

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
- Companion Louvered (STEL), side basket (STS) and pendant (STP) models available
- Recessed, surface or cable mount
- 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 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. T-bar clips are supplied with all grid trim fixtures. 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 STE14-232G-MPO-EU

STE	14			MPO			
MODEL	NO. OF LAMPS IN CROSS SECTION	CEILING TYPE	SHIELDING	VOLTAGE	OPTIONS		
STE Stratus® E-Series Recessed Indirect	1 One 2 Two 3 Three	G Grid ¹ SM Surface Mount CM Cable Mount ²	MPO Metal Perf w/Overlay	U 120V-277V 347 347V	C388 Wire Flex C488 Wire Flex C588 Wire Flex EL Emergency Battery Pack, 350-450 Lumens EL5 Emergency Battery Pack, T5, 390-700 Lumens DG Dust Guard Clear Acrylic GLR Fast Blow Fuse GMF Slow Blow Fuse NYC NYC Compliant NYCU NYC Compliant, Union Label WIH wiHUBB Enabled ^{3,4} CP Chicago Plenum		
SIZE	LAMP TYPE	BALLAST					
14 1' 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, Instant Start ED Electronic Dimming, T8 and T5 EP Electronic T5, T5HO or T8, Programmed Start					
ACCESSORIES (ORDER SEPARATELY)							
FK14 1' x 4' Single Flange Kit FKCR Flange Kit Row Adaptor CM 48Y15C3F 48" Cable Mount Kit for 1' wide Cable Mount fixtures, 3 Wire							

¹ For drywall, order Flange Kit accessories separately.
² Order hanger accessories separately.
³ Not available with Surface Mount ceiling types
⁴ In-Fixture Module Antenna adds 2" to overall fixture height at power feed location



PHOTOMETRIC DATA

Test 3849 Test Date 2/4/11

LUMINAIRE DATA

Luminaire	STE14-232G-MPO-EU STE Stratus® E-Series, Recessed Architectural 1 x 4 2-lamp with perforated metal basket and opal overlay
Ballast	B232IUNVHP-B
Ballast Factor	0.88
Lamp	F28T8
Lumens per Lamp	2725
Watts	47
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.23 90° = 1.21
Luminous Opening in Feet	Length: 4.00 Width: 0.92 Height: 0.00

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1137	20.9	29.1
0-40	1842	33.8	47.2
0-60	3164	58.1	81.1
0-90	3903	71.6	100.0
0-180	3903	71.6	100.0

ENERGY DATA

Total Luminaire Efficiency	71.6%
Luminaire Efficacy Rating (LER)	73
IESNA RP-1-1993 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.29 based on 3000 hrs. and \$0.08 per KWH

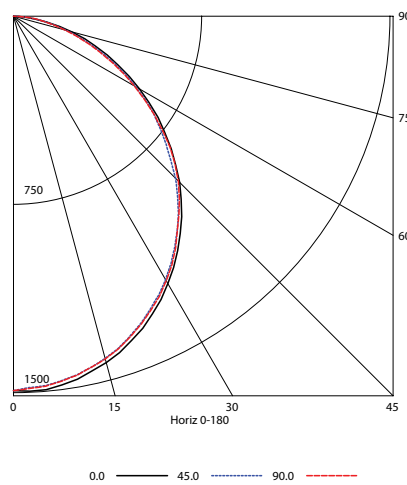
COEFFICIENTS OF UTILIZATION (%)

RCR	RC	RW											
		80			70			50			0		
		70	50	30	10	70	50	30	10	50	30	10	0
1	78	75	72	69	76	73	70	68	70	68	66	60	60
2	71	65	61	57	69	64	60	56	62	58	55	51	51
3	65	58	52	47	63	57	51	47	54	50	46	43	43
4	60	51	45	40	58	50	45	40	48	43	40	37	37
5	55	46	40	35	53	45	39	35	44	38	34	32	32
6	51	41	35	31	49	41	35	30	39	34	30	28	28
7	47	38	31	27	46	37	31	27	36	31	27	25	25
8	44	34	28	24	43	34	28	24	33	28	24	22	22
9	41	32	26	22	40	31	26	22	30	25	22	20	20
10	39	29	24	20	38	29	23	20	28	23	20	18	18

RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

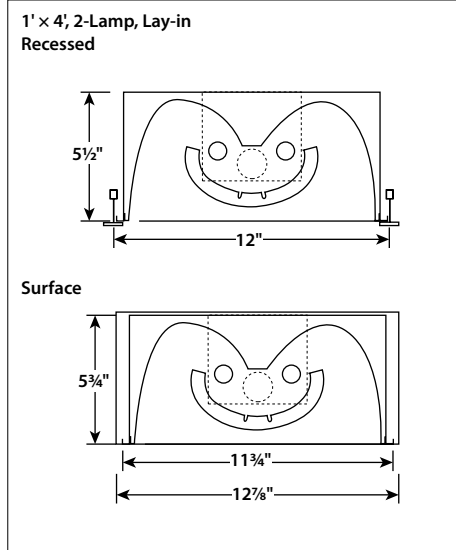
INDOOR CANDELA PLOT



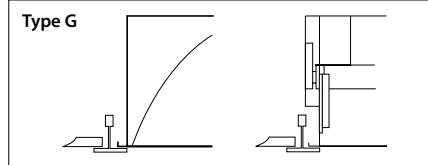
AVG. LUMINANCE (Candela/Sq. M.)

Average Luminance Angle	0.0	22.5	45.0	67.5	90.0
0	4361	4361	4361	4361	4361
30	4151	4114	4087	4104	4107
40	3979	3914	3902	3898	3914
45	3872	3789	3773	3814	3843
50	3731	3640	3613	3704	3709
55	3585	3473	3488	3514	3493
60	3387	3264	3305	3270	3253
65	3177	2997	3066	3018	2983
70	2968	2771	2797	2720	2685
75	2712	2486	2475	2418	2396
80	2274	2173	2173	2139	2139
85	1510	1913	2114	2114	2114

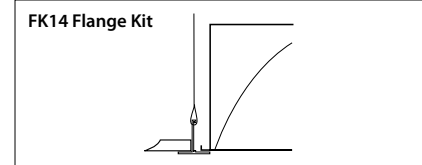
DIMENSIONAL DATA



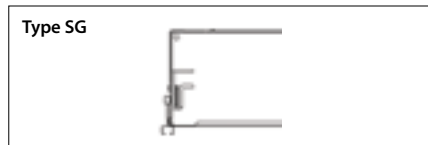
CEILING COMPATIBILITY



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

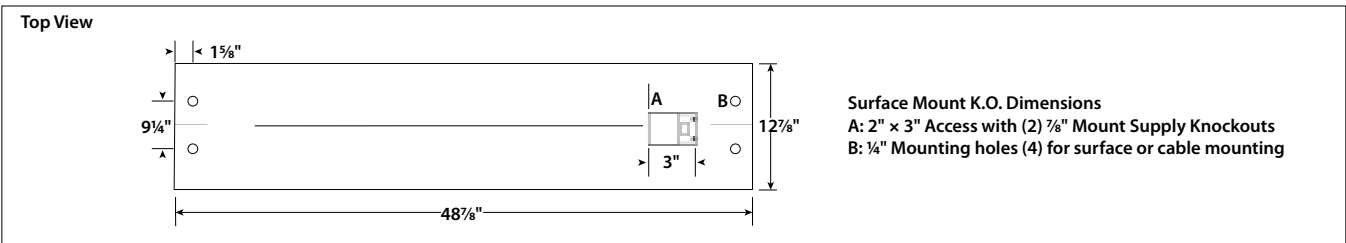


For hard ceiling applications, fixtures must be ordered with a flange kit that wires directly into the concealed ceiling opening for a clean finished appearance. For row configurations contact your local Columbia Representative.



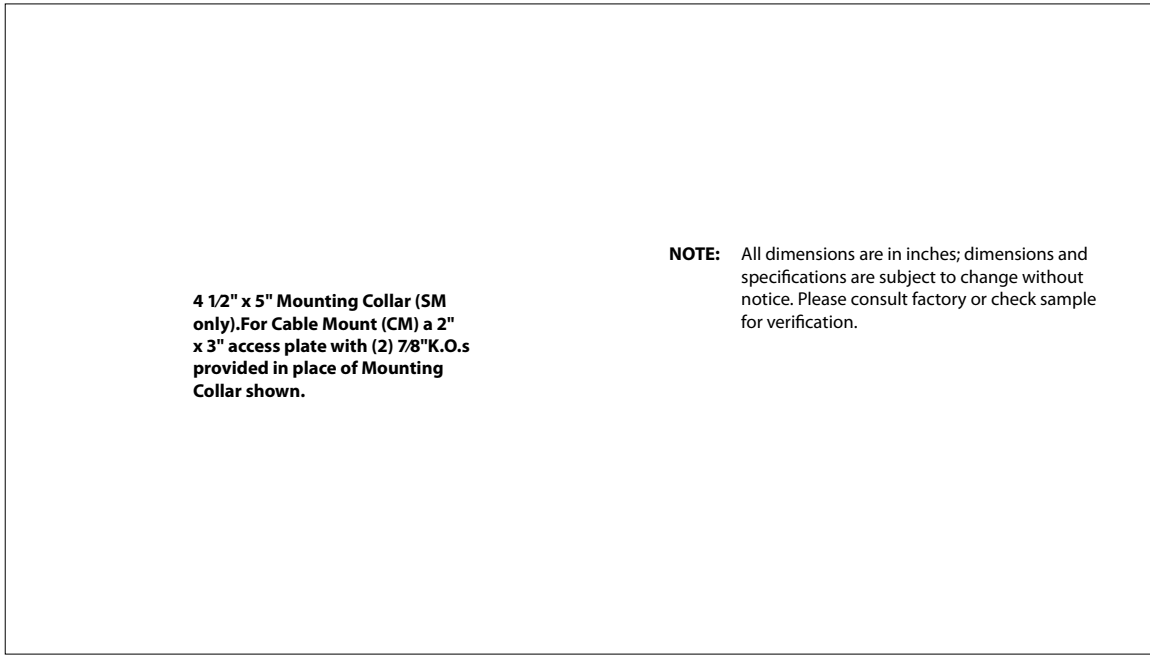
For 9/16" slot grid type ceilings. Luminaire will be recessed 3/8" horizontal surface of the tee.

Flange kit cut out dimension for single FK14 only: 12 3/8" x 48 3/8"



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

DIMENSIONAL DATA - SURFACE OR CABLE MOUNT



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".

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".