

**FEATURES**

- Precision optical design produces high efficiency in a high visual comfort architecturally styled direct/indirect distribution
- 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
- 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

**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 STE24-232G-MPO-EU**

<b>STE</b>	<b>24</b>	<b>2</b>	<b>MPO</b>	<b>U</b>	<b>GLR</b>
<b>MODEL</b>	<b>NO. OF LAMPS</b>	<b>CEILING TYPE</b>	<b>SHIELDING</b>	<b>VOLTAGE</b>	<b>OPTIONS</b>
STE Stratus E-Series Recessed Indirect	2 Two	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
<b>SIZE</b>	<b>LAMP TYPE</b>	<b>BALLAST</b>	<b>ACCESSORIES (ORDER SEPARATELY)</b>		
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, Instant Start ED Electronic Dimming T8 and T5 (specify series) EP Electronic T5, T5HO, or T8, Programmed Start	<b>FK24</b> 2' x 4' Single Flange Kit (Shipped separately)		

**PHOTOMETRIC DATA**

Test ITL65806 Test Date 8/24/10

**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

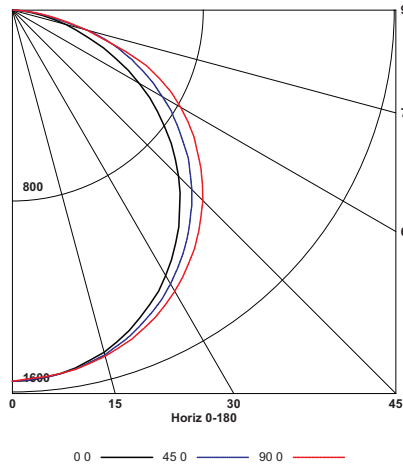
**COEFFICIENTS OF UTILIZATION (%)**

RCR	RW	80			70			50			0		
		70	50	30	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

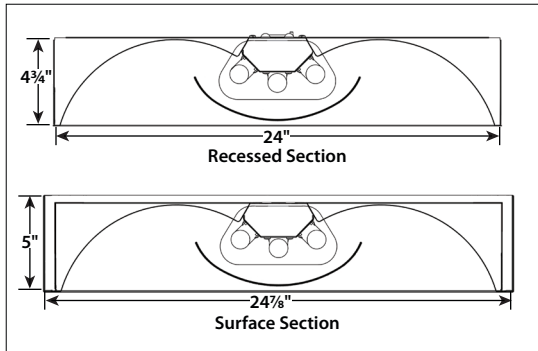
**INDOOR CANDELA PLOT**



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

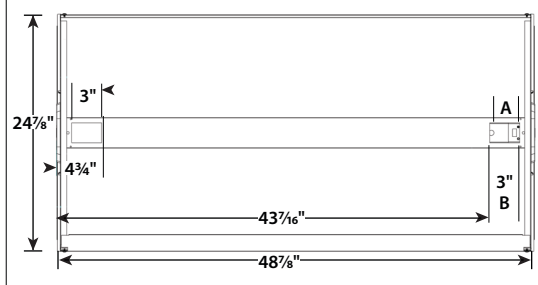
Average Luminance Angle	0.0	22.5	45.0	67.5	90.0
0	2265	2265	2265	2265	2265
30	2160	2177	2229	2274	2288
40	2071	2124	2200	2284	2307
45	2027	2081	2190	2289	2324
50	1970	2038	2178	2296	2337
55	1887	1984	2144	2296	2360
60	1786	1906	2115	2305	2372
65	1641	1834	2079	2317	2348
70	1448	1729	2028	2198	2134
75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

**DIMENSIONAL DATA**



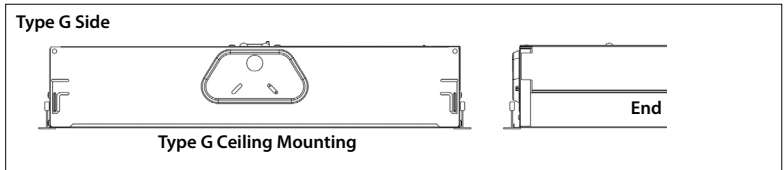
**Top View**

Surface K.O. Dimensions  
**A:** 7/8" K.O. Mount  
**B:** 2" x 3" Access (Cover Removed)  
**C:** 2" x 3" Rectangular Knockout

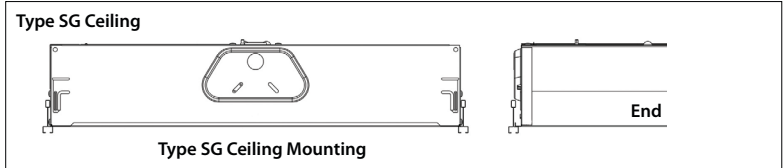


**NOTE:** All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.

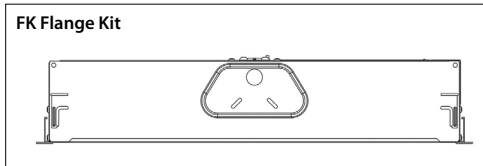
**CEILING COMPATIBILITY**



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



For 3/8" 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.



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 FK22 only: 24 3/8" x 48 3/8"**