

1 or 2 Lamp

T8

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

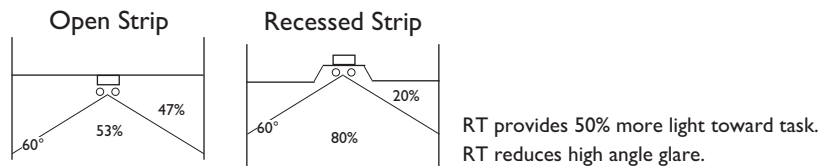
CONSTRUCTION/FINISH

- 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.

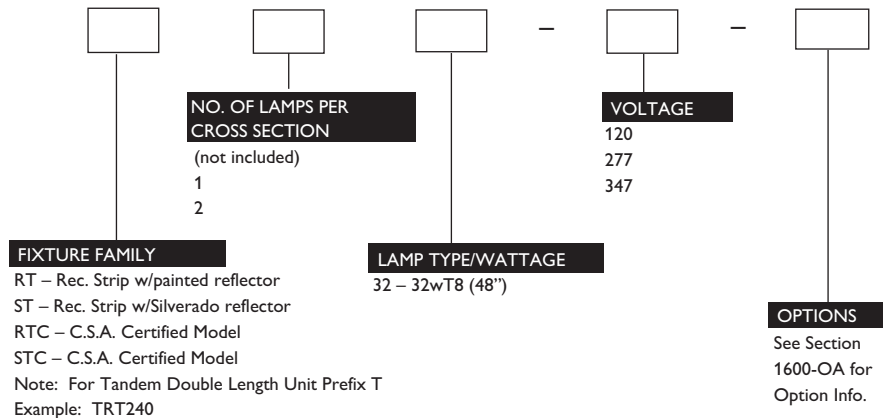
ELECTRICAL

- 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.

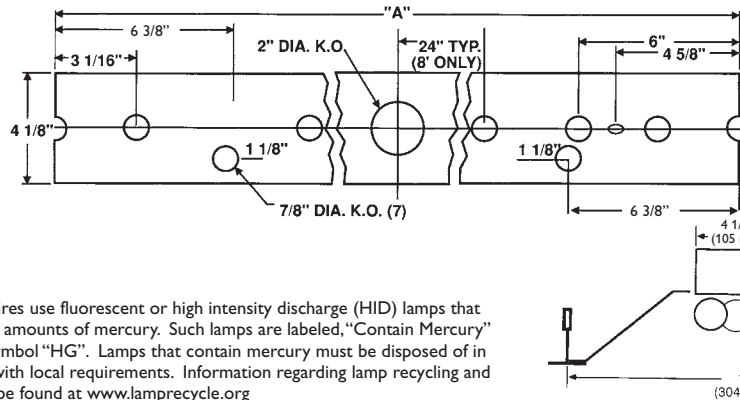
Example: -1/2-EB = One 2 Lamp Electronic Ballast.

Example: -1/4-EB = One 4 Lamp Electronic Ballast.

Example: -2/2-EB = Two 2 Lamp Electronic Ballasts.

JOB INFORMATION

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 # RT232-1/2-EB
TEST # 16278 S/MH=1.4

LAMPS = F32 T8

INPUT WATTS = 61

BALLAST = ELECTRONIC BALLAST FACTOR = .92

LER = FS-75

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.20 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 85.3%

CANDLEPOWER			
Angle	End	45	Cross
0	1537	1537	1537
5	1530	1529	1521
10	1513	1517	1516
15	1482	1500	1502
20	1438	1466	1487
25	1383	1429	1468
30	1318	1380	1445
35	1240	1338	1420
40	1151	1290	1375
45	1052	1220	1311
50	947	1142	1232
55	831	1042	1101
60	705	924	924
65	573	763	702
70	435	553	468
75	296	329	184
80	167	108	83
85	57	41	37

MAINTAINED ILLUMINATION TABLE- Square Feet/ Fixture*						
■ 80-50-20 Reflectances (Ceiling-Wall-Floor) ■ LLF = 0.76 2900 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	70 ft-c	100 ft-c	
4'	5	—	131	78	56	39
2-Lamp	2	—	87	52	37	—
	1	—	63	38	—	—

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 2900 LUMEN LAMPS			
ANGLE	END	45°	CROSS
45	4176	4842	5204
55	4066	5099	5387
65	3805	5067	4662
75	3210	3568	1995
85	1836	1320	1191

TYPICAL V.C.P.'s				
Room	Mounting Height			
Size	Lengthwise		Crosswise	
	8.5	10	8.5	10
30x30	40	41	43	43
40x40	41	41	46	44
60x30	46	46	48	47
60x60	43	42	48	46
100x100	48	46	53	51

COEFFICIENT OF UTILIZATION									
		20		70				50	
pfc	pcc								
	pw	70	50	30	70	50	30	50	30
RCR									
0		102	102	102	98	98	98	94	94
1		93	89	84	90	86	82	82	80
2		83	77	70	81	75	69	71	68
3		76	67	58	76	68	58	63	57
4		69	58	52	68	57	51	56	50
5		64	53	45	61	52	44	50	42
6		58	46	39	56	46	39	45	38
7		54	42	34	53	41	34	40	34
8		51	39	30	48	38	30	36	30
9		46	34	28	46	34	28	34	28
10		44	33	26	42	32	26	30	25

LIGHT DISTRIBUTION			
DEGREES	LUMENS	% LAMP	% FIXTURE
(0-30)	1228	21.2	24.8
(0-40)	2064	35.6	41.7
(0-60)	3884	67.0	78.5
(0-90)	4946	85.3	100.0

LLF = .76 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 = 0.92 ELECTRONIC BALLAST & 59W T8 LAMP (RELAMP AT 70% LAMP LIFE)

PHOTOMETRIC DATA

CATALOG # ST232-1/2-EB
TEST # 16279 S/MH=1.5

LAMPS = F32 T8

INPUT WATTS = 60

BALLAST = ELECTRONIC BALLAST FACTOR = .92

LER = FS-80

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.00 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 89.9%

CANDLEPOWER			
Angle	End	45	Cross
0	1935	1935	1935
5	1927	1915	1881
10	1897	1851	1909
15	1852	1910	1908
20	1786	1850	1876
25	1702	1798	1754
30	1575	1650	1893
35	1481	1616	1883
40	1346	1683	1643
45	1204	1554	1273
50	1052	1294	963
55	889	956	812
60	723	661	646
65	553	535	486
70	397	384	290
75	250	211	43
80	128	21	2
85	45	5	1

MAINTAINED ILLUMINATION TABLE- Square Feet/ Fixture*						
■ 80-50-20 Reflectances (Ceiling-Wall-Floor) ■ LLF = 0.76 2900 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
4' 2-Lamp	5	—	140	84	60	42
	2	—	97	58	41	—
	1	—	71	42	30	—

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 2900 LUMEN LAMPS			
ANGLE	END	45°	CROSS
45	4779	6168	5053
55	4350	4678	3973
65	3672	3553	3228
75	2711	2288	466
85	1449	161	32

Room Size	Mounting Height	
	Lengthwise	Crosswise
	8.5	10
30x30	49	59
40x40	53	66
60x30	58	64
60x60	57	71
100x100	64	80

COEFFICIENT OF UTILIZATION									
RCR 0	pfc	20							
	pcc	80	70						50
	pw	70	50	30	70	50	30	50	30
1		107	107	107	104	104	104	100	100
2		98	94	92	95	93	90	89	86
3		90	83	78	88	81	77	79	75
4		82	73	67	73	67	66	69	64
5	4	76	66	57	73	65	57	61	56
6	5	69	58	51	68	57	51	56	50
7	6	65	53	45	63	52	45	51	44
8	7	59	47	40	57	46	40	46	39
9	8	56	44	35	54	42	35	41	35
10	9	52	40	33	51	40	33	39	32
	10	48	36	29	47	36	29	35	29

LIGHT DISTRIBUTION			
DEGREES	LUMENS	% LAMP	% FIXTURE
(0-30)	1524	26.3	29.2
(0-40)	2570	44.3	49.3
(0-60)	4435	76.5	85.1
(0-90)	5212	89.9	100.0

LLF = .76 LLF = LIGHT LOSS FACTOR LLD = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90
LLD = 0.88 @ 40% RATED LAMP LIFE BF = 0.92 ELECTRONIC BALLAST & T18 LAMP (RELAMP AT 70% LAMP LIFE)



© 2013 Koninklijke Philips Electronics N.V. All rights reserved.
Specifications are subject to change without notice.
www.philips.com/luminaires

Philips Lighting Company
200 Franklin Square Drive
Somerset, NJ 08873
Phone: 855-486-2216

Philips Lighting Company
281 Hillmount Road
Markham ON, Canada L6C 2S3
Phone: 800-668-9008