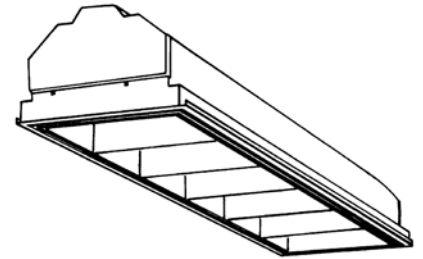


Paralouver Recessed

LP3 Paralouver

1x4 2 Lamp T8, T5, or T5HO

6 or 8 Cell



Specifier's Reference

Project
Type
Model No.
Comments

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”)
 - Screw Slot; with louvers at ceiling plane (NEMA “SS”)
- 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.
- T bar grid clips (UL listed) built into fixture end plates, no extra parts required.

electrical

- UL listed for damp locations. Canadian certified optional.
- Self-contained fluorescent emergency power packs can be incorporated, UL listed for dry locations.

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.
- 6 Cell: Lengthwise shielding is 23°. Crosswise shielding is 29°.
- 8 Cell: Lengthwise shielding is 30°. Crosswise shielding is 29°.
- 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.

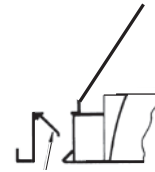
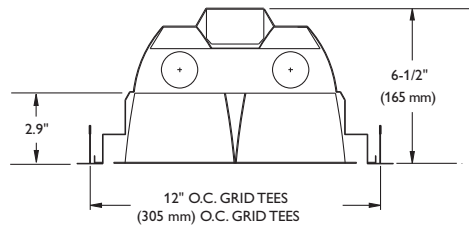
Green Choice: 1LP3GS232-16FL-UNV-1/2-EBLHE-LPT835HL

1	2	-	-	-
<p>Family</p> <p>LP3 – LP3 Paralouver LP3C – Canadian Certified Model LP3CP – Chicago Plenum Model</p>	<p>Air Function</p> <p>A – Air Supply C – Combination (Air & Heat transfer) H – Heat Transfer S – Static (no air function)</p>	<p>Lamp Type/Wattage</p> <p>28 – 28W T5 (46") 32 – 32W T8 (48") 54HO – 54W T5HO (46")</p>	<p>Louver Finish</p> <p>AL – Semi-specular anodized aluminum low iridescence FL – Full specular low iridescence W – White</p>	<p>Options</p> <p>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 – Electronic ballast, instant start, <10% THD EB10R – Electronic ballast, program rapid start, <10% THD EBHE – Electronic ballast, high efficiency, std. ballast factor EBLHE – Electronic ballast, high efficiency, low ballast factor EBHHE – Electronic ballast, high efficiency, high ballast factor E1 – DEB-1 emerg. ballast, 350-450 lumens E7 – DEB-7 emerg. ballast, 600-700 lumens E5 – DEB-5 emerg. ballast, 1100-1400 lumens ESST – DEB-5ST emerg. ballast w/self test, 1100-1400 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) S1 – Specular insert (reflector) LPT735 – Installed T8 lamps, 70+ CRI, 3500K LPT835HL – Installed T8/T5 hi lumen lamps, 80+ CRI, 3500K</p>
<p>Width</p> <p>1 – 1'</p>	<p>Ceiling Type</p> <p>G – Grid F – Flange Z – Z Spline/Modular T – Screw Slot</p>	<p>No. of Lamps</p> <p>(not included) 2</p>	<p>Louver Configuration</p> <p>(Cells Wide x Cells Long)</p> <p>16 18</p>	<p>Voltage</p> <p>120 277 347 UNV – Universal voltage, 120-277 volt</p>

Accessories

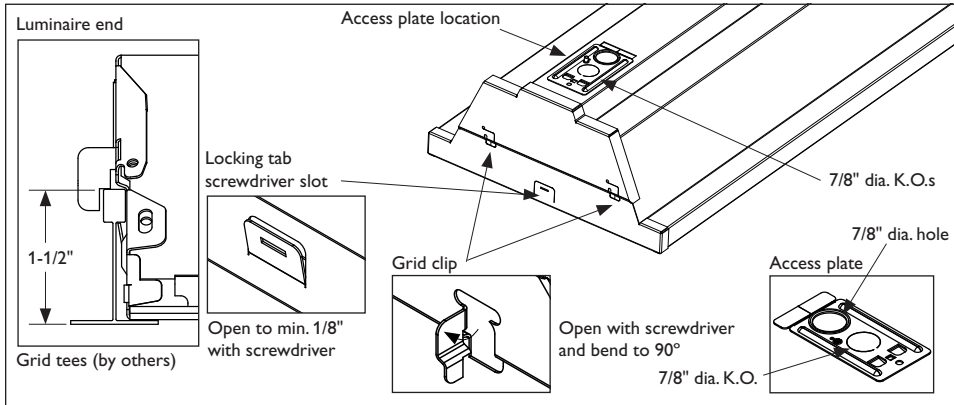
FMA14 – 1'x4' "F" mounting frame for NEMA "F" mounting.

dimensions

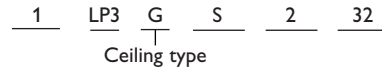


Optional Air Pattern Control (on Air and Combination Units)

- 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



ceiling configuration

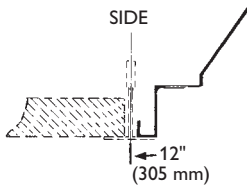


G = Grid (NEMA G)

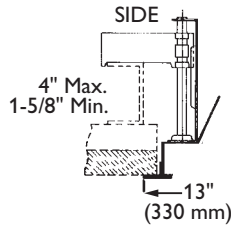
F = Flange (NEMA F)

T = Screw Slot (NEMA SS)

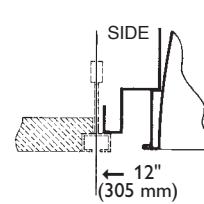
Z = Modular & "Z" Spline (NEMA M/Z)



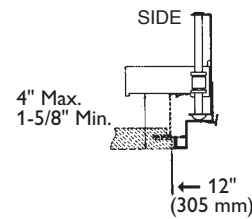
(NEMA Type G)
Lay-in acoustical ceilings using exposed grid suspension, with tees for luminaires on 12" x 48" spacing.



(NEMA Type F)
Flange for acoustical ceilings using concealed mechanical suspension. Swing-jack mounting brackets: adjustment 4" max. and 1-5/8" min. Refer to sheet 801-CL for cut-out information.



Louvered fixture with louvers at the ceiling plane.
(NEMA Type SS)
Typical Screw Slot Ceiling System. Bottom of louver is flush with ceiling plane.



(NEMA M/Z)
Modular and "Z" Spline using concealed mechanical suspension. Swing-jack mounting brackets: adjustment 4" max. and 1-5/8" min.

For photometric tests on white louvers ask for test #'s:

6 cell – 20617

8 cell – 20618

LP3 1x4 2 Lamp T8 6 Cell

Efficiency – 73.8%

LER – 64

TER – 55

Catalog No. 1LP3GS232-16FL-1/2-EB Test No. 20623 S/MH 1.7 Lamp Type F32T8 Lumens/Lamp 2850 Ballast Factor 0.88 Input Watts 58 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				Light Distribution				Average Luminance							
	Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire	Angle	End	45°	Cross				
	0	1540	1540	1540	0-30	1213	21.3	28.8	45	4995	7482	6552				
	5	1535	1536	1521	0-40	2098	36.8	49.9	55	4397	6227	5771				
	10	1509	1518	1513	0-60	3915	68.7	93.1	65	2244	2167	1892				
	15	1469	1490	1496	0-90	4206	73.8	100.0	75	56	70	42				
	20	1415	1450	1466					85	42	42	42				
	25	1346	1399	1450	Coefficients of Utilization											
	30	1270	1345	1497	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)											
	35	1182	1315	1794	pcc	80			70			50				
	40	1080	1379	1693	pw	70	50	30	70	50	30	50	30			
45	972	1456	1275	RCR												
50	843	1274	1517	0	88	88	88	85	85	85	81	81				
55	694	983	911	1	81	79	76	80	77	75	73	71				
60	525	719	367	2	75	69	66	73	68	65	66	63				
65	261	252	220	3	68	61	56	67	60	56	58	55				
70	32	55	23	4	64	55	50	61	55	48	53	47				
75	4	5	3	5	57	50	42	56	48	42	46	41				
80	2	2	1	6	54	45	38	53	44	38	42	36				
85	1	1	1	7	50	40	34	48	40	34	39	33				
				8	46	36	30	45	35	29	34	29				
				9	42	34	28	41	33	28	32	27				
				10	40	30	25	39	30	25	29	25				

LP3 1x4 2 Lamp T8 6 Cell

Efficiency – 70.2%

LER – 61

TER – 58

Catalog No. 1LP3GS232-16AL-1/2-EB Test No. 20630 S/MH 1.6 Lamp Type F32T8 Lumens/Lamp 2850 Ballast Factor .88 Input Watts 58 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				Light Distribution				Average Luminance							
	Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire	Angle	End	45°	Cross				
	0	1510	1510	1510	0-30	1190	20.9	29.8	45	4861	6449	6742				
	5	1501	1506	1498	0-40	2029	35.6	50.7	55	4321	5505	5265				
	10	1472	1485	1489	0-60	3669	64.4	91.7	65	2339	2450	2021				
	15	1430	1455	1473	0-90	3999	70.2	100.0	75	295	407	463				
	20	1376	1411	1460					85	125	208	250				
	25	1310	1367	1461	Coefficients of Utilization											
	30	1236	1330	1501	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)											
	35	1150	1302	1619	pcc	80			70			50				
	40	1053	1295	1539	pw	70	50	30	70	50	30	50	30			
45	946	1255	1312	RCR												
50	824	1093	1250	0	83	83	83	81	81	81	78	78				
55	682	869	831	1	78	75	72	76	72	70	70	68				
60	509	605	411	2	71	67	61	69	65	61	63	59				
65	272	285	235	3	66	58	54	64	57	53	56	52				
70	76	99	85	4	59	53	46	58	52	46	50	46				
75	21	29	33	5	56	46	40	54	46	40	45	40				
80	8	12	15	6	51	42	36	50	41	35	40	35				
85	3	5	6	7	47	39	33	46	38	32	36	32				
				8	44	34	28	42	34	28	34	28				
				9	40	32	27	40	32	26	30	26				
				10	39	29	23	38	28	23	28	23				

LP3 1x4 2 Lamp T8 8 Cell

Efficiency – 71.7%

LER – 62

TER – 57

Catalog No.	1LP3GS232-18FL-1/2-EB
Test No.	20624
S/MH	1.7
Lamp Type	F32T8
Lumens/Lamp	2850
Ballast Factor	0.88
Input Watts	58

Candlepower			
Angle	End	45	Cross
0	1551	1551	1551
5	1545	1549	1536
10	1516	1529	1528
15	1473	1498	1508
20	1417	1454	1479
25	1347	1401	1462
30	1268	1350	1507
35	1178	1320	1806
40	1072	1374	1713
45	956	1441	1331
50	817	1252	1536
55	650	990	946
60	376	595	376
65	94	177	211
70	5	28	29
75	2	4	4
80	2	2	2
85	1	1	1

Light Distribution				Average Luminance			
Degrees	Lumens	% Lamp	% Luminaire	Angle	End	45°	Cross
0-30	1218	21.4	29.8	45	4913	7405	6840
0-40	2102	36.9	51.4	55	4118	6272	5993
0-60	3885	68.2	95.0	65	808	1522	1814
0-90	4089	71.7	100.0	75	28	56	56
				85	42	42	42

Comparative yearly lighting energy cost per 1000 lumens – **\$3.87** 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.

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	80	80	
1	80	77	75	78	75	72	71	70	
2	73	68	65	71	67	64	65	61	
3	68	60	56	66	59	55	57	54	
4	61	55	48	60	54	47	52	46	
5	56	48	42	56	47	42	46	41	
6	53	44	38	52	42	38	41	36	
7	48	40	34	47	39	34	38	33	
8	46	35	29	44	35	29	34	29	
9	41	33	28	40	33	27	32	27	
10	40	30	25	39	29	25	28	25	

LP3 1x4 2 Lamp T8 8 Cell

Efficiency – 68.1%

LER – 59

TER – 54

Catalog No.	1LP3GS232-18AL-1/2-EB
Test No.	20631
S/MH	1.6
Lamp Type	F32T8
Lumens/Lamp	2850
Ballast Factor	.88
Input Watts	58

Candlepower			
Angle	End	45	Cross
0	1532	1532	1532
5	1524	1525	1517
10	1488	1501	1507
15	1441	1464	1488
20	1386	1418	1475
25	1317	1365	1471
30	1242	1324	1512
35	1152	1287	1647
40	1054	1271	1570
45	936	1219	1326
50	803	1053	1287
55	643	810	863
60	410	513	414
65	169	204	234
70	52	66	79
75	21	25	27
80	8	11	12
85	2	4	4

Light Distribution				Average Luminance			
Degrees	Lumens	% Lamp	% Luminaire	Angle	End	45°	Cross
0-30	1196	21.0	30.8	45	4810	6264	6814
0-40	2034	35.7	52.4	55	4074	5131	5467
0-60	3624	63.6	93.4	65	1453	1754	2012
0-90	3880	68.1	100.0	75	295	351	379
				85	83	167	167

Comparative yearly lighting energy cost per 1000 lumens – **\$4.07** 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.

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	76	72	70	73	70	68	68	67	
2	69	65	60	68	64	59	60	57	
3	64	57	53	63	56	52	55	51	
4	58	52	46	57	51	46	48	45	
5	54	46	40	53	46	40	44	40	
6	50	41	35	48	40	35	40	34	
7	46	38	32	45	36	32	35	32	
8	42	34	28	41	34	28	33	28	
9	40	32	26	40	30	26	30	26	
10	38	28	23	36	28	23	28	23	



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



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