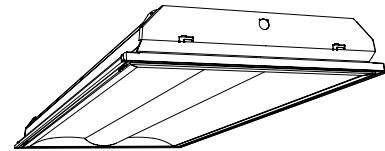


Architectural Fluorescent

SofTrace Air

2x4 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 or 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, Z-spline/ Modular, or Screw Slot models available.
- Designed for air supply/return through side slots in reveal. See sheet 518.1-AH for air flow data.

construction/finish

- One piece die-formed embossed steel housing provides added rigidity, resists damage during shipment/handling.
- Black reveal around enclosure provides floating appearance and disguises air slots. White reveal is available.
- Wireway cover is easily removable from below without tools.
- T-bar grid clips are built into luminaire ends for quick and easy installation, no extra parts required.
- 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 dry locations.
- Systems are available offering electrical system efficacy ratings up to 102 Lumens/Watt.
- Total luminaire efficacy as high as 88 LPW.

enclosure

- 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.

Specifier's Reference

Project
Type
Model No.
Comments

Green Choice: 2STGA232-D-UNV-1/2-EBLHE-LPT835HL

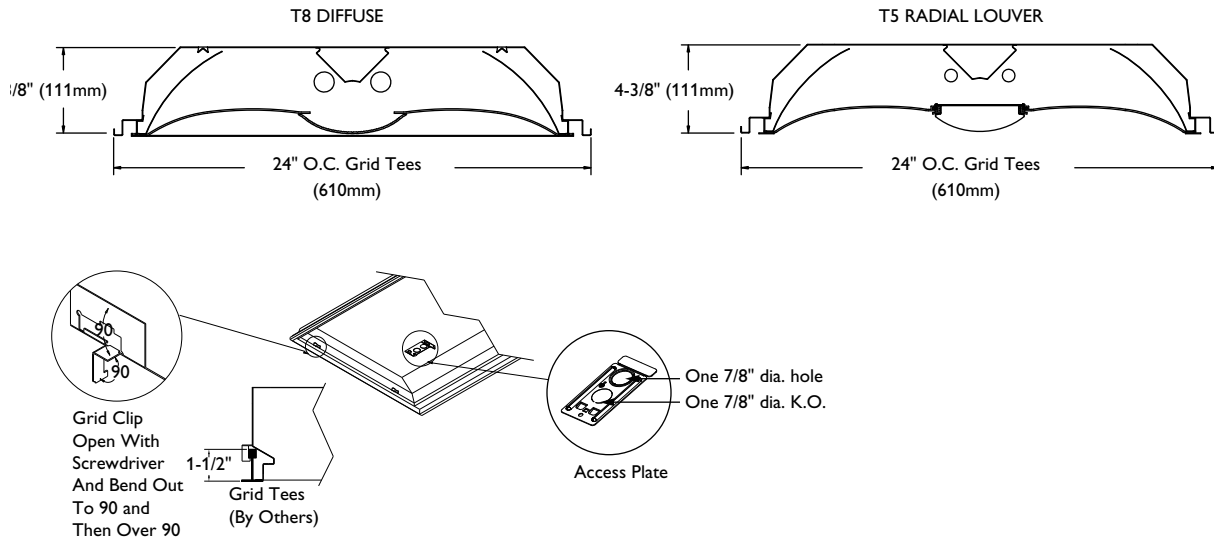
2	ST	2	-	-	1/2	-	-
Width	Ceiling Type	No. of Lamps	Center Diffuser	Ballast	Options		
2 - 2'	G - Grid F - Flange Z - Z Spline/ Modular T - Screw Slot	(not included) 2	D - Diffuse (Ribbed) DS - Diffuse (Smooth) PMW - Round Perf. w/ white overlay WO - Radial louver w/ white overlay	1/2 - One 2-Lamp ballast	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 E6LP* - 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 hi lumen lamps, 80+ CRI, 3000K LPT835HL - Installed T8 hi lumen lamps, 80+ CRI, 3500K LPT841HL - Installed T8 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 fabrication WR - White reveal RIB - Ribbed side diffusers *Factory installed		
Family	Air Function	Lamp Type/ Wattage	Voltage	Ballast Type			
ST - SofTrace	A - Air Supply/Return S - Static (reveal but no air slots)	28 - 28WT5 (46") 32 - 32WT8 (48") 54HO - 54WT5HO (46")	120 277 347 UNV - Universal Voltage, 120-277 volt	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 EBHE - T8 Electronic ballast, high efficiency, std. 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 EBLHE - T8 electronic ballast, high efficiency, low ballast factor EBH - T8 Electronic ballast, hi ballast factor EBHHE - T8 electronic ballast, high efficiency, high ballast factor EB101 - T8 Electronic ballast, <10% THD, instant start EB10R - T8 Electronic ballast, <10% THD, rapid start EBSD - T8 Electronic step dimming ballast			

energy data

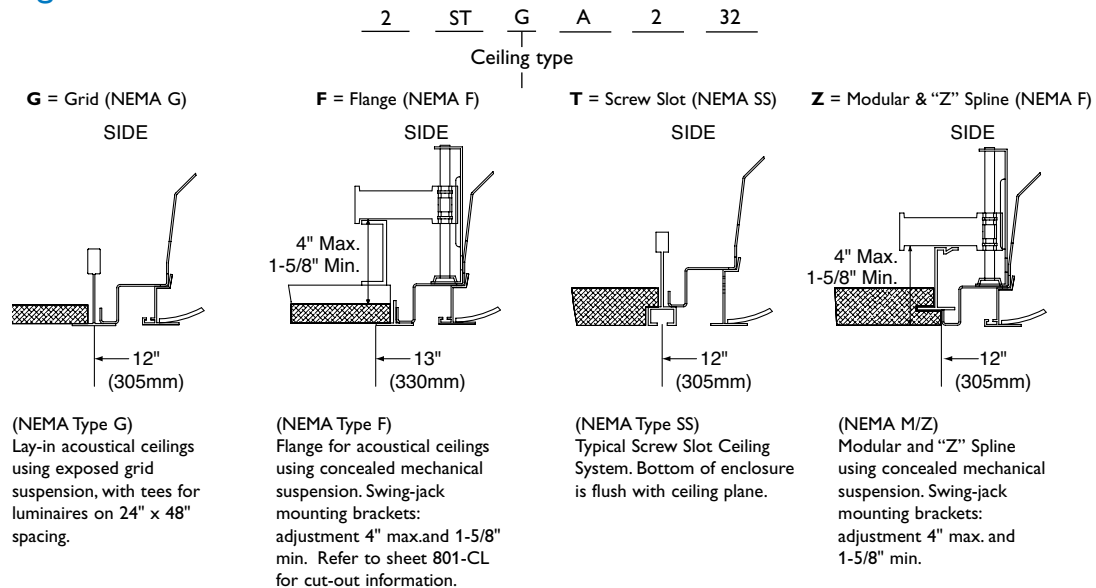
Lamp Type	Ballast Type	Input Power (120/277V)	Electrical System Lumens/Watt	
			Std. Lamps*	Hi-Lumen Lamps
28	EB95	59W / 58W	95	100
	EBS95@hi	59W / 58W	95	100
	EBS95@lo	28W / 28W	73	76
	EB115	71W / 69W	97	102
	EBS115@hi	71W / 71W	94	99
	EBS115@lo	35W / 35W	80	81
	EB	66W / 64W	91	95
32	EB	58W / 58W	85	94
	EBHE	55W / 54W	90	100
	EB10I	59W / 58W	85	94
	EB10R	62W / 60W	82	91
	EBL	50W / 49W	88	97
	EBLHE	47W / 47W	92	102
	EBH	77W / 77W	87	97
	EBHHE	74W / 73W	91	100
	EBS@hi	57W / 56W	88	97
	EBS@lo	28W / 28W	60	66
	54HO	EB	120W / 117W	85
EBS80@hi		96W / 93W	86	-
EBS80@lo		52W / 51W	78	-

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

dimensions



ceiling configuration



photometry

ST 2x4 2 Lamp T8 Diffuse*

Efficiency – 85.2%

LER – 72

TER – 63

Catalog No. 2STGA232-D-1/2-EB Test No. 27034D1 S/MH 1.2 Lamp Type F32T8 Lumens/Lamp 2850 Ballast Factor .88 Input Watts 59 Comparative yearly lighting energy cost per 1000 lumens – \$3.33 based on 3000 hrs. and \$.08 pwr KWH. The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology. *smooth or ribbed center; smooth or ribbed sides	Candlepower				Light Distribution			
	Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire
	0	1725	1725	1725	0-30	1331	23.4	27.4
	5	1730	1719	1707	0-40	2175	38.2	44.8
	10	1701	1693	1680	0-60	3856	67.7	79.4
	15	1661	1653	1639	0-90	4854	85.2	100.0
	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					

ST 2x4 2 Lamp T5 Diffuse*

Efficiency – 95.1%

LER – 78

TER – 68

Catalog No. 2STGA228-D-1/2-EB95 Test No. 27100D1 S/MH 1.2 Lamp Type F28T5 Lumens/Lamp 2600 Ballast Factor .95 Input Watts 60 Comparative yearly lighting energy cost per 1000 lumens – \$3.08 based on 3000 hrs. and \$.08 pwr KWH. The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology. *smooth or ribbed center; smooth or ribbed sides	Candlepower				Light Distribution			
	Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire
	0	1759	1759	1759	0-30	1354	26.0	27.4
	5	1757	1749	1745	0-40	2205	42.4	44.6
	10	1732	1723	1718	0-60	3906	75.1	79.0
	15	1690	1682	1675	0-90	4943	95.1	100.0
	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					

ST 2x4 2 Lamp T8 Perf.*

Efficiency – 72.2%

LER – 59

TER – 52

Catalog No. 2STGA232-PMW-1/2-EB Test No. 27092D1 S/MH 1.3 Lamp Type F32T8 Lumens/Lamp 2850 Ballast Factor .88 Input Watts 61 Comparative yearly lighting energy cost per 1000 lumens – \$4.07 based on 3000 hrs. and \$.08 pwr KWH. The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology. *smooth or ribbed sides	Candlepower				Light Distribution			
	Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire
	0	1394	1394	1394	0-30	1091	19.1	26.5
	5	1395	1390	1383	0-40	1803	31.6	43.8
	10	1373	1372	1369	0-60	3254	57.1	79.1
	15	1339	1343	1349	0-90	4115	72.2	100.0
	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					

0179.2-AR

photometry

SofTrace Air 2X4 2 Lamp T5, T5HO, or T8

ST 2x4 2 Lamp T5 Perf.*

Efficiency – 80.6%

LER – 66

TER – 65

		Candlepower				Light Distribution			
Catalog No.	2STGA228-PMW-1/2-EB95	Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire
Test No.	27099D1	0	1403	1403	1403	0-30	1098	21.1	26.2
S/MH	1.3	5	1407	1401	1390	0-40	1815	34.9	43.3
Lamp Type	F28T5	10	1382	1380	1377	0-60	3293	63.3	78.6
Lumens/Lamp	2600	15	1348	1348	1355	0-90	4189	80.6	100.0
Ballast Factor	.95	20	1300	1314	1326				
Input Watts	60	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				
Comparative yearly lighting energy cost per 1000 lumens – \$3.64 based on 3000 hrs. and \$.08 pwr KWH.									
The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.									
*smooth or ribbed sides									
						Coefficients of Utilization			
						EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)			
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



©2011 Philips Day-Brite
All rights reserved.

776 South Green Street • Tupelo, MS 38804
p. 800.234.1890 • f. 662.841.5501
Canadian Division
189 Bullock Drive • Markham, Ontario L3P 1W4
p. 905.294.9570 • f. 905.294.9811

Contact Factory for Additional Configurations.
Specifications are subject to change without notice.

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

