

FEATURES

- Both T5 and T8 optical systems available
- 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
- Typically qualifies for EPC Act tax deductions
- 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
- Available with exclusive wiHUBB technology preinstalled
 - Peer to peer, self-healing wireless mesh network
 - Integrated control system for 0-10VDC or step dimming, or On/Off

PROJECT INFORMATION

Project Name _____

Type _____

Catalog No. _____

Date _____

CONSTRUCTION

Luminaire housing, end caps, and reflectors are die-formed code-gauge cold-rolled 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.

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, Class P, high power factor, sound rated A, magnetic or electronic ballasts. 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

Luminaire is available to fit exposed grid ceilings, or hard ceilings when a flange kit is ordered. Some options may increase fixture depth. For information on compatibility with specific ceilings, or where plenum depth is a problem, contact your Columbia Lighting representative. Four integral T-bar clips are standard.

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 SM Surface Mount For hard ceilings use flange kit.	DL Delta Profile SH Shield Profile	Blank Static A Air Return Side Slots	U 120V-277V 347 347V ²	C388 3-Wire Flex C488 4-Wire Flex C588 5-Wire Flex EL Emergency Battery Pack GLR Fast Blow Fuse GMF Slow Blow Fuse NYC NYC Compliant NYCU NYC Compliant, Union Label WIH wiHUBB Enabled ⁵				
SIZE	LAMP TYPE	BALLAST			LAMPS					
24 2' x 4'	28 4', T5: 28 Watt 32 4', T8: 32, 30, 28, or 25 Watt 54 4', T5HO: 54 or 51 Watt	E Electronic T8, 0.88 Ballast Factor, Instant Start ED Electronic T8, T5, T5HO Dimming, Programmed Start ² ESD Electronic T8, 0.88 Ballast Factor, Step Dimming, Programmed Start ¹ ELW Electronic T8, 0.77 Ballast Factor, Low Wattage, Instant Start EHL Electronic T8, 1.18 Ballast Factor, High Wattage, Instant Start E104 Electronic T8, 1.04 Ballast Factor, Instant Start (N/A 1-Lamp) ⁴ ESD104 Electronic T8, 1.04 Ballast Factor, Step Dimming, Programmed Start ^{1,4} EP104 Electronic T8, 1.04 Ballast Factor, Programmed Start ⁴ EP Electronic T5, T5HO, 1.0 Ballast Factor or T8, 0.88 Ballast Factor, Programmed Start EP95 Electronic T5, 0.95 Ballast Factor, Programmed Start (N/A T5HO, 1-Lamp) ESD95 Electronic T5, 0.95 Ballast Factor, Step Dimming, Programmed Start (N/A T5HO, 1-Lamp) EP115 Electronic T5, 1.15 Ballast Factor, Programmed Start (N/A T5HO, 1-Lamp) ESD115 Electronic T5, 1.15 Ballast Factor, Step Dimming, Programmed Start (N/A T5HO, 1-Lamp) ESD80 Electronic T5HO, 0.80 Ballast Factor, Step Dimming, Programmed Start (2-Lamp 54W only)			F0730 30K 75CRI T8 Lamps Installed F0735 35K 75CRI T8 Lamps Installed F0741 41K 75CRI T8 Lamps Installed F0830 30K 82CRI T8 Lamps Installed F0835 35K 82CRI T8 Lamps Installed F0841 41K 82CRI T8 Lamps Installed PLUS30 30K 82CRI 28W T8 Lamps Installed ³ PLUS35 35K 82CRI 28W T8 Lamps Installed ³ PLUS41 41K 82CRI 28W T8 Lamps Installed ³ FOH830 30K High Lumen T8 Lamps Installed FOH835 35K High Lumen T8 Lamps Installed FOH841 41K High Lumen T8 Lamps Installed F5830 30K 85CRI T5 or T5HO Lamps Installed F5835 35K 85CRI T5 or T5HO Lamps Installed F5841 41K 85CRI T5 or T5HO Lamps Installed F5H830 30K High Lumen T5 Lamps Installed 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

Damp Label - standard
¹ Not compatible with T8 25, 28, or 30 watt energy savings lamps.
² Where available.
³ Not recommended for use with step or full dimming.
⁴ For e-poc Plus, order "-PlusXX" lamps under "Options."
⁵ Not available with Surface Mount Ceiling Types
 Protected by US Patents D603,999; D604,446.
 Additional US and Canada Patents Pending.
 Specifications subject to change without notice.
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PHOTOMETRIC DATA

LUMINAIRE DATA

Luminaire	EPC24-228G-DL e-poc™ Troffer Recessed 2' x 4' 2-lamp with two opal delta lenses
Ballast	B228PU95550D
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

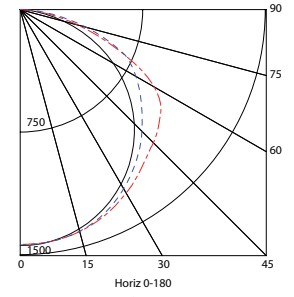
AVG. LUMINANCE (Candela/Sq. M.) COEFFICIENTS OF UTILIZATION (%)

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

RCR	80					70					50					0								
	RW	70	50	30	10	RW	70	50	30	10	RW	70	50	30	10	RW	70	50	30	10				
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												

Test 14980 Test Date 5/2/08

INDOOR CANDELA PLOT



RCR = Room Cavity Ratio
RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

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

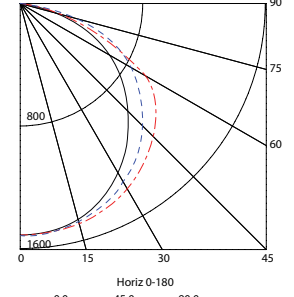
AVG. LUMINANCE (Candela/Sq. M.) COEFFICIENTS OF UTILIZATION (%)

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

RCR	80					70					50					0								
	RW	70	50	30	10	RW	70	50	30	10	RW	70	50	30	10	RW	70	50	30	10				
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												

Test 15035 Test Date 6/19/08

INDOOR CANDELA PLOT



RCR = Room Cavity Ratio
RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

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
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