Curved Troffer

Back-lit LED | CCT& Wattage Adjustable

LIGHTING Elements

Designed to deliver an unprecedented uniformity and functionality, this floating curved troffer features a compact yet sturdy aluminum construction designed to blend into modern architectural spaces. Featuring a low profile form factor, it is ideal for buildings with a low plenum space and is suitable for all standard 2x2, 1x4 or 2x4 grid ceilings. This creates a soft and comfortable lighting experience for commercial and institutional spaces including open offices, classrooms, retail and healthcare facilities, goes beyond what was previously possible with traditional LED luminaires.

Feature

Low profile design

Uniform and soft illumination with back-lit technology

CCT adjustable from 3000k, 3500k and 4000k

Wattage adjustable, up to 110lm/W

Adjustable CCT

Adjustable Wattage

PERFORMANCE

Model NO.	Dimension	Wattage Adjustable	Lumen Output			Efficacy	CCT Adjustable
			High	Medium	Low		
LE-CURVED-22	2'x2'	35W/30W/25W	3850lm	3300lm	2750lm	Up to 110lm/w	3000K/3500K/4000K
LE-CURVED-14	1'x4'	35W/30W/25W	3850lm	3300lm	2750lm	Up to 110lm/w	3000K/3500K/4000K
LE-CURVED-24	2'x4'	50W/40W/30W	5500lm	4400lm	3300lm	Up to 110lm/w	3000K/3500K/4000K

PRODUCT PERFORMANCE

Finish

Extruded aluminum housing with powder coat white finish provides long term performance and superior aesthetic.

Electrical

LED Driver	It is powered by Class 2 high efficiency LED driver, with a standard 1-10V driver which continuous dims to 10% that works with many types of controls. Tested Dimmers: Lutron ® Diva-Dvtv, Leviton ® IP-710-DL.
THD	<20%
Power Factor	>0.9
Input Voltage	Standard electronic driver is UL recognized and available for 110-277V or 110-347V AC.

LED System

CRI	Minimum 80 color rendering index
CCT	CCT adjustable from 3000K, 3500K and 4000K with a great color consistency
LED	life Minimum 50,000h with 87.8% of lumen maintenance in 25°C ambient temperature, in compliance with IES LM-80 testing measurements.
Thermal Management	Aluminum housing acting as the heat sink to maximize life.
Environment	Damp rated in operating ambient temperatures of 0-50°C .

Mounting

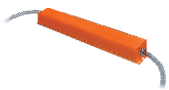
Recessed

Warranty

5-year Limited Warranty

Optional Function

Emergency Option



Optional high voltage 8W emergency LED driver EM-H08170-LBF can be provided. When AC power fails, it immediately switches to the emergency mode, operating for lighting up to 120 minutes. When AC power is restored, it automatically returns to the charging mode which meets critical life-safety lighting requirements.

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Emergency Lumen Output:

Fixture Efficacy	Output Power 8w
110lm/w	880 Lumens

CP — Chicago Plenum Rated

PRODUCT ORDERING GUIDE

Sample

CURVED 22-DM-TWTS
1 2 3 4 5

CURVED		DM	TW	TS
1	2	3	4	5

1.Base Model

☑ CURVED	Floating Curved Troffer

2. Size

☐ 22	2'X2'
☐ 14	1'X4'
☐ 24	2'X4'

3. Dimming

☑ DM	1-10V Dimming

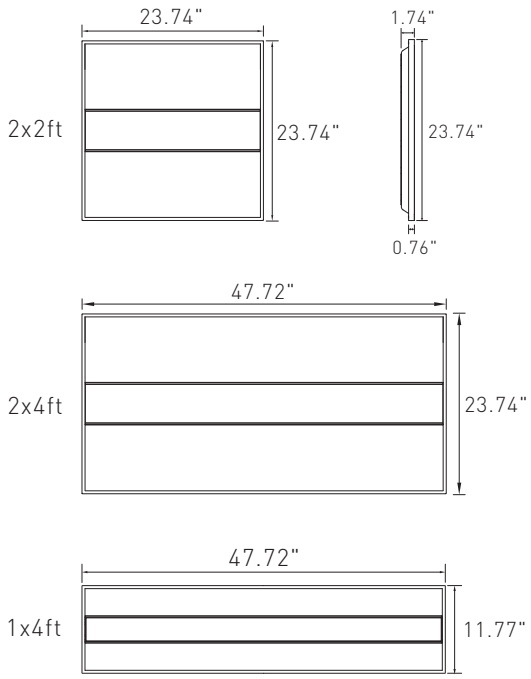
4. CCT

☑ TW	CCT adjustable from 3000K, 3500K and 4000K.

5. Efficacy

☑ TS	110lm/w

DIMENSION



T-GRIDS CEILING COMPATIBILITY

It is architectural recessed lighting solution that compatible with most 15/16" and 9/16" t-grid systems for commercial and institutional environment. The following are only as some common examples to show.

9/16" Flat

Suprafine® XL

9/16" Slot

Silhouette® 1/4" XL

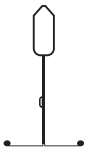
Silhouette® 1/8" XL

9/16" Interlude

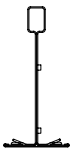
Interlude® XL

Sonata® XL

15/16" Flat



Prelude® XL



Clean Room

*Please verify compatibility with factory.

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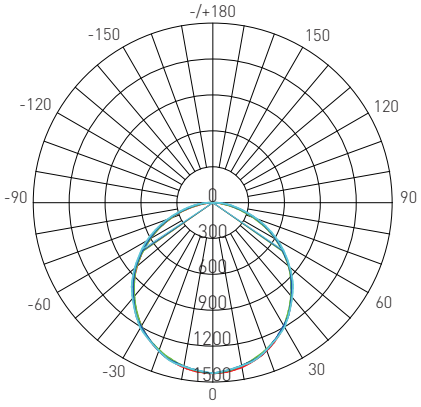
DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%): 111.1°

Test Number: TR22-DM-TWTS
Lumens: 4000.66 Lm
Watts: 35 W
LPW: 116.73 Lm/W
CCT: 3500K

UNIT:cd
C0/180,110.7°
C30/270,110.2 °
C60/240,111.1°
C90/270,112.5 °

Zonal Flux Diagram

T	C0	C45	C90	C135	C180
5	1419	1408	1405	1408	1420
10	1398	1383	1385	1383	1398
15	1363	1352	1361	1351	1367
20	1317	1313	1310	1313	1319
25	1260	1252	1255	1251	1261
30	1190	1181	1201	1180	1193
35	1114	1106	1117	1105	1115
40	1029	1026	1033	1024	1028
45	932.4	925	946.1	921.0	931.1
50	830.5	823.9	841.1	816.0	828.2
55	721.9	721.3	733.7	709.4	719.9
60	608.0	603.6	626.4	591.4	604.3
65	490.5	486.1	507.4	474.9	486.5
70	370.2	367.4	388.3	358.9	365.4
75	250.8	251.3	272.2	243.7	245.1
80	136.9	144.2	179.9	138.3	124.9
85	39.08	72.18	90.61	68.99	30.60
90	0.2886	1.808	1.312	1.529	0.2382
95	0.5084	1.778	1.428	1.586	0.3787
100	0.5323	1.749	1.544	1.638	0.5276
105	0.7128	1.751	1.664	1.733	0.7256
110	0.9203	1.789	1.823	1.855	0.7463
115	1.155	1.832	1.987	1.985	1.145
120	1.385	1.950	2.151	2.106	1.348
125	1.610	2.106	2.280	2.266	1.537
130	1.773	2.257	2.393	2.498	1.686
135	1.944	2.385	2.504	2.622	1.858
140	2.111	2.464	2.615	2.591	2.011
145	2.241	2.522	2.667	2.565	2.151
150	2.368	2.587	2.694	2.552	2.286
155	2.458	2.656	2.718	2.573	2.399
160	2.548	2.681	2.742	2.610	2.503
165	2.624	2.696	2.736	2.647	2.597
170	2.665	2.704	2.725	2.677	2.665
175	2.697	2.712	2.713	2.698	2.724
180	2.701	2.701	2.701	2.701	2.733
DEG	LUMINOUS INTENSITY:cd				

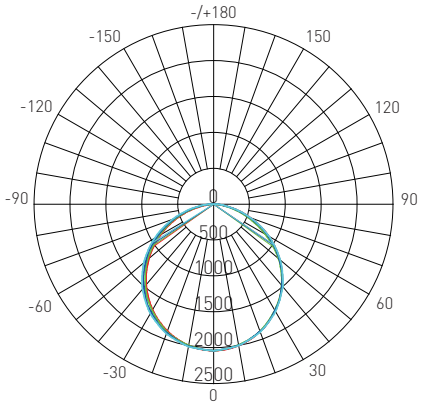
Zonal Lumens

T	ϕ total
0-5	33.87
5-10	133.9
10-15	296.8
15-20	516.9
20-25	786.1
25-30	1096
30-35	1435
35-40	1792
40-45	2155
45-50	2512
50-55	2849
55-60	3157
60-65	3425
65-70	3642
70-75	3805
75-80	3912
80-85	3971
85-90	3989
90-95	3990
95-100	3990
100-105	3991
105-110	3992
110-115	3993
115-120	3993
120-125	3994
125-130	3995
130-135	3996
135-140	3997
140-145	3998
145-150	3998
150-155	3999
155-160	4000
160-165	4000
165-170	4000
170-175	4001
175-180	4001
UNIT: lm	

Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	1430	3315
80	2514	3304
75	3089	3354
70	3452	3620
65	3701	3828
60	3878	3995
55	4013	4079
50	4120	4172
45	4205	4266

DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%): 111.8°

Test Number: TR24-DM-TWTS
Lumens: 5736.84 Lm
Watts: 50 W
LPW: 113.57 Lm/W
CCT: 3500K

UNIT:cd
C0/180,110.8°
C30/270,110.2 °
C60/240,112.4°
C90/270,113.9 °

Zonal Flux Diagram

T	C0	C45	C90	C135	C180
5	2030	2022	2021	2021	2030
10	2001	1992	2002	1993	1998
15	1953	1950	1950	1950	1948
20	1889	1881	1897	1879	1881
25	1810	1805	1813	1800	1798
30	1715	1709	1728	1702	1701
35	1606	1598	1614	1591	1589
40	1483	1479	1500	1470	1463
45	1349	1338	1358	1319	1326
50	1203	1193	1215	1160	1178
55	1046	1019	1052	982.2	1019
60	883.7	844.9	889.5	807.5	854.0
65	712.7	668.5	713.8	629.6	683.4
70	539.7	496.0	538.2	462.2	511.6
75	370.7	327.7	372.4	306.6	341.6
80	209.4	183.4	206.6	174.8	173.6
85	63.77	73.47	104.8	72.74	38.72
90	0.5907	3.238	2.868	3.301	0.7403

Zonal Lumens

T	ϕ total
0-5	48.56
5-10	192.5
10-15	426.9
15-20	743.8
20-25	1133
25-30	1580
30-35	2071
35-40	2588
40-45	3155
45-50	3632
50-55	4121
55-60	4564
60-65	4946
65-70	5255
70-75	5485
75-80	5635
80-85	5713
85-90	5737

Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	1180	1939
80	1945	1919
75	2310	2321
70	2545	2538
65	2720	2724
60	2851	2869
55	2942	2959
50	3017	3049
45	3076	3097