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.

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 90 Lumens/Watt.
- Total luminaire efficacy as high as 76 LPW.

enclosure

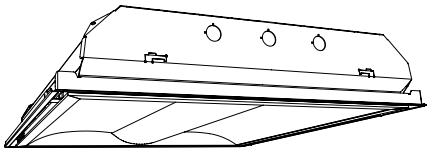
- Center section is flush with outer panels, eliminating the dirt and debris collection typical of suspended "baskets."
- One-piece enclosure hinges down as an assembly for easy access to lamps and ballast from below without tools.
- T-hinges provide secure retention of enclosure and eliminate non-captive 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.

0177-AR

Architectural Fluorescent

SofTrace Air

2x2 2 Lamp
T5, T5HO, T8, or CFTT5



c UL us

Specifier's Reference

Project
Type
Model No.
Comments

Green Choice: 2STGA217-D-UNV-1/2-EBHHE-LPT835HL

2 _ _ 2 _ _ _ 1/2 _ _

Width
2 – 2'

Family
ST – SofTrace
STCP – Chicago Plenum Model

Ceiling Type
G – Grid
F – Flange
Z – Z Spline/Modular
T – Screw Slot

Air Function
A – Air supply/return
S – Static (Reveal but no air slots)

No. of Lamps
(not included)
2

Lamp Type/ Wattage
14 – 14WT5 (22")
17 – 17WT8 (24")
24HO – 24WT5HO (22")
CF40 – 40WTT5 (24")
CF50 – 50WTT5 (24")
CF55 – 55WTT5 (24")

Center Diffusers
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 Configuration
1/2 – One 2-lamp ballast

Ballast Type
EB95 – T5 electronic ballast, .95 ballast factor
EB115 – T5 electronic ballast, 1.15 ballast factor
EBSD95 – T5 electronic step dimming ballast, .95 ballast factor
EBSD115 – T5 electronic step dimming ballast, 1.15 ballast factor
EBSD80 – 54wT5HO electronic step dimming ballast, .80 ballast factor
EBD – T5/T5HO/T8/CF electronic dimming ballast
EB – T5/T5HO/T8/CF 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, program rapid start
EBSD – T8 electronic step dimming ballast,.88 ballast factor
EBSD104 – T8 electronic step dimming ballast, 1.04 ballast factor
EBHE – T8 electronic ballast, high efficiency std. ballast factor
EBLHE – T8 electronic ballast, high efficiency, low ballast factor
EBHHE – T8 electronic ballast, high efficiency, high ballast factor

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, CF/T8, 350-450 lumens
E7 – DEB-7 emerg. ballast, CF/T8, 600-700 lumens
E5 – DEB-5 emerg. ballast, CF/T8, 1100-1400 lumens
E7LP – DEB-7LP emerg. ballast T8/T5/T5HO, 430-700 lumens
E6LP – DEB-6LP emerg. ballast, T8/T5/T5HO, 750-1325 lumens
GLR# – Fusing, fast blow (# = number of ballasts)
IC – Suitable for Type-IC (insulated ceiling) applications
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 CF/T8/T5/T5HO lamps, 80+ CRI, 3000K
LPT835 – Installed CF/T8/T5/T5HO lamps, 80+ CRI, 3500K
LPT841 – Installed CF/T8/T5/T5HO lamps, 80+ CRI, 4100K
PAF – Housing painted after fabrication
WR – White reveal
RIB – Ribbed side diffusers (2x2 or 2x4 only)

Accessories

FKDP22 – Flange conversion kit 2'x2'
FMA22 – 2'x2' "F" mounting frame for NEMA "F" mounting

PHILIPS Day-Brite PHILIPS CFI

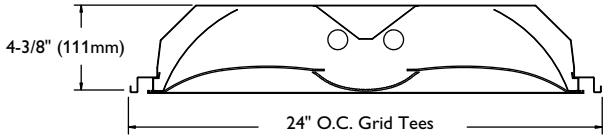
energy data

Lamp Type	Ballast Type	Input Power (120/277V)	Electrical System Lumens/Watt	
			Std. Lamps*	Hi-Lumen Lamps
14	EB	34W / 34W	84	–
	EBSD95@hi	35W / 35W	77	–
	EBSD95@lo	16W / 16W	62	–
	EBSD115@hi	38W / 37W	84	–
	EBSD115@lo	18W / 19W	57	–
17	EB	34W / 34W	76	86
	high eff. EB	30W / 30W	80	90
	EB10I	33W / 33W	75	85
	EB10R	34W / 34W	74	84
	EBL	30W / 30W	76	86
	EBH	43W / 43W	78	88
	EBSD@hi	30W / 30W	77	87
	EBSD@lo	16W / 16W	50	57
24HO	EB	53W / 52W	77	–
CF40	EB	76W / 73W	79	–
CF50	EB	106W / 106W	85	–
CF55	EB	112W / 109W	79	–

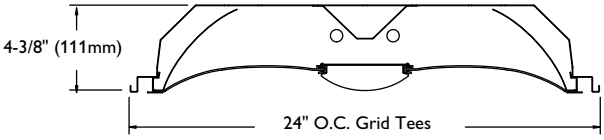
*T8 values assume 70+CRI lamp. 80+CRI lamps with increased lumen ratings are also available.

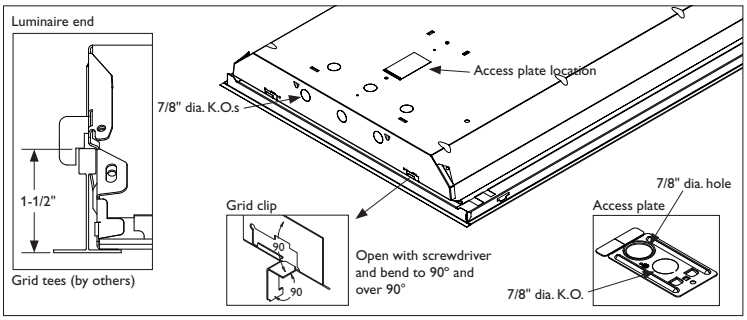
dimensions

T8 DIFFUSE



T5 RADIAL LOUVER





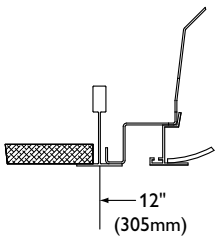
ceiling configuration

2 ST G A 2 17

Ceiling type

G = Grid (NEMA G)

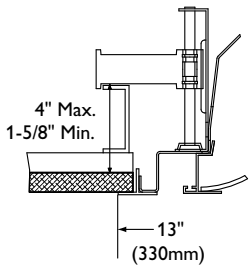
SIDE



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

F = Flange (NEMA F)

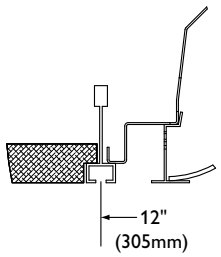
SIDE



(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.

T = Screw Slot (NEMA SS)

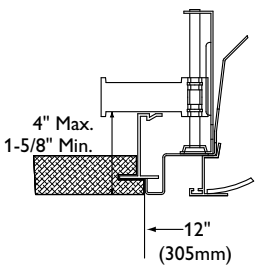
SIDE



(NEMA Type SS)
Typical Screw Slot Ceiling System. Bottom of enclosure is flush with ceiling plane.

Z = Modular & "Z" Spline (NEMA M/Z)

SIDE



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

photometry

STGA 2x2 2 Lamp T8

Efficiency – 81.7% **LER – 60** **TER – 51**

Catalog No.	2STGA217-D-1/2-EB
Test No.	27039D1
S/MH	1.3
Lamp Type	F17T8
Lumens/Lamp	1325
Ballast Factor	0.88
Input Watts	32

Comparative yearly lighting energy cost per 1000 lumens – **$4.00** 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.

Candlepower

Angle	End	45	Cross
0	779	779	779
5	773	775	777
10	762	763	765
15	743	744	745
20	718	719	721
25	685	687	693
30	640	648	659
35	593	605	629
40	537	557	595
45	475	508	559
50	407	452	516
55	339	396	461
60	271	330	391
65	208	264	317
70	150	199	240
75	99	136	166
80	56	81	89
85	23	29	30

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	600	22.6	27.7
0-40	980	37.0	45.3
0-60	1729	65.2	79.8
0-90	2165	81.7	100.0

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	96	96	96	94	94	94	91	91
1	89	84	81	86	82	80	80	77
2	81	73	68	79	72	68	69	66
3	73	65	58	71	64	57	60	56
4	68	57	51	66	56	50	55	48
5	61	52	44	59	51	44	48	42
6	56	46	39	56	46	39	44	38
7	53	41	34	52	40	34	40	34
8	48	38	30	47	38	30	36	30
9	46	34	28	45	34	28	34	28
10	42	33	26	41	32	26	30	26

STGA 2x2 2 Lamp T5

Efficiency – 88.9% **LER – 65** **TER – 57**

Catalog No.	2STGA214-D-1/2-EB
Test No.	27067D1
S/MH	1.2
Lamp Type	F14T5
Lumens/Lamp	1200
Ballast Factor	1.00
Input Watts	33

Comparative yearly lighting energy cost per 1000 lumens – **$3.69** 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.

Candlepower

Angle	End	45	Cross
0	772	772	772
5	764	767	772
10	753	755	760
15	734	737	739
20	708	710	712
25	673	675	679
30	632	635	640
35	580	588	605
40	528	540	574
45	465	488	543
50	397	439	507
55	331	385	460
60	266	327	402
65	202	264	328
70	146	200	254
75	96	137	177
80	56	83	96
85	22	30	29

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	592	24.7	27.8
0-40	962	40.1	45.1
0-60	1694	70.6	79.4
0-90	2134	88.9	100.0

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	106	106	106	103	103	103	98	98
1	96	93	89	93	91	86	86	83
2	88	81	75	85	79	72	76	70
3	80	70	64	78	68	63	67	60
4	72	63	55	70	61	54	58	53
5	68	56	47	66	55	47	53	46
6	61	50	42	60	50	41	47	40
7	57	46	38	56	45	38	44	36
8	54	41	34	52	40	34	40	33
9	50	38	30	48	38	30	36	29
10	46	34	28	46	34	28	34	28

STGA 2x2 2 Lamp T8

Efficiency – 68.9% **LER – 52** **TER – 44**

Catalog No.	2STGA217-PMW-1/2-EB
Test No.	27112D1
S/MH	1.4
Lamp Type	F17T8
Lumens/Lamp	1325
Ballast Factor	0.88
Input Watts	31

Comparative yearly lighting energy cost per 1000 lumens – **$4.62** 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.

Candlepower

Angle	End	45	Cross
0	623	623	623
5	618	623	620
10	608	610	614
15	592	597	604
20	570	580	592
25	543	558	580
30	509	533	566
35	470	505	550
40	425	472	530
45	377	435	502
50	323	393	465
55	269	344	419
60	213	289	366
65	162	231	308
70	117	180	239
75	77	123	155
80	44	66	73
85	16	16	19

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	485	18.3	26.6
0-40	803	30.3	43.9
0-60	1445	54.5	79.1
0-90	1827	68.9	100.0

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	81	81	81	80	80	80	77	77
1	75	71	68	72	69	68	67	65
2	68	61	57	66	60	56	58	55
3	61	55	48	59	54	47	52	46
4	56	47	41	55	46	41	46	40
5	52	42	36	51	41	35	40	35
6	47	39	33	46	38	32	36	32
7	45	34	28	42	34	28	33	28
8	40	32	26	40	32	26	30	25
9	39	28	23	38	28	23	28	23
10	35	27	22	34	27	20	26	20

0177 AR

photometry

STGA 2x2 2 Lamp T5 **Efficiency – 78.9%** **LER – 56** **TER – 48**

Catalog No.	2STGA214-PMW-1/2-EB
Test No.	27115D1
S/MH	1.4
Lamp Type	F14T5
Lumens/Lamp	1200
Ballast Factor	1.00
Input Watts	34

Comparative yearly lighting energy cost per 1000 lumens – **$4.29** 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.

Candlepower

Angle	End	45	Cross
0	639	639	639
5	636	636	636
10	624	625	628
15	608	612	617
20	585	593	603
25	557	572	589
30	523	543	574
35	485	515	561
40	438	482	544
45	386	446	520
50	333	406	489
55	276	359	443
60	220	305	387
65	167	243	337
70	121	185	269
75	81	138	167
80	45	68	81
85	17	17	21

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	497	20.7	26.2
0-40	821	34.2	43.4
0-60	1488	62.0	78.5
0-90	1894	78.9	100.0

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	93	93	93	92	92	92	88	88
1	85	81	79	83	80	77	77	73
2	78	70	66	76	69	65	67	63
3	70	61	56	68	60	55	58	54
4	65	55	47	63	54	47	52	46
5	58	48	41	57	47	40	46	40
6	55	44	36	53	42	36	41	35
7	51	40	33	48	39	33	38	32
8	46	35	29	46	35	28	34	28
9	44	33	27	42	33	27	32	26
10	40	30	23	40	29	23	29	23

Hg

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

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

Philips Lighting Company
281 Hillmount Road
Markham ON, Canada L6C 2S3
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