

**3 Lamp T8
18 or 24 Cell**

APPLICATION

- Low-brightness troffer for most ceilings:
 - Grid inverted T (NEMA “G”)
 - Flange-type for concealed mechanical suspension (NEMA “F”)
 - Modular and “Z” spline (NEMA “M/Z”)
- Designed for air supply/return through side slots and/or heat transfer. Select the appropriate catalog no. for air function desired. Air pattern control blades in side slots must be ordered as an option. Air boots by others.
- Excellent visual comfort and inconspicuous appearance.

CONSTRUCTION/FINISH

- Housing is multi-stage phosphate treated for maximum corrosion resistance and finish coat is high reflectance baked white enamel.
- Flat black finish inside perimeter reveal for “floating door” appearance.
- Built in (UL listed, patented) grid clips designed for use with standard 1-1/2" high grid ceiling members.
- Standard wireway cover is designed to accommodate small can ballasts. Use of emergency ballasts or specification of ballasts other than generic ballasts may require the use of a larger wireway cover.
- "Deep" wireway cover may be specified when ordering.
- One wireway cover standard, two optional.

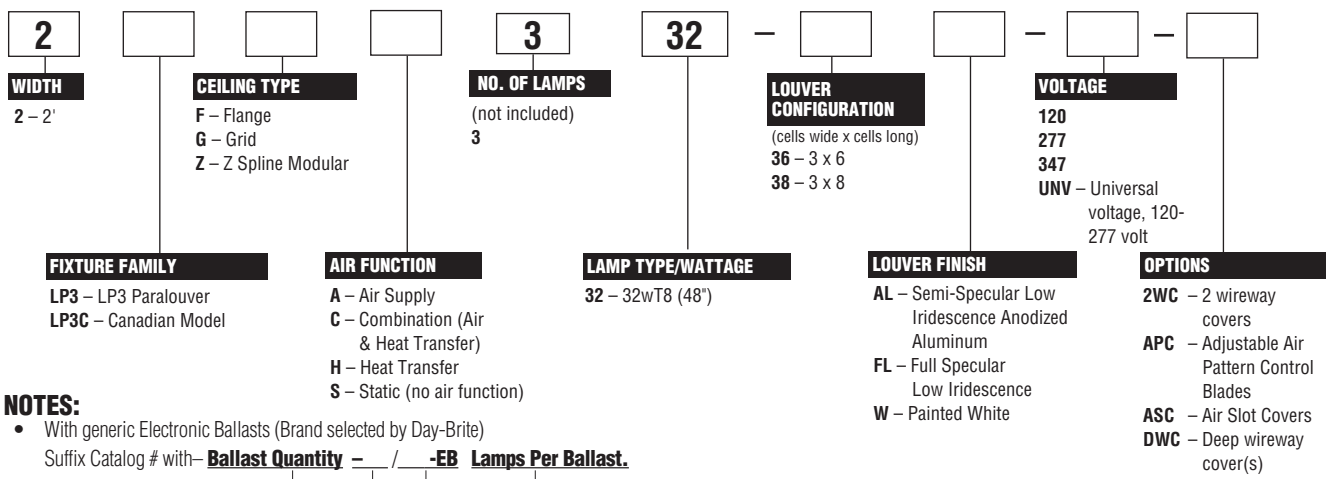
ELECTRICAL

- 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. Bodine LP series emergency ballasts are recommended for use with the standard wireway cover. DEB series emergency ballasts may be used with the larger wireway cover.

ENCLOSURES

- Parabolic-shaped louvers closely controlled for uniform low-brightness appearance, and interlocked to avoid vibration.
- Choice of semi-specular (AL) or specular (FL) low iridescence anodized aluminum, or white (W) louver finishes.
- 18 Cell: Lengthwise shielding is 19°. Crosswise shielding is 36°.
- 24 Cell: Lengthwise shielding is 25°. Crosswise shielding is 36°.
- Bottom aluminum flange has mitered corners and fits flush with ceiling.
- Can be hinged and latched from either side.
- Shipped with plastic film to keep out construction dirt.
- Guide-post spring loaded latches standard.

CATALOG NUMBER



NOTES:

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

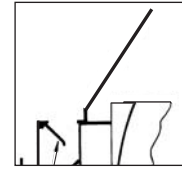
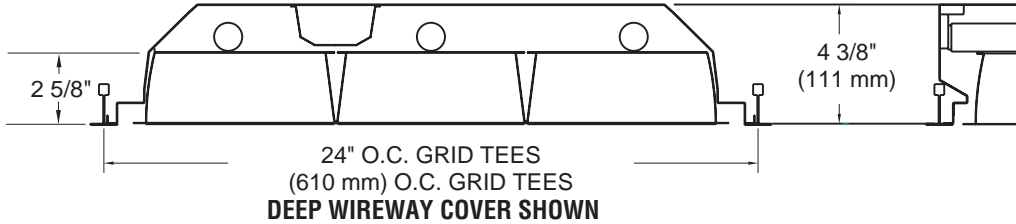
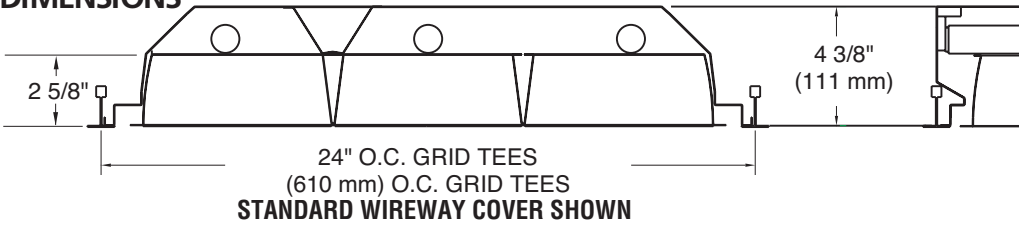
See Section 1600-OA for Option Info.

JOB INFORMATION

253.2-PLV

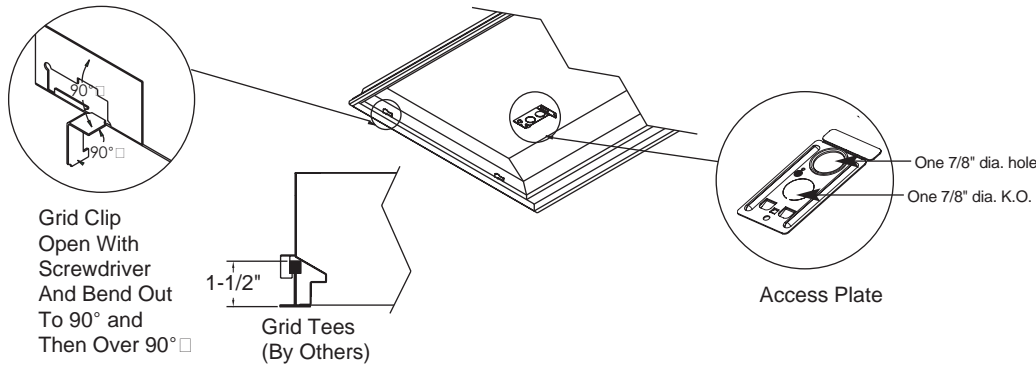
2' x 4' 3 LAMP LP3 PARALOUVER

DIMENSIONS



Optional Air Pattern Control
(on Air and Combination Units)

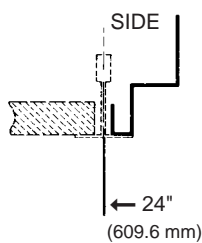
- Fully adjustable
 - Closed= Static
 - 45°= Horizontal Air Supply
 - 90°= (fully open) – Vertical Air Supply
- Side Slots may also be used for Return Air to Plenum
- Snap-in Air Slot Covers (ASC) also available



2 LP3 G S 3 32

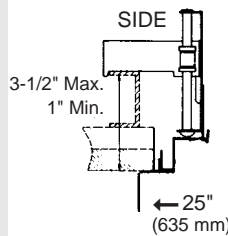
CEILING TYPE

G = GRID (NEMA G)



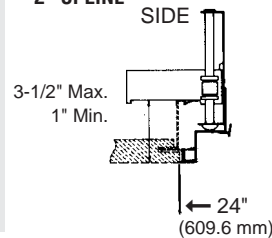
(NEMA Type G)
Lay-in acoustical ceilings using exposed grid suspension, with tees for fixtures on 24" x 48" spacing.

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. Refer to sheet 801-CL for cut-out information.

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.

FOR PHOTOMETRIC TESTS ON WHITE LOUVERS ASK FOR TEST #'S:

18 CELL – 20834
24 CELL – 20840

PHOTOMETRIC DATA

CATALOG # 2LP3GS332-36FL-1/3-EB
TEST #20831 S/MH=1.7

LAMPS = F32 T8
BALLAST = ELECTRONIC

INPUT WATTS = 90
BALLAST FACTOR = .88

LER = FP-63

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = **\$3.81** BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 75.7%

CANDLEPOWER			
Angle	End	45	Cross
0	2312	2312	2312
5	2316	2311	2314
10	2279	2307	2312
15	2220	2273	2342
20	2142	2259	2423
25	2050	2262	2589
30	1937	2298	2774
35	1817	2382	2750
40	1675	2386	2626
45	1528	2225	2286
50	1353	1924	1533
55	1143	1428	950
60	883	799	609
65	407	348	362
70	47	77	13
75	5	7	5
80	3	3	2
85	3	2	1

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	-	-	105	75	52
	2	-	123	74	53	37
	1	-	90	54	39	-

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 2850 LUMEN LAMPS

ANGLE	END	45°	CROSS
45	3525	5133	5273
55	3250	4061	2702
65	1571	1343	1397
75	32	44	32
85	56	37	19

TYPICAL V.C.P.'s

Room Size	Mounting Height	
	Lengthwise	Crosswise
	8.5	10
30x30	86	80
40x40	91	86
60x30	91	86
60x60	94	90
100x100	96	94

COEFFICIENT OF UTILIZATION

pfc pcc pw RCR	20			70			50		
	70	50	30	70	50	30	50	30	
0	90	90	90	88	88	88	83	83	
1	83	81	79	81	80	77	76	75	
2	78	71	68	76	70	67	68	65	
3	70	64	58	69	63	57	60	56	
4	66	56	52	64	56	51	55	50	
5	59	52	45	58	51	45	48	44	
6	56	46	40	54	46	40	44	39	
7	52	41	35	50	40	34	40	34	
8	47	38	32	46	38	32	36	30	
9	45	34	28	44	34	28	34	28	
10	41	32	26	40	32	26	30	26	

LIGHT DISTRIBUTION

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	1929	22.6	29.8
0-40	3378	39.5	52.2
0-60	6056	70.8	93.5
0-90	6475	75.7	100.0

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 = .88 ELECTRONIC BALLAST & T-8 LAMP (RELAMP AT 70% LAMP LIFE)

PHOTOMETRIC DATA

CATALOG # 2LP3GS332-36AL-1/3-EB
TEST #20833 S/MH=1.6

LAMPS = F32 T8
BALLAST = ELECTRONIC

INPUT WATTS = 90
BALLAST FACTOR = .88

LER = FP-60

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = **\$4.00** BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 72.2%

CANDLEPOWER			
Angle	End	45	Cross
0	2286	2286	2286
5	2285	2282	2273
10	2247	2265	2282
15	2187	2248	2307
20	2111	2223	2367
25	2027	2210	2474
30	1923	2217	2617
35	1810	2226	2603
40	1678	2179	2404
45	1528	2010	2032
50	1356	1669	1412
55	1147	1197	925
60	871	712	623
65	451	370	355
70	95	129	84
75	29	34	34
80	12	15	13
85	4	5	4

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	-	-	100	71	50
	2	-	118	71	50	35
	1	-	86	52	37	-

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 2850 LUMEN LAMPS

ANGLE	END	45°	CROSS
45	3525	4637	4687
55	3262	3404	2631
65	1741	1428	1370
75	183	214	214
85	75	94	75

TYPICAL V.C.P.'s

Room Size	Mounting Height	
	Lengthwise	Crosswise
	8.5	10
30x30	82	77
40x40	87	83
60x30	88	84
60x60	91	86
100x100	95	92

COEFFICIENT OF UTILIZATION

pfc pcc pw RCR	20			70			50		
	70	50	30	70	50	30	50	30	
0	85	85	85	83	83	83	80	80	
1	80	77	75	78	76	73	72	70	
2	73	68	65	71	68	64	65	61	
3	68	60	56	66	59	55	57	54	
4	63	55	48	60	54	48	52	46	
5	57	48	42	56	47	42	46	41	
6	53	44	38	52	44	38	41	36	
7	48	40	34	47	40	34	39	33	
8	46	36	30	45	35	30	34	29	
9	42	34	28	41	33	28	32	27	
10	40	30	25	39	30	25	29	25	

LIGHT DISTRIBUTION

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	1888	22.1	30.6
0-40	3266	38.2	52.9
0-60	5712	66.8	92.5
0-90	6173	72.2	100.0

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 = .88 ELECTRONIC BALLAST & T-8 LAMP (RELAMP AT 70% LAMP LIFE)

2' x 4' 24 CELL LP3 PARALOUVER



PHOTOMETRIC DATA

CATALOG # 2LP3GS332-38FL-1/3-EB
TEST #20835 S/MH= 1.7

LAMPS = F32 T8
BALLAST = ELECTRONIC

INPUT WATTS = 90
BALLAST FACTOR = .88

LER = FP-61

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.93 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 73.2%

CANDLEPOWER			
Angle	End	45	Cross
0	2337	2337	2337
5	2342	2342	2332
10	2300	2322	2331
15	2230	2294	2355
20	2148	2270	2428
25	2050	2265	2567
30	1945	2287	2809
35	1819	2383	2798
40	1686	2406	2603
45	1526	2219	2281
50	1317	1853	1580
55	1072	1308	979
60	673	652	552
65	31	238	306
70	7	22	11
75	4	5	5
80	3	2	2
85	1	1	1

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	-	-	102	73	51
	2	-	121	73	52	36
	1	-	89	53	38	-

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 2850 LUMEN LAMPS

ANGLE	END	45°	CROSS
45	3520	5119	5262
55	3049	3720	2784
65	120	919	1181
75	25	32	32
85	19	19	19

TYPICAL V.C.P.'s

Room Size	Mounting Height	
	Lengthwise	Crosswise
	8.5	10
30x30	92	86
40x40	95	91
60x30	95	91
60x60	96	94
100x100	98	97

COEFFICIENT OF UTILIZATION

pfc pcc pw RCR	20		70		50	
	70	50	30	70	50	30
0	86	86	86	84	84	81
1	81	79	76	80	77	73
2	75	69	66	73	68	65
3	69	63	57	68	61	56
4	64	56	51	61	55	50
5	58	51	45	57	50	44
6	55	46	40	53	45	39
7	51	40	34	48	40	34
8	46	38	32	46	36	30
9	44	34	28	42	34	28
10	40	32	26	40	30	26

LIGHT DISTRIBUTION

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	1936	22.6	30.9
0-40	3395	39.7	54.2
0-60	6014	70.3	96.0
0-90	6261	73.2	100.0

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 = .88 ELECTRONIC BALLAST & T-8 LAMP (RELAMP AT 70% LAMP LIFE)

PHOTOMETRIC DATA

CATALOG # 2LP3GS332-38AL-1/3-EB
TEST #20839 S/MH= 1.6

LAMPS = F32 T8
BALLAST = ELECTRONIC

INPUT WATTS = 90
BALLAST FACTOR = .88

LER = FP-59

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$4.07 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 70.9%

CANDLEPOWER			
Angle	End	45	Cross
0	2343	2343	2343
5	2348	2334	2326
10	2302	2316	2338
15	2240	2292	2358
20	2160	2255	2414
25	2069	2235	2506
30	1963	2233	2651
35	1844	2233	2636
40	1710	2175	2441
45	1546	1987	2046
50	1345	1632	1481
55	1080	1139	979
60	669	636	663
65	158	286	354
70	52	80	90
75	25	33	40
80	10	14	16
85	4	5	5

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	-	-	98	70	49
	2	-	117	70	50	35
	1	-	86	52	37	-

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 2850 LUMEN LAMPS

ANGLE	END	45°	CROSS
45	3566	4584	4720
55	3071	3239	2784
65	610	1104	1366
75	158	208	252
85	75	94	94

TYPICAL V.C.P.'s

Room Size	Mounting Height	
	Lengthwise	Crosswise
	8.5	10
30x30	87	82
40x40	90	87
60x30	91	88
60x60	93	90
100x100	96	94

COEFFICIENT OF UTILIZATION

pfc pcc pw RCR	20		70		50	
	70	50	30	70	50	30
0	83	83	83	81	81	79
1	79	76	73	77	75	71
2	72	68	64	70	67	63
3	67	60	56	66	59	55
4	61	54	48	59	53	47
5	56	48	42	56	47	42
6	53	44	38	52	42	38
7	48	40	34	47	40	34
8	46	36	30	45	35	30
9	42	34	28	41	33	28
10	40	30	26	39	30	25

LIGHT DISTRIBUTION

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	1920	22.5	31.7
0-40	3311	38.7	54.6
0-60	5717	66.9	94.3
0-90	6063	70.9	100.0

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 = .88 ELECTRONIC BALLAST & T-8 LAMP (RELAMP AT 70% LAMP LIFE)

253.2-PLV

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