Day-Brite CFI by Signify

Special Application

LPL series
low profile linear

Vandal resistant
T5, T5HO, or T8

Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

Day-Brite / CFI LPL series low profile linear features a marine grade extruded aluminum backplate with die-cast aluminum round or square end caps. Its heavy duty construction is designed to meet the demands of extreme environments.

Ordering guide

Example: LPLS232-UNV-F1-1/2-EB

Family	Ends	No. of Lamps/ Cross Section	Lamp Type[1,2]	Voltage	Fasteners	No. of Ballasts	Ballast Type	Options
LPL Low Profile Linear Fluorescent (2 or 4 ft.)	**S** Square **R** Round	**2** 2 Lamps **3** 3 Lamps (4' only) **4** 4 Lamps (4' only)[3]	**14** 14WT5 (24") **17** 17WT8 (24") **24HO** 24WT5HO (24") **28** 28WT5 (48") **32** 32WT8 (48") **54HO** 54WT5HO (48")	**UNV** Universal voltage, 120-277V **120** 120V **277** 277V **347** 347V	**F1** Allen Head Center Pin Reject **F2** TORX Head Center Pin Reject	**1/2** 2-Lamp Ballast **2/1** Two 1-Lamp Ballasts **1/3** 3-Lamp Ballast **1/21** 2-Lamp and 1-Lamp Ballast **1/4** 4-Lamp Ballast **2/2** Two 2-Lamp Ballasts	**EB** Electronic ballast, <10% THD, T8 instant start, T5 rapid start **EB10R** Electronic ballast, T8 rapid start, <10% THD	**E7** B60 emerg. ballast, T8, 600-700 lumens, 120/277V[4] **E5** B50 emerg. ballast, U.S. or Canada market, T8, 1100-1400 lumens, UNV **E7LP** LP550 emerg. ballast T5/T5HO, 430-700 lumens, 120/277V[4] **E6LP** LP600 emerg. ballast U.S. or Canada market, T5/T5HO, 750-1325 lumens, 120/277V[4] **GLR** Fusing, fast blow **AG** Agion™ antimicrobial protection in powder coat paint (white finish only) **NLF7** 7W PL Night Light[4] (4' only) **NLEDS** LED nightlight[4] (120V only) **NSF** NSF Listed, Food Zone/Non-Contact & Splash Zone **WO** White opal polycarbonate lens **BK** Black finish **BZ** Bronze finish **CS** Custom color (provide RAL#) **XTR** Natatorium environment

Footnotes

1. Lamps supplied by others.
2. Length without end caps. For actual lengths, see dimensions.
3. Not available in T5HO.
4. Specify voltage.

General Notes

- Consult factory for additional conifgurations.
- Many luminaire components, such as reflectors, refractors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility.

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Standards

- ETL (US/Canada)
- Wet location 200 psi spray down listed
- ADA Compliant
- NSF National Sanitation Foundation Approved, Food Zone/ Non-Contact and Splash Zone, with NSF option
- Suitable for Natatorium environments with XTR option

Construction/Finish

- Marine grade extruded aluminum backplate with die cast aluminum end caps.
- End caps available in round or square profiles.
- Stainless steel center pin reject Allen-head fasteners. Other fasteners are available.
- Multi-stage pretreatment process, standard finishes are baked white polyester powder coating. Gloss 85%, reflectance 90%, salt spray 1,000 hrs.

Lens

- Clear lens is .156" thick positive interlocking, lighting grade, UV stabilized, extruded high impact polycarbonate lens with integral linear prisms.
- White opal lens is also available.
- Lens sealed to the housing ends with EPDM sponge rubber cord and closed cell neoprene gasketing.

Electrical

- Standard Class P, sound rated A electronic ballasts.

Installation

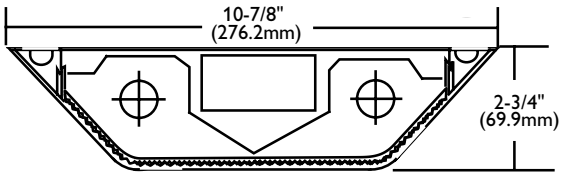
- Wall or ceiling mounted individually.

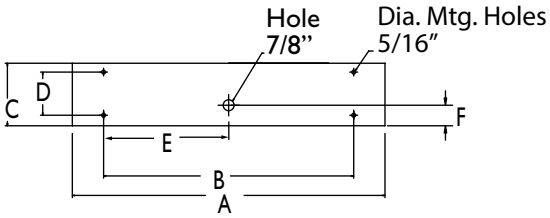
Option

- Agion® antimicrobial protection using silver technology inhibits bacterial colonization on metal interior or exterior surfaces. Agion® antimicrobial protection is FDA recognized and EPA registered meeting all applicable EPA standards.

Dimensions

END VIEW





	EndCap	Length	A	B	C	D	E	F
LPL	Square	24"	27.625"	23"	10.875"	7.75"	11.5"	4.5"
LPL	Square	48"	51.625"	47"	10.875"	7.75"	23.5"	4.5"
LPL	Round	24"	32"	23"	10.875"	7.75"	11.5"	4.5"
LPL	Round	48"	56"	47"	10.875"	7.75"	23.5"	4.5"

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

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Photometry

LPL 2 Lamp F32T8 — Efficiency – 64.8 — LER – 62 — TER – 53

Catalog No.	LPL-232-EB
Test No.	28712
S/MH	1.2
Lamp Type	F32T8
Lumens/Lamp	2850
Ballast Factor	1.0
Input Watts	59

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

Candlepower

Angle	End	45	Cross
0	1187	1187	1187
5	1188	1184	1180
15	1143	1141	1113
25	1050	980	999
35	910	867	941
45	679	764	873
55	397	610	728
65	177	434	541
75	46	298	394
85	3	181	266
95	0	121	215
105	0	73	166
115	0	32	106
125	0	1	45
135	0	0	2
145	0	0	0
155	0	0	0
165	0	0	0
175	0	0	0

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	899	15.8	24.3
0-40	1459	25.6	39.5
0-60	2590	45.4	70.1
0-90	3444	60.4	93.2
90-120	238	4.2	6.4
90-130	249	4.4	6.7
90-150	250	4.4	6.8
90-180	250	4.4	6.8
0-180	3694	64.8	100.0

Average Luminance

Angle	End	45°	Cross
45	3352	3349	3729
55	2377	3101	3576
65	1400	2725	3241
75	561	2547	3148
85	85	2542	3342

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	76	76	76	73	73	73	69	69
1	68	65	61	66	63	60	59	56
2	61	56	52	59	55	51	52	47
3	56	50	44	55	47	42	46	40
4	52	44	38	50	42	36	40	35
5	47	39	33	46	38	33	35	30
6	44	34	28	41	34	28	33	28
7	40	32	26	39	30	26	29	25
8	38	28	23	36	28	23	27	23
9	34	27	20	34	26	20	25	20
10	33	25	19	32	23	19	23	19

LPL 2 Lamp F54T5HO — Efficiency – 79.7 — LER – 66 — TER – 55

Catalog No.	LPL-254HO-EB
Test No.	28713
S/MH	1.4
Lamp Type	F54T5HO
Lumens/Lamp	5000
Ballast Factor	1.0
Input Watts	121

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

Candlepower

Angle	End	45	Cross
0	2283	2283	2283
5	2274	2330	2379
15	2140	2325	2339
25	1896	2160	2211
35	1593	1960	2104
45	1256	1507	1673
55	874	1095	1484
65	429	856	1303
75	187	643	1038
85	19	446	777
95	0	307	633
105	0	187	442
115	0	73	273
125	0	13	104
135	0	3	15
145	0	0	0
155	0	0	0
165	0	0	0
175	0	0	0

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	1853	18.5	23.3
0-40	3060	30.6	38.4
0-60	5294	52.9	66.4
0-90	7282	72.8	91.4
90-120	648	6.5	8.1
90-130	682	6.8	8.6
90-150	686	6.9	8.6
90-180	686	6.9	8.6
0-180	7968	79.7	100.0

Average Luminance

Angle	End	45°	Cross
45	6523	6948	7523
55	5500	5852	7670
65	3562	5644	8211
75	2387	5761	8716
85	562	6544	10240

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	93	93	93	90	90	90	84	84
1	83	79	75	81	77	72	71	68
2	76	68	63	72	66	60	61	57
3	68	59	53	66	57	52	55	48
4	63	53	46	60	52	45	48	42
5	57	46	40	56	46	39	44	38
6	53	42	34	51	40	34	39	33
7	50	39	32	47	38	30	35	29
8	46	34	28	44	34	28	33	27
9	42	32	26	41	32	25	29	23
10	40	29	23	39	28	23	28	22

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