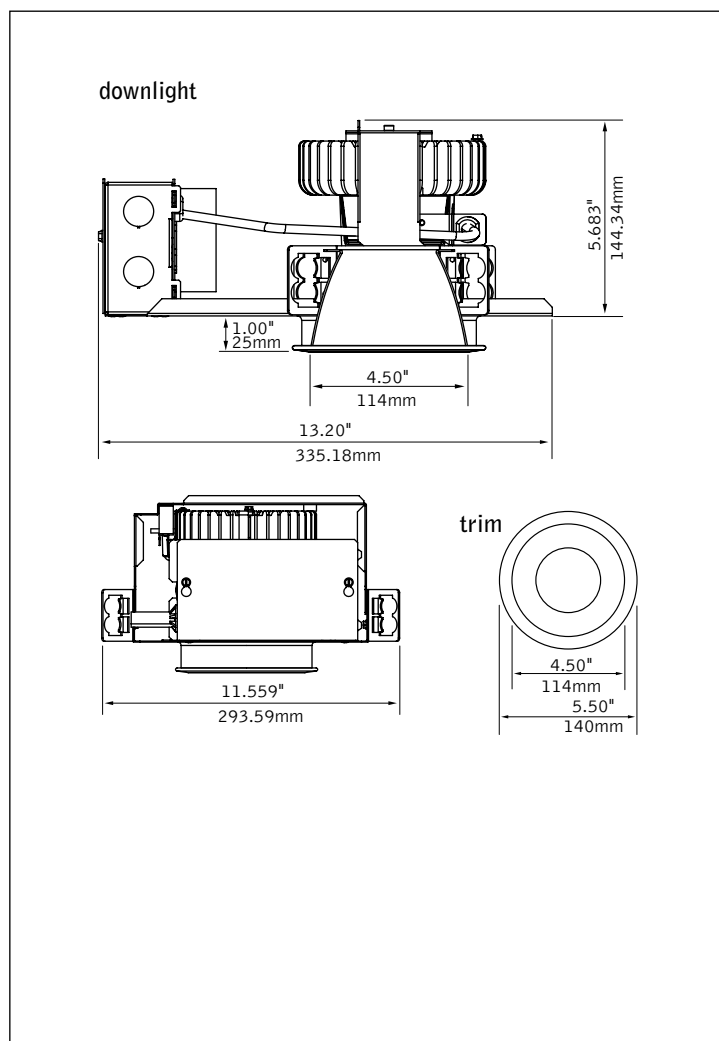


clear diffuse



warm diffuse

DIMENSIONAL DATA



FEATURES

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

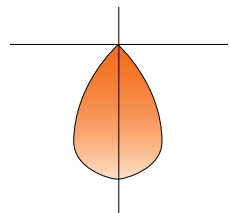
Intelligent driver delivers specified lumen output regardless of color temperature.

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

Low profile housing.

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: 1085-1873lm

Wattage: 16-29W

LPW: 65-66


SDCM: 3

Lumen Maintenance: L70 @ 50,000hrs

Clear Diffuse Reflector
3000k, 1500 Lumen LED
Module

Delivered Lumens: 1388lm

Total System Watts: 21W

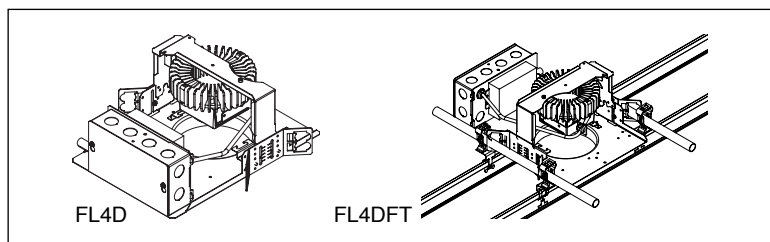


Photometric performance is measured in accordance with IESNA LM-79.
Visit focalpointlights.com for complete photometric data.

fixture:

project:

HOUSING TYPES



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" (FL4D) or 2" (FL4DFT). FL4DFT housing includes mounting clips to integrate between 6" on center tees. 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. "Thermal Guard" offers protection from overheating in abnormal conditions; driver will dim DLM if necessary. Voltage specific thermal protectors included standard.

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, label included.

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. Tor-sion springs pull trim tight to the ceiling with no visible fasteners within the trim. 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. Optional regressed Solite softening lens.

PERFORMANCE CHART

Nominal Output	Color Temp	System Watts	Delivered Lumens	LPW
11LED	3000K	16	1085	66.2
15LED	3000K	21	1388	66.0
20LED	3000K	29	1873	65.3

*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		
ID LED Round	FL4D	
ID LED Round for mounting between 6" on center tees (Not recommended with single-tile spacing between fixtures due to ceiling tile interference)	FL4DFT	
Trim Type		
Round Flush	RF	
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 (consult factory for 3-wire control)	L3D	
Housing Type		T
Thermally Protected, Non-IC	T	
Factory Options		
Bar Hangers (FL4D only)	BH	
Chicago Plenum	CP	
Emergency Battery Consult EM specific cutsheet		
TRIM ORDERING		
Aperture		L4
4.5" Round Reflector	L4	
Trim Type		RD
Round	RD	
Optic		
Downlight	DN	
Regress Frosted Lens (Wet location)	RL	
Regress Clear Lens (Wet location)	CL	
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: FL4D-RO-15LED-30K-120-LD1-T | L4-RD-DN-CD-NP



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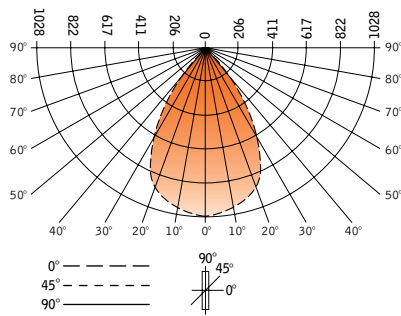
LED DOWNLIGHT

FL4D-RO-11LED-L30-120-LD1-T / L4-RD-DN-CD

Filename: FL4DNCD11LEDL30.IES
Test #: 101418870CHI-001

Lumens: 1085lm
System Watts: 16W
LPW: 66

CANDELPower DISTRIBUTION



Vertical Angle	Horizontal Angle				
	0°	22.5°	45°	67.5°	90°
0°	1028	1028	1028	1028	1028
5°	1012	1013	1013	1012	1010
15°	952	952	952	952	952
25°	802	801	802	802	803
35°	414	410	407	407	411
45°	104	105	104	104	103
55°	15	15	14	15	14
65°	4	4	4	4	4
75°	1	1	1	1	1
85°	0	0	0	0	0
90°	0	0	0	0	0

LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30°	723.3	66.7
0-40°	979.0	90.2
0-60°	1079	99.5
0-90°	1085	100.0
Total Luminaire 0-180°	1085	100.0

FOOTCANDLE VALUES

0° aiming angle - horizontal surface

Distance from source	Beam Diameter	Center Beam (FC)
2'	2.5'	257.1
4'	5.1'	64.3
6'	7.7'	8.6
8'	10.2'	16.1
10'	12.8'	10.3

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

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

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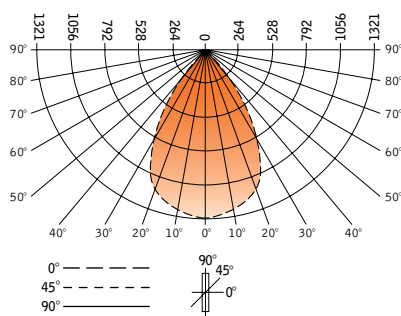
LED DOWNLIGHT

FL4D-RO-15LED-L30-120-LD1-T / L4-RD-DN-CD

Filename: FL4DNCD15LEDL30.IES
Test #: 101418870CHI-002

Lumens: 1388lm
System Watts: 21W
LPW: 66

CANDELPower DISTRIBUTION



Vertical Angle	Horizontal Angle				
	0°	22.5°	45°	67.5°	90°
0°	1321	1321	1321	1321	1321
5°	1300	1302	1302	1302	1301
15°	1222	1224	1224	1221	1219
25°	1025	1022	1023	1021	1023
35°	530	524	522	518	519
45°	137	135	134	134	132
55°	19	19	19	19	19
65°	5	5	5	5	5
75°	1	1	1	1	1
85°	0	0	0	0	0
90°	0	0	0	0	0

LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30°	925.5	66.7
0-40°	1252	90.1
0-60°	1381	99.5
0-90°	1388	100.0
Total Luminaire 0-180°	1388	100.0

FOOTCANDLE VALUES

0° aiming angle - horizontal surface

Distance from source	Beam Diameter	Center Beam (FC)
2'	2.5'	330.4
4'	5.1'	82.6
6'	7.6'	36.7
8'	10.1'	20.6
10'	12.7'	13.2

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

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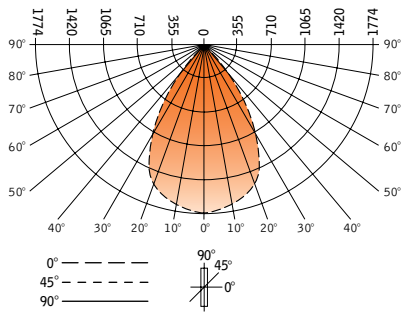
LED DOWNLIGHT

FL4D-RO-20LED-L30-120-LD1-T / L4-RD-DN-CD

Filename: FL4DNCD20LEDL30.IES
Test #: 101418870CHI-003

Lumens: 1873
System Watts: 29W
LPW: 65

CANDELPower DISTRIBUTION

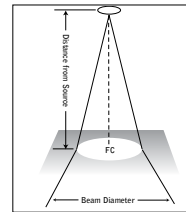


Vertical Angle	Horizontal Angle				
	0°	22.5°	45°	67.5°	90°
0°	1774	1774	1774	1774	1774
5°	1744	1746	1747	1747	1748
15°	1640	1644	1645	1643	1641
25°	1383	1383	1386	1385	1386
35°	710	706	707	703	704
45°	181	180	180	181	177
55°	26	25	25	25	25
65°	7	7	7	7	7
75°	2	2	2	2	2
85°	0	0	0	0	0
90°	0	0	0	0	0

LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30°	1249	66.7
0-40°	1690	90.2
0-60°	1863	99.5
0-90°	1873	100.0
Total Luminaire	1873	100.0

FOOTCANDLE VALUES



0° aiming angle - horizontal surface		
Distance from source	Beam Diameter	Center Beam (FC)
2'	2.5'	443.5
4'	5.1'	110.9
6'	7.6'	49.3
8'	10.2'	27.7
10'	12.7'	17.7

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

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