

1 or 2 Lamp

High Output

T8 (380 mA) or T12 (800 mA)

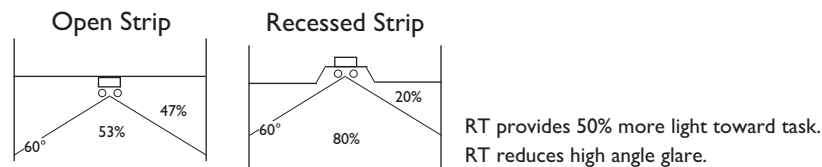
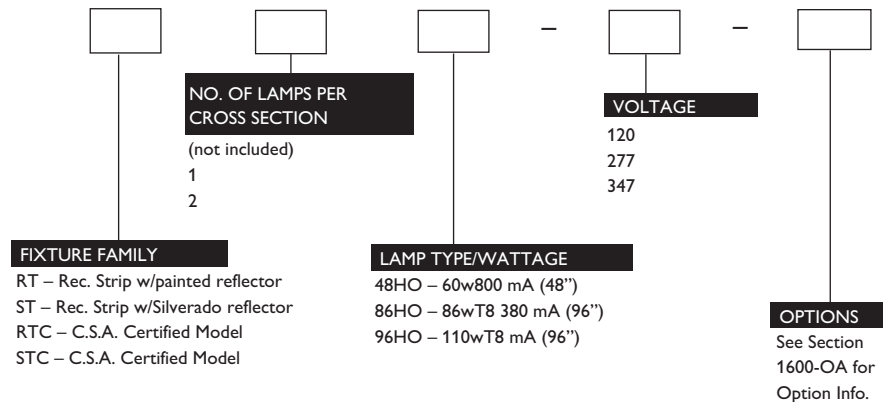
Provides up to 50% additional lighting on merchandise or task related jobs when compared to open strip systems.

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:**

- Accessories: RTC1 – Option external heavy duty coupler.
 - With generic Electronic Ballasts (Brand selected by Day-Brite)
- Suffix Catalog # with- Ballast Quantity – / –EB Lamps Per Ballast.

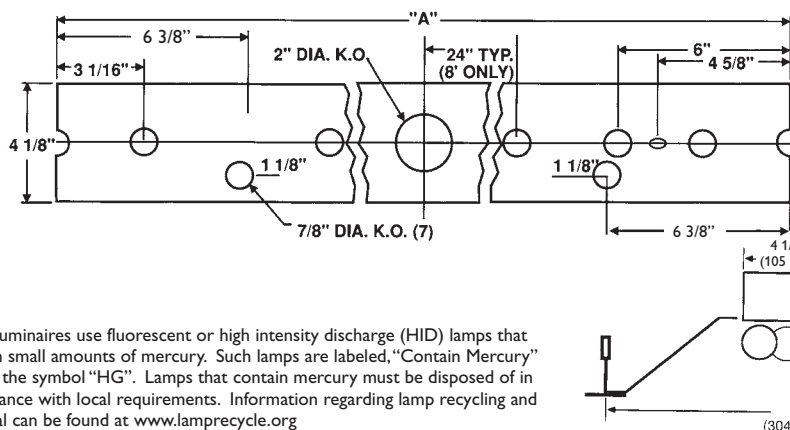
Example: -1/2-EB = One 2 Lamp Electronic Ballast.

JOB INFORMATION

2 LAMP 4' or 8' RECESSED STRIP

452-SR

DIMENSIONS



DIM "A"	
4' FIXTURE (1219.2 mm)	48"
8' FIXTURE (2438.4 mm)	96"



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled, "Contain Mercury" and/or the symbol "Hg". Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

PHOTOMETRIC DATA

CATALOG # RT296 HO-1/2-EB
TEST #42050 S/MH=1.4

LAMPS = F96 T12 HO ES
BALLAST = ELECTRONIC

INPUT WATTS = 166
BALLAST FACTOR = .84

LER = FS-68

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.53 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 84.4%

CANDLEPOWER			
Angle	End	45	Cross
0	4117	4117	4117
5	4128	4097	4168
10	4089	4073	4152
15	4017	4033	4128
20	3898	3957	4089
25	3755	3858	4033
30	3580	3751	3969
35	3381	3619	3882
40	3158	3468	3771
45	2895	3293	3596
50	2609	3094	3373
55	2315	2836	2991
60	1989	2510	2450
65	1631	2040	1838
70	1241	1472	1233
75	867	887	644
80	477	370	199
85	151	84	72

MAINTAINED ILLUMINATION TABLE- Square Feet/ Fixture*					
■ 80-50-20 Reflectances (Ceiling-Wall-Floor) ■ LLF = 0.69 8000 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
8' 2-Lamp	5	—	—	—	139
	2	—	—	130	93
	1	—	—	93	67

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 8000 LUMEN LAMPS			
ANGLE	END	45°	CROSS
45	5809	6607	7215
55	5726	7015	7399
65	5476	6849	6171
75	4753	4862	3530
85	2458	1367	1172

TYPICAL V.C.P.'s			
Room Size	Mounting Height	Lengthwise	Crosswise
		8.5	10
30x30	31	33	37
40x40	33	32	40
60x30	38	38	41
60x60	35	33	43
100x100	42	38	49

COEFFICIENT OF UTILIZATION											
pfc	20										
cc	80										
pw	70	50	30	70	50	30	50	30			
RCR	0	101	101	101	97	97	97	93	93		
	1	92	88	83	90	85	82	81	80		
	2	82	76	69	81	73	68	70	67		
	3	76	66	58	72	65	58	63	56		
	4	68	57	51	67	56	50	55	48		
	5	63	52	44	60	51	44	48	42		
	6	57	46	39	56	46	38	44	38		
	7	54	41	34	52	40	34	40	34		
	8	50	38	30	48	38	30	35	29		
	9	46	34	28	45	34	28	33	27		
	10	44	32	25	41	32	25	30	25		

LIGHT DISTRIBUTION			
DEGREES	LUMENS	% LAMP	% FIXTURE
(0-30)	3320	20.8	24.6
(0-40)	5589	34.9	41.4
(0-60)	10557	66.0	78.1
(0-90)	13511	84.4	100.0

LLF = .69 LLF = LIGHT LOSS FACTOR LLF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90
LLD = 0.88 @ 40% RATED LAMP LIFE BF = 0.84 ELECTRONIC BALLAST & HO LAMP (RELAMP AT 70% LAMP LIFE)

PHOTOMETRIC DATA

CATALOG # ST296 HO-1/2-EB
TEST #42051 S/MH=1.4

LAMPS = F96 T12 HO ES
BALLAST = ELECTRONIC

INPUT WATTS = 165
BALLAST FACTOR = .84

LER = FS-73

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.29 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 89.2%

CANDLEPOWER			
Angle	End	45	Cross
0	5077	5077	5077
5	5083	5115	5226
10	5019	5190	5346
15	4916	5206	5186
20	4757	4988	4996
25	4542	4697	5067
30	4311	4638	4781
35	4017	4447	4574
40	3707	4101	4280
45	3341	3794	3667
50	2975	3413	3118
55	2538	2812	2307
60	2116	2203	1790
65	1655	1499	1225
70	1193	1006	716
75	764	521	191
80	382	60	0
85	95	0	0

MAINTAINED ILLUMINATION TABLE- Square Feet/ Fixture*					
■ 80-50-20 Reflectances (Ceiling-Wall-Floor) ■ LLF = 0.69 8000 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
8' 2-Lamp	5	—	—	—	150
	2	—	—	144	103
	1	—	—	105	72

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 8000 LUMEN LAMPS			
ANGLE	END	45°	CROSS
45	6704	7613	7358
55	6278	6956	5707
65	5556	5032	4113
75	4188	2856	1047
85	1547	0	0

TYPICAL V.C.P.'s			
Room Size	Mounting Height	Lengthwise	Crosswise
		8.5	10
30x30	39	38	55
40x40	43	39	57
60x30	44	45	59
60x60	46	42	59
100x100	50	48	64

COEFFICIENT OF UTILIZATION											
pfc	20										
cc	80										
pw	70	50	30	70	50	30	50	30			
RCR	0	106	106	106	104	104	104	98	98		
	1	97	93	91	95	92	89	88	85		
	2	90	82	77	96	81	76	78	73		
	3	81	72	66	80	71	65	68	64		
	4	75	65	56	72	64	56	61	55		
	5	68	57	50	67	56	50	55	48		
	6	64	52	45	61	51	44	50	42		
	7	58	46	40	57	46	39	45	39		
	8	55	42	35	54	42	35	40	34		
	9	51	40	32	50	39	32	38	32		
	10	47	36	29	46	35	28	34	28		

LIGHT DISTRIBUTION			
DEGREES	LUMENS	% LAMP	% FIXTURE
(0-30)	4150	25.9	29.1
(0-40)	6881	43.0	48.2
(0-60)	12086	75.5	84.7
(0-90)	14276	89.2	100.0

LLF = .69 LLF = LIGHT LOSS FACTOR LLF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90
LLD = 0.88 @ 40% RATED LAMP LIFE BF = 0.84 ELECTRONIC BALLAST & HO LAMP (RELAMP AT 70% LAMP LIFE)



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