

**FEATURES**

- Precision optical design produces high efficiency in a high visual comfort architecturally styled direct/indirect distribution
- Custom perforated metal basket with 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
- Available for use with T8, T5 or T5HO linear fluorescent lamps
- 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
- 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 luminaire for fast wiring access from the plenum. No need to open fixture.

**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.

**CEILING COMPATIBILITY**

NEC-compliant T-Bar clips supplied with all grid trim fixtures. See ceiling details on reverse. For type SG ceilings order G trim. Fixture will be regressed 3/8" from the face of the ceiling tee. For hard ceilings order G trim and FK flange accessory. Assemble then support FK accessory at the ceiling plane using tie wires (by others). 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**

<b>STE</b>	<b>14</b>			<b>MPO</b>			
<b>MODEL</b>	<b>NO. OF LAMPS IN CROSS SECTION</b>	<b>CEILING TYPE</b>	<b>SHIELDING</b>	<b>VOLTAGE</b>	<b>OPTIONS</b>		
STE Stratus® E-Series Recessed Indirect	1 One 2 Two 3 Three	G Grid Lay-in SM Surface Mount	MPO Metal Perf w/Overlay	U 120V-277V 347 347V	GLR Fast Blow Fuse GMF Slow Blow Fuse EL Emergency Battery Pack EL5 Emergency Battery Pack, T5 DG Dust Guard Clear Acrylic NYC NYC Compliant NYCU NYC Compliant, Union Label WIH wiHUBB Enabled <sup>1</sup>		
<b>SIZE</b>	<b>LAMP TYPE</b>	<b>BALLAST</b>					
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

<sup>1</sup> Not available with Surface Mount Ceiling Types



### 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

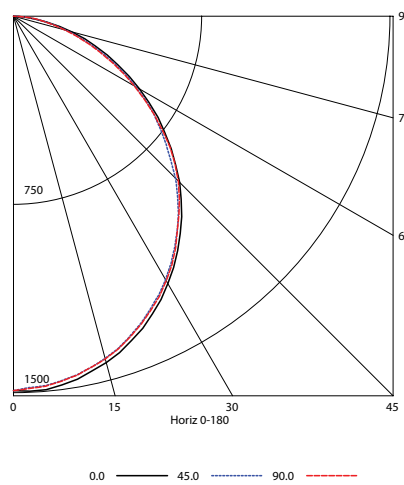
#### COEFFICIENTS OF UTILIZATION (%)

RCR	80				70				50				0
	RW	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

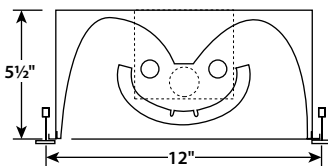


#### AVG. LUMINANCE (Candela/Sq. M.)

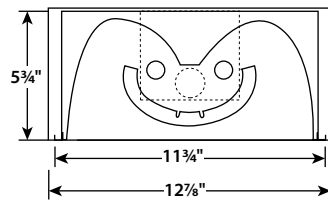
Average Luminance Angle	0.0	22.5	45.0	67.5	90.0
0	4361	4361	4361	4361	4361
30	4151	4114	4087	4104	4107
40	3979	3914	3902	3898	3914
45	3872	3789	3773	3814	3843
50	3731	3640	3613	3704	3709
55	3585	3473	3488	3514	3493
60	3387	3264	3305	3270	3253
65	3177	2997	3066	3018	2983
70	2968	2771	2797	2720	2685
75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

#### DIMENSIONAL DATA

1' x 4', 2-Lamp, Lay-in Recessed

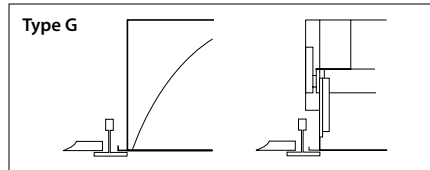


Surface



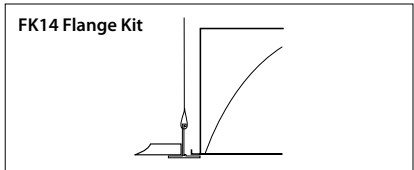
#### CEILING COMPATIBILITY

Type G



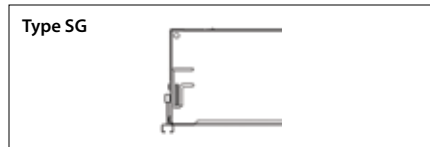
For lay-in installation in exposed grid ceilings. Maximum tee widths of 1" and maximum heights of 1 1/2" allowed.

FK14 Flange Kit



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.

Type SG



For 5/8" slot grid type ceilings. Luminaire will be regressed 3/8" horizontal surface of the tee. Slot grid tees must be field installed all around the fixture.

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

Top View



Surface Mount K.O. Dimensions

A: 2" x 3" Access with (2) 5/8" Mount Supply Knockouts  
B: 1/4" Mounting holes (4) for surface or cable mounting

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