

id[®] 4.5" x 4.5"

LED - REMOTE PHOSPHOR EMERGENCY DOWNLIGHT



DIMENSIONAL DATA

downlight integral test switch (EM) – above ceiling access

14.05"
357mm

7.07"
179.6mm

trim (L44EM)

5.75"
146mm

note: FL44FT housing height is 8.00".

downlight remote test switch (EMR) – above ceiling access

15.81"
402mm

6.46"
164mm

16.74"
425mm

FEATURES

- LED module features remote phosphor technology enabling a high system efficacy and minimum 80 CRI.
- Battery pack delivers emergency light levels and is compatible with all available LED modules. Integral or remote test switch available.
- Flicker-free 0-10V analog dimming capability standard.
- Housing design allows die-cast trim flange to rotate to align with architecture and adjacent luminaires, a fixed option is also available.
- Clear Diffuse reflector cone features superior brightness control and 55 degree cutoff to light source and its image.

PERFORMANCE

PRODUCT OVERVIEW

Lumen Output:	885-2412lm
Wattage:	16-41W
LPW:	54-60
SDCM:	3
Lumen Maintenance:	L70 @ 50,000hrs

Clear Diffuse Reflector
3000k, 1100 Lumen LED
Module

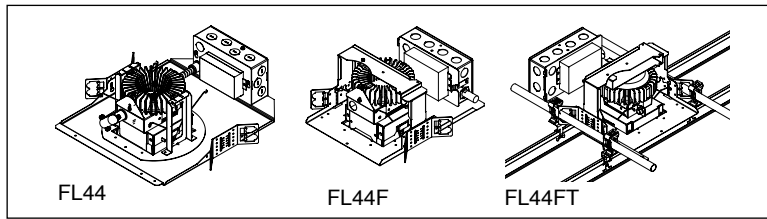
Delivered Lumens: 949lm
Total System Watts: 16W

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

fixture:

project:

HOUSING TYPES (non-emergency luminaires shown)



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" (FL44) or 2" (FL44F/FL44FT). FL44FT 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.

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 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.

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

Die-formed aluminum reflector ensures glare free optics. Reflector attaches to die-cast, seamless flange and may be removed for field painting. Torsion springs pull trim tight to the ceiling with no visible fasteners within the trim. Trim position rotates up to 110° for fine adjustment (FL44).

Optics

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

PERFORMANCE CHART

Nominal Output	Color Temp	System Watts	Delivered Lumens	LPW
11LED	3000K	16	963	58.9
15LED	3000K	21	1233	58.7
20LED	3000K	29	1671	58.3

*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 Square with rotating trim alignment feature	FL44	
ID LED Square with fixed aperture	FL44F	
ID LED Square for mounting between 6" on center tees <small>(Not recommended with single-tile spacing between fixtures due to ceiling tile interference)</small>	FL44FT	
Trim Type		_____
Square Overlap	SO	
Square Flush <small>(FL44 & FL44F only)</small>	SF	
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 <small>(consult factory for 3-wire control)</small>	L3D	
Housing Type		T _____
Thermally Protected, Non-IC	T	
Factory Options		_____
Bar Hangers <small>(FL44, FL44F only)</small>	BH	
Emergency Battery Pack with Integral Test Switch <small>(Above ceiling access.)</small>	EM	
Emergency Battery Pack with Remote Test Switch <small>(Above ceiling access.)</small>	EMR	
TRIM ORDERING		_____
Aperture		_____
4.5" Square Reflector <small>(required for "EMR" option)</small>	L44	
4.5" Square EM Open Reflector <small>(required for "EM" option)</small>	L44EM	
Trim Type		SQ _____
Square <small>(Compatible with SO and SF housings)</small>	SQ	
Optic		_____
Downlight	DN	
Regress MicroGlow Lens <small>(Wet location)</small>	RLMG	
Color		_____
Clear Diffuse	CD	
Warm Diffuse	WD	
Silver Talc Diffuse	TD	
Flange Finish		_____
White	WH	
Black	BK	
Titanium Silver	TS	
Aluminum Raw	AL	

A complete unit consists of two line items, housing and trim
Example: FL44-SO-15LED-30K-120-LD1-T-EM | L44-SQ-DN-CD-WH



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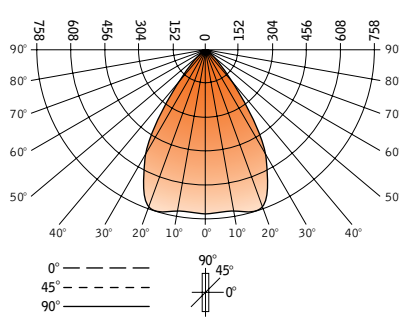
LED DOWNLIGHT

FL44-SO-11LED-L30-120-LD1-T / L44-SQ-DN-CD

Filename: FL44DNCD11LEDL30.IES
Test #: 101418870CHI-017

Lumens: 949lm
System Watts: 16W
LPW: 58

CANDLEPOWER DISTRIBUTION



Vertical Angle	Horizontal Angle				
	0°	22.5°	45°	67.5°	90°
0°	741	741	741	741	741
5°	734	736	738	738	743
15°	749	742	734	747	758
25°	665	668	706	671	666
35°	363	386	432	386	355
45°	81	104	132	102	76
55°	26	26	20	24	23
65°	8	8	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°	585.9	61.8
0-40°	827.5	87.2
0-60°	937.8	98.9
0-90°	948.6	100.0
Total Luminaire 0-180°	948.6	100.0

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

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

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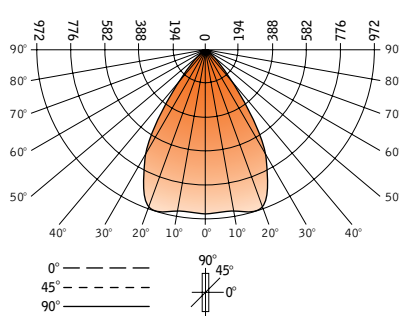
LED DOWNLIGHT

FL44-SO-15LED-L30-120-LD1-T / L44-SQ-DN-CD

Filename: FL44DNCD15LEDL30.IES
Test #: 101418870CHI-018

Lumens: 1219lm
System Watts: 21W
LPW: 58

CANDLEPOWER DISTRIBUTION



Vertical Angle	Horizontal Angle				
	0°	22.5°	45°	67.5°	90°
0°	940	940	940	940	940
5°	936	939	942	942	939
15°	954	947	938	956	972
25°	844	850	901	858	855
35°	456	491	551	498	464
45°	102	136	173	136	100
55°	33	32	25	30	29
65°	10	10	9	9	9
75°	3	3	3	3	2
85°	0	0	0	0	0
90°	0	0	0	0	0

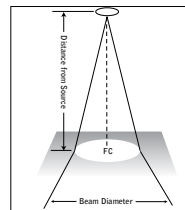
LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30°	749.0	61.5
0-40°	1060	87.0
0-60°	1205	98.9
0-90°	1219	100.0
Total Luminaire 0-180°	1219	100.0

FOOTCANDLE VALUES

0° aiming angle - horizontal surface

Distance from source	Beam Diameter	Center Beam (FC)
2'	2.7'	235.1
4'	5.5'	58.8
6'	8.2'	26.1
8'	9.9'	14.7
10'	12.4'	9.4



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

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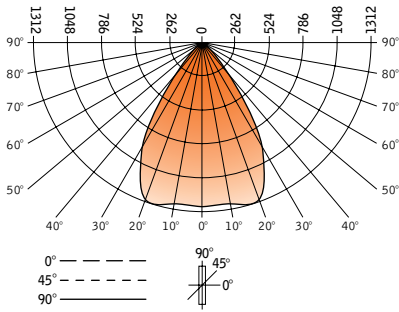
LED DOWNLIGHT

FL44-SO-20LED-L30-120-LD1-T / L44-SQ-DN-CD

Filename: FL44DNCD20LEDL30.IES
Test #: 101418870CHI-019

Lumens: 1645lm
System Watts: 29W
LPW: 57

CANDLEPOWER DISTRIBUTION

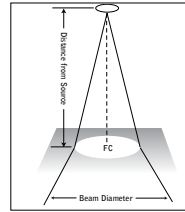


Vertical Angle	Horizontal Angle				
	0°	22.5°	45°	67.5°	90°
0°	1270	1270	1270	1270	1270
5°	1266	1270	1273	1273	1269
15°	1293	1282	1269	1292	1312
25°	1140	1154	1219	1160	1154
35°	620	672	747	671	625
45°	137	185	234	180	134
55°	44	43	34	39	39
65°	14	14	13	13	12
75°	4	4	4	4	4
85°	1	1	1	1	1
90°	0	0	0	0	0

LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30°	1012	61.5
0-40°	1432	87.1
0-60°	1626	98.9
0-90°	1645	100.0
Total Luminaire 0-180°	1645	100.0

FOOTCANDLE VALUES



0° aiming angle - horizontal surface		
Distance from source	Beam Diameter	Center Beam (FC)
2'	2.7'	317.6
4'	5.5'	79.4
6'	8.2'	35.3
8'	11.0'	19.9
10'	13.7'	12.7

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

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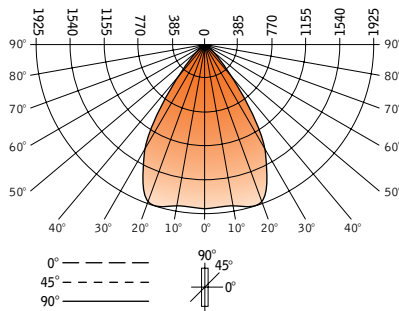
LED DOWNLIGHT

FL44-SO-30LED-L30-120-LD1-T / L44-SQ-DN-CD

Filename: FL44DNCD30LEDL30.IES
Test #: 101418870CHI-020

Lumens: 2412lm
System Watts: 41W
LPW: 59

CANDLEPOWER DISTRIBUTION

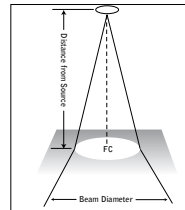


Vertical Angle	Horizontal Angle				
	0°	22.5°	45°	67.5°	90°
0°	1879	1879	1879	1879	1879
5°	1869	1872	1877	1876	1882
15°	1904	1888	1868	1899	1925
25°	1680	1696	1791	1703	1689
35°	903	986	1090	979	897
45°	200	272	344	265	193
55°	64	64	50	57	58
65°	20	20	19	18	18
75°	5	6	6	6	5
85°	1	2	2	2	1
90°	0	0	0	0	0

LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30°	1488	61.7
0-40°	2102	87.1
0-60°	2384	98.9
0-90°	2412	100.0
Total Luminaire 0-180°	2412	100.0

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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