

FEATURES

- Attractive fluorescent architectural recessed luminaire
- T8 or T5 Fluorescent
- Full distribution provides controlled high angle light for visual comfort
- Advanced optical design produces high efficiencies
- Exclusive T8 EnergyMax® tuned 1.04 ballast factor ballast
- Step dimming options available for both T5 and T8 expand energy savings opportunities
- Low W/ft² ratio meets the most restrictive lighting power density codes
- Unique frameless optics system allows easy access to lamps and electrical from below the ceiling
- Lens styles provide aesthetic alternatives
- Low profile housing fits in tight plenum spaces
- Damp location standard
- Recessed, surface or cable mounted

PROJECT INFORMATION

Project Name _____

Type _____

Catalog No. _____

Date _____

CONSTRUCTION

Luminaire housing, end caps, and reflectors are die-formed code-gauge steel. Frameless optics system hinges from either side for easy access to lamps and electrical components. Mechanical light trap prevents light leaks. Latches are spring loaded. Four integral T-bar clips are standard.

FINISH

All visible parts are custom formulated soft, non-glare high-reflectance white powder coat finish, painted after fabrication.

SHIELDING

Lenses are high transmission extruded acrylic.

INSTALLATION

An access plate is furnished with each recessed fixture for fast wiring connections without the necessity to open the fixture or wireway.

BALLASTS

Energy efficient, thermally protected, automatic resetting, HPF ballast, sound rated A. CEE NEMA Premium compliant.

ELECTRICAL

Standard class "P", thermally protected, autoresetting HPF ballast, sound rated A. CEE NEMA Premium compliant. All ballast leads extend a minimum of 6" through access location. NEC/CEC-compliant ballast disconnect is standard.

EMERGENCY

Field installation of battery packs requires use of remote test switch.

CEILING COMPATIBILITY

Designed for recessed installation in standard inverted tee grid ceilings (G), recessed installation in hard ceilings (G with FK accessory), surface mount at ceiling plan (SM) or cable mount suspension below ceiling plan (CM). For compatibility with specific ceilings contact your Hubbell Lighting representative. T-bar clips are standard.

CERTIFICATION

All luminaires are built to UL 1598 standards and bear appropriate UL and cUL or CSA labels. Damp location labeling is standard. Recessed models without emergency options are IC labeled. Emergency-equipped fixtures labeled UL 924. UL Sanitation Approved.

ORDERING INFORMATION

EXAMPLE EPC24-232G-DL-E104U-PLUS35

EPC		24		-		2		-		-		-		-		-	
MODEL		NO. OF LAMPS		CEILING TYPE		SHIELDING		AIR FUNCTION		VOLTAGE		OPTIONS					
EPC e-poc® Full Distribution Luminaire		2 Two		G Grid ¹	DL Delta Profile			Blank Static		U 120V-277V		C388 3-Wire Flex					
				SM Surface Mount	SH Shield Profile			A Air Return Side Slots		347 347V ²		C488 4-Wire Flex					
				CM Cable Mount ²								C588 5-Wire Flex					
SIZE		LAMP TYPE		BALLAST				LAMPS									
24 2' x 4'		28 4', T5: 28 Watt		E Electronic T8, 0.88 Ballast Factor, Instant Start				F0830 30K 78+CRI T8 Lamps Installed									
		32 4', T8: 32, 30, 28, or 25 Watt		ED Electronic T8, T5, T5HO Dimming, Programmed Start ⁴				F0835 35K 78+CRI T8 Lamps Installed									
				ESD Electronic T8, 0.88 Ballast Factor, Step Dimming, Programmed Start				F0841 41K 78+CRI T8 Lamps Installed									
		54 4', T5HO: 54 or 51 Watt		ELW Electronic T8, 0.77 Ballast Factor, Low Wattage, Instant Start				F028830 30K 82CRI 28W T8 Lamps Installed ⁵									
				EHL Electronic T8, 1.18 Ballast Factor, High Wattage, Instant Start				F028835 35K 82CRI 28W T8 Lamps Installed ⁵									
				E104 Electronic T8, 1.04 Ballast Factor, Instant Start (N/A 1-Lamp)				F028841 41K 82CRI 28W T8 Lamps Installed ⁵									
				ESD104 Electronic T8, 1.04 Ballast Factor, Step Dimming, Programmed Start ³				F0H830 30K High Lumen T8 Lamps Installed									
				EP Electronic T5, T5HO, 1.0 Ballast Factor or T8, 0.88 Ballast Factor, Programmed Start				F0H835 35K High Lumen T8 Lamps Installed									
				EP104 Electronic T8, 1.04 Ballast Factor, Programmed Start				F0H841 41K High Lumen T8 Lamps Installed									
				EP95 Electronic T5, 0.95 Ballast Factor, Programmed Start (N/A T5HO, 1-Lamp)				F5830 30K 85CRI T5 or T5HO Lamps Installed									
				ESD95 Electronic T5, 0.95 Ballast Factor, Step Dimming, Programmed Start (N/A T5HO, 1-Lamp)				F5835 35K 85CRI T5 or T5HO Lamps Installed									
				EP115 Electronic T5, 1.15 Ballast Factor, Programmed Start (N/A T5HO, 1-Lamp)				F5841 41K 85CRI T5 or T5HO Lamps Installed									
				ESD115 Electronic T5, 1.15 Ballast Factor, Step Dimming, Programmed Start (N/A T5HO, 1-Lamp)				F5H830 30K High Lumen T5 Lamps Installed									
				ESD80 Electronic T5HO, 0.80 Ballast Factor, Step Dimming, Programmed Start (2-Lamp 54W only)				F5H835 35K High Lumen T5 Lamps Installed									
								F5H841 41K High Lumen T5 Lamps Installed									
ACCESSORIES (ORDER SEPARATELY)																	
FK24 2' x 4' Single Flange Kit																	
FKCR Flange Kit Row Adaptor																	
CM48Y2SC3F 48" Cable Mount Kit for 2' wide Cable Mount fixtures, 3 Wire																	
Damp Label - standard																	
¹ For drywall, order Flange Kit accessories separately																	
² Order hanger accessories separately																	
³ Not compatible with T8 25, 28 or 30 watt energy saving lamps																	
⁴ Where available																	
⁵ Not recommended for use with step or full dimming.																	
⁶ Not available with "A" air function																	
⁷ Not available with Surface Mount ceiling types.																	
⁸ In-Fixture Module Antenna adds 2" to overall fixture height at power feed location.																	
Protected by US Patents D603,999; D604,446; 7,901,105.																	
Protected by Canada Patent 136,279.																	
Additional Canada Patent Pending.																	
Specifications subject to change without notice.																	

Damp Label - standard

¹ For drywall, order Flange Kit accessories separately

² Order hanger accessories separately

³ Not compatible with T8 25, 28 or 30 watt energy saving lamps

⁴ Where available

⁵ Not recommended for use with step or full dimming.

⁶ Not available with "A" air function

⁷ Not available with Surface Mount ceiling types.

⁸ In-Fixture Module Antenna adds 2" to overall fixture height at power feed location.

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RECESSED ARCHITECTURAL / EPC24-2

PHOTOMETRIC DATA

LUMINAIRE DATA

Luminaire	EPC24-228G-DL e-poc™ Troffer Recessed 2' x 4' 2-lamp with two opal delta lenses
Ballast	B228PU95S50D
Ballast Factor	0.95
Lamp	F28T5
Lumens per Lamp	2600
Watts	60
Mounting	Recessed
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.27 90° = 1.34
Luminous Opening in Feet	Length: 3.86 Width: 1.88 Height: 0.00

AVG. LUMINANCE (Candela/Sq. M.)

	0.0	22.5	45.0	67.5	90.0
Average Luminance Angle					
0	2142	2142	2142	2142	2142
30	2114	2136	2175	2206	2220
40	2089	2120	2192	2279	2312
45	2073	2108	2211	2352	2417
50	2045	2095	2243	2476	2557
55	2004	2079	2325	2620	2723
60	1952	2068	2444	2753	2792
65	1874	2064	2587	2692	2671
70	1756	2116	2550	2468	2411
75	1582	2212	2321	2161	2103
80	1315	2093	1965	1811	1760
85	970	1583	1430	1259	1208

COEFFICIENTS OF UTILIZATION (%)

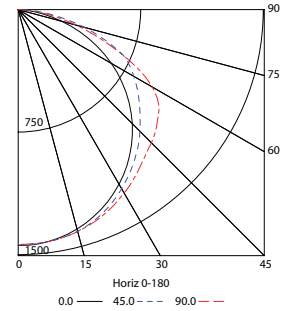
RC	80	70	50	30	10	70	50	30	10	50	30	10	0
RW	70	50	30	10	70	50	30	10	50	30	10	0	0
1	98	93	89	85	95	91	87	84	87	84	81	74	
2	88	80	74	68	86	79	73	67	75	70	66	61	
3	80	70	62	56	78	68	61	55	66	60	54	51	
4	73	62	53	47	71	60	53	47	58	51	46	43	
5	67	55	46	40	65	54	46	40	52	45	39	36	
6	62	49	41	35	60	48	40	34	47	39	34	32	
7	57	44	36	30	55	44	36	30	42	35	30	28	
8	53	40	32	27	51	40	32	27	38	32	27	25	
9	49	37	29	24	48	36	29	24	35	29	24	22	
10	46	34	27	22	45	34	27	22	33	26	22	20	

RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

Test 14980 Test Date 5/2/08

INDOOR CANDELA PLOT



ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1143	22.0	24.4
0-40	1898	36.5	40.4
0-60	3529	67.9	75.2
0-90	4693	90.3	100.0
0-180	4693	90.3	100.0

ENERGY DATA

Total Luminaire Efficiency	90.3%
Luminaire Efficacy Rating (LER)	74
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.24 based on 3000 hrs. and \$0.08 per KWH

LUMINAIRE DATA

Luminaire	EPC24-232G-DL e-poc™ Troffer Recessed 2' x 4' 2-lamp with two opal shield lenses
Ballast	B232IUNV104-A
Ballast Factor	1.04
Lamp	F28T8
Lumens per Lamp	2750
Watts	56
Mounting	Recessed
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.24 90° = 1.37
Luminous Opening in Feet	Length: 3.86 Width: 1.88 Height: 0.00

AVG. LUMINANCE (Candela/Sq. M.)

	0.0	22.5	45.0	67.5	90.0
Average Luminance Angle					
0	2235	2235	2235	2235	2235
30	2165	2209	2290	2360	2376
40	2109	2184	2327	2453	2490
45	2073	2167	2352	2511	2559
50	2028	2148	2381	2580	2644
55	1978	2128	2423	2666	2752
60	1910	2109	2474	2756	2789
65	1832	2095	2555	2601	2534
70	1722	2099	2450	2246	2155
75	1565	2126	2132	1914	1840
80	1341	1999	1811	1649	1597
85	1055	1600	1430	1276	1225

COEFFICIENTS OF UTILIZATION (%)

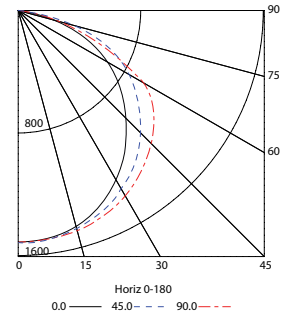
RC	80	70	50	30	10	70	50	30	10	50	30	10	0
RW	70	50	30	10	70	50	30	10	50	30	10	0	0
1	95	90	86	83	92	88	85	82	85	82	79	72	
2	86	78	72	67	83	76	71	66	73	69	64	60	
3	78	68	61	55	76	67	60	54	64	58	53	50	
4	71	60	52	46	69	59	52	46	57	50	45	42	
5	65	53	45	39	63	52	45	39	51	44	39	36	
6	60	48	40	34	58	47	40	34	46	39	34	31	
7	56	43	36	30	54	43	35	30	41	35	30	27	
8	52	39	32	27	50	39	32	27	38	31	26	24	
9	48	36	29	24	47	36	29	24	35	28	24	22	
10	45	33	26	22	44	33	26	21	32	26	21	20	

RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

Test 15035 Test Date 6/19/08

INDOOR CANDELA PLOT



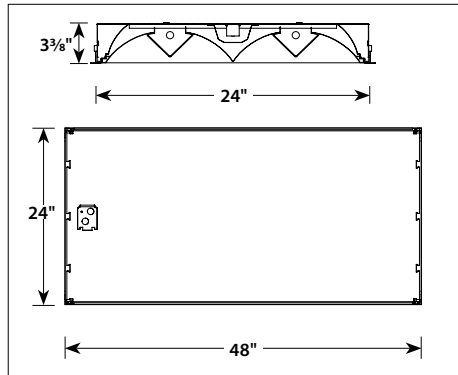
ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1198	21.8	24.9
0-40	1993	36.2	41.5
0-60	3680	66.9	76.6
0-90	4803	87.3	100.0
0-180	4803	87.3	100.0

ENERGY DATA

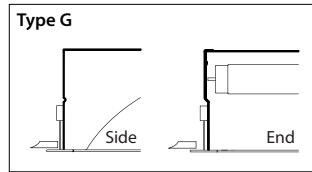
Total Luminaire Efficiency	87.3%
Luminaire Efficacy Rating (LER)	89
IESNA RP-1-2004 Compliance	Non-Compliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$2.70 based on 3000 hrs. and \$0.08 per KWH

DIMENSIONAL DATA

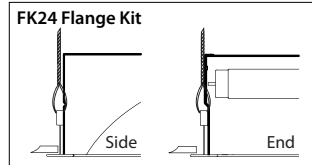


NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.

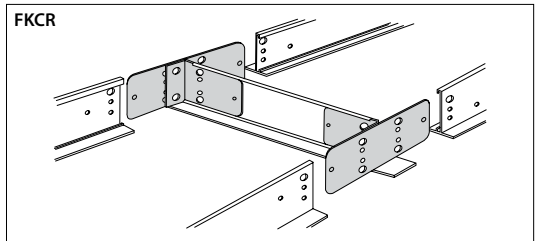
CEILING COMPATIBILITY



For lay-in installation in exposed grid ceilings. Maximum tee widths of 1" and maximum tee heights of 2" allowed.



For hard ceiling applications, order FK24 flange kit. Flange kit wires directly into concealed ceiling opening for a clean, finished appearance.

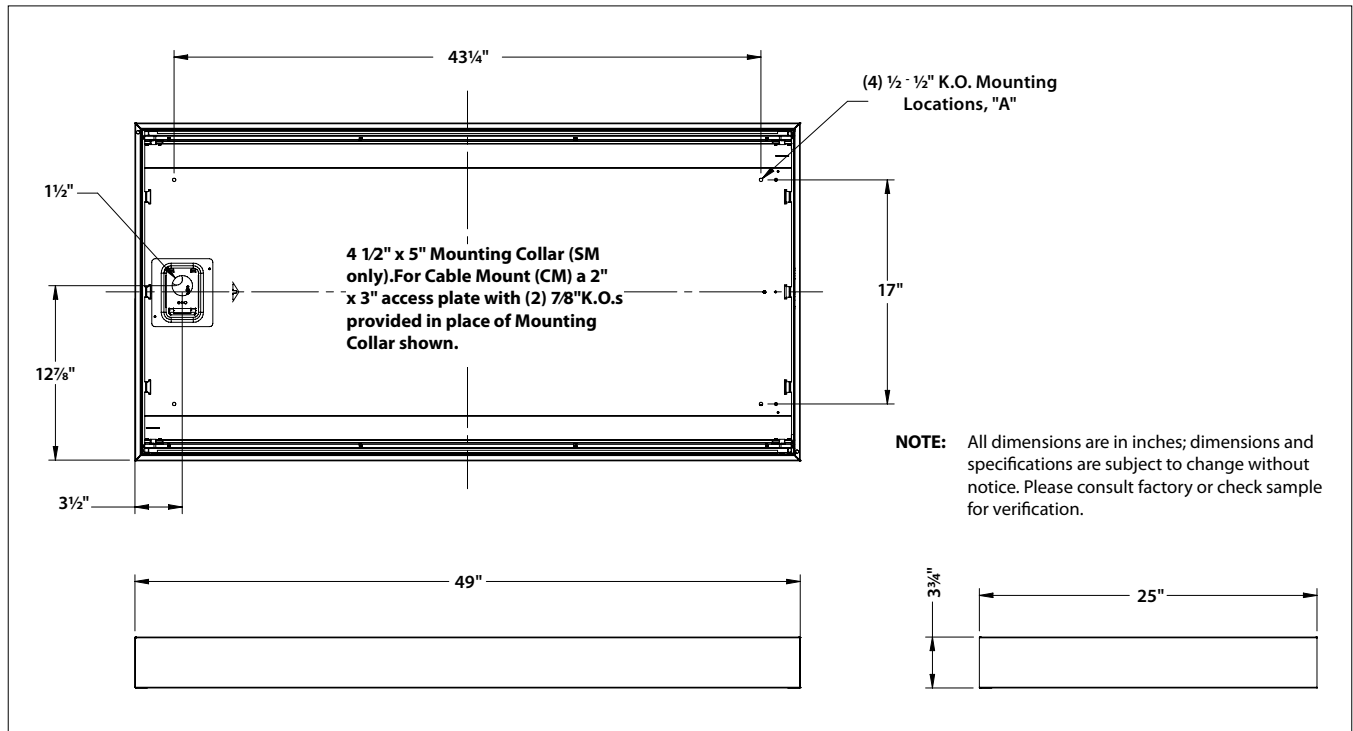


For flanged fixtures in row configurations, the FKCR adapter bracket kit is required in addition to the FK24 kit. Order one less FKCR than the total number of fixtures in row. (Example: Row of two, order (2) FK24 & (1) FKCR)

Row cut out dimensions using FK24s & FKCR adapters:
Width 24 3/8", Length [48" x (# in row)] + 3/8".
Example: (48" x 2) + 3/8" = 96 3/8"

Flange kit cut out dimension for single unit only: 24 3/8" x 48 3/8"

DIMENSIONAL DATA - SURFACE OR CABLE MOUNT



CABLE MOUNT

Order CM ceiling type. Access plate supplied for cable mounting or suspension. Use CM48Y2C3F-KIT 48" cable mount kit. Includes 3 wire feed cord. For other wiring needs, contact Hubbell representative. Mounting knock-outs, 1/4" to 1/2", provided as shown, marked "A".

SURFACE MOUNT

Order SM ceiling type. Mounting collar required for surface mounting. (4) Mounting knock outs, 1/4" to 1/2" provided as shown, marked "A".

Mounting Collar Text

4 1/2" x 5" Mounting Collar (SM only). For Cable Mount (CM) a 2" x 3" access plate with (2) 7/8" K.O.s provided in place of Mounting Collar shown.