application

- 16 cell FL luminaire meet the basic requirements of IESNA RP-1 for use in spaces containing Video Display Terminals.
- 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")

- 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.

- Air boots by others.
- Air handling or combination models are available with optional factory installed snap-in air slot covers (ASC) or adjustable air pattern control blades (APC).
- 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.
- Supplied with one wireway cover (except when required by ballast configuration.) Two ballast covers (2WC) are available.
- Models utilizing 3 ballasts (including emergency ballast) will be supplied with a top mounted ballast box, which will increase the height of the luminaire.
- Standard wireway cover is designed to accommodate small can electronic ballasts. Specification of ballasts other than generic ballasts, specification of emergency ballast, or field installation of emergency ballast may require the use of a larger wireway cover. Deep wireway cover (DWC) accommodates 2-3/8" W x 1-1/2" H ballasts and may be specified when ordering.
- Factory installed access plate includes 7/8" hole, 7/8" knockout and grounding screw.
- T-bar grid clips (UL listed) built into fixture, no extra parts required. Designed for use with standard grid ceiling members, 1-1/2" maximum height.
- One-piece housing features integral end plates that increase rigidity and minimize damage from handling or shipping.

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 or Day-Brite 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

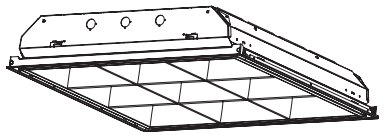
- Parabolic-shaped louvers closely controlled for uniform low- brightness appearance, and interlocked to avoid vibration.
- Choice of semi-specular low iridescence anodized aluminum (AL), specular (FL), or white louver finishes.
- 9 Cell: Lengthwise shielding is 21°. Crosswise shielding is 21°.
- 16 Cell: Lengthwise shielding is 27°. Crosswise shielding is 27°.
- 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.
- T-hinges are standard for positive support of the enclosure.
- Guide-post spring loaded latches are standard for ease of use and secure retention of the louver.

246-PLV

Paralouver Recessed

LP3

2 Lamp T8 U1-5/8", F17T8, or 14WT5 24HO
9 or 16 Cell



Specifier's Reference

Project
Type
Model No.
Comments

Green Choice: 2LP3GA217R-33FL-UNV-1/2EBHE-LPT835HL

2 | 2 | R | – | – | –

Family
LP3 – LP3 Paralouver
LP3C – Canadian Model

Air Function
A – Air Supply
C – Combination (Air & Heat Transfer)
H – Heat Transfer
S – Static (no air function)

Lamp Type/ Wattage
14 – 14WT5 (22")
17 – 17WT8 (24")
24HO – 24WT5HO (22")
31U1 – 31WT8 1-5/8" (24")

Louver Config.
(cells wide x cells long)
33 – 3 x 3
44 – 4 x 4

Voltage
120
277
347
UNV – Universal Voltage, 120-277 volt (with T8 or 40WTT5 electronic ballast option only)

Options
APC – Air pattern control blades
ASC – Snap out air slot covers
DWC – Deep wireway cover
PAF – Housing painted after stamping
1/2 – One 2-lamp ballast
EB – Electronic ballast, <20% THD
EB10I – T8/CF electronic ballast, instant start, <10% THD
EB10R – Electronic ballast, program rapid start, <10% THD
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
E1 – DEB-1 emerg. ballast, T8/CF, 350-450 lumens
E7 – DEB-7 emerg. ballast, T8/CF, 600-700 lumens
E5 – DEB-5 emerg. ballast, T8/CF, 1100-1400 lumens
E5ST – DEB-5ST emerg. ballast w/self test, T8/CF, 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
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)
SI – Specular insert (reflector)
LPT735 – Installed T8 lamps, 70+ CRI, 3500K
LPT835HL – Installed T8/T5 hi lumen lamps, 80+ CRI, 3500K

Width
2 – 2'

Ceiling Type
F – Flange
G – Grid
Z – Z Spline Modular

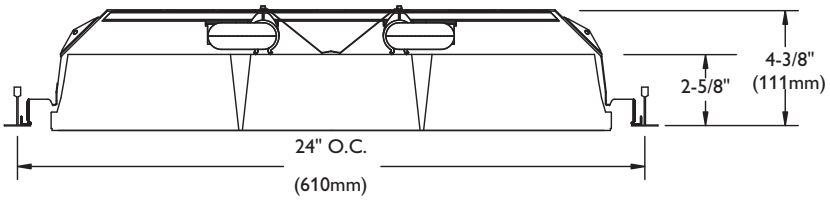
No. of Lamps
(not included)
2

Housing
R – Revised housing

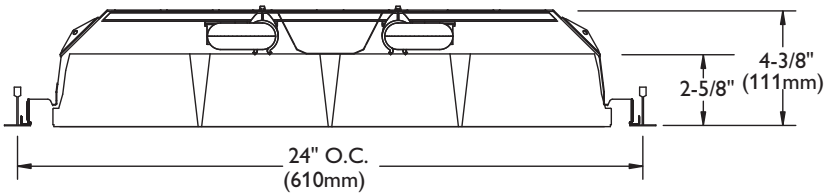
Louver Finish
AL – Semi-Specular Low Iridescence Anodized Aluminum
FL – Full Specular Low Iridescence
W – Painted White

PHILIPS Day-Brite PHILIPS CFI

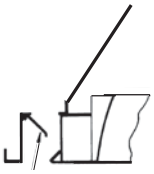
dimensions



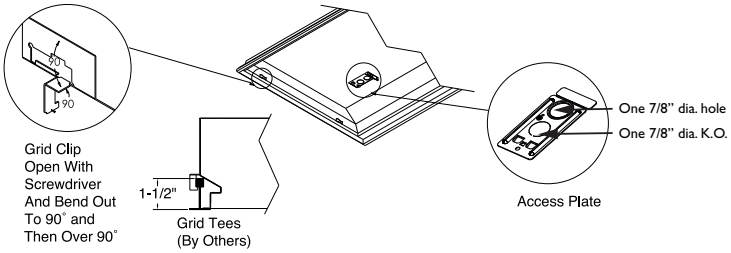
Standard Wireway Cover Shown



Deep Wireway Cover Shown



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

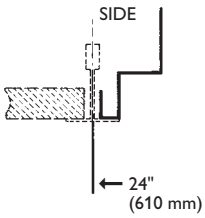


ceiling configuration

2 LP3 G S 2 31U1 R

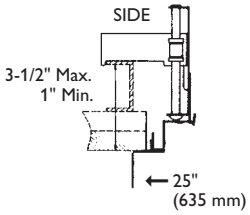
Ceiling type

G = GRID (NEMA G)



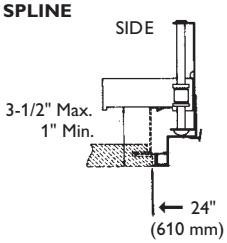
(NEMA Type G)
Lay-in acoustical ceilings using exposed grid suspension, with tees for luminaires on 24" x 24" spacing.

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 2 lamp 31U1 fixtures with white louvers ask for test #'s:

9 CELL – 22803
16 CELL – 22800

photometric tests are also available on-line.

For photometric tests on 2 lamp F17-T8 fixtures ask for test #'s:

louver finish	9 cell	16 cell
Specular (FL)	22860	22856
Semi Specular (AL)	22859	22855
White (W)	22861	22858

photometry

LP3 2 Lamp FB031T8 9 Cell

Efficiency – 72.9% LER – 64 TER – 58

Catalog No.	2LP3GS231U1R-33FL-1/2-EB
Test No.	22802
S/MH	1.0
Lamp Type	FB031T8
Lumens/Lamp	2800
Ballast Factor	0.88
Input Watts	56

Comparative yearly lighting energy cost per 1000 lumens – **$3.75** 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	1727	1727	1727
5	1729	1709	1695
10	1699	1652	1610
15	1652	1560	1491
20	1591	1450	1317
25	1517	1300	1208
30	1425	1155	1152
35	1328	1056	1157
40	1211	1008	1252
45	1081	1002	1365
50	936	1034	1437
55	766	1013	1411
60	576	857	956
65	239	467	472
70	12	97	12
75	2	6	5
80	1	3	3
85	1	2	2

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	1215	21.7	29.7
0-40	1943	34.7	47.6
0-60	3686	65.8	90.2
0-90	4085	72.9	100.0

Average Luminance

Angle	End	45°	Cross
45	5373	4981	6785
55	4694	6207	8646
65	1988	3884	3925
75	27	81	68
85	40	81	81

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	86	86	86	84	84	84	81	81
1	81	78	75	79	76	73	72	70
2	73	68	65	71	68	64	65	61
3	68	60	56	66	59	55	57	53
4	61	54	47	60	53	47	51	46
5	56	47	41	56	47	41	46	40
6	53	42	36	51	42	36	41	35
7	48	39	33	47	39	33	38	32
8	45	35	29	44	34	29	34	28
9	41	33	27	40	32	27	32	27
10	40	29	25	39	29	25	28	23

LP3 2 Lamp FB031T8 9 Cell

Efficiency – 68.2% LER – 61 TER – 55

Catalog No.	2LP3GS231U1R-33AL-1/2EB
Test No.	22801
S/MH	1.1
Lamp Type	FB031T8
Lumens/Lamp	2800
Ballast Factor	.88
Input Watts	55

Comparative yearly lighting energy cost per 1000 lumens – **$3.93** 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	1619	1619	1619
5	1614	1600	1590
10	1582	1543	1502
15	1534	1444	1393
20	1466	1333	1277
25	1389	1221	1198
30	1306	1118	1158
35	1205	1037	1152
40	1096	982	1197
45	974	942	1271
50	835	908	1315
55	682	848	1243
60	496	701	895
65	256	431	438
70	81	143	76
75	32	32	34
80	14	14	14
85	5	5	5

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	1141	20.4	29.9
0-40	1833	32.7	48.0
0-60	3390	60.5	88.8
0-90	3819	68.2	100.0

Average Luminance

Angle	End	45°	Cross
45	4841	4682	6318
55	4179	5196	7617
65	2129	3584	3643
75	435	435	462
85	202	202	202

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	79	79	79	76	76
1	75	72	69	73	70	68	68	66
2	68	64	59	67	63	58	60	56
3	63	56	52	61	56	51	54	50
4	57	50	45	56	50	44	47	42
5	53	45	39	52	44	39	42	38
6	48	40	34	47	40	34	39	34
7	46	36	30	45	35	30	34	29
8	42	34	28	40	33	28	32	27
9	40	30	25	39	29	25	29	25
10	36	28	23	35	28	23	27	23

photometry

LP3 2 Lamp FB031T8 16 Cell

Efficiency – 74.6% **LER –** **TER – 60**

Catalog No.	2LP3GS231U6R-44FL-1/2-EB
Test No.	22799
S/MH	1.5
Lamp Type	FB031T8
Lumens/Lamp	2800
Ballast Factor	0.88
Input Watts	56

Comparative yearly lighting energy cost per 1000 lumens – **$3.64** 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	1752	1752	1752
5	1749	1751	1757
10	1715	1730	1744
15	1665	1689	1713
20	1601	1634	1689
25	1523	1573	1667
30	1433	1520	1699
35	1338	1473	1727
40	1222	1455	1656
45	1094	1386	1509
50	942	1223	1355
55	770	881	794
60	371	419	307
65	28	76	32
70	6	8	7
75	3	4	3
80	2	3	3
85	2	3	3

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	1376	24.6	32.9
0-40	2317	41.4	55.4
0-60	4071	72.7	97.4
0-90	4179	74.6	100.0

Average Luminance

Angle	End	45°	Cross
45	5438	6889	7501
55	4718	5399	4865
65	233	632	266
75	41	54	41
85	81	121	121

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	89	89	89	86	86	86	82	82
1	82	80	78	81	79	77	76	73
2	77	71	68	75	70	67	68	65
3	70	65	59	68	63	58	60	56
4	66	57	52	64	56	52	55	51
5	60	52	46	58	51	46	50	45
6	56	46	40	55	46	40	45	40
7	52	42	36	51	41	36	40	35
8	48	39	33	46	39	33	38	33
9	45	35	29	44	34	29	34	29
10	41	33	27	41	33	27	32	27

LP3 2 Lamp FB031T8 16 Cell

Efficiency – 71.0% **LER –** **TER – 59**

Catalog No.	2LP3GS231U1R-44AL-1/2-EB
Test No.	22798
S/MH	1.4
Lamp Type	FB031T8
Lumens/Lamp	2800
Ballast Factor	.88
Input Watts	55

Comparative yearly lighting energy cost per 1000 lumens – **$3.75** 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	1710	1710	1710
5	1704	1704	1711
10	1669	1682	1699
15	1618	1643	1670
20	1555	1585	1636
25	1482	1525	1603
30	1392	1455	1625
35	1296	1390	1631
40	1185	1347	1527
45	1053	1245	1378
50	891	1055	1232
55	708	782	745
60	370	412	305
65	81	118	79
70	30	36	36
75	14	19	19
80	7	9	9
85	3	5	4

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	1332	23.8	33.5
0-40	2226	39.7	56.0
0-60	3815	68.1	95.9
0-90	3977	71.0	100.0

Average Luminance

Angle	End	45°	Cross
45	5234	6188	6849
55	4338	4792	4565
65	674	981	657
75	190	258	258
85	121	202	161

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	84	84	84	82	82	82	79	79
1	79	76	73	77	75	72	71	69
2	72	68	65	70	67	64	65	61
3	68	60	56	66	59	56	57	54
4	61	55	50	60	54	48	52	47
5	57	50	44	56	48	44	46	42
6	53	45	39	52	44	39	42	38
7	50	40	34	47	40	34	39	34
8	46	36	32	45	36	30	35	30
9	42	34	28	41	34	28	33	28
10	40	32	26	40	30	26	30	26

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

246-PLV 04/13

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

Philips Lighting Company
281 Hillmount Road
Markham ON, Canada L6C 2S3
Phone: 800-668-9008