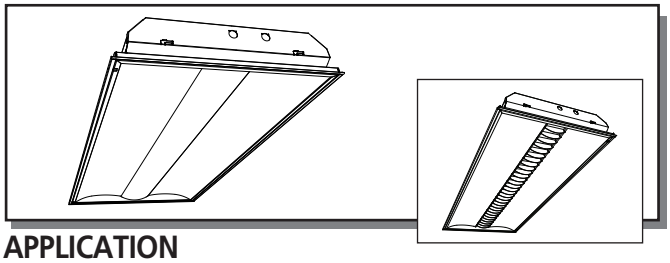


made with pride in the United States of America

2 Lamp T5, T5HO, or T8

APPLICATION

- Subtle enclosure curves provide architectural styling to complement any space.
- Smooth brightness across the face of the luminaire prevents glare and provides excellent visual comfort.
- Directs a controlled amount of light to higher angles to eliminate "cave effect" without creating glare.
- Ideal for modern offices, schools and retail environments.
- Excellent optical efficiency and luminaire efficacy provide significant energy savings.
- Many ballast/lamp systems are available, providing flexibility to tailor the luminaire to specific applications.
- Step dimming ballasts can be switched to less than 50% input power for energy savings to meet most energy codes while maintaining symmetrical illumination.
- Grid, Flange or Z-spline/ Modular models available.

CONSTRUCTION/FINISH

- One piece die-formed embossed steel housing provides added rigidity, resists damage during shipment/handling.
- Wireway cover is easily removable without tools for quick ballast or wiring access from below.
- T-bar grid clips are built into luminaire ends for quick and easy installation, no extra parts required.
- Suitable for end-to-end mounting.
- End K.O.s for thru wiring or conduit entry in shallow plenums.

ELECTRICAL

- UL listed for damp locations. Canadian certified optional.
- Emergency ballasts can be incorporated, UL listed for dry locations.
- Systems are available offering electrical system efficacy ratings up to 102 Lumens/Watt.
- Total luminaire efficacy as high as 88 LPW.

ENCLOSURES

- Center section is flush with outer panels, eliminating the dirt and debris collection typical of suspended "baskets."
- One-piece enclosure hinges down as an assembly for easy access to lamps and ballast from below without tools.
- T-hinges provide secure retention of enclosure and eliminate non-captive parts to hold during servicing.
- Guide-post spring loaded latches allow easy opening and closing of the enclosure.
- Choice of center sections includes diffuse acrylic with smooth or ribbed surface, round perforated steel with overlay or white radial louver with overlay.
- Smooth side diffusers standard, ribbed optional.
- Any center section can be used with either side diffuser.

CATALOG NUMBER

2	ST		2		–		–		–	1/2	–		–	

WIDTH
2 – 2'

FAMILY
ST – SofTrace

CEILING TYPE
G – Grid
F – Flange
Z – Z Spline/Modular

NO. OF LAMPS
(not included)
2

LAMP TYPE/WATTAGE
28 – 28wT5 (46")
32 – 32wT8 (48")
54HO – 54wT5HO (46")

CENTER DIFFUSER
D – Diffuse (Ribbed)
DS – Diffuse (Smooth)
PMW – Round Perf. w/white overlay
WO – Radial louver w/white overlay

VOLTAGE
120
277
347
UNV – Universal Voltage, 120-277 volt

BALLAST CONFIG.
1/2 – One 2-lamp ballast

BALLAST TYPE
EB95 – 28wT5 Electronic ballast, .95 ballast factor
EB115 – 28wT5 Electronic ballast, 1.15 ballast factor
EBSD95 – 28wT5 Electronic step dimming ballast, .95 ballast factor
EBSD115 – 28wT5 Electronic step dimming ballast, 1.15 ballast factor
EBSD80 – 54wT5HO Electronic step dimming ballast, .80 ballast factor
EBD – T5/T5HO/T8 electronic dimming ballast
EB – T5/T5HO/T8 electronic ballast, std. ballast factor
EBL – T8 Electronic ballast, low ballast factor
EBH – T8 Electronic ballast, hi ballast factor
EB10I – T8 Electronic ballast, <10% THD, instant start
EB10R – T8 Electronic ballast, <10% THD, rapid start
EBSD – T8 Electronic step dimming ballast
EBHE – T8 Electronic ballast, high efficiency, std. ballast factor

*Factory installed

OPTIONS
CM – Canadian Market
CC – Custom Color
F1 – 3/8" flex, 3 wire 18 gauge
F2 – 3/8" flex, 4 wire 18 gauge
E1* – DEB-1 emerg. ballast, T8 lamps, 350-450 lumens
E7* – DEB-7 emerg. ballast, T8 lamps, 600-700 lumens
E5* – DEB-5 emerg. ballast, T8 lamps 1100-1400 lumens
E7LP* – DEB-7LP emerg. ballast T5/T5HO, 430-700 lumens
E6* – DEB-6LP emerg. ballast, T5/T5HO lamps, 750-1325 lumens
GLR# – Fusing, fast blow (# = number of ballasts)
LPT730 – Installed T8 lamps, 70+ CRI, 3000K
LPT735 – Installed T8 lamps, 70+ CRI, 3500K
LPT741 – Installed T8 lamps, 70+ CRI, 4100K
LPT830HL – Installed T8 or T5 hi lumen lamps, 80+ CRI, 3000K
LPT835HL – Installed T8 or T5 hi lumen lamps, 80+ CRI, 3500K
LPT841HL – Installed T8 or T5 hi lumen lamps, 80+ CRI, 4100K
LPT830 – Installed T8/T5/T5HO lamps, 80+ CRI, 3000K
LPT835 – Installed T8/T5/T5HO lamps, 80+ CRI, 3500K
LPT841 – Installed T8/T5/T5HO lamps, 80+ CRI, 4100K
PAF – Housing painted after stamping
RIB – Ribbed side diffusers

JOB INFORMATION

0169.2-AR

PHILIPS
Day-Brite

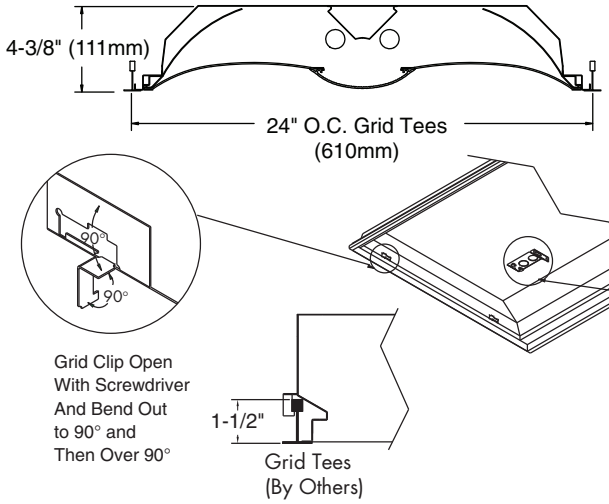
ENERGY DATA

Lamp Type	Ballast Type	Input Power (120/277V)	Electrical System Lumens/Watt	
			Std. Lamps*	Hi-lumen Lamps
28	EB95	60W / 58W	95	100
	EBSD95@hi	60W / 58W	95	100
	EBSD95@lo	28W / 28W	73	76
	EB115	72W / 71W	94	99
	EBSD115@hi	72W / 71W	94	99
	EBSD115@lo	35W / 35W	80	81
	EB	66W / 64W	95	100
32	EB	58W / 58W	85	94
	EB10I	59W / 58W	85	94
	EB10R	62W / 60W	82	91
	EBL	47W / 47W	92	**102**
	EBH	77W / 77W	87	97
	EBSD@hi	57W / 56W	88	97
	EBSD@lo	28W / 28W	60	66
54HO	EB	120W / 117W	85	–
	EBSD80@hi	96W / 93W	86	–
	EBSD80@lo	52W / 51W	78	–

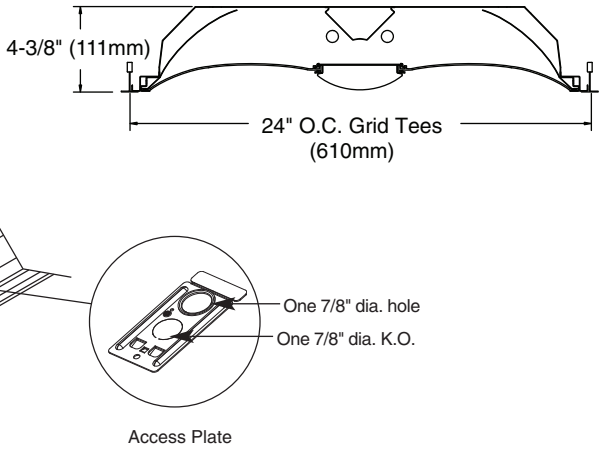
*Standard lamp T8 values assume 70+CRI 32W lamp. 80+CRI lamps or energy saving lamps are also available.

DIMENSIONS

T8 DIFFUSE



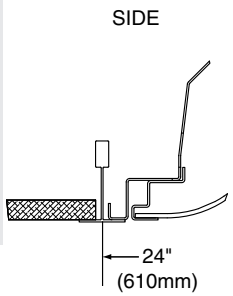
T5 RADIAL LOUVER



2 ST G 2 32

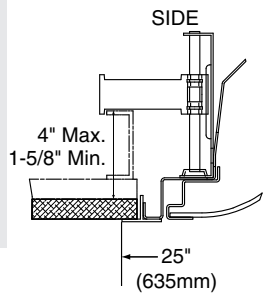
CEILING TYPE

G = GRID (NEMA G)



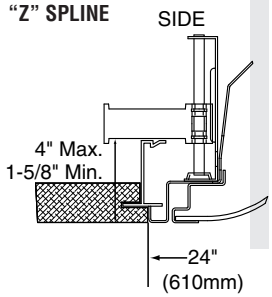
(NEMA Type G)
Lay-in acoustical ceilings using exposed grid suspension, with tees for fixtures on 24" x 48" spacing.

F = FLANGE (NEMA F)



(NEMA Type F)
Flange for acoustical ceilings using concealed mechanical suspension. Swing-jack mounting brackets: adjustment 4" max. and 1-5/8" min. Refer to sheet 801-CL for cut-out information.

Z = (NEMA M/Z) MODULAR AND "Z" SPLINE



(NEMA M/Z)
Modular and "Z" Spline using concealed mechanical suspension. Swing-jack mounting brackets: adjustment 4" max. and 1-5/8" min.

PHILIPS

Day-Brite

2' x 4' SofTrace

PHOTOMETRIC DATA

CATALOG # 2STG232-D-1/2-EB **LAMPS =** F32T8 **INPUT WATTS =** 59
TEST #27034 **S/MH=**1.2 **BALLAST =** ELECTRONIC **BALLAST FACTOR =** 0.88

LER = 72

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = **$3.33** BASED ON 3000 HRS. AND $.08 PER KWH.

FIXTURE EFFICIENCY= 85.2%

T8, DIFFUSE*
***smooth or ribbed center, smooth or ribbed sides**

CANDLEPOWER

Angle	End	45	Cross
0	1725	1725	1725
5	1730	1719	1707
10	1701	1693	1680
15	1661	1653	1639
20	1608	1597	1584
25	1533	1525	1515
30	1444	1439	1443
35	1334	1345	1372
40	1219	1241	1294
45	1089	1137	1214
50	944	1020	1120
55	814	895	996
60	642	756	850
65	492	606	688
70	359	462	517
75	236	320	355
80	135	195	188
85	56	73	66

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*

- 80-50-20 Reflectances (Ceiling-Wall-Floor)
- LLF = 0.75 2850 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 30 ft-c	50 ft-c
2x4	5	127	76
2-Lamp T8	2	86	52
Diffuse	1	63	38

*Observe Fixture S/MH Requirements for Specific Applications

.75LLF = .94LDD x .91LLD x 0.88BF

COEFFICIENT OF UTILIZATION

pfc	20								
pcc	80			70			50		
pw	70	50	30	70	50	30	50	30	
RCR									
0	101	101	101	98	98	98	94	94	
1	93	89	84	90	86	82	82	80	
2	83	77	70	81	76	69	72	68	
3	77	68	60	75	66	59	64	57	
4	69	59	53	68	58	52	56	51	
5	65	54	46	63	53	45	51	44	
6	59	47	40	57	46	40	46	39	
7	55	44	35	54	42	35	41	34	
8	51	40	33	50	39	32	38	32	
9	47	36	29	46	35	28	34	28	
10	45	34	27	44	33	27	32	26	

LIGHT DISTRIBUTION

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	1331	23.4	27.4
0-40	2175	38.2	44.8
0-60	3856	67.7	79.4
0-90	4854	85.2	100.0

PHOTOMETRIC DATA

CATALOG # 2STG228-D-1/2-EB95 **LAMPS =** F28T5 **INPUT WATTS =** 60
TEST #27100 **S/MH=**1.2 **BALLAST =** ELECTRONIC **BALLAST FACTOR =** 0.95

LER = 78

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = **$3.08** BASED ON 3000 HRS. AND $.08 PER KWH.

FIXTURE EFFICIENCY= 95.1%

T5, DIFFUSE*
***smooth or ribbed center, smooth or ribbed sides**

CANDLEPOWER

Angle	End	45	Cross
0	1759	1759	1759
5	1757	1749	1745
10	1732	1723	1718
15	1690	1682	1675
20	1636	1626	1608
25	1559	1549	1534
30	1466	1456	1451
35	1358	1354	1374
40	1232	1249	1306
45	1093	1139	1237
50	941	1024	1154
55	791	903	1046
60	640	768	903
65	495	624	739
70	356	476	565
75	236	335	390
80	136	203	203
85	54	74	65

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*

- 80-50-20 Reflectances (Ceiling-Wall-Floor)
- LLF = 0.85 2600 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 30 ft-c	50 ft-c
2x4	5	145	87
2-Lamp T5	2	98	59
Diffuse	1	71	43

*Observe Fixture S/MH Requirements for Specific Applications

.85LLF = .94LDD x .95LLD x 0.95BF

COEFFICIENT OF UTILIZATION

pfc	20								
pcc	80			70			50		
pw	70	50	30	70	50	30	50	30	
RCR									
0	112	112	112	111	111	111	106	106	
1	103	98	94	101	96	93	93	90	
2	93	85	80	91	83	78	81	76	
3	85	76	68	82	73	67	70	65	
4	78	67	57	76	66	57	63	56	
5	71	59	51	69	58	51	56	48	
6	66	54	45	65	53	45	51	44	
7	61	48	40	59	47	40	46	39	
8	56	44	35	56	44	35	41	34	
9	54	40	33	52	40	33	39	32	
10	50	38	29	48	36	29	35	28	

LIGHT DISTRIBUTION

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	1354	26.0	27.4
0-40	2205	42.4	44.6
0-60	3906	75.1	79.0
0-90	4943	95.1	100.0

PHOTOMETRIC DATA

CATALOG # 2STG232-PMW-1/2-EB **LAMPS =** F32T8 **INPUT WATTS =** 61
TEST #27092 **S/MH=**1.3 **BALLAST =** ELECTRONIC **BALLAST FACTOR =** 0.88

LER = 59

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = **$4.07** BASED ON 3000 HRS. AND $.08 PER KWH.

FIXTURE EFFICIENCY= 72.2%

T8, PERF.

CANDLEPOWER

Angle	End	45	Cross
0	1394	1394	1394
5	1395	1390	1383
10	1373	1372	1369
15	1339	1343	1349
20	1293	1306	1322
25	1230	1258	1288
30	1157	1198	1251
35	1075	1132	1213
40	970	1057	1162
45	869	979	1105
50	755	889	1023
55	632	783	918
60	506	666	790
65	385	529	651
70	279	403	508
75	184	279	348
80	103	158	156
85	40	38	39

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*

- 80-50-20 Reflectances (Ceiling-Wall-Floor)
- LLF = 0.75 2850 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 30 ft-c	50 ft-c
2x4	5	108	65
2-Lamp T8	2	72	43
Perf.	1	53	32

*Observe Fixture S/MH Requirements for Specific Applications

.75LLF = .94LDD x .91LLD x 0.88BF

COEFFICIENT OF UTILIZATION

pfc	20								
pcc	80			70			50		
pw	70	50	30	70	50	30	50	30	
RCR									
0	85	85	85	83	83	83	80	80	
1	79	75	71	77	72	70	69	68	
2	70	65	59	68	64	58	60	57	
3	65	56	51	63	56	51	54	48	
4	58	51	44	57	50	44	47	42	
5	55	45	39	53	44	38	42	36	
6	50	40	34	48	40	34	39	33	
7	46	36	29	45	35	29	34	29	
8	42	33	27	41	33	27	32	27	
9	40	30	25	39	29	25	28	23	
10	38	28	23	36	28	22	27	22	

LIGHT DISTRIBUTION

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	1091	19.1	26.5
0-40	1803	31.6	43.8
0-60	3254	57.1	79.1
0-90	4115	72.2	100.0

NVLAP®

The photometric results were obtained in the Day-Brite Lighting Laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

0169.2-AR

2' x 4' SofTrace

PHOTOMETRIC DATA

CATALOG # 2STG228-PMW-1/2-EB95 **LAMPS =** F28T5 **INPUT WATTS =** 60
TEST #27099 **S/MH=**1.3 **BALLAST =** ELECTRONIC **BALLAST FACTOR =** 0.95

LER = 66

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = **$3.64** BASED ON 3000 HRS. AND $.08 PER KWH.

FIXTURE EFFICIENCY= 80.6%

T5, PERF.

CANDLEPOWER

Angle	End	45	Cross
0	1403	1403	1403
5	1407	1401	1390
10	1382	1380	1377
15	1348	1348	1355
20	1300	1314	1326
25	1242	1265	1290
30	1169	1205	1252
35	1086	1141	1217
40	986	1069	1178
45	880	990	1127
50	760	900	1054
55	640	801	953
60	514	683	827
65	394	553	688
70	287	418	544
75	190	294	361
80	106	165	161
85	43	40	40

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*

- 80-50-20 Reflectances (Ceiling-Wall-Floor)
- LLF = 0.85 2600 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	
		30 ft-c	50 ft-c
2x4	5	123	74
2-Lamp T5	2	83	50
Perf.	1	60	36

*Observe Fixture S/MH Requirements for Specific Applications

.85LLF = .94LDD x .95LLD x 0.95BF

COEFFICIENT OF UTILIZATION

pfc	20							
pcc	80			70			50	
pw	70	50	30	70	50	30	50	30
RCR								
0	105	105	105	102	102	102	97	97
1	96	93	89	93	91	88	86	84
2	89	81	76	85	80	75	77	72
3	81	71	66	79	70	65	68	63
4	75	65	56	72	63	56	60	55
5	68	57	50	67	56	50	55	48
6	64	52	45	61	52	44	50	44
7	58	47	40	57	46	40	46	39
8	55	44	35	54	42	35	41	35
9	52	40	33	50	40	33	39	32
10	47	36	29	46	36	29	35	29

LIGHT DISTRIBUTION

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	1098	21.1	26.2
0-40	1815	34.9	43.3
0-60	3293	63.3	78.6
0-90	4189	80.6	100.0

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PHILIPS Day-Brite