



FEATURES

- Attractive fluorescent architectural recessed luminaire
- Precision optical design produces high efficiency in a high visual comfort architecturally styled direct/indirect distribution
- Available for use with T8, T5 or T5HO linear fluorescent lamps
- Custom perforated metal basket is backed by a high transmission lamp obscuring overlay
- Optimized coating process and unique paint formulation provide exceptional reflectivity in a matte finish for a soft visual image and balanced basket and reflector illumination
- Completely recessed, provides a clean ceiling with uniform illumination at mounting heights as low as 8 feet
- Optional acrylic dust guard pivots to seal lamp compartment against contaminants especially for schools, medical facilities and public spaces
- Recessed, surface or cable mount

PROJECT INFORMATION

Project Name _____

Type _____

Catalog No. _____

Date _____

CONSTRUCTION

Luminaire housing and end caps are die formed code gauge cold rolled steel. The sturdy reflector is stiffened with linear forms, profiled to a precision curve. Perforated basket with high transmission overlay for improved optical efficiency plus lamp obscuration. Basket and all reflective surfaces are finished after fabrication with unique formula high reflectivity matte white paint for soft, uniform indirect illumination.

Thermoplastic light traps snap into the housing at both ends of the basket to prevent light leaks. Basket hinges down for easy access to center wireway.

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. Fixtures with two ballasts or emergency-equipped fixtures may require using end wireway access.

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.

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 plane (SM) or cable mount suspension below ceiling plane (CM). For type SG ceilings order G trim. Fixture will be regressed 3/8" from the face of the ceiling tee. For compatibility with specific ceilings contact your Hubbell Lighting representative. Four integral T-bar clips are located in the end caps. Contact your Columbia representative for compatibility information for specific ceiling types or for continuous row applications in hard ceilings.

CERTIFICATION

All luminaires are built to UL 1598 standards and bear appropriate UL and cUL or CSA labels. Damp location labeling is standard. Emergency-equipped fixtures labeled UL 924.

ORDERING INFORMATION

EXAMPLE STE24-232G-MPO-EU

STE	24	-	2	32	-	MPO	-	-	-
MODEL	NO. OF LAMPS		CEILING TYPE		SHIELDING		VOLTAGE		OPTIONS
STE Stratus® E-Series Recessed Indirect	2 Two		G Grid ¹ SM Surface Mount CM Cable Mount ²	MPO Metal Perf w/Overlay		U 120V-277V 347 347V		C388 3-Wire Flex C488 4-Wire Flex C588 5-Wire Flex EL T8 Emergency Battery Pack, 350-450 Lumens DG Dust Guard Clear Acrylic GLR Fast Blow Fuse GMF Slow Blow Fuse CP Chicago Plenum	
SIZE	LAMP TYPE		BALLAST						
24 2' x 4'	32 4', T8: 32, 30, 28 or 25 Watt		E Electronic T8, Instant Start ED Electronic Dimming T8 and T5 (specify series) EP Electronic T5, T5HO, or T8, Programmed Start						

- ACCESSORIES (ORDER SEPARATELY)**
- FK24** 2' x 4' Single Flange Kit (Shipped separately)
 - FKCR** Flange Kit Row Adapter
 - CM48Y2Sc3F** 48" Cable Mount Kit for 2' wide Cable Mount fixtures, 3 Wire

¹ For drywall, order Flange Kit accessories separately.
² Order hanger accessories separately



Test ITL65806 Test Date 8/24/10

PHOTOMETRIC DATA

LUMINAIRE DATA

Luminaire	STE24-232G-MPO-EU Stratus, Recessed/Architectural 2 x 4 2-lamp with perforated metal basket and opal overlay
Ballast	B232IUNHP-B
Ballast Factor	0.88
Lamp	F28T8
Lumens per Lamp	2750
Watts	49
Shielding Angle	0° = 0 90° = 0
Spacing Criterion	0° = 1.23 90° = 1.30
Luminous Opening in Feet	Length: 3.93 Width: 1.88 Height: 0.00

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1211	22.0	26.6
0-40	1990	36.2	43.8
0-60	3561	64.7	78.4
0-90	4543	82.6	100.0
0-180	4543	82.6	100.0

ENERGY DATA

Total Luminaire Efficiency	82.6%
Luminaire Efficacy Rating (LER)	82
IESNA RP-1-1993 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$2.93 based on 3000 hrs. and \$0.08 per KWH

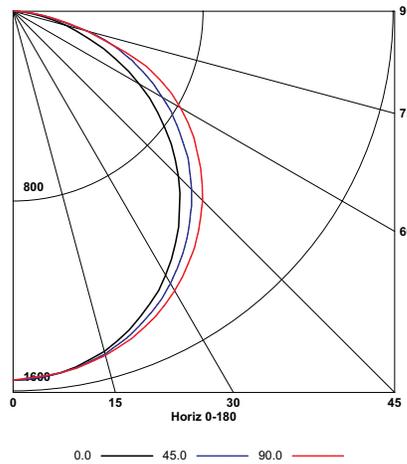
COEFFICIENTS OF UTILIZATION (%)

RCR	RW	80				70				50				0
		70	50	30	10	70	50	30	10	50	30	10	0	
1	90	86	82	79	88	84	81	78	80	78	75	69		
2	81	75	69	64	79	73	68	63	70	66	62	57		
3	74	65	59	53	72	64	58	53	62	56	52	48		
4	68	58	50	45	66	57	50	45	55	49	44	41		
5	62	52	44	38	61	51	44	38	49	43	38	35		
6	57	46	39	33	56	46	38	33	44	38	33	31		
7	53	42	35	30	52	41	34	29	40	34	29	27		
8	50	38	31	26	48	38	31	26	37	30	26	24		
9	46	35	28	24	45	35	28	24	34	28	23	22		
10	43	32	26	21	42	32	26	21	31	25	21	20		

RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

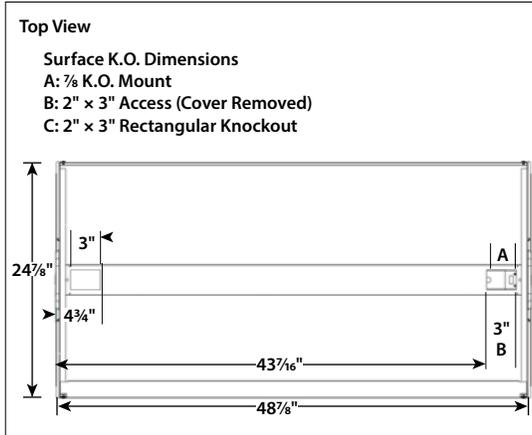
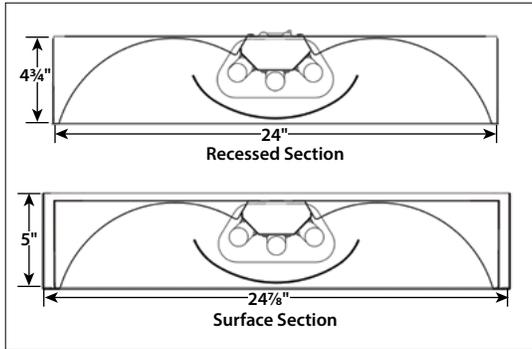
INDOOR CANDELA PLOT



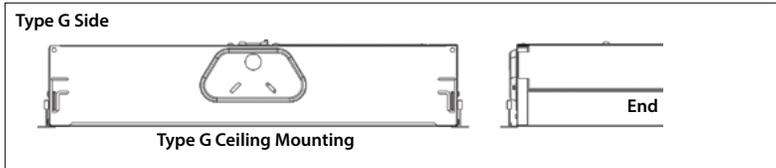
AVG. LUMINANCE (Candela/Sq. M.)

	0.0	22.5	45.0	67.5	90.0
0	2265	2265	2265	2265	2265
30	2160	2177	2229	2274	2288
40	2071	2124	2200	2284	2307
45	2027	2081	2190	2289	2324
50	1970	2038	2178	2296	2337
55	1887	1984	2144	2296	2360
60	1786	1906	2115	2305	2372
65	1641	1834	2079	2317	2348
70	1448	1729	2028	2198	2134
75	1306	1610	1846	1790	1807
80	1057	1393	1376	1485	1493
85	752	886	1036	1137	1103

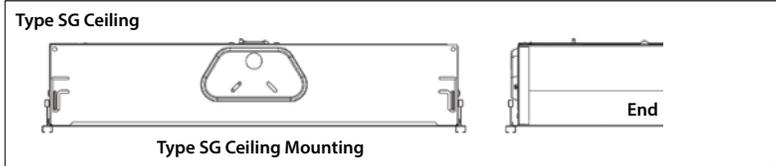
DIMENSIONAL DATA



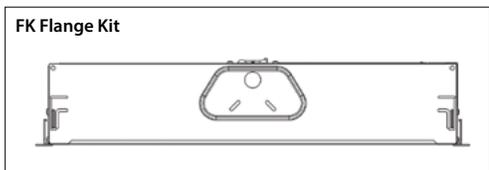
CEILING COMPATIBILITY



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



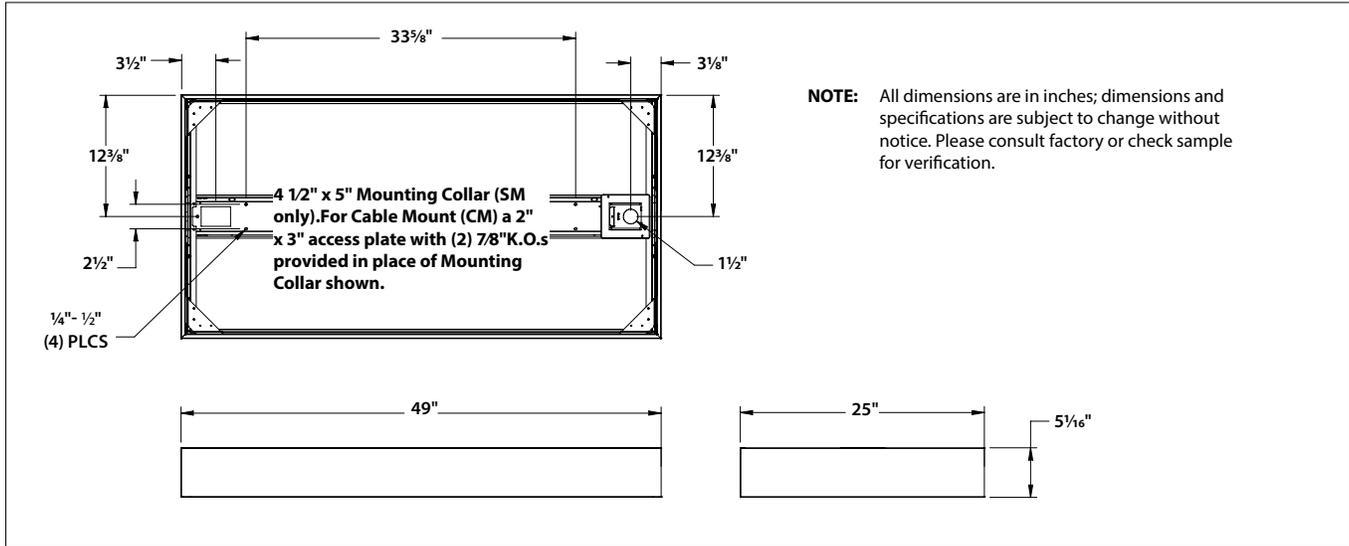
For 9/16" slot grid type ceilings. Luminaire will be regressed 3/8" horizontal surface of the tee.



For hard ceiling applications, fixtures must be ordered with a flange kit that wires directly into the concealed ceiling opening for a clean finished appearance. For row configurations contact your local Columbia Representative.

Flange kit cut out dimension for single FK24 only: 24 3/8" x 48 3/8"

DIMENSIONAL DATA - SURFACE OR CABLE MOUNT



SURFACE MOUNT

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

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".