

**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
- 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. 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 STE22-240TT-MPO-ETTU**

MODEL	NO. OF LAMPS	CEILING TYPE	SHIELDING	VOLTAGE	OPTIONS
STE Stratus® E-Series Recessed Indirect	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 DG Dust Guard NYC NYC Compliant NYCU NYC Compliant, Union Label WIH wiHUBB Enabled <sup>1</sup>
	SIZE	LAMP TYPE	BALLAST		
	22 2' x 2'	40TT Twin Tube Compact, 2G11 Base: 40 Watt 50TT Twin Tube Compact, 2G11 Base: 50 Watt	ETT Electronic Twin Tube, Instant Start EPTT Electronic Twin Tube, Programmed Start		

**ACCESSORIES (ORDER SEPARATELY)**

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

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



Test 3693 Test Date 10/19/10

## PHOTOMETRIC DATA

### LUMINAIRE DATA

Luminaire	STE22-240TTG-MPO-EU Stratus, Recessed/Architectural 2 x 2 2-lamp with perforated metal basket and opal overlay
Ballast	ICN-2TTP40-SC
Ballast Factor	0.88
Lamp	F40TT
Lumens per Lamp	3150
Watts	68
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.21 90° = 1.29
Luminous Opening in Feet	Length: 1.92 Width: 1.86 Height: 0.00

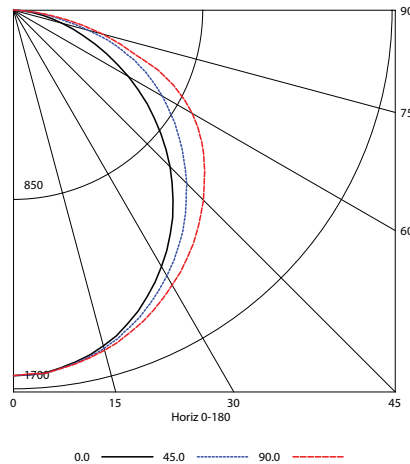
### ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1269	20.1	26.5
0-40	2078	33.0	43.3
0-60	3717	59.0	77.5
0-90	4796	76.1	100.0
0-180	4796	76.1	100.0

### ENERGY DATA

Total Luminaire Efficiency	76.1%
Luminaire Efficacy Rating (LER)	62
IESNA RP-1-1993 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.87 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	4943	4943	4943	4943	4943
30	4622	4671	4792	4918	4956
40	4383	4470	4718	4962	5056
45	4237	4361	4689	5013	5141
50	4051	4220	4647	5069	5252
55	3852	4109	4645	5202	5423
60	3587	3967	4648	5347	5588
65	3274	3787	4643	5406	5641
70	2917	3578	4539	5147	5138
75	2644	3331	4053	4612	4810
80	2326	2777	3419	4010	4131
85	1902	2248	2836	3216	3285

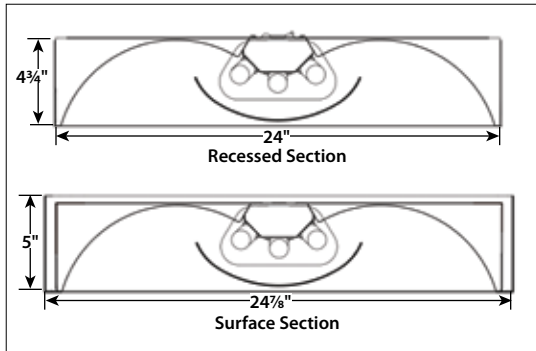
### COEFFICIENTS OF UTILIZATION (%)

RCR	RW	80				70				50				0
		70	50	30	10	70	50	30	10	50	30	10	0	
1	83	79	76	73	81	77	74	71	74	71	69	63	63	
2	75	68	63	59	73	67	62	58	64	60	57	52	52	
3	68	60	54	49	66	59	53	48	56	51	47	44	44	
4	62	53	46	41	61	52	46	41	50	44	40	37	37	
5	57	47	40	35	56	46	40	35	45	39	35	32	32	
6	53	42	36	31	51	42	35	30	40	35	30	28	28	
7	49	38	32	27	48	38	31	27	37	31	27	25	25	
8	46	35	29	24	44	35	28	24	34	28	24	22	22	
9	43	32	26	22	41	32	26	22	31	25	21	20	20	
10	40	30	24	20	39	29	23	19	29	23	19	18	18	

RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

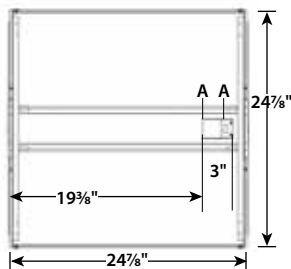
### DIMENSIONAL DATA



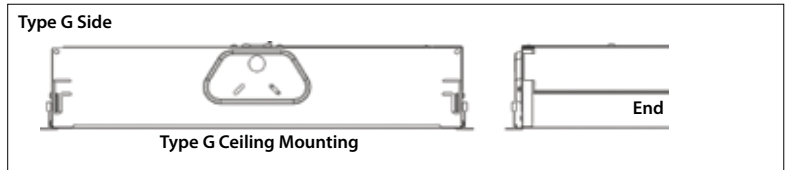
### Top View

#### Surface K.O. Dimensions

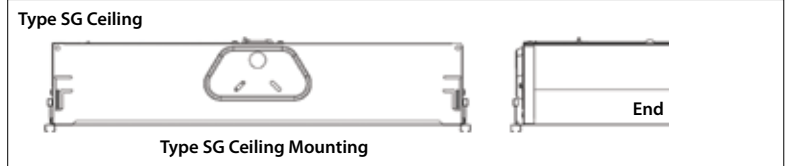
A: 2" x 3" Access with (2) 3/8" Mount Supply Knockouts



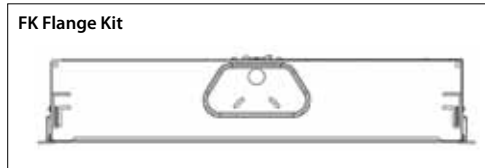
### CEILING COMPATIBILITY



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 recessed 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.