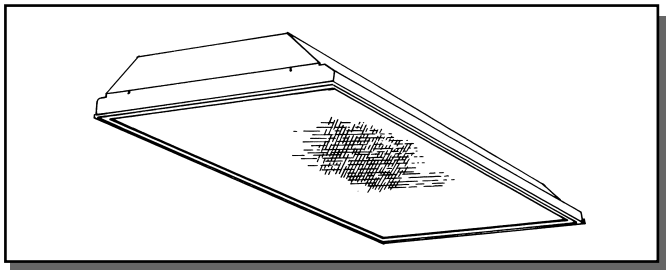
2' x 4' DESIGNER STATIC



2, 3, or 4 Lamp
T12 or T8

APPLICATION
- Premium quality recessed static troffer for:
  – Grid inverted T (NEMA “G”)
  – Flange-type for concealed mechanical suspension (NEMA “F”)
  – Modular and “Z” spline (NEMA “M/Z”)
  – Contact Day-Brite for other ceiling types.

CONSTRUCTION/FINISH
- One piece unitized body including end plates for added rigidity.
- Die formed ribbed and embossed steel housing.
- Housing is multi-stage phosphate treated for maximum corrosion resistance and finish coat is high reflectance baked white enamel.
- Painted after fabrication housing optional.
- Access plate (2 K.O.’s) factory installed includes grounding screw.
- T-bar grid clips built into fixture end plates, no extra parts required.

ELECTRICAL
- Class P, HPF, CBM certified 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.

ENCLOSURES
- Mitered corner door frames painted after fabrication with a choice of: Flat Steel, Flat Aluminum, or Regressed Aluminum.
- Door frames standard with guide post spring loaded latches.
- Mechanically designed interlocks block light, no gaskets are needed.
- Prismatic acrylic pattern 12 lens standard (01). Other lenses or louvers optional.
- Choice of door finishes; white (standard) or black.
- Can be hinged and latched from either side.

CATALOG NUMBER

2					–				–		–	

WIDTH
2 – 2'

FIXTURE FAMILY
DP– Designer
DPC – Canadian Model

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

NO. OF LAMPS
(not included)
2
3
4

LAMP TYPE/WATTAGE
32 – 32wT8
40 – 40wT12

DOOR FRAME
STATIC
FS – Flat Steel
FA – Flat Aluminum
RA – Regressed Aluminum
TFS – Tamperproof

LENS
01 – Prismatic Acrylic
12 – DB-12, .125"
19 – DB-19, .156"
21– Patt. 12, .125"
See Sheet 401-SR for other options.

DOOR FINISH
BLANK – White Door
B – Black Door

VOLTAGE
120
277
347

OPTIONS
PAF – Housing painted after fabrication.

See Section 1600-OA for Option Info.

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.
Example: –1/21-EB = One 2 Lamp Electronic Ballast and One 1 Lamp Electronic Ballast.
Example: –1/4-EB = One 4 Lamp Electronic Ballast.

JOB INFORMATION

Job Name:
Type:

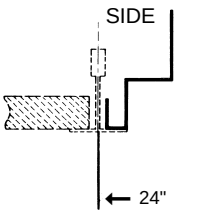
2' x 4' 2 LAMP

Day-Brite Lighting

2	DP	G	2	32

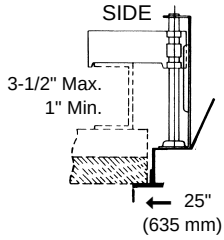
CEILING TYPE

G = GRID (NEMA G)



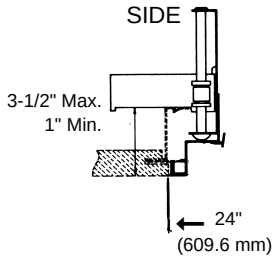
(NEMA Type G)
Lay-in acoustical ceilings using exposed grid suspension, with tees for fixtures on 24" x 48" spacing.

F = FLANGE (NEMA F)



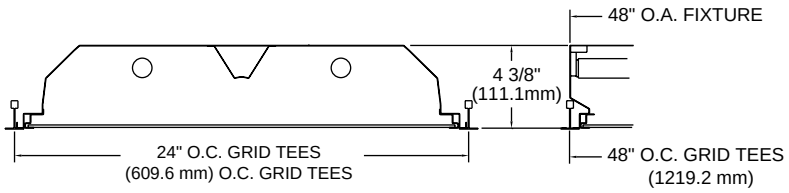
(NEMA Type F)
Flange for acoustical ceilings using concealed mechanical suspension. Swing-jack mounting brackets: adjustment 3-1/2" max.and 1" min.

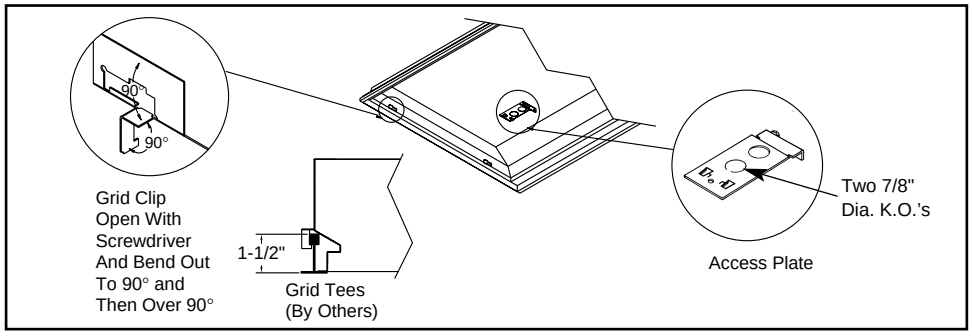
Z = (NEMA M/Z) MODULAR AND "Z" SPLINE



(NEMA M/Z)
Modular and "Z" Spline using concealed mechanical suspension. Swing-jack mounting brackets: adjustment 3-1/2" max.and 1" min.

DIMENSIONS





PHOTOMETRIC DATA

CATALOG # 2DPG232-FS01-1/2-EB **LAMPS =** F32T8 **INPUT WATTS =** 60
TEST #20876 **S/MH=**1.4 **BALLAST =** ELECTRONIC **BALLAST FACTOR =** .88

LER = FL-71

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = **$3.38** BASED ON 3000 HRS. AND $.08 PER KWH.

FIXTURE EFFICIENCY= 84.8%

CANDLEPOWER

Angle	End	45	Cross
0	1853	1853	1853
5	1861	1853	1835
10	1838	1840	1833
15	1802	1817	1826
20	1746	1779	1810
25	1673	1729	1778
30	1576	1654	1726
35	1446	1563	1648
40	1294	1427	1520
45	1110	1247	1319
50	907	1034	1074
55	717	794	839
60	561	566	595
65	423	370	426
70	313	240	329
75	230	183	264
80	168	153	200
85	89	89	103

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 10 ft-c	30 ft-c	50 ft-c	70 ft-c	100 ft-c
2-Lamp T8	5	-	127	76	55	38
	2	-	89	53	38	-
	1	-	66	39	-	-

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 2850 LUMEN LAMPS

ANGLE	END	45°	CROSS
45	2418	2716	2873
55	1925	2132	2253
65	1541	1348	1552
75	1369	1089	1571
85	1573	1573	1820

TYPICAL V.C.P.'s

Room Size	Mounting Height Lengthwise 8.5	10	Crosswise 8.5	10
30x30	64	68	61	67
40x40	60	64	57	61
60x30	65	70	64	69
60x60	56	59	53	56
100x100	53	55	51	52

LLF = .75 LLF = LIGHT LOSS FACTOR LLF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90
LLD = 0.91 @ 40% RATED LAMP LIFE BF = 0.88 ELECTRONIC BALLAST & T8 (RELAMP AT 70% LAMP LIFE)

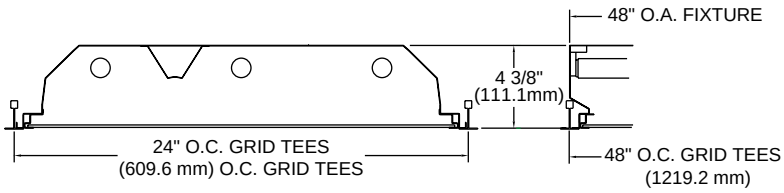
COEFFICIENT OF UTILIZATION

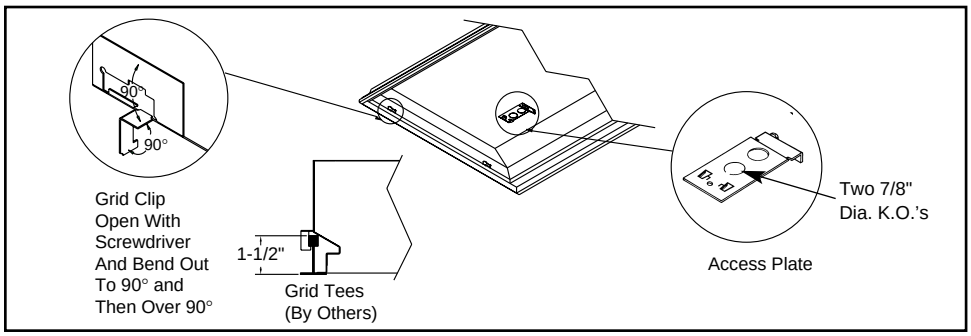
pfc	20							
pcc	80			70			50	
pw	70	50	30	70	50	30	50	30
RCR								
0	101	101	101	98	98	98	93	93
1	93	89	85	91	86	83	83	81
2	84	78	72	82	77	71	73	69
3	78	69	63	76	68	61	66	60
4	71	61	55	69	60	54	58	53
5	66	56	47	64	55	47	53	46
6	60	50	42	59	50	42	47	41
7	56	46	39	55	45	38	44	38
8	53	41	34	52	40	34	40	34
9	50	39	32	47	38	32	36	30
10	46	35	28	45	34	28	34	28

LIGHT DISTRIBUTION

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	1484	26.0	30.7
0-40	2451	43.0	50.7
0-60	4091	71.8	84.6
0-90	4834	84.8	100.0

DIMENSIONS





PHOTOMETRIC DATA

CATALOG # 2DPG332-FS01-1/3-EB **LAMPS =** F32T8 **INPUT WATTS =** 89
TEST #20838 **S/MH=**1.3 **BALLAST =** ELECTRONIC **BALLAST FACTOR =** .88

LER = FL-67

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = **$3.58** BASED ON 3000 HRS. AND $.08 PER KWH.

FIXTURE EFFICIENCY= 79.2%

CANDLEPOWER

Angle	End	45	Cross
0	2680	2680	2680
5	2690	2670	2658
10	2657	2650	2653
15	2601	2617	2636
20	2522	2561	2600
25	2417	2476	2522
30	2275	2353	2382
35	2096	2177	2211
40	1873	1946	2015
45	1603	1677	1781
50	1294	1389	1501
55	1027	1098	1147
60	794	774	816
65	594	510	591
70	441	334	453
75	323	257	365
80	237	211	273
85	126	118	142

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 10 ft-c	30 ft-c	50 ft-c	70 ft-c	100 ft-c
3 Lamp T8	5	-	-	107	77	54
	2	-	125	75	54	37
	1	-	92	55	40	-

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 2850 LUMEN LAMPS

ANGLE	END	45°	CROSS
45	3491	3652	3879
55	2757	2948	3080
65	2165	1858	2154
75	1922	1529	2172
85	2226	2085	2509

TYPICAL V.C.P.'s

Room Size	Mounting Height Lengthwise 8.5	10	Crosswise 8.5	10
30x30	56	61	54	59
40x40	52	56	50	54
60x30	58	62	57	62
60x60	48	51	46	49
100x100	46	47	44	45

LLF = .75 LLF = LIGHT LOSS FACTOR LLF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90
LLD = 0.91 @ 40% RATED LAMP LIFE BF = 0.88 ELECTRONIC BALLAST & T8 LAMP (RELAMP AT 70% LAMP LIFE)

COEFFICIENT OF UTILIZATION

pfc	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	86	82	80	84	81	79	78	76
2	80	72	68	77	71	67	68	65
3	72	65	58	70	64	57	61	56
4	67	57	52	65	56	51	55	50
5	61	52	46	59	51	45	50	44
6	56	46	40	56	46	40	45	39
7	53	42	35	52	41	35	40	35
8	50	39	33	48	39	33	38	32
9	46	35	29	45	35	29	34	28
10	44	33	27	42	33	27	32	27

LIGHT DISTRIBUTION

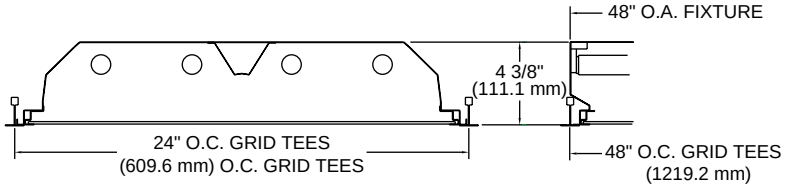
DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	2132	24.9	31.5
0-40	3481	40.7	51.4
0-60	5741	67.1	84.8
0-90	6772	79.2	100.0

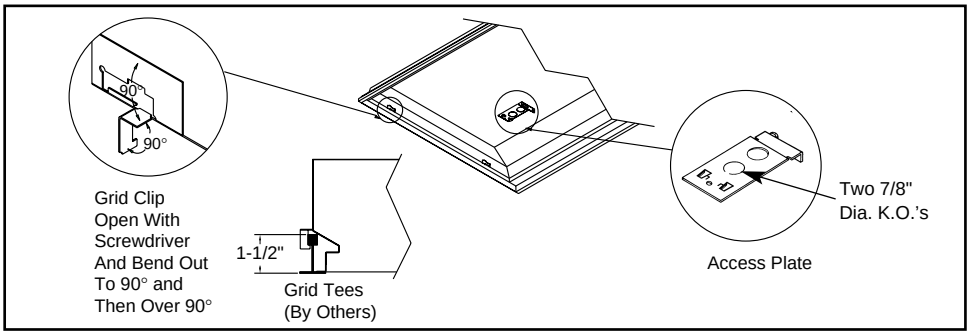
NVLAP® The photometric results were obtained in the Day-Brite Lighting Laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

2' x 4' 4 LAMP

Day-Brite Lighting

DIMENSIONS





PHOTOMETRIC DATA

CATALOG # 2DPG432-FS01-1/4-EB **LAMPS =** F32T8 **INPUT WATTS =** 116 **LER = FL-70**
TEST #20849 **S/MH=**1.3 **BALLAST =** ELECTRONIC **BALLAST FACTOR =** .88

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = **$3.43** BASED ON 3000 HRS. AND $.08 PER KWH. **FIXTURE EFFICIENCY=** 81.0%

CANDLEPOWER

Angle	End	45	Cross
0	3668	3668	3668
5	3670	3662	3642
10	3621	3637	3634
15	3546	3586	3609
20	3438	3512	3555
25	3289	3393	3452
30	3099	3220	3281
35	2846	2991	3049
40	2531	2689	2763
45	2176	2313	2430
50	1767	1912	1996
55	1398	1485	1522
60	1066	1037	1109
65	804	690	803
70	589	450	613
75	433	346	495
80	317	289	371
85	168	163	194

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 10 ft-c	30 ft-c	50 ft-c	70 ft-c	100 ft-c
4 Lamp T8	5	-	-	146	104	73
	2	-	-	102	73	51
	1	-	126	76	54	38

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 2850 LUMEN LAMPS

ANGLE	END	45°	CROSS
45	4739	5038	5292
55	3754	3987	4087
65	2930	2514	2926
75	2576	2059	2945
85	2969	2880	3428

TYPICAL V.C.P.'s

Room Size	Mounting Height Lengthwise 8.5	Lengthwise 10	Crosswise 8.5	Crosswise 10
30x30	49	54	46	52
40x40	45	48	42	46
60x30	50	55	49	54
60x60	41	44	38	41
100x100	39	40	37	38

LLF = .75 LLF = LIGHT LOSS FACTOR LLF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90
LLD = 0.91 @ 40% RATED LAMP LIFE BF = 0.88 ELECTRONIC BALLAST & T8 LAMP (RELAMP AT 70% LAMP LIFE)

COEFFICIENT OF UTILIZATION

pfc	20							
pcc	80			70			50	
pw	70	50	30	70	50	30	50	30
RCR								
0	95	95	95	93	93	93	90	90
1	89	84	81	86	82	80	80	77
2	81	75	69	79	73	68	70	67
3	75	67	59	72	65	59	63	57
4	68	59	53	67	58	52	56	51
5	63	54	46	61	53	46	51	45
6	58	47	41	56	47	40	46	40
7	55	44	36	53	42	36	41	35
8	51	40	34	50	40	33	39	33
9	47	36	30	46	36	29	35	29
10	45	34	28	44	34	28	33	28

LIGHT DISTRIBUTION

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	2916	25.6	31.6
0-40	4766	41.8	51.6
0-60	7839	68.8	84.9
0-90	9234	81.0	100.0

DAY-BRITE LIGHTING
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CANADIAN DIVISION
189 Bullock Drive • Markham, Ontario L3P 1W4 • PH: (905) 294-9570 • FAX: (905) 294-9811