

**1, 2, or 3 Lamp
T8**

These fixtures meet the basic requirements of IESNA RP-1 for use in spaces containing Video Display Terminals.

APPLICATION

- Ideal for areas with video display terminals.
- Premium quality recessed air handling troffer for use in:
 - Grid inverted T (NEMA “G”) ceilings.
 - Flange-type ceilings with concealed mechanical suspension (NEMA “F”).
 - Modular and “Z” spline (NEMA “M/Z”) ceilings.
 - Contact Day-Brite for other ceiling types.
- Select one of the four air handling functions:
 - Static; non-air handling.
 - Heat transfer; air return through lamp compartment.
 - Air supply; (or air return) through side slots.
 - Combination; both heat transfer and air supply features listed above.
- Adjustable pattern control blades are optional.
- Air boots by others.

CONSTRUCTION/FINISH

- Housing is multi-stage phosphate treated for maximum corrosion resistance and finish coat is high reflectance baked white enamel.
- Access plate (2 K.O.’s) factory installed includes grounding screw.
- T Bar grid clips (UL listed, patented) built into fixture end plates, no extra parts required.

SIDE MOUNTED BALLASTS

- Reduce ballast operating temperatures (two surface contact, away from lamps).
- Increase average ballast life and fixture efficiency.
- All lamps on the same plane.

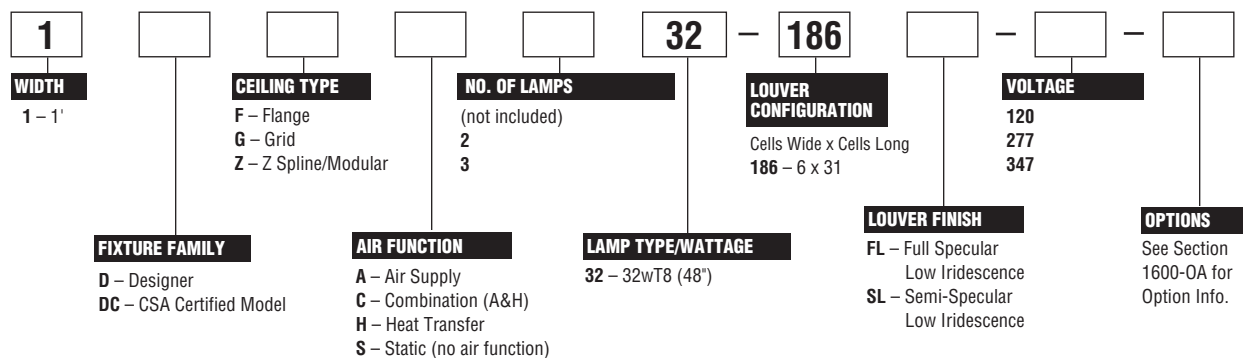
ELECTRICAL

- Class P, HPF, CBM certified ballasts comply with ©Federal Ballast Law (Public Law 100-357,1988).
- Self-contained fluorescent emergency power packs can be incorporated. (1 and 2 lamp fixtures only).
- UL listed for damp locations. C.S.A. certified optional.

ENCLOSURES

- Exceptionally low brightness in the 60-90° zone.
- 1-1/2" x 1-1/2" x 3/4" Anodized Aluminum Louvers with concealed frame.
- 30° Shielding.
- Black Reveal for "Floating Louver" appearance.
- Anodized aluminum louvers resist stains and scratches and can be cleaned repeatedly without damage to louver finish.
- Specular low iridescence aluminum is standard. Semi-specular low iridescence aluminum is optional.
- Interchangeability between louvers and lensed enclosures.
- Shipped with plastic film to keep out construction dirt.

CATALOG NUMBER



NOTES:

- With generic Electronic Ballasts (Brand selected by Day-Brite)
Suffix Catalog # with- **Ballast Quantity** - / - **EB Lamps Per Ballast.**

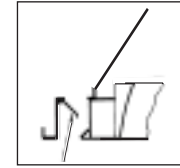
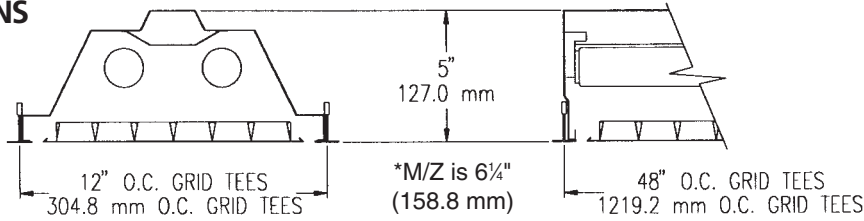
Example: -1/2-EB = One 2 Lamp Electronic Ballast.

Example: -1/3-EB = One 3 Lamp Electronic Ballast.

1' x 4' VDT CF-15 1 LAMP



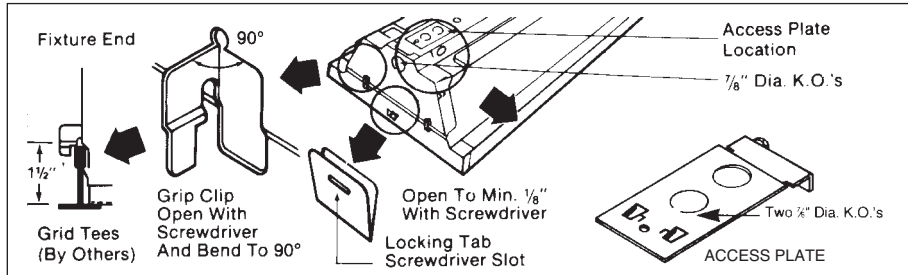
DIMENSIONS



Optional Air Pattern Control
(on Air and Combination Units)

- Fully adjustable
 - Closed= Static
 - 45°= Horizontal Air Supply
 - 90°= (fully open) - Vertical Air Supply

Side Slots may also be used for Return Air to Plenum



PHOTOMETRIC DATA

CATALOG # 1DGS132-186FL-1/1-EB LAMPS = F32 T8 INPUT WATTS = 35
TEST #14229 S/MH=1.5 BALLAST = ELECTRONIC BALLAST FACTOR = .96

LER = FP-40

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$6.00 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 50.2%

CANDLEPOWER			
Angle	End	45	Cross
0	619	619	619
5	619	620	618
10	607	616	617
15	588	610	639
20	561	610	672
25	530	613	666
30	493	599	631
35	450	561	597
40	402	509	557
45	349	452	531
50	285	372	432
55	197	270	241
60	85	136	96
65	21	36	30
70	9	11	15
75	5	6	8
80	3	3	3
85	1	1	1

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*

- 80-50-20 Reflectances (Ceiling-Wall-Floor)
- LLF = 0.79 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
1' X 4'	5	125	42	-	-	-
1 Lamp	2	90	30	-	-	-
	1	67	-	-	-	-

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 2900 LUMEN LAMPS			
ANGLE	END	45°	CROSS
45	2186	2831	3326
55	1521	2085	1861
65	220	377	314
75	86	103	137
85	51	51	51

TYPICAL V.C.P.'s				
Room Size	Mounting Height		Lengthwise Crosswise	
	8.5	10	8.5	10
30x30	95	92	94	90
40x40	97	95	96	93
60x30	97	95	96	94
60x60	98	96	97	96
100x100	99	98	99	98

COEFFICIENT OF UTILIZATION

pfc pcc pw RCR	20			70			50		
	70	50	30	70	50	30	50	30	
0	60	60	60	58	58	58	56	56	
1	56	54	53	55	53	52	51	50	
2	52	49	46	51	48	45	46	44	
3	48	44	40	47	43	40	41	39	
4	44	39	36	43	39	35	37	34	
5	41	35	32	40	35	31	34	31	
6	38	32	28	37	32	28	31	27	
7	35	29	25	35	29	25	28	25	
8	33	27	23	32	26	23	26	22	
9	31	25	21	30	24	21	24	20	
10	29	23	19	28	22	19	22	19	

LIGHT DISTRIBUTION

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	510	17.6	35.1
0-40	848	29.2	58.3
0-60	1407	48.5	96.7
0-90	1455	50.2	100.0

LLF = .79 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 = 0.96 ELECTRONIC BALLAST & T-8 LAMP (RELAMP AT 70% LAMP LIFE)

1 D G S 2 32 -

FIXTURE TYPE

G = GRID (NEMA G)

(304.8 mm) (1219.2 mm)

(NEMA Type G)
Lay-in acoustical ceilings using exposed grid suspension, with tees for fixtures on 12" x 48" spacing.

F = FLANGE (NEMA F)

(330.2 mm) (1244.6 mm)

(NEMA Type F)
Flange for acoustical ceilings using concealed mechanical suspension. Swing-jack mounting brackets: adjustment 3/4" max. and 1/4" min.

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

(304.8 mm) (1219.2 mm)

(NEMA M/Z)
Modular and "Z" Spline using concealed mechanical suspension. Swing-jack mounting brackets: adjustment 3/4" max. and 1/4" min.

PHOTOMETRIC DATA

CATALOG # 1DGS232-186FL-1/2-EB
TEST #14934 S/MH=1.2

LAMPS = F32 T8
BALLAST = ELECTRONIC

INPUT WATTS = 57
BALLAST FACTOR = .96

LER = FP-45

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = **\$5.33** BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 46.5%

CANDLEPOWER				
Angle	End	45	Cross	
0	1447	1447	1447	
5	1450	1445	1439	
10	1425	1427	1414	
15	1376	1374	1356	
20	1316	1303	1294	
25	1241	1220	1193	
30	1155	1112	1084	
35	1056	982	951	
40	943	844	809	
45	816	699	703	
50	665	544	627	
55	452	377	415	
60	192	205	157	
65	45	61	47	
70	20	18	25	
75	11	10	13	
80	6	5	6	
85	3	2	2	

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*

- 80-50-20 Reflectances (Ceiling-Wall-Floor)
- LLF = 0.79 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
1' X 4' 2 Lamp	5	-	77	46	33	-
	2	-	57	34	-	-
	1	130	43	-	-	-

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 2900 LUMEN LAMPS

ANGLE	END	45°	CROSS
45	5110	4378	4403
55	3490	2911	3204
65	472	639	492
75	188	171	222
85	152	102	102

TYPICAL V.C.P.'s

Room Size	Mounting Height			
	8.5	10	8.5	10
30x30	90	86	90	86
40x40	93	89	93	90
60x30	94	91	94	91
60x60	94	92	95	93
100x100	96	94	97	95

COEFFICIENT OF UTILIZATION

pfc	20				70				50			
	70	50	30		70	50	30		50	30		
RCR	55	55	55	54	54	54	52	52	52	52	52	52
0	52	50	49	51	49	48	47	46	46	46	46	46
2	48	45	43	47	45	42	43	41	41	41	41	41
3	45	41	38	44	40	38	39	37	37	37	37	37
4	42	37	34	41	37	33	36	33	33	33	33	33
5	39	34	30	38	33	30	32	29	29	29	29	29
6	36	31	27	35	30	27	30	27	27	27	27	27
7	34	28	25	33	28	24	27	24	24	24	24	24
8	32	26	22	31	26	22	25	22	22	22	22	22
9	30	24	21	29	24	20	23	20	20	20	20	20
10	28	22	19	27	22	19	22	19	19	19	19	19

LIGHT DISTRIBUTION

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	1084	18.7	40.2
0-40	1704	29.4	63.1
0-60	2618	45.1	97.0
0-90	2699	46.5	100.0

LLF = .79 LLF = LIGHT LOSS FACTOR LLF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90
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