

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 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 by 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.

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 STEL24-332G-WCBMPO-EU

STEL	24	-	3	-	MPO	-	-	
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 ELS Emergency Battery Pack, T5 DG Dust Guard Clear Acrylic NYC NYC Compliant NYCU NYC Compliant, Union Label WIH wiHUBB Enabled ¹
SIZE	LAMP TYPE		LOUVER TYPE		BALLAST			
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		High Efficiency (H) HLS Low Iridescent Specular HMA Matte Anodized Low Iridescent Semi-Specular White Steel Cross Baffle 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 *Specify vendor and series			

ACCESSORIES (ORDER SEPARATELY)

FK24 2' x 4' Single Flange Kit (Shipped separately)

¹ Not available with Surface Mount Ceiling Types



PHOTOMETRIC DATA

LUMINAIRE DATA

Luminaire	STEL24-332G-HMAMPO-3EU Stratus, Recessed/Architectural 2 x 4 3-lamp with specular louver and perforated metal side baskets with opal overlays
Ballast	ICN-3P32-SC
Ballast Factor	0.88
Lamp	F28T8
Lumens per Lamp	2725
Watts	71
Shielding Angle	0° = 0 90° = 0
Spacing Criterion	0° = 1.25 90° = 1.42
Luminous Opening in Feet	Length: 4.00 Width: 1.92 Height: 0.00

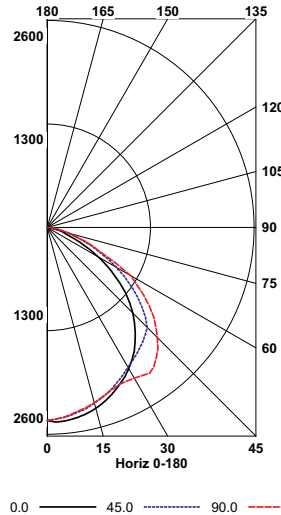
ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1869	22.9	28.3
0-40	3123	38.2	47.3
0-60	5579	68.2	84.5
0-90	6605	80.8	100.0
0-180	6605	80.8	100.0

ENERGY DATA

Total Luminaire Efficiency	80.8%
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

INDOOR CANDELA PLOT



AVG. LUMINANCE (Candela/Sq. M.)

Average Luminance Angle	0.0	22.5	45.0	67.5	90.0
0	3397	3397	3397	3397	3397
30	3313	3245	3284	3454	3535
40	3149	3123	3421	3829	3899
45	3009	3017	3522	3798	3877
50	2802	2883	3388	3652	3796
55	2480	2685	3142	3433	3612
60	2080	2427	2823	3092	3383
65	1565	1930	2398	2540	2481
70	1086	1385	1901	2012	2074
75	996	1262	1592	1446	1457
80	912	1251	1154	1178	1138
85	804	788	901	917	917

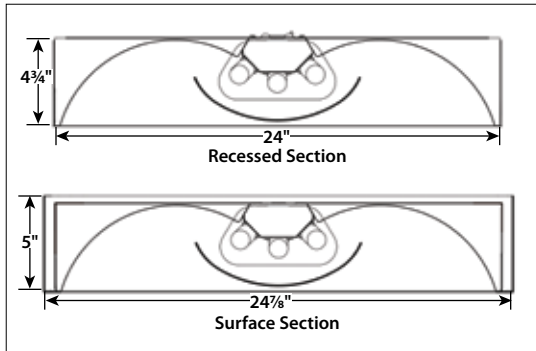
COEFFICIENTS OF UTILIZATION (%)

RCR	RW	80				70				50				0
		70	50	30	10	70	50	30	10	50	30	10	0	
1	89	85	82	79	86	83	80	78	80	77	75	58		
2	81	75	70	65	79	73	68	64	70	66	63	50		
3	74	66	60	55	72	65	59	54	62	57	53	43		
4	68	59	52	46	66	57	51	46	55	50	45	37		
5	62	52	45	40	61	51	45	40	50	44	39	32		
6	58	47	40	35	56	46	40	35	45	39	34	28		
7	53	43	36	31	52	42	35	31	41	35	31	25		
8	50	39	32	27	48	38	32	27	37	31	27	23		
9	46	36	29	25	45	35	29	25	34	29	24	21		
10	43	33	27	22	42	32	26	22	32	26	22	13		

RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

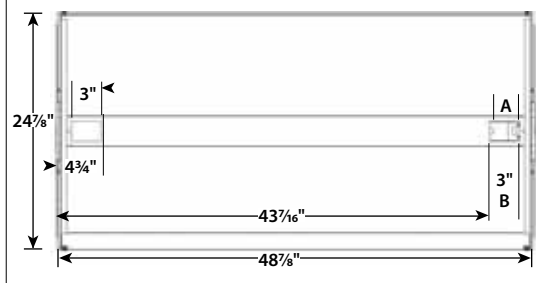
DIMENSIONAL DATA



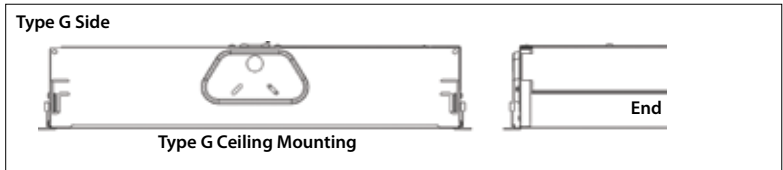
Top View

Surface Mount K.O. Dimensions

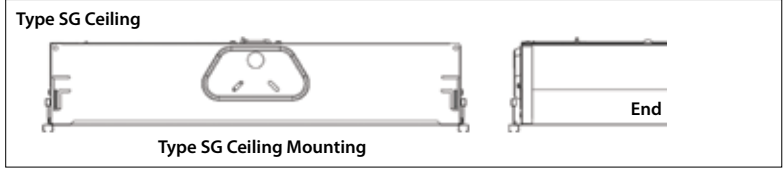
- A: 7/8 K.O.
- B: 2" x 3" Access (Cover Removed)
- C: 2" x 3" Rectangular Knockout



CEILING COMPATIBILITY



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



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.



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"

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