

equation™ 1x1



Patent Pending

features

LED module features remote phosphor technology enabling a high system efficacy and minimum 80 CRI for 3000K, 70 CRI for 4000K.

Future-proof LED system design maintains form factor, lumen output, and thermal characteristics of module and driver as technology advances, allows for easy replacement and upgrades.

Rated life is 50,000 hours at 70% lumen maintenance (L70).

5 year limited warranty.

Intelligent driver delivers specified lumen output regardless of color temperature.

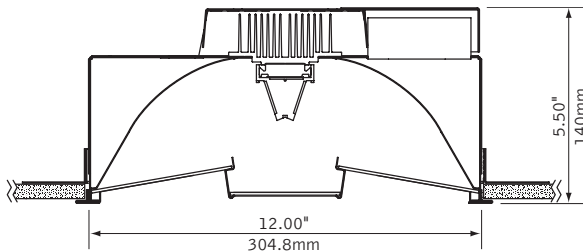
Flicker-free 0-10V analog dimming capability standard.

Excellent choice for corridors.



MicroGlow™ center diffuser

dimensional data



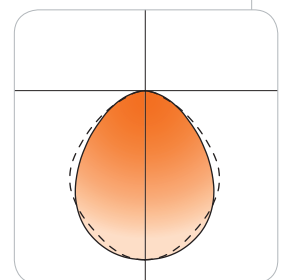
performance

16W, 4000K LED Light Engine
White Side Rails with MicroGlow
Total Luminaire Output: 702lms

Photometric performance is measured in accordance with IESNA LM-79.



Use 22 watt LED in place of 32 watt CFL.



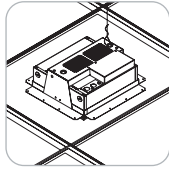
Visit focalpointlights.com for complete photometric data.

fixture:

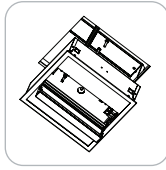
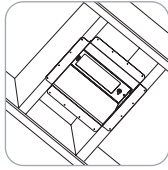
project:

mounting information

Grid



Drywall



grid and drywall cut out dimensions: 12.25" x 11.57"

housing specifications

led system

Powered by Philips' Fortimo LLM LED module, Advance Xitanium LED driver and communication cable. Aluminum heat sink provides appropriate thermal management. System is future-proof, allowing for easy replacement and upgrades as LED technology advances. LED system rated for 50,000 hours at 70% lumen output (L70).



led module

Philips' Fortimo LLM features patented remote phosphor technology for superior efficacy and color consistency. Module may be specified in 3000K with a CRI>80 or 4000K with a CRI>70.

construction

- One piece 20 Ga. steel housing.
- Two piece 20 Ga. steel reflectors.
- Extruded aluminum heat sink.
- 20 Ga. Steel ends form finishing housing.
- Housing ships with 20 Ga. galvanized steel mounting yoke.
- Die-cast aluminum heat sink designed for maximum thermal dissipation.

Weight: 12 lbs

electrical

Advance Xitanium multi-volt 120V-277V constant current driver includes standard 0-10V analog dimming. Power factor >.9 typical, 50/60Hz., 200-700mA, input power range, 19-26.5w. "Thermal Guard" offers protection from overheating in abnormal conditions; driver will dim LLM if necessary. Designed for non-insulated ceilings only.

Lamp	Temp	Watts	Module Output	Delivered Lumens	Delivered Lumens per Watt
11LED	3000K	18.5	1100	700	45
	4000K	16	1100	700	45
18LED	3000K	28	1800	1425	46
	4000K	26.5	1800	1425	46

*Lumen output may vary +/- 5%

labels

UL & cUL listed.

optic

20 Ga. Steel reflectors finished in matte satin white powder coat. .080" thick frosted white acrylic side diffusers. Center diffuser available with .125" thick MicroGlow™. Center Diffuser retained with Matte Satin White side rails.

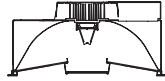
finish

Polyester powder coat applied over a 5-stage pre-treatment.

ordering

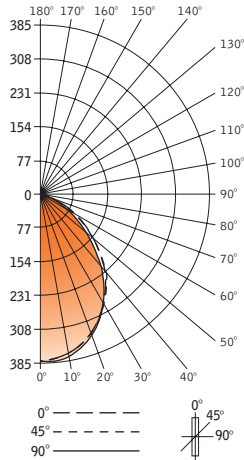
luminaire series	Equation	FEQ
nominal size	1' x 1'	11
led module	1100 Lumen LED Light Module	11LED
	1800 Lumen LED Light Module	18LED
color temperature	3000K Light Module	L30
	4000K Light Module	L40
voltage	120 Volt	120
	277 Volt	277
mounting	Universal	U
shielding	Natural Anodized Side Rails	AL
	High Performance White Side Rails	WP
factory options	Chicago Plenum	CP
	HLR/GLR Fuse	FU
finish	Matte Satin White	WH

high performance white side rails
equation™ 1x1



Filename: FEQ1111LEDL40.IES
Catalog #: FEQ-11-11LED-L40-120-U-WP-WH
Test #: 20141.0

CANDLEPOWER DISTRIBUTION



Vertical Angle	Horizontal Angle				Zonal Lumens
	0°	22.5°	45°	67.5°	
0°	305	305	305	305	305
5°	304	304	303	303	29
15°	291	290	286	282	81
25°	264	260	255	255	119
35°	219	216	220	226	138
45°	158	161	175	185	132
55°	101	105	117	121	101
65°	61	62	67	65	64
75°	30	29	28	27	30
85°	7	7	7	7	8
90°	0	0	0	0	0

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt
0°-30°	228	N/A	32.5
0°-40°	366	N/A	52.2
0°-60°	600	N/A	85.5
0°-90°	701	N/A	100
Total Luminaire	701	N/A	100

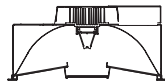
LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	2824	3142	3343
55°	2237	2593	2636
65°	1839	2003	1884
75°	1494	1378	1309
85°	1022	1012	928

Spacing 1.2
Criterion: 1.2

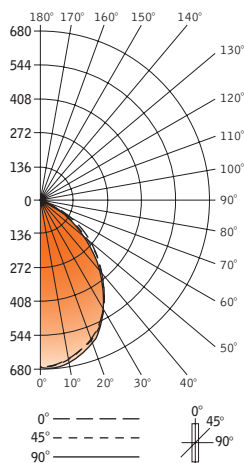
Go to www.focalpointlights.com for additional photometric data.

high performance white side rails
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Filename: FEQ1118LEDL40.IES
Catalog #: FEQ-11-18LED-L40-120-U-WP-WH
Test #: 20142.0

CANDLEPOWER DISTRIBUTION



Vertical Angle	Horizontal Angle				Zonal Lumens
	0°	22.5°	45°	67.5°	
0°	620	620	620	620	620
5°	617	617	616	615	58
15°	592	589	580	574	164
25°	537	529	519	518	241
35°	444	438	448	459	281
45°	320	326	356	375	269
55°	205	213	238	245	206
65°	124	125	136	131	129
75°	62	59	57	54	62
85°	14	14	14	14	13
90°	0	0	0	0	0

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt
0°-30°	463	N/A	32.5
0°-40°	744	N/A	52.2
0°-60°	1219	N/A	85.5
0°-90°	1425	N/A	100
Total Luminaire	1425	N/A	100

LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	5731	6377	6786
55°	4541	5269	5353
65°	3733	4065	3819
75°	3041	2798	2653
85°	2080	2032	1875

Spacing 1.2
Criterion: 1.2

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