

**2, 3, or 4 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 other.

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.
- Built in (UL listed, patented) grid clips designed for use with standard 1-1/2" high grid ceiling members.

ELECTRICAL

- Class P, HPF ballasts comply with ⓈFederal Ballast Law (Public Law 100-357,1988).
- UL listed for damp locations. Canadian certified optional.
- Self-contained fluorescent emergency power packs can be incorporated, UL listed for dry locations.

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

2					32	–	377		–		–	
WIDTH	CEILING TYPE	NO. OF LAMPS	LOUVER CONFIGURATION	VOLTAGE	FIXTURE FAMILY	AIR FUNCTION	LAMP TYPE/WATTAGE	LOUVER FINISH	OPTIONS			
2 – 2'	F – Flange G – Grid Z – Z Spline/Modular	(not included) 2 3 4	Cells Wide x Cells Long 377 – 13 x 29	120 277 347 UNV – Universal voltage, 120-277 volt	DP – Designer DPC – CSA Certified Model	A – Air Supply C – Combination (A&H) H – Heat Transfer S – Static (no air function)	32 – 32wT8 (48")	FL – Full Specular Low Iridescence SL – Semi-Specular Low Iridescence	APC – Air pattern control blades ASC – Snap out air slot covers PAF – Housing painted after stamping 1/2 – One 2-lamp ballast (electronic or non-standard) 1/3 – One 3-lamp ballast (electronic or non-standard) 1/4 – One 4-lamp ballast (electronic or non-standard) 1/21 – 2-lamp & 1-lamp ballasts (electronic or non-standard) 2/2 – Two 2-lamp ballasts (electronic or non-standard) EB – Electronic ballast, <20% THD EB10I – Electronic ballast, instant start, <10% THD EB10R – Electronic ballast, program rapid start, <10% THD E1 – DEB-1 emerg. ballast, 350-450 lumens, UL dry loc. E7 – DEB-7 emerg. ballast, 600-700 lumens, UL dry loc. E5 – DEB-5 emerg. ballast, 1100-1400 lumens, UL dry loc. E5ST – DEB-5ST emerg. ballast w/self test, 1100-1400 lumens, UL dry loc. F1 – Installed flex, 3/8" diameter, 18 gauge, 3 wire, 6' F2 – Installed flex, 3/8" diameter, 18 gauge, 4 wire, 6' GLR# – Fusing, fast blow (# = number of ballasts) LPT735 – Installed lamps, 70+ CRI, 3500K			

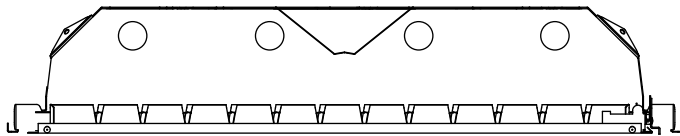
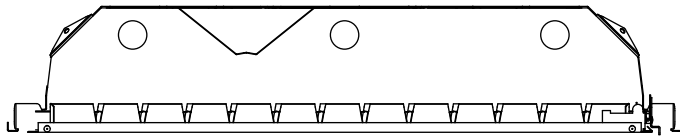
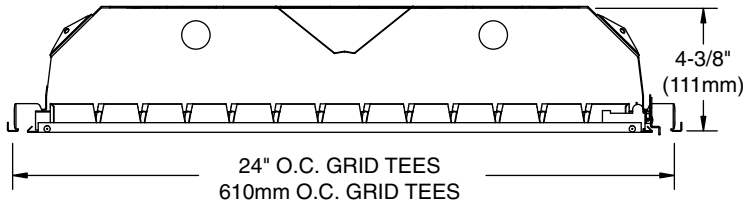
JOB INFORMATION

135.2-VDT

2' x 4' VDT CF-15 2 LAMP

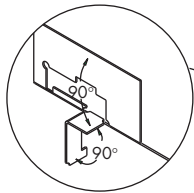


DIMENSIONS

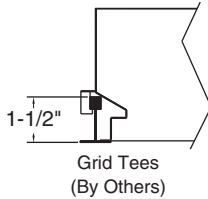


Optional Air Pattern Control
(on Air and Combination Units)

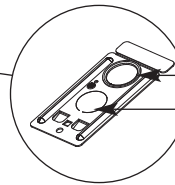
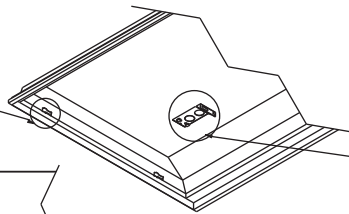
- Fully adjustable
 - Closed= Static
 - 45°= Horizontal Air Supply
 - 90°= (fully open) – Vertical Air Supply
- Side Slots may also be used for Return Air to Plenum



Grid Clip
Open With
Screwdriver
And Bend Out
to 90° and
Then Over 90°



Grid Tees
(By Others)



One 7/8" dia. hole
One 7/8" dia. K.O.

Access Plate

PHOTOMETRIC DATA

CATALOG # 2DGS232-377FL-1/2-EB
TEST #14913 S/MH=1.5

LAMPS = F32 T8
BALLAST = ELECTRONIC

INPUT WATTS = 59
BALLAST FACTOR = .96

LER = FP-58

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$4.14 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 61.9%

CANDLEPOWER				
Angle	End	45	Cross	
0	1603	1603	1603	
5	1604	1589	1570	
10	1578	1548	1518	
15	1529	1486	1460	
20	1484	1412	1412	
25	1383	1339	1453	
30	1290	1295	1547	
35	1182	1297	1466	
40	1060	1264	1287	
45	929	1127	1227	
50	775	931	1148	
55	596	726	865	
60	269	410	345	
65	34	99	29	
70	12	14	15	
75	7	7	10	
80	3	3	6	
85	2	1	3	

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
2' X 4'	5	—	102	61	44	31
2 Lamp	2	—	74	44	32	—
	1	—	55	33	—	—

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 2900 LUMEN LAMPS

ANGLE	END	45°	CROSS
45	2327	2823	3074
55	1841	2242	2671
65	143	415	122
75	48	48	68
85	41	20	61

TYPICAL V.C.P.'s

Room Size	Mounting Height Lengthwise Crosswise			
	8.5	10	8.5	10
30x30	96	92	94	90
40x40	97	95	96	94
60x30	97	95	96	94
60x60	98	97	98	96
100x100	99	98	99	98

COEFFICIENT OF UTILIZATION

p/c pcc pw	20						50					
	70	50	30	70	50	30	50	30	50	30	50	
RCR												
0	74	74	74	72	72	72	69	69	69	69	69	
1	69	67	65	67	65	64	63	61	63	61	61	
2	64	60	56	62	59	56	57	54	57	54	54	
3	59	54	49	58	53	49	51	48	51	48	48	
4	55	48	43	53	47	43	46	42	46	42	42	
5	50	43	38	49	43	38	41	37	41	37	37	
6	47	39	34	46	39	34	38	33	38	33	33	
7	43	36	31	42	35	31	34	30	34	30	30	
8	40	33	28	39	32	28	31	27	31	27	27	
9	38	30	25	37	30	25	29	25	29	25	25	
10	35	28	23	35	27	23	27	23	27	23	23	

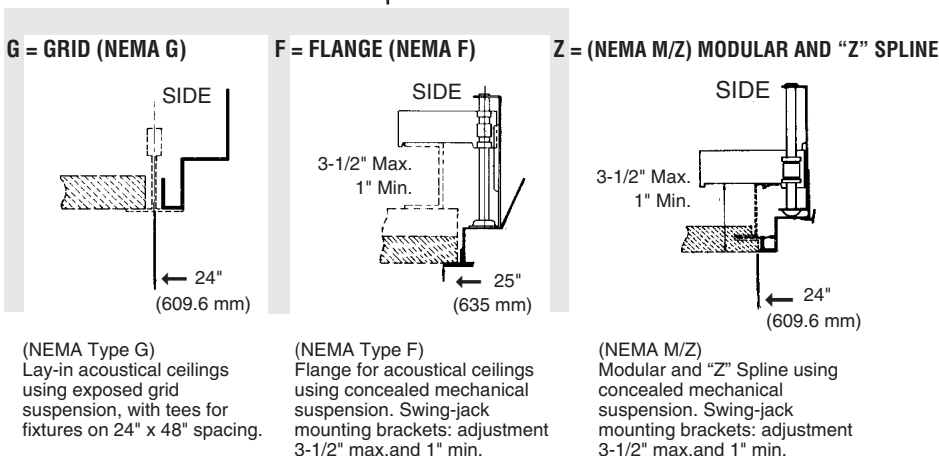
LIGHT DISTRIBUTION

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	1210	20.9	33.7
0-40	2023	34.9	56.3
0-60	3481	60.0	96.9
0-90	3590	61.9	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)

2 DP G S 2 32

CEILING TYPE



PHOTOMETRIC DATA

CATALOG # 2DGS332-377FL-1/3-EB LAMPS = F32 T8 INPUT WATTS = 86
TEST #14908 S/MH=1.4 BALLAST = ELECTRONIC BALLAST FACTOR = .94

LER = FP-57

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$4.21 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 60.0%

CANDLEPOWER			
Angle	End	45	Cross
0	2319	2319	2319
5	2327	2314	2297
10	2288	2279	2255
15	2217	2211	2193
20	2123	2120	2139
25	2009	2021	2149
30	1873	1939	2155
35	1718	1880	2079
40	1543	1774	1892
45	1352	1603	1774
50	1130	1354	1625
55	866	1040	1220
60	391	578	500
65	49	136	38
70	17	17	19
75	9	8	10
80	6	5	8
85	2	3	3

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*

- 80-50-20 Reflectances (Ceiling-Wall-Floor)
- LLF = 0.78 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
2' X 4' 3 Lamp	5	-	146	88	63	44
	2	-	105	63	45	32
	1	-	78	47	34	-

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 2900 LUMEN LAMPS			
ANGLE	END	45°	CROSS
45	3387	4016	4444
55	2675	3212	3768
65	205	570	159
75	62	55	68
85	41	61	61

TYPICAL V.C.P.'s				
Room Size	Mounting Height			
	Lengthwise	Crosswise	8.5	10
30x30	94	89	92	87
40x40	96	93	95	91
60x30	96	93	95	92
60x60	97	95	97	94
100x100	99	97	98	97

COEFFICIENT OF UTILIZATION

pfc pcc pw RCR	20			70			50		
	70	50	30	70	50	30	50	30	
0	71	71	71	70	70	70	67	67	
1	67	65	63	65	63	62	61	59	
2	62	58	55	61	57	54	55	52	
3	57	52	48	56	51	47	49	46	
4	53	47	42	52	46	42	45	41	
5	49	42	37	48	42	37	40	36	
6	45	38	33	44	38	33	37	33	
7	42	35	30	41	34	30	33	29	
8	39	32	27	38	31	27	31	27	
9	37	29	25	36	29	24	28	24	
10	34	27	22	34	27	22	26	22	

LIGHT DISTRIBUTION

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	1791	20.6	34.3
0-40	2966	34.1	56.8
0-60	5068	58.3	97.1
0-90	5220	60.0	100.0

LLF = .78 LLF = LIGHT LOSS FACTOR LLF = LLD X LLD X BF LLD = VERY CLEAN 0.94 CLEAN 0.90
LLD = 0.88 @ 40% RATED LAMP LIFE BF = 0.94 ELECTRONIC BALLAST & T-8 LAMP (RELAMP AT 70% LAMP LIFE)

2' x 4' VDT CF-15 4 LAMP



PHOTOMETRIC DATA

CATALOG # 2DGS432-377FL-1/4-EB
TEST #14915 S/MH=1.4

LAMPS = F32 T8
BALLAST = ELECTRONIC

INPUT WATTS = 107
BALLAST FACTOR = .92

LER = FP-56

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$4.29 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 56.5%

CANDLEPOWER				
Angle	End	45	Cross	
0	2829	2829	2829	
5	2838	2831	2825	
10	2793	2828	2868	
15	2708	2824	2891	
20	2594	2779	2858	
25	2457	2686	2736	
30	2297	2536	2580	
35	2106	2340	2509	
40	1895	2135	2477	
45	1662	1956	2275	
50	1393	1726	1930	
55	1057	1306	1500	
60	476	697	606	
65	61	173	49	
70	21	25	24	
75	13	16	17	
80	8	10	12	
85	5	6	8	

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
2' X 4' 4 Lamp	5 2 1	- - -	- 130 97	108 78 58	77 56 41	54 39 -

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 2900 LUMEN LAMPS

ANGLE	END	45°	CROSS
45	4164	4900	5699
55	3264	4033	4633
65	256	725	205
75	89	110	116
85	102	122	163

TYPICAL V.C.P.'s

Room Size	Mounting Height			
	Lengthwise		Crosswise	
	8.5	10	8.5	10
30x30	91	89	90	84
40x40	94	90	93	88
60x30	94	91	93	89
60x60	95	93	94	91
100x100	97	96	96	93

COEFFICIENT OF UTILIZATION

pfc pec pw	20				70				50			
	70	50	30		70	50	30		50	30		
RCR												
0	67	67	67		66	66	66		63	63	63	
1	63	61	59		62	60	58		57	56	57	
2	58	55	52		57	54	51		52	49	52	
3	54	49	45		53	48	45		47	44	47	
4	50	44	40		49	43	39		42	39	42	
5	46	40	35		45	39	35		38	34	38	
6	43	36	32		42	36	31		35	31	35	
7	40	33	28		39	32	28		32	28	32	
8	37	30	26		36	30	25		29	25	29	
9	35	28	23		34	27	23		27	23	27	
10	32	25	21		32	25	21		25	21	25	

LIGHT DISTRIBUTION

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	2278	19.6	34.7
0-40	3740	32.2	57.0
0-60	6361	54.8	97.0
0-90	6557	56.5	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 ESB BALLAST & T-8 W LAMP (RELAMP AT 70% LAMP LIFE)

135.2-VDT

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