

WCB Shown



**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 guards pivot to close lamp compartment against contaminants especially for schools, medical facilities and public spaces
- Companion center basket (STE), 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. Choice of open straight blade baffle or aluminum parabolic insert in perforated basket with high transmission overlay for improved optical efficiency plus lamp obscuration. Perforated panels, white steel cross baffle and all reflective surfaces are finished after fabrication with unique formula high reflectivity matte white paint for soft, uniform indirect illumination.

Cross baffle designs feature thermoplastic light traps that snap into the housing at both ends of the basket to prevent light leaks. Basket hinges down for easy access to center wireway. Parabolic styles feature spring steel louver retainer.

**INSTALLATION**

An access plate is furnished with each luminaire for fast wiring access from the plenum. No need to open fixture. Fixtures with two ballasts or emergency-equipped fixtures may require using end wireway access.

**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 STEL22-317G-WCBMPO-3EPU**

MODEL	NO. OF LAMPS	CEILING TYPE	SHIELDING	VOLTAGE	OPTIONS
STEL Stratus® E-Series Center Louver Recessed Indirect	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 DG Dust Guard NYC NYC Compliant NYCU NYC Compliant, Union Label WIH wiHUBB Enabled <sup>1</sup>
SIZE	LAMP TYPE	LOUVER TYPE	BALLAST		
22 2' x 2'	14 2', T5: 14 Watt 17 2', T8: 17 Watt 24 2', T5HO: 24 Watt	<b>High Efficiency (H)*</b> HLS Low Iridescent Specular HMA Matte Anodized Low Iridescent Semi-Specular <b>White Steel Cross Baffle</b> WCB White Cross Baffle WPB White Perforated Cross Baffle WCBO White Cross Baffle with Baffle Overlay WPBO White Perforated Cross Baffle with Baffle Overlay	E Electronic T8, Instant Start ED Electronic Dimming T8 and T5 EP Electronic T5, T5HO, or T8, Programmed Start 3E 3-Lamp Electronic T8, Programmed Start 3EP 3-Lamp Electronic T5, T5HO, or T8 Programmed Start		

\*Not available in 3-Lamp TT cross section

**ACCESSORIES (ORDER SEPARATELY)**  
FK22 2' x 2' Single Flange Kit (Shipped separately)

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



## PHOTOMETRIC DATA

Test 3486 Test Date 9/17/10

### LUMINAIRE DATA

Luminaire	STEL22-317G-WPBMPO Stratus, Recessed/Architectural 2 x 2 2-lamp with white perforated cross ballfe and perforated metal sides with opal overlays
Ballast	ICN-3P32-SC
Ballast Factor	0.92
Lamp	F17T8
Lumens per Lamp	1325
Watts	42
Shielding Angle	0° = 0 90° = 0
Spacing Criterion	0° = 1.15 90° = 1.45
Luminous Opening in Feet	Length: 1.92 Width: 1.92 Height: 0.00

### ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	741	18.6	27.3
0-40	1229	30.9	45.2
0-60	2188	55.1	80.6
0-90	2717	68.3	100.0
0-180	2717	68.3	100.0

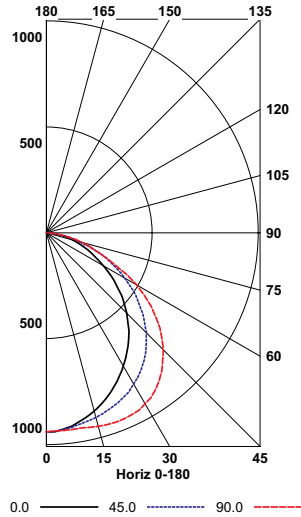
### ENERGY DATA

Total Luminaire Efficiency	68.3%
Luminaire Efficacy Rating (LER)	59
IESNA RP-1-1993 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$4.07 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	74	71	68	66	73	70	67	65	67	65	63	58	
2	68	62	58	54	66	61	57	53	59	55	52	48	
3	62	55	49	45	60	54	48	44	52	47	44	41	
4	57	48	42	38	55	48	42	38	46	41	37	35	
5	52	43	37	33	51	42	37	32	41	36	32	30	
6	48	39	33	28	47	38	32	28	37	32	28	26	
7	44	35	29	25	43	35	29	25	34	28	25	23	
8	41	32	26	22	40	32	26	22	31	26	22	20	
9	39	29	24	20	38	29	24	20	28	23	20	18	
10	36	27	22	18	35	27	22	18	26	21	18	17	

### INDOOR CANDELA PLOT

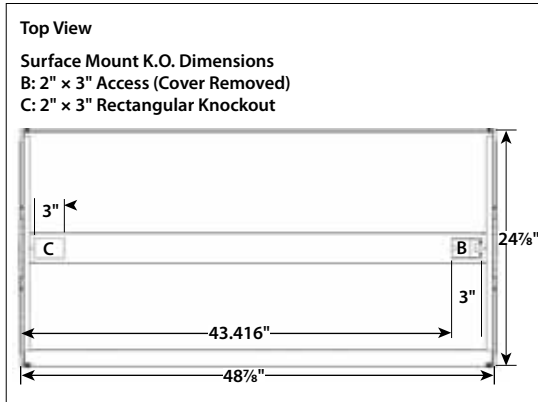
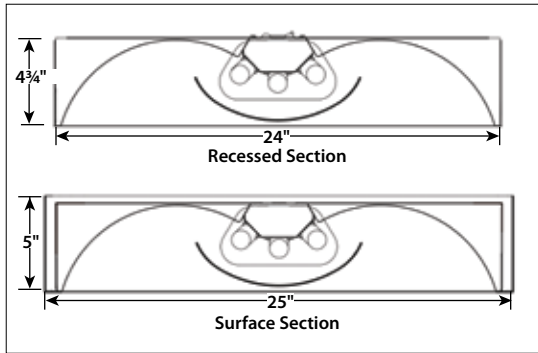


### AVG. LUMINANCE (Candela/Sq. M.)

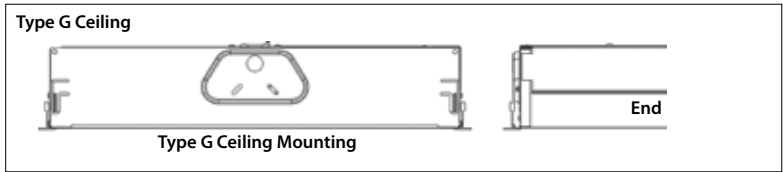
Average Luminance Angle	0.0	22.5	45.0	67.5	90.0
0	2742	2742	2742	2742	2742
30	2448	2529	2775	3007	3139
40	2310	2462	2783	3068	3228
45	2213	2416	2758	3039	3221
50	2112	2349	2698	2998	3180
55	1980	2255	2622	2907	3075
60	1816	2114	2494	2756	2879
65	1665	1941	2349	2494	2473
70	1554	1793	2134	2151	2126
75	1422	1625	1783	1907	1986
80	1278	1379	1530	1614	1614
85	1039	1106	1240	1206	1139

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

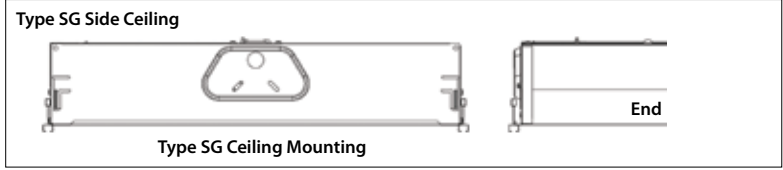
### DIMENSIONAL DATA



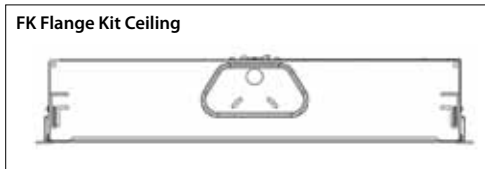
### CEILING COMPATIBILITY



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



For 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 24 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.