

1 or 2 Lamp

T8 or T12 SLIMLINE

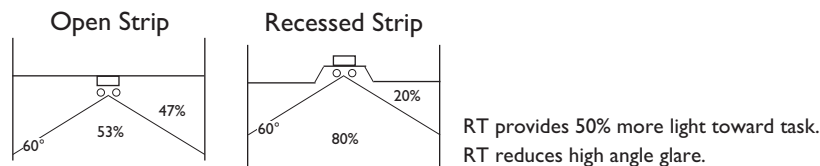
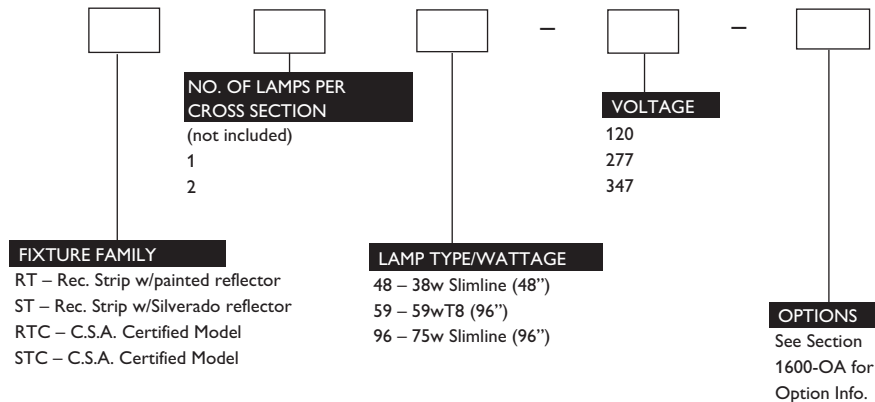
Provides up to 50% additional lighting on merchandise or task related jobs when compared to open strip systems.

CONSTRUCTION/FINISH

- For installation in inverted T (NEMA "G") ceiling systems in 1' x 4' or 1' x 8' individual units or in continuous rows.
- Available in your choice of reflectors: white baked enamel or Silverado (Specular silverfilm-95% reflectance).
- Heavy-duty channel of code gauge die formed steel.
- High reflectance white baked enamel finish.
- A Power/Connect Option offering factory installed pre-wired branch circuit wiring harness that permits fluorescent fixtures to be mounted in rows and electrically plugged together quickly and easily is available.

ELECTRICAL

- UL listed for damp locations. C.S.A. certified optional.
- Class P, HPF ballasts comply with Ⓔ Federal Ballast Law (Public Law 100-357,1988).
- Ballast access plate provided in reflector.
- Lampholders are protected by end caps which assure proper lamp support.
- Reduces energy consumption because fewer fixtures are required. Recessed installation allows for cleaner, more comfortable appearance.

COMPARISON OF LIGHT DISTRIBUTION**CATALOG NUMBER****NOTES:**

- With generic Electronic Ballasts (Brand selected by Day-Brite)
Suffix Catalog # with– Ballast Quantity – / – EB Lamps Per Ballast.

Example: –1/1–EB = One 1 Lamp Electronic Ballast.

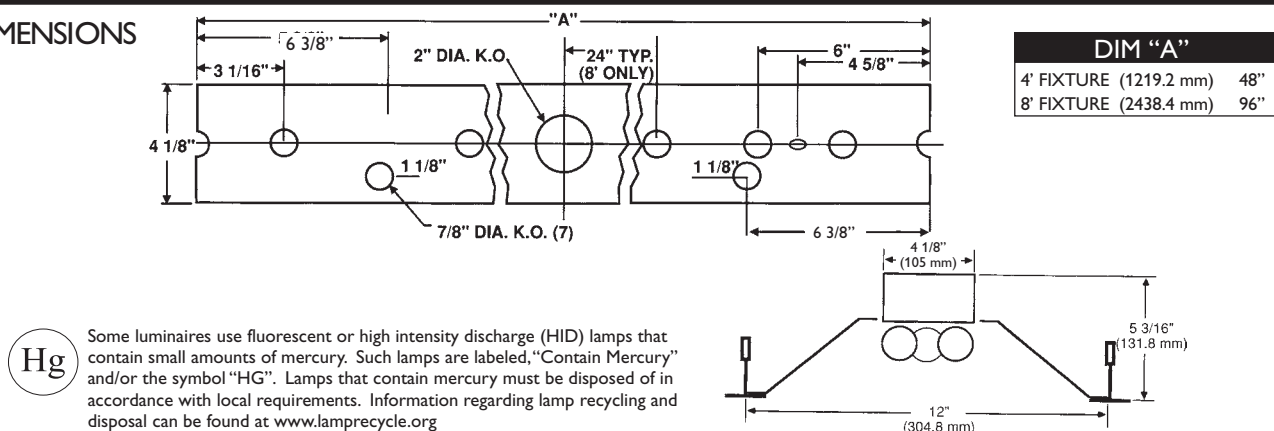
Example: –1/2–EB = One 2 Lamp Electronic Ballast.

JOB INFORMATION

2 LAMP 4' or 8' RECESSED STRIP

451-SR

DIMENSIONS



PHOTOMETRIC DATA

CATALOG # RT259-1/2-EB
TEST #42046 S/MH=1.4

LAMPS = 59W T8
BALLAST = ELECTRONIC BALLAST FACTOR = .85

LER = FS-85

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$2.82 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 92.8%

CANDLEPOWER				
Angle	End	45	Cross	
0	3208	3208	3208	
5	3208	3184	3240	
10	3176	3160	3224	
15	3136	3140	3200	
20	3041	3057	3160	
25	2921	2985	3136	
30	2794	2913	3081	
35	2643	2822	3017	
40	2476	2702	2921	
45	2300	2579	2802	
50	2070	2404	2627	
55	1839	2205	2380	
60	1592	1990	2070	
65	1321	1684	1632	
70	1027	1282	1106	
75	716	816	494	
80	406	263	175	
85	135	80	72	

MAINTAINED ILLUMINATION TABLE- Square Feet/ Fixture*

■ 80-50-20 Reflectances (Ceiling-Wall-Floor) ■ LLF = 0.74 5800 Lumens/Lamp very clean ■ Room width divided by room height = 5 or more, 2 or 1						
Fixture Size & # of Lamps	Room Width Room Height =	Approx. Area (sq. ft.) per Fixture				
		10 ft-c	30 ft-c	50 ft-c	70 ft-c	100 ft-c
8'	5	—	—	—	117	82
2-Lamp	2	—	—	109	78	54
	1	—	130	78	56	39

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 5800 LUMEN LAMPS

ANGLE	END	45°	CROSS
45	4615	5175	5622
55	4549	5454	5887
65	4435	5654	5479
75	3925	4473	2708
85	2198	1302	1172

TYPICAL V.C.P.'s

Room Size	Mounting Height			
	Lengthwise	Crosswise		
	8.5	10	8.5	10
30x30	35	37	41	39
40x40	35	35	44	42
60x30	42	43	45	43
60x60	38	35	46	44
100x100	44	41	51	38

LLF = .74 LLF = LIGHT LOSS FACTOR LLF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90
LLD = 0.92 @ 40% RATED LAMP LIFE BF = 0.85 ELECTRONIC BALLAST & 59W T8 LAMP (RELAMP AT 70% LAMP LIFE)

COEFFICIENT OF UTILIZATION

pfc	20	30	40	50	60	70	80	90	100
CCR	10	20	30	40	50	60	70	80	90
0	110	110	110	108	108	108	103	103	103
1	101	95	92	97	93	90	90	86	86
2	91	82	77	89	81	75	78	72	72
3	82	71	65	80	70	64	68	61	61
4	75	64	55	72	61	55	59	53	53
5	68	56	47	67	55	46	53	46	46
6	63	51	41	61	50	41	47	40	40
7	58	46	36	56	45	36	42	35	35
8	54	41	33	53	40	33	40	33	33
9	51	38	29	48	36	29	35	28	28
10	47	34	27	46	34	27	34	27	27

LIGHT DISTRIBUTION

DEGREES	LUMENS	% LAMP	% FIXTURE
(0-30)	2581	22.2	24.0
(0-40)	4347	37.5	40.4
(0-60)	8266	71.3	76.8
(0-90)	10765	92.8	100.0

PHOTOMETRIC DATA

CATALOG # ST259-1/2-EB
TEST #42047 S/MH=1.4

LAMPS = 59W T8
BALLAST = ELECTRONIC BALLAST FACTOR = .85

LER = FS-89

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$2.70 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 97.5%

CANDLEPOWER				
Angle	End	45	Cross	
0	4274	4274	4274	
5	4274	4255	4282	
10	4227	4111	4099	
15	4139	3948	3861	
20	4020	3721	3837	
25	3837	3618	3845	
30	3638	3526	3908	
35	3399	3447	3861	
40	3152	3399	3526	
45	2858	3236	2818	
50	2531	2826	2086	
55	2173	2165	1584	
60	1823	1469	1401	
65	1433	1079	1083	
70	1043	844	589	
75	677	462	111	
80	342	44	0	
85	80	0	0	

MAINTAINED ILLUMINATION TABLE- Square Feet/ Fixture*

■ 80-50-20 Reflectances (Ceiling-Wall-Floor) ■ LLF = 0.74 5800 Lumens/Lamp very clean ■ Room width divided by room height = 5 or more, 2 or 1						
Fixture Size & # of Lamps	Room Width Room Height =	Approx. Area (sq. ft.) per Fixture				
		10 ft-c	30 ft-c	50 ft-c	70 ft-c	100 ft-c
8'	5	—	—	—	125	88
2-Lamp	2	—	—	121	86	60
	1	—	147	88	63	44

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 5800 LUMEN LAMPS

ANGLE	END	45°	CROSS
45	5735	6493	5654
55	5375	5355	3918
65	4811	3622	3636
75	3711	2533	608
85	1302	0	0

TYPICAL V.C.P.'s

Room Size	Mounting Height			
	Lengthwise	Crosswise		
	8.5	10	8.5	10
30x30	43	44	60	55
40x40	47	44	63	58
60x30	49	51	64	58
60x60	50	46	64	60
100x100	54	52	68	64

LLF = .74 LLF = LIGHT LOSS FACTOR LLF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90
LLD = 0.92 @ 40% RATED LAMP LIFE BF = 0.85 ELECTRONIC BALLAST & 59W T8 LAMP (RELAMP AT 70% LAMP LIFE)

COEFFICIENT OF UTILIZATION

pfc	20	30	40	50	60	70	80	90	100
CCR	10	20	30	40	50	60	70	80	90
0	115	115	115	112	112	112	108	108	108
1	107	103	98	105	101	96	96	93	93
2	97	90	83	94	89	82	84	80	80
3	90	80	71	86	78	70	75	68	68
4	81	70	63	80	69	61	67	60	60
5	76	63	55	73	61	54	59	53	53
6	69	56	48	68	56	47	54	46	46
7	65	52	42	63	51	42	50	41	41
8	59	46	39	58	46	39	45	38	38
9	56	42	34	55	42	34	41	34	34
10	53	40	32	51	39	32	38	32	32

LIGHT DISTRIBUTION

DEGREES	LUMENS	% LAMP	% FIXTURE
(0-30)	3249	28.0	28.7
(0-40)	5444	46.9	48.1
(0-60)	9534	82.2	84.3
(0-90)	11312	97.5	100.0



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