

Catalog Number:

Project:

Type:

Date:



BACKED BY A 5 YEAR WARRANTY!

F6L
F6L2

6" Recessed LED
IC / Non-IC Housing
1 Hour / 2 Hour Fire and Sound Rated

Description

Versatile light commercial recessed LED luminaire allows for installation in a variety of ceiling constructions. Engineered design maximizes LED source while offering unmatched efficacy and performance. The F6L series is suitable for both IC and Non-IC construction, and is available in a 60 or 120 minute fire rated L500 floor ceiling design.

Housing

Die formed #20 gauge galvanized steel construction. Housing interior is comprised of a flexible non-combustible matt. Two (2) snap on galvanized covers provide easy access into junction box.

Optics / LED Source

Primary : Proprietary integration systems mixes and monitors selected light wavelengths to generate consistent color and lumen values over the life of the system. Internal integration lens system also eliminates the undesirable LED "point" appearance.

Secondary : Engineered to control glare (cut off is 55°) while maximizing system efficiency. Dimmable down to 5% with quality incandescent dimmers.

Color Mixing : Cree Proprietary Technology incorporates a color mixing scheme to generate white light, offering a higher efficacy while maintaining a high CRI. Color correcting technology also ensures color uniformity over the life of the LED.

Electrical

Integral and highly efficient solid state LED Driver is accessible from below ceiling plane. Luminaire accommodates input voltages of 120 or 277v AC at 60 Hz. Power factor > .90

Bar Hangers

Pre-installed patented telescopic bar hangers permits placement of housing within 16" O.C joists or suspended ceilings (Consult factory for 24" joist adapters). Bar hanger is scored in two locations allowing installation in tight spaces. Supplied with four (4) captive heavy duty nails.

Mounting / Installation

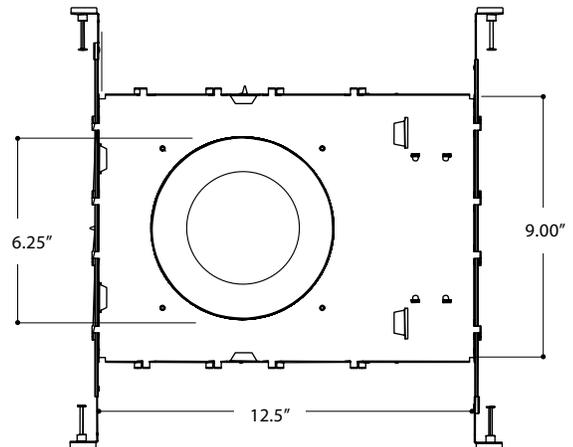
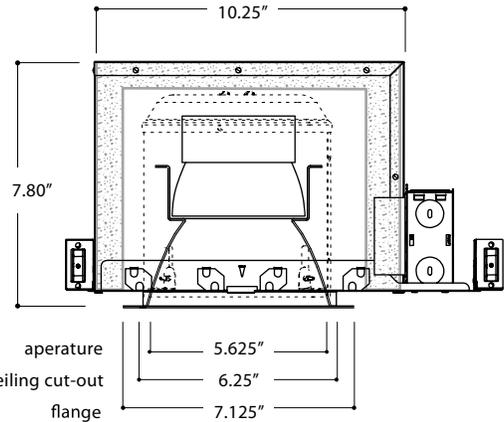
22 gauge galvanized steel mounting frame with pre-wired 18 gauge galvanized steel junction box. Junction box is equipped with (7) 1/2" and (4) 3/4" knockouts with pryout slots. Supplied with quick connectors for supply wire connection. Pre-installed patented telescoping bar hangers permit placement of housing within 24" O.C. support joists. Maximum 1 1/2" ceiling thickness. Spacing must not exceed one (1) luminaire per 25 sq. ft. of the ceiling area. Minimum spacing between two adjacent luminaires must not be less than 3 ft.

Airtight

This fixture is designed to restrict air passage through the housing to no more than two cubic feet (2.0 cfm) per minute. Tested to ASTM E283

Specs at a Glance

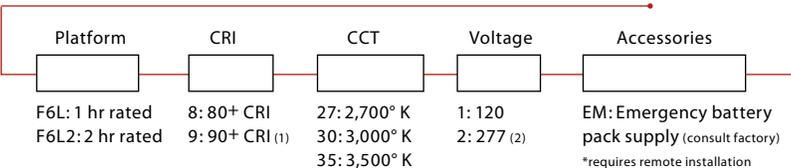
Lumen Maintenance: 70%			Rated Life: 50,000 hrs	
Dimmable: 5%		Warranty: 5 yrs		
CCT:	Delivered:	CRI:	Efficacy:	Watts:
2,700 K	616 lm	> 90	61 lm/w	< 12
3,000 K	616 lm	> 80	61 lm/w	< 12
3,500 K	616 lm	> 80	61 lm/w	< 12
4,000 K	616 lm	> 80	61 lm/w	< 12



Listings

- UL Listed for damp locations
- Wet location option must be specified when ordering trim
- LM-79 qualified
- Title 24 2008 high efficacy compliant
- IC housing is UL Listed for insulation covered ceilings
- US DOE Energy Star qualified
- Through branch circuit wiring (max 8 No.12ga., 90°C conductors, 4 in - 4 out)
- IECC and CEC compliant
- ASTM E283 approved (air tight)

ORDERING INFORMATION LED Platform (Example: F6L-830-1-EM)



1 - 90 CRI currently available in 2,700° K only.
2 - Step down transformer included

Trims (choose from list)



F6L & F6L2

6" LED Damp Location Trims • Please contact factory for custom finishes. • IDEAL® Quick connector provided for easy installation.

					
LED61051-SA Specular Clear Reflector Cone White Painted Metal Flange	LED61050-WH White Reflector Cone White Painted Metal Flange	LED61301-BK Black Ribbed Baffle Cone White Plastic Flange	LED61350-BK Black Ribbed Baffle Cone Black Painted Metal Flange	LED61350-WH White Ribbed Baffle Cone White Painted Metal Flange	LED61050-DA Diffused Anodized Metal Reflector Cone & Flange

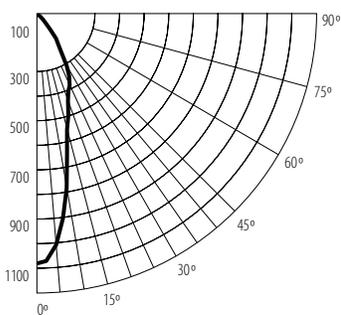
6" LED Wet Location Trims • Please contact factory for custom finishes. • IDEAL® Quick connector provided for easy installation.

					
LED62051-SA Specular Clear Reflector Cone White Painted Metal Flange	LED62050-WH White Reflector Cone White Painted Metal Flange	LED62301-BK Black Ribbed Baffle Cone White Plastic Flange	LED62350-BK Black Ribbed Baffle Cone Black Painted Metal Flange	LED62350-WH White Ribbed Baffle Cone White Painted Metal Flange	LED62050-DA Diffused Anodized Metal Reflector Cone & Flange

Photometric Reports

Test Report #: 100209762CRT-004-PR1.103
 Platform: F6L Series
 Trim ID #: LED61050-SA (Specular Anodized Open Trim) LPW: 61.65
Spacing Criteria: 0.52

CANDLEPOWER DISTRIBUTION (Candelas)



Degrees Vertical	0°
0	1078
5	1009
15	564
25	381
35	226
45	90
55	26
65	1
75	0
85	0
90	0

LUMINANCE (Average cd/m2)

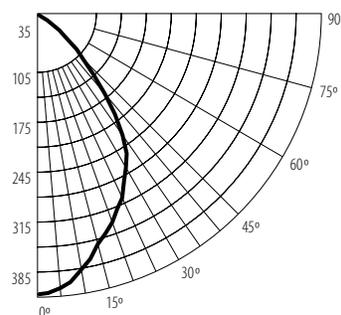
Degrees	Average 0° Luminance
45	6469
55	2304
65	120
75	0
85	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0-30°	403.7	N/A	65.5
0-40°	533.1	N/A	86.5
0-60°	615.1	N/A	99.8
0-90°	616.5	N/A	100

Test Report #: 100209762CRT-002-PR1.03
 Platform: F6L Series
 Trim ID #: LED61050-WH (White Painted Open Trim) LPW: 56.37
Spacing Criteria: 1.02

CANDLEPOWER DISTRIBUTION (Candelas)



Degrees Vertical	0°
0	415
5	408
15	359
25	302
35	229
45	111
55	49
65	21
75	11
85	3
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0-30°	274.3	N/A	48.7
0-40°	407.9	N/A	72.4
0-60°	529.4	N/A	93.9
0-90°	563.7	N/A	100

LUMINANCE (Average cd/m2)

Degrees	Average 0° Luminance
45	7978
55	4342
65	2525
75	2160
85	1749

- Fahrenheit LED source engineered to maintain continuous luminous output throughout Kelvin color temperature changes (2,700 through 4,000).
- Acceptable Dimmers document available online at www.fahrenheitlighting.com.