

# Day-Brite

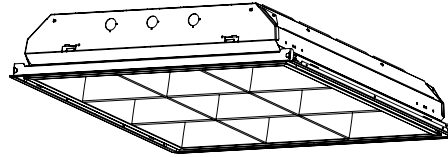
## CFI

by @ignify

### Recessed

LP3 paralouver 2x2

2 Lamp, T8, T5, or T5HO  
9 or 16 cell



Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

The Day-Brite / CFI LP3 paralouver recessed is designed to provide the optimum balance of visual comfort, luminaire efficiency, and low cost.

#### Ordering guide

Example: 2LP3GA217R-33AL-UNV-1/2-EBHE-LPT835HL

Width	Family	Ceiling Type	Air Function	No. of Lamps (not included)	Lamp Type	Housing	Louver Config. (cells wide x cells long)	Louver Finish	Voltage	Options	
2	LP3			2		R -		-	-		
2 2'	LP3 LP3 paralouver	G Grid F Flange Z Z-Spline/ Modular	A Air supply C Combination (air & heat transfer) H Heat transfer S Static (no air function)	2	14 14WT5 (22") 17 17WT8 (24") 24HO 24WT5HO (22") 31U1 31WT8 1-5/8" (24")	R Revised housing	33 3x3 44 4x4	AL Semi-specular anodized aluminum low iridescence W Matte white paint	120 277 347 UNV Universal Voltage 120-277V	1/2 APC ASC DWC PAF EB EB10R EBHE EBLHE EBHHE EBSD EBD7 EBDX EBD E1 E1CAN E7 E5 E5CAN ESST E7LP E6LP CHIC	One 2-lamp ballast Air pattern control blades Snap out air slot covers Deep wireway cover Housing painted after fabrication Electronic ballast, <10% THD, std. ballast factor T8 electronic ballast, program rapid start, <10% THD T8 electronic ballast, high efficiency, std. ballast factor T8 electronic ballast, high efficiency, low ballast factor T8 electronic ballast, high efficiency, high ballast factor T8 electronic step dimming ballast, 88 ballast factor Advance Mark 7 dimming ballast, 0-10V (low voltage) control Advance Mark 10 dimming ballast, phase control Electronic dimming ballast, customer specified B100 emerg. ballast, T8, 350-450 lumens, 120/277V B100-CAN emerg. ballast, Canada market, T8, 350-450 lumens, 120/347V B60 emerg. ballast, T8, 600-700 lumens, 120/277V B50 emerg. ballast, U.S. or Canada market, T8, 1100-1400 lumens, UNV B50-CAN emerg. ballast, Canada market, T8, 1100-1400 lumens, 120/347V B50ST emerg. ballast w/self test, T8, 1100-1400lumens, UNV LP550 emerg. ballast T5/T5HO, 430-700 lumens, 120/277V LP600 emerg. ballast U.S. or Canada market, T5/T5HO, 750-1325 lumens, 120/277V Chicago plenum rated

#### Accessories (order separately)

- **FMA22** 2'x2' "F" mounting frame for NEMA "F" mounting
- **FKDP22** Flange conversion kit 2x2



# 2LP3 LP3 paralouver recessed 2x2

2 lamp, T8, T5, or T5HO, 9 or 16 cell

## 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.

- 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 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

- cULus listed for damp locations.
- Self-contained fluorescent emergency power packs can be incorporated. 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.

## Enclosure

- Parabolic-shaped louvers closely controlled for uniform low- brightness appearance, and interlocked to avoid vibration.
- Choice of semi-specular (AL) low iridescence anodized aluminum or matte white paint 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.

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

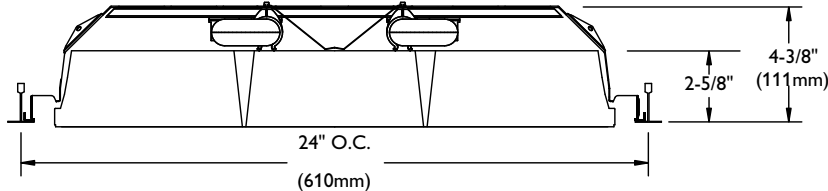


Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled, “Contain Mercury” and/or the symbol “HG”. Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at [www.lamprecycle.org](http://www.lamprecycle.org)

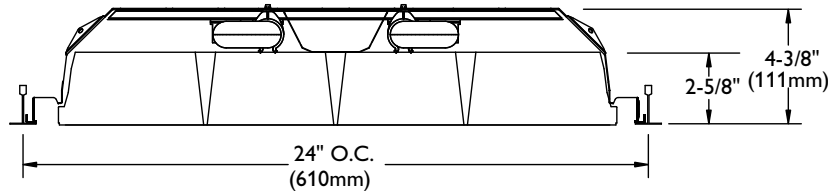
# 2LP3 LP3 paralouver recessed 2x2

2 lamp, T8, T5, or T5HO, 9 or 16 cell

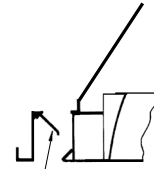
## Dimensions



Standard Wireway Cover Shown

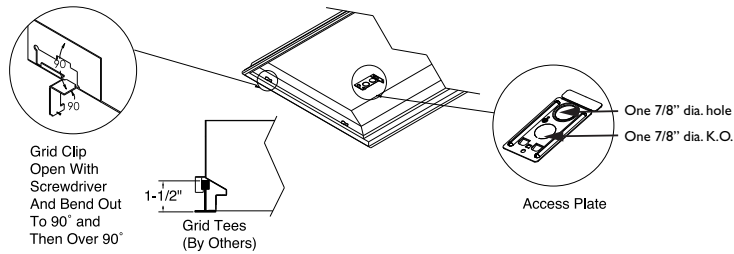


Deep Wireway Cover Shown



### 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

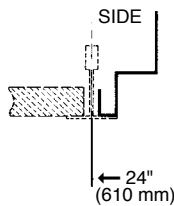


## Ceiling configuration

2 LP3 G S 2 31U1 R

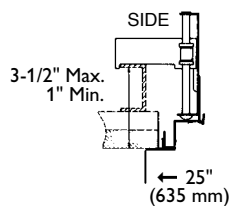
Ceiling type

G = Grid (NEMA G)



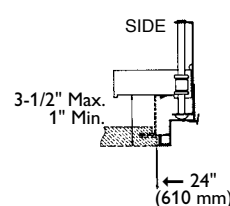
(NEMA Type G)  
Lay-in acoustical ceilings using exposed grid suspension, with tees for luminaires on 24" x 24" spacing.

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 output information.

Z = Modular & "Z" Spline (NEMA M/Z)



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

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## Photometry

### LP3 2 Lamp T8 U1-5/8" 9 Cell

Efficiency – 68.2%

LER – 61

TER – 55

		Candlepower				Light Distribution				Average Luminance			
Catalog No.	2LP3GS231UIR-33AL-1/2EB	Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire	Angle	End	45'	Cross
Test No.	22801	0	1619	1619	1619	0-30	1141	20.4	29.9	45	4841	4682	6318
S/MH	1.1	5	1614	1600	1590	0-40	1833	32.7	48.0	55	4179	5196	7617
Lamp Type	FB03IT8	10	1582	1543	1502	0-60	3390	60.5	88.8	65	2129	3584	3643
Lumens/Lamp	2800	15	1534	1444	1393	0-90	3819	68.2	100.0	75	435	435	462
Ballast Factor	.88	20	1466	1333	1277					85	202	202	202
Input Watts	55	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								

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 Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

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	

### LP3 2 Lamp T8 U1-5/8" 16 Cell

Efficiency – 71.0%

LER –

TER – 59

		Candlepower				Light Distribution				Average Luminance			
Catalog No.	2LP3GS231UIR-44AL-1/2-EB	Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire	Angle	End	45'	Cross
Test No.	22798	0	1710	1710	1710	0-30	1332	23.8	33.5	45	5234	6188	6849
S/MH	1.4	5	1704	1704	1711	0-40	2226	39.7	56.0	55	4338	4792	4565
Lamp Type	FB03IT8	10	1669	1682	1699	0-60	3815	68.1	95.9	65	674	981	657
Lumens/Lamp	2800	15	1618	1643	1670	0-90	3977	71.0	100.0	75	190	258	258
Ballast Factor	.88	20	1555	1585	1636					85	121	202	161
Input Watts	55	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								

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 Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

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	

