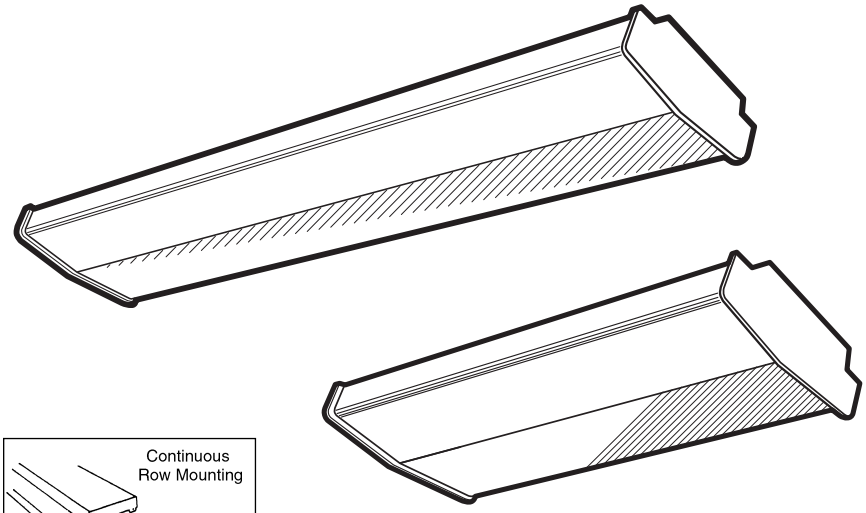
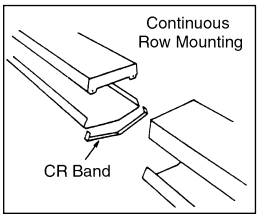
CATALOG NUMBER	TYPE

Low Profile Wraparound
SY920
2', 4', 8' Tandem





Housing: Die-formed heavy gauge steel with high-gloss baked white enamel finish (minimum reflectance 86%) over rust inhibiting phosphate coat. Standard white ends are injection molded. Optional oak wood ends available, order separately. Lens hinges from either side. Knockouts provided.

Shielding: Clear acrylic prismatic lens with D.R. additive, smooth white also available.

Electrical: Fully wired for 120V, 60Hz AC operation, thermally protected, automatic resetting, Class P, sound rated A, high-power factor ballast, unless otherwise specified. Electronic T8 shall be instant start, <20% harmonic distortion standard, specify suffix UNV for <10% harmonic distortion. Specify suffix UNV for universal voltage, 120 through 277V, 50/60Hz AC operation, Electronic T8 only. UL and C-UL listed, damp location.

Mounting: Ceiling surface mount individual or continuous row (with CR bands). Tandem two-lamp model available. When pendant mounting three and four light fixtures, use stabilizer kit. See page 67 for mounting accessories.

Critical Application: SIMKAR strives to offer the most current product designs and value. Consequently, all SIMKAR products are subject to redesign and revision. Critical applications such as size, operating temperature, or sensor operation should be confirmed with the factory.

FEATURES AND BENEFITS

Shallow 3 1/4" fixture	➤	Unassuming light source
V-shaped prismatic acrylic diffuser	➤	Distributes light evenly and more effectively
Injection molded end caps	➤	Upscale, high quality appearance
Lift and shift wraparound diffuser	➤	Allows diffuser to hinge from both sides for easy maintenance

ORDERING INFORMATION

Example: SY920232B11120V

S		920					
MOUNTING	DIFFUSER	SERIES	LAMPS	OPTION	BALLAST	VOLTAGE
S - Surface ceiling or pendant	Y - Acrylic prismatic W - Smooth white (two-lamp wide)	920 - White ends, standard Optional oak ends, see below.	217 - (2) 17W 24" T8 220 - (2) 20W 24" T12 232 - (2) 32W 48" T8 240 - (2) 40W 48" T12 317 - (3) 17W 24" T8 332 - (3) 32W 48" T8 417 - (4) 17W 24" T8 420 - (4) 20W 24" T12 432 - (4) 32W 48" T8 440 - (4) 40W 48" T12 Tandem: 2232 - (4) 32W 48" T8 2240 - (4) 40W 48" T12	ELS - Emergency lighting system, see page 39 SR - Silver reflector	B11 - Electronic T8 B4 - Magnetic T8 if Simplex clock sync is online E1 - Energy Saving Magnetic T12	120V 277V UNV - 120-277V

Optional Oak Ends

2-lamp	09-05002
3 or 4-lamp	09-05007

For additional information, see chart on pages 68-69.

PHOTOMETRIC DATA, SY 2-32W 4' Model

CANDLEPOWER

Angle	0	45	90
0	1570	1570	1570
5	1559	1568	1564
15	1505	1518	1519
25	1396	1406	1395
35	1230	1208	1169
45	959	896	832
55	446	590	553
65	225	388	449
75	134	230	370
85	51	156	320
90	5	151	286

LIGHT GUIDE (T8 LAMPS AND ELECTRONIC BALLAST)

Footcandles	Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings		
	2-32W T8	3-32W T8	4-32W T8
35	81.8	71.0	180.1
50	61.5	119.7	126.1
75	41.0	79.8	84.1
100	30.7	59.9	63.0

AVERAGE LUMINANCE CD/SQ.M

Angle	0	45	90
45	4866	4109	3670
55	2790	3183	2822
65	1910	2641	2824
75	1857	2217	3167
85	2099	2734	4531

TYPICAL V.C.P.s

Room Size	Mounting Height Lengthwise		Crosswise	
	8.5	10	8.5	10
30x30	58	62	46	53
40x40	54	57	41	46
60x30	57	61	51	57
60x60	50	53	34	39
100x100	47	49	30	33

COEFFICIENT OF UTILIZATION

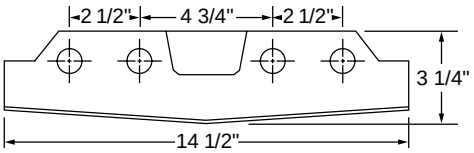
RC	80			70			50	
RW	70	50	30	70	50	30	50	30
RCR								
1	81	77	74	78	75	72	70	68
2	74	68	63	71	66	62	62	59
3	68	61	55	66	59	54	56	51
4	63	54	48	61	53	47	50	45
5	58	49	42	56	47	41	45	40
6	53	44	37	52	43	37	41	36
7	49	40	33	48	39	33	37	32
8	46	36	30	44	35	29	33	28
9	42	32	26	41	31	26	30	25
10	39	29	23	38	29	23	27	22

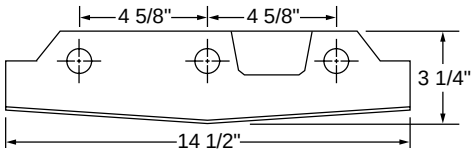
LIGHT DISTRIBUTION

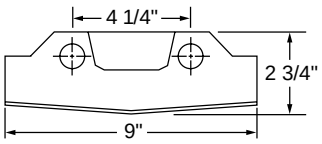
Zone	Lumens	%Lamp	%Fixture
0-30	1222	21.1	27.9
0-40	1974	34.0	45.0
0-60	3149	54.3	71.8
0-90	3960	68.3	90.3

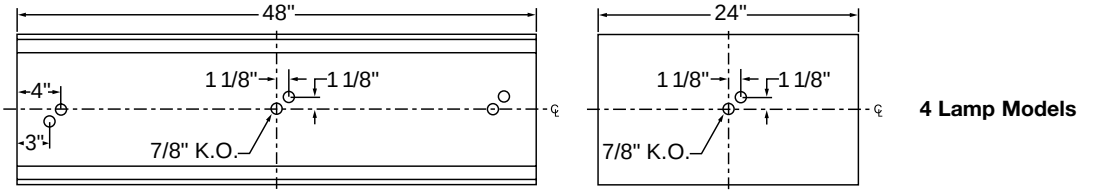
Lamps = (2) F32 T8 @ 2850 lumens ea. Input Watts = 59.5 LER = 61.2 Test #01998 Ballast = Electronic 120V Ballast Factor = 93.6 S/MH: 0° = 1.2; 90° = 1.2
Comparative yearly lighting energy cost per 1000 lumens = $3.92 based on 3000 hrs. and $.08 per KWH

DRAWINGS AND DIMENSIONS

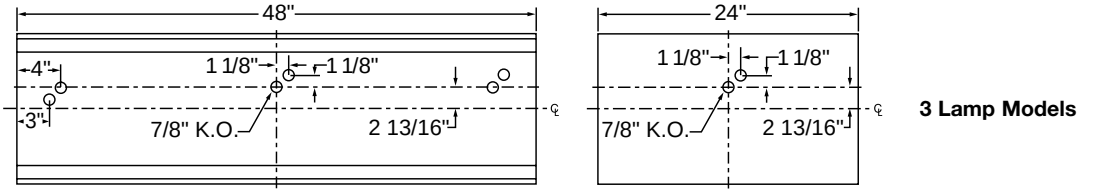




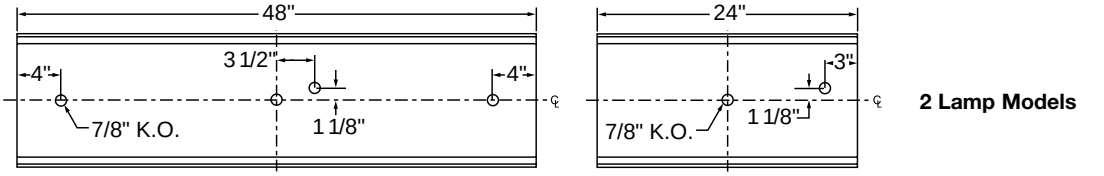




4 Lamp Models



3 Lamp Models



2 Lamp Models