

Day-Brite

CFI

by Signify

Recessed

Coffaire LED 2x4

2100, 2700, 3000, or
3800 lumens



Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Lamps: _____ Qty: _____
 Notes: _____

The Day-Brite / CFI Coffaire LED recessed combines a perforated mesh lamp shield with a white acrylic overlay in an indirect cove to create an aesthetically pleasing direct/indirect luminaire.

Ordering guide

Example: CFS24GPG21L40UDZT

Family	Air Function	Fixture Size	Ceiling Type	Diffuser	Lumen Package	Color Temp.	Voltage	Driver Type	Options
<input type="checkbox"/> CF	<input type="checkbox"/> S	<input type="checkbox"/> 24	<input type="checkbox"/> G					—	
CF Coffaire direct/indirect recessed luminaire	S Static	24 2'x4'	G Fits both standard and slot grid Consult factory for other ceiling systems.	PG Perforated lamp shield with dust shield PF Perforated lamp shield with acrylic overlay PD Perforated lamp shield with insect shield	21L 2100 lumens 27L 2700 lumens 30L 3000 lumens 38L 3800 lumens 4000K represented (Approximate delivered values. Consult IES file)	35 3500K 40 4000K 50 5000K Consult representative for other color temperature options. (Approximate values. Consult IES file.)	U Universal voltage 120-277V 3 347V	DZT 0-10V dimming F1/D Step dimming to 1% SZT Step dimming to 40% input power	F1 3/8" flex, 3 wire 18 gauge 6' F2 3/8" flex, 4 wire 18 gauge 6' F1/D 3/8" twin flex, 3 wire 18 gauge 6' for dimmable luminaires F2/SW 3/8" single flex, 5 wire 18 gauge 6' for dimmable luminaires GLR Fusing, fast blow EMLED Integral emergency battery pack CHIC Chicago Plenum rated

Accessories (order separately)

- FMA24 – 2'x4' "F" mounting frame for NEMA "F" installations

CFS Coffaire LED recessed 2x4

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Features

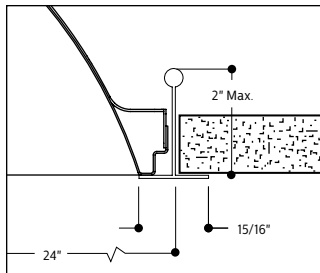
- Direct/indirect lamp shield appearance with soft contoured interior.
- Perforated mesh lamp shield with white acrylic overlay.
- Separate impact resistant acrylic top refractors enclose LED compartment, minimizing penetration of dust and insects.
- Contoured body and ends.
- Only 5" deep.
- Field replaceable LED array and drivers accessible from below.
- Integrated thermal management system conducts heat away from LEDs and transfers it to the surrounding environment.
- Intelligent driver technology, our LED platform, is a factory calibrated system providing the customer multiple lumen outputs to balance energy savings with lighting application needs.
- High efficiency LEDs have 50,000 hour rated life at L70.
- Predicted L70 lifetime is based on LED manufacturer's supplied LM-80 data and in-situ laboratory testing.
- Tension screws secure ends to body.

- Perforated lamp shield hinges from either side.
- Same fixture fits both G and Slot T ceiling types.
- Fits flush to face of slot grid (T) ceiling types.
- Suitable for continuous row mounting.
- Built-in earthquake clips.
- Construction to meet NYC Code or Chicago Plenum available.
- Five-year warranty on luminaire, LED boards and driver.

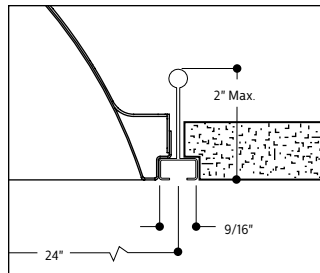
Specifications

- **Materials:** Chassis parts – die-formed code gauge steel. Lamp Shield – steel perforated mesh lamp shield with white acrylic overlay. Refractors – clear impact resistant acrylic
- **Finish:** Chassis exterior – white baked polyester enamel. Cavity – baked polyester enamel, rust preventative undercoating,
- **Electrical:** LED boards and drivers are RoHS (Restriction of Hazardous Substances) compliant.
- **Labels:** cULus listed for damp locations.

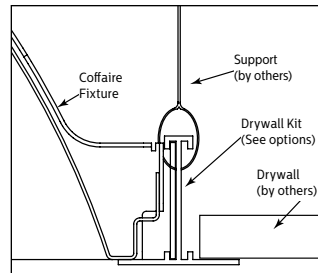
Mounting methods



exposed t-grid ceiling*

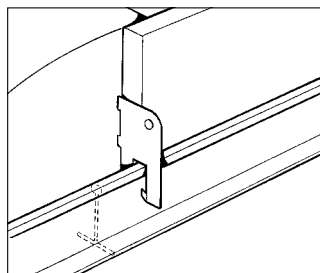


exposed slot t-grid ceiling*

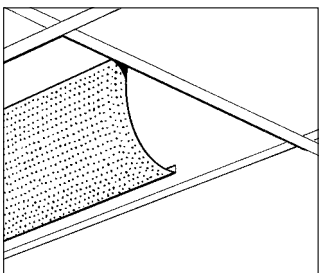


Drywall Kit for use with "G" type fixture. Catalog number: **FMA24**

* For flush mounting when using 9/16" Exposed T-Grid ceiling system consult factory

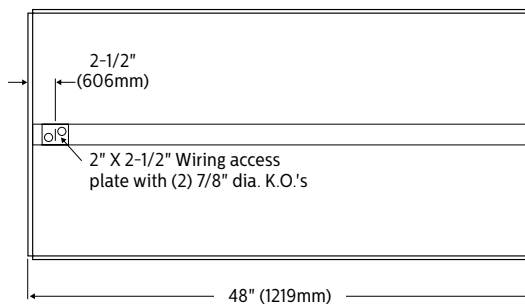
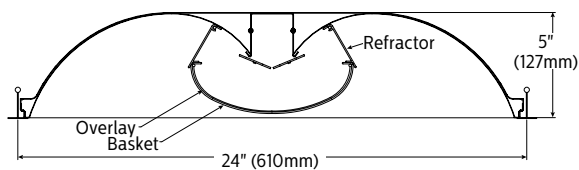


built-in earthquake clips



lamp shield hinges either side

Dimensions



CFS Coffaire LED recessed 2x4

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Additional ordering information – 4000K CCT

Catalog Number	Delivered Lumens	Input Watts	Lumens per Watt	Average initial 8'X8' footcandles	8'X8' Watts per sq. foot	Average initial 8'X10' footcandles	8'X10' Watts per sq. foot
CFS24GPG21L40ULAG	2147	30.0	71.6	34	0.47	27	0.39
CFS24GPG27L40ULAG	2673	38.7	68.3	41	0.60	33	0.48
CFS24GPG30L40ULAG	2974	44.3	67.1	47	0.69	37	0.55
CFS24GPG38L40ULAG	3883	57.2	67.9	61	0.89	49	0.72

Photometry – 4000K CCT

Report number¹: G2012412
 Catalog number: CFS24GPG30L40ULAG
 Delivered lumens: 2974
 Color²: 4000K
 Input watts: 44.3
 Efficacy: 67.1 lm/w
 Lamp: LED
 Luminaire: Coffaire recessed LED
 2' x 4' fixture with perforated basket
 CIE Type: Direct
 Plane: 0-Deg. 90-Deg.
 Spacing criteria: 1.2 1.3
 Plane: 0-Deg. 90-Deg.
 Luminous length: 47.040 23.040

Candela distribution

Vertical Angle	Horizontal Angle		
	0°	45°	90°
0	1304	1304	1304
5	1293	1298	1303
15	1234	1249	1264
25	1128	1158	1188
35	980	1028	1081
45	798	872	950
55	588	698	792
65	365	508	576
75	180	262	300
85	39	58	61
90	4	4	4

Coefficients of utilization

Ceiling	80%			50%			30%			
	70	50	30	50	30	10	50	30	10	
Wall	70	50	30	50	30	10	50	30	10	
RC	Zonal Cavity Method									
RW	Effective Floor Reflectance = 20%									
Room Cavity Ratio	1	109	104	100	97	94	91	93	91	88
	2	99	90	83	85	80	75	82	77	73
	3	90	79	71	75	68	63	72	66	61
	4	82	70	61	66	59	53	64	57	52
	5	75	62	53	59	52	46	57	51	45
	6	70	56	47	53	46	40	52	45	40
	7	65	51	42	48	41	35	47	40	35
	8	60	46	38	44	37	32	43	36	31
	9	56	43	34	41	34	28	40	33	28
	10	53	39	31	38	31	26	37	30	26

Zonal lumen summary*

Zone	Lumens	% Lamp	% Fixt.
0-30	1011.	26.8	26.8
0-40	1655.	44.0	44.0
0-60	2950.	78.3	78.3
0-90	3766.	100.0	100.0
90-180	0.	0.0	0.0
0-180	3766.	100.0	100.0

*Total Efficiency

¹ Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
² Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.

Avg. Luminance (cd/m²)

Vertical Angle	Horizontal Angle		
	0°	45°	90°
45	1613.	1763.	1921.
55	1466.	1740.	1974.
65	1235.	1718.	1948.
75	994.	1447.	1657.
85	640.	951.	1001.

Photometry – 4000K CCT

Report number¹: FO32330
 Catalog number: CFS24GPG38L40ULAG
 Delivered lumens: 3883
 Color²: 4000K
 Input watts: 57.2
 Efficacy: 67.9 lm/w
 Lamp: LED
 Luminaire: Coffaire recessed LED
 2' x 4' fixture with perforated basket
 CIE Type: Direct
 Plane: 0-Deg. 90-Deg.
 Spacing criteria: 1.2 1.4
 Plane: 0-Deg. 90-Deg.
 Luminous length: 47.040 23.040

Candela distribution

Vertical Angle	Horizontal Angle		
	0°	45°	90°
0	1336	1336	1336
5	1326	1330	1337
15	1278	1290	1300
25	1179	1208	1234
35	1036	1087	1135
45	848	933	996
55	621	743	807
65	378	517	538
75	177	230	260
85	37	47	61
90	2	2	9

Coefficients of utilization

Ceiling	80%			50%			30%			
	70	50	30	50	30	10	50	30	10	
Wall	70	50	30	50	30	10	50	30	10	
RC	Zonal Cavity Method									
RW	Effective Floor Reflectance = 20%									
Room Cavity Ratio	1	109	104	100	98	95	90	94	91	88
	2	99	91	84	85	80	74	82	78	72
	3	90	80	72	75	69	61	72	67	60
	4	83	71	62	67	60	51	64	58	51
	5	76	63	54	60	52	44	58	51	44
	6	70	57	48	54	46	38	52	45	38
	7	65	51	42	49	41	34	47	41	34
	8	60	47	38	45	37	30	43	37	30
	9	56	43	35	41	34	27	40	33	27
	10	53	40	32	38	31	24	37	31	24

Zonal lumen summary*

Zone	Lumens	% Lamp	% Fixt.
0-30	1048.	27.0	27.0
0-40	1727.	44.5	44.5
0-60	30889.	79.6	79.6
0-90	3879.	100.0	100.0
40-90	2152.	55.5	55.5
60-90	790.	20.4	20.4
90-180	0.	0.0	0.0
0-180	3879.	100	100

*Total Efficiency

¹ Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
² Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.

Avg. Luminance (cd/m²)

Vertical Angle	Horizontal Angle		
	0°	45°	90°
45	1714.	1886.	2014.
55	1548.	1852.	2011.
65	1278.	1751.	1820.
75	979.	1272.	1437.
85	614.	776.	1004.

