

FEATURES

- Precision optical system produces an efficient luminaire without sacrificing high visual comfort
- Completely recessed, provides a clean ceiling while providing soft, uniform indirect illumination in rooms with ceilings as low as 8 feet
- Available for use with T8, T5, or T5HO linear fluorescent lamps
- Light basket and reflectors are finished with a matte white powder coat
- Side basket design provides architectural interest with a skylight appearance
- Ease of installation and maintenance
- Companion louvered (STRL), center basket (STR), 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 aluminum reflector is profiled to a precision curve and finished with matte white paint for a soft, uniform indirect illumination. Matte white perforated light basket backed by opal acrylic overlay snaps securely into place and hinges down for ease of lamp replacement.

FINISH

Custom formulated soft non-glare white powder coat finish on the light basket and reflector. Gloss white finish on housing.

SHIELDING

A perforated metal light basket (46% opening) with an opal acrylic overlay is standard.

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

Luminaire is available to fit most standard ceiling types. NEC-compliant T-Bar clips supplied with all grid trim fixtures. G trim fixtures used in SG ceilings require T-Bar clip accessory. See ceiling details on reverse. For hard ceilings order G trim and FK flange accessory. Assemble then support FK accessory at 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.

SURFACE OR PENDANT MOUNT

Attractive surface mount units available to match performance and aesthetics of recessed models.

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 STS24-232G-MPO-EU

STS		24		-		-		MPO		-	
MODEL		NO. OF LAMPS IN CROSS SECTION		CEILING TYPE		AIR FUNCTION		VOLTAGE		OPTIONS	
STS Stratus® Recessed Indirect Side Basket		2 Two 4 Four		G Grid Lay-in SG Slot Grid SM Surface Mount		Blank Static A Air Handling		U 120V-277V 347 347V		GLR Fast Blow Fuse GMF Slow Blow Fuse EL Emergency Battery Pack NYCU NYC Compliant, Union Label	
SIZE		LAMP TYPE		SHIELDING		BALLAST		ACCESSORIES (ORDER SEPARATELY)			
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		MPO Metal Perf w/Overlay		E Electronic T8, Instant Start ED Electronic Dimming T8 and T5 EP Electronic T5, T5HO, or T8, Programmed Start		FK24 2' x 4' Single Flange Kit			

PHOTOMETRIC DATA

Test 13138 Test Date 3/13/03

LUMINAIRE DATA

Luminaire	STS24-232G-MPO-E 2' x 4' 2-Lamp with Perforated Metal Side Baskets with Overlay
Ballast	REL2P325C
Ballast Factor	0.87
Lamp	F32T8
Lumens per Lamp	2900
Watts	59
Shielding Angle	N/A
Spacing Criterion	0° = 1.22 90° = 1.28
Luminous Opening in Feet	Length: 3.92 Width: 1.89 Height: 0.00

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	906	15.6	25.4
0-40	1480	25.5	41.5
0-60	2636	45.5	73.9
0-90	3567	61.5	100.0
0-180	3567	61.5	100.0

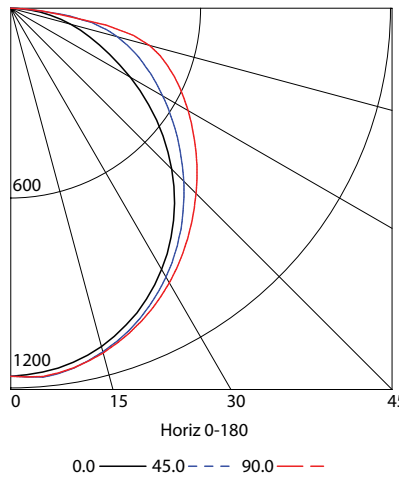
ENERGY DATA

Total Luminaire Efficiency	61.5%
Luminaire Efficacy Rating (LER)	40
IESNA RP-1-1993 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$6.00 based on 3000 hrs. and \$0.08 per KWH

COEFFICIENTS OF UTILIZATION (%)

RCR	RC	80				70				50				0				
		RW	70	50	30	10	70	50	30	10	50	30	10	0	50	30	10	0
1	66	63	60	57	64	62	59	57	59	57	55	50	50	50	47	44	41	41
2	60	54	50	46	58	53	49	45	51	47	44	41	41	41	38	34	34	34
3	54	47	42	38	53	46	41	38	45	40	37	34	34	34	31	27	25	25
4	50	42	36	32	48	41	36	32	39	35	31	29	29	29	26	22	22	22
5	46	37	32	27	44	37	31	27	35	30	27	25	25	25	22	18	17	17
6	42	34	28	24	41	33	28	24	32	27	23	22	22	22	19	15	15	15
7	39	30	25	21	38	30	25	21	29	24	21	19	19	19	16	12	12	12
8	36	28	22	19	35	27	22	19	26	22	18	17	17	17	14	10	10	10
9	34	25	20	17	33	25	20	17	24	20	17	15	15	15	12	8	8	8
10	32	23	18	15	31	23	18	15	23	18	15	14	14	14	11	7	7	7

INDOOR CANDELA PLOT



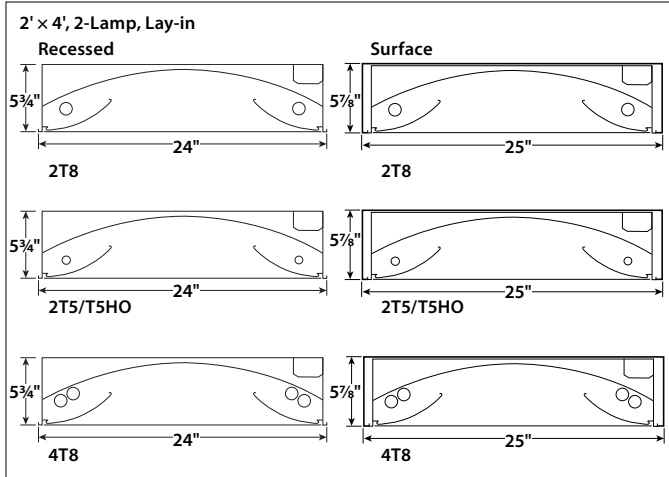
AVG. LUMINANCE (Candela/Sq. M.)

Average Luminance Angle	0.0	22.5	45.0	67.5	90.0
0	1690	1690	1690	1690	1690
30	1599	1622	1646	1673	1681
40	1527	1555	1604	1663	1684
45	1477	1514	1588	1672	1701
50	1419	1471	1578	1693	1736
55	1348	1429	1583	1735	1788
60	1267	1383	1610	1807	1880
65	1183	1354	1674	1929	2021
70	1126	1351	1784	2111	2234
75	1100	1392	1959	2386	2543
80	1063	1473	2175	2493	2552
85	984	1417	1350	1584	1650

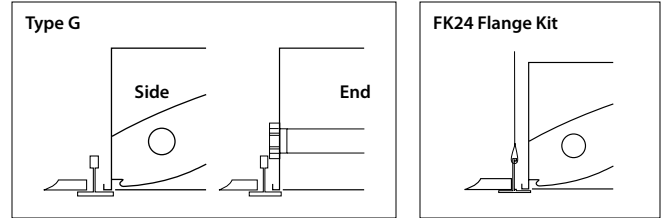
RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

DIMENSIONAL DATA



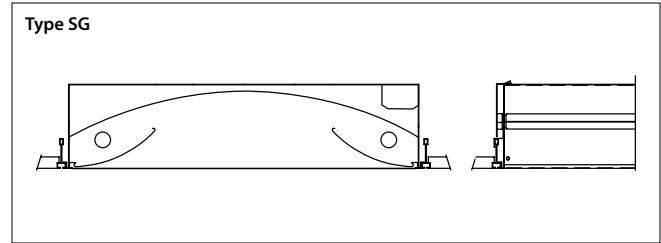
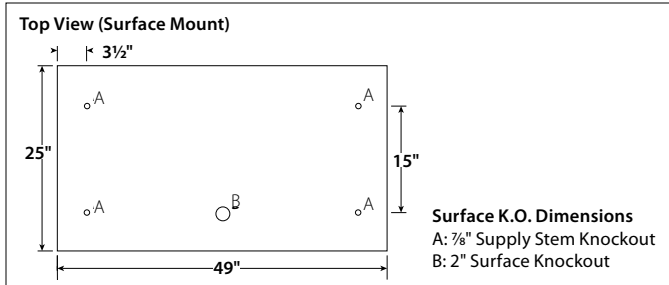
CEILING COMPATIBILITY



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

For hard ceiling applications, order FK24 flange kit. Flange kit wires directly into concealed ceiling opening for a clean, finished appearance.

Flange kit cut out dimension for single unit only: 24" x 48 7/8"
For row configurations contact your local Columbia Lighting representative.



For 3/4" slot grid type ceilings. Luminaire will be level with the ceiling plane. Slot grid tees must be field installed all around the fixture.

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