

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P601004

Luminaire Tested: 4APVTLD-SL3C3 HI POWER 4000K 277V

Issue Date: 1/31/2023

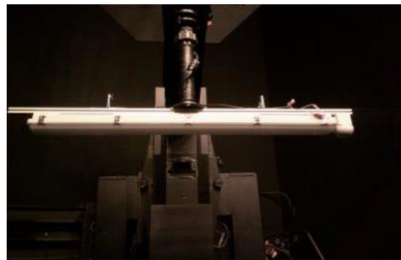
Test Information

Test Method: LM-79-2019
Report Number: P601004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-820-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/31/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4APVTLTD-SL3C3 HI POWER 4000K 277V
Description: HI POWER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

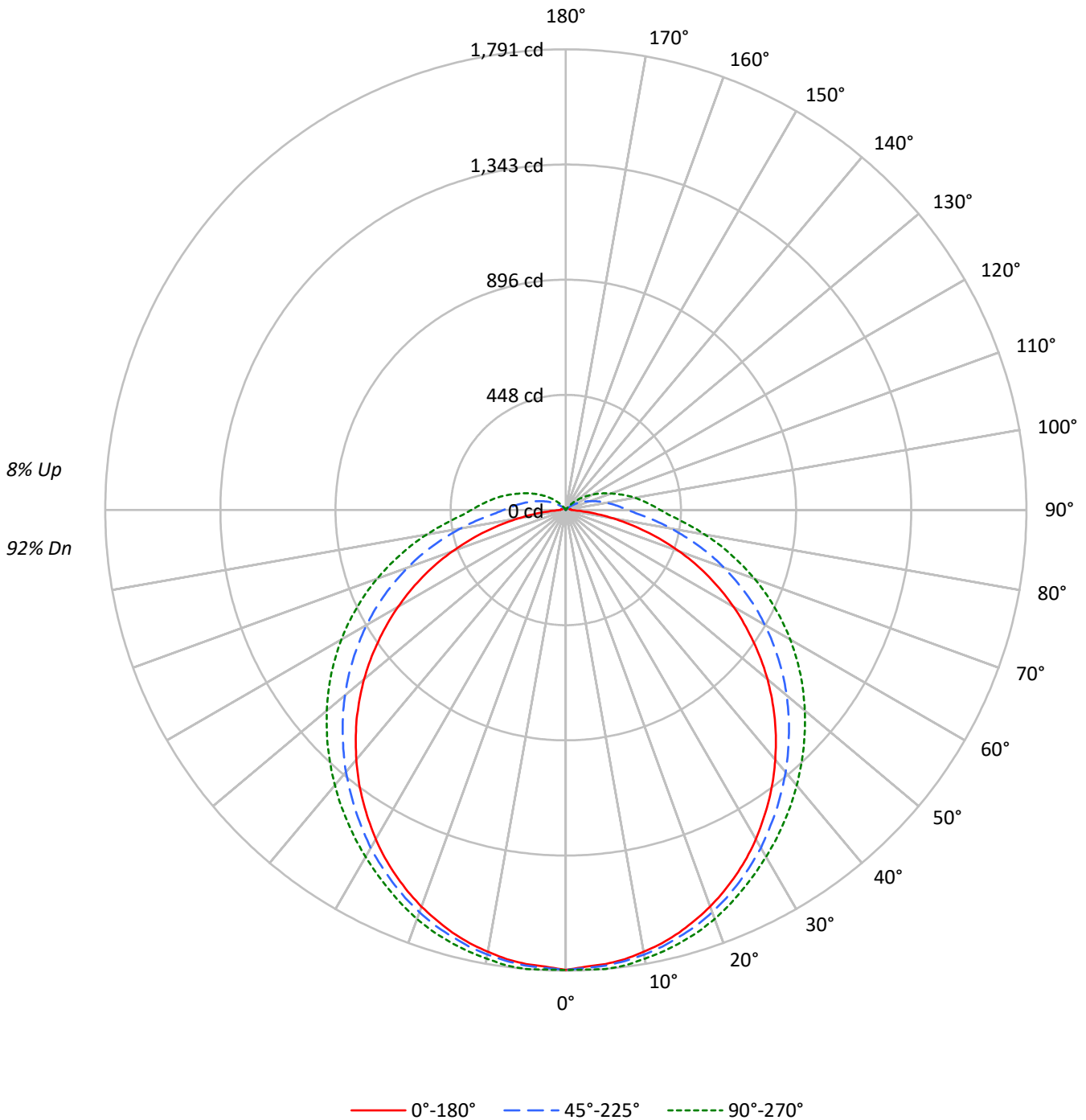
Lumens per Lamp: N/A
Luminaire Lumens: 6241.1 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 44.5
Input Voltage (V): 277
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	95	95	95	95
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	78	76	76	76	76	74
2	95	86	78	72	92	83	76	71	78	73	68	74	69	65	70	66	63	63	63	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	54	61	56	52	52	52	52	50
4	79	66	57	50	76	64	56	49	61	53	47	57	51	46	54	49	45	45	45	45	42
5	72	59	49	42	69	57	48	42	54	47	41	51	45	40	49	43	38	38	38	38	36
6	67	53	43	37	64	51	43	36	49	41	35	46	40	35	44	38	34	34	34	34	31
7	62	48	39	32	59	47	38	32	44	37	31	42	35	30	40	34	30	30	30	30	28
8	57	43	35	29	55	42	34	28	40	33	28	39	32	27	37	31	27	27	27	27	25
9	53	40	31	26	52	39	31	26	37	30	25	36	29	24	34	28	24	24	24	24	22
10	50	37	29	23	48	36	28	23	34	27	23	33	27	22	32	26	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14434	14434	14434
5°	14334	14171	14203
10°	14244	13917	13905
15°	14138	13642	13622
20°	13992	13364	13324
25°	13815	13051	12987
30°	13614	12733	12683
35°	13376	12392	12413
40°	13123	12076	12169
45°	12861	11757	11947
50°	12549	11463	11737
55°	12165	11151	11554
60°	11750	10839	11357
65°	11227	10494	11142
70°	10448	10115	10928
75°	9348	9696	10698
80°	7692	9271	10556
85°	5611	9091	10637

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12861 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.4	2.7
10°-20°	485.9	7.8
20°-30°	737.3	11.8
30°-40°	895.2	14.3
40°-50°	950.1	15.2
50°-60°	901.8	14.4
60°-70°	759.7	12.2
70°-80°	547.1	8.8
80°-90°	324.7	5.2
90°-100°	202.7	3.2
100°-110°	131.9	2.1
110°-120°	76.8	1.2
120°-130°	38.4	0.6
130°-140°	14.1	0.2
140°-150°	3.9	0.1
150°-160°	1.9	0.0
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	1392.6	22.3
0°-40°	2287.8	36.7
0°-60°	4139.8	66.3
0°-90°	5771.2	92.5
90°-120°	411.5	6.6
90°-150°	467.9	7.5
90°-180°	470.0	7.5
0°-180°	6241.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1788	1788	1788	1788	1788	
5°	1772	1792	1778	1779	1791	168
15°	1701	1723	1716	1727	1739	480
25°	1566	1591	1596	1613	1628	722
35°	1377	1406	1426	1459	1480	861
45°	1150	1186	1227	1280	1308	886
55°	890	940	1009	1082	1114	796
65°	614	677	775	863	896	607
75°	323	413	533	629	663	342
85°	75	183	313	408	443	85
90°	23	117	242	333	367	14
95°	19	86	198	286	318	15
105°	15	44	129	200	229	16
115°	12	18	76	130	152	12
125°	8	9	36	74	91	7
135°	5	6	8	31	41	4
145°	4	4	5	7	8	3
155°	4	3	4	5	5	2
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1788	1788	1788	1788	1788
2.5°	1777	1798	1782	1785	1788
5°	1772	1792	1778	1779	1791
7.5°	1761	1782	1768	1771	1785
10°	1744	1766	1755	1758	1771
12.5°	1725	1747	1738	1743	1757
15°	1701	1723	1716	1727	1739
17.5°	1672	1697	1693	1705	1718
20°	1641	1665	1664	1676	1692
22.5°	1605	1629	1632	1645	1662
25°	1566	1591	1596	1613	1628
27.5°	1524	1550	1557	1579	1593
30°	1478	1504	1517	1541	1557
32.5°	1428	1456	1471	1502	1520
35°	1377	1406	1426	1459	1480
37.5°	1324	1353	1378	1417	1440
40°	1267	1299	1330	1373	1397
42.5°	1209	1244	1279	1328	1353
45°	1150	1186	1227	1280	1308
47.5°	1087	1128	1175	1232	1261
50°	1024	1066	1121	1184	1213
52.5°	958	1004	1066	1134	1164
55°	890	940	1009	1082	1114
57.5°	822	874	952	1029	1061
60°	754	809	894	975	1008
62.5°	684	743	836	919	953
65°	614	677	775	863	896
67.5°	543	610	714	805	839
70°	468	543	654	747	781
72.5°	395	478	595	689	722
75°	323	413	533	629	663
77.5°	253	350	473	571	607
80°	185	289	416	513	549
82.5°	126	234	364	458	494
85°	75	183	313	408	443
87.5°	38	144	271	366	399
90°	23	117	242	333	367
92.5°	21	101	218	309	342
95°	19	86	198	286	318
97.5°	18	74	180	264	295
100°	17	62	162	242	273
102.5°	16	53	145	220	251
105°	15	44	129	200	229
107.5°	14	37	115	181	207
110°	13	29	101	163	188



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	13	23	88	146	170
115°	12	18	76	130	152
117.5°	11	13	65	115	136
120°	11	11	55	101	120
122.5°	9	10	45	87	105
125°	8	9	36	74	91
127.5°	6	8	28	62	78
130°	5	8	20	51	65
132.5°	5	7	14	41	53
135°	5	6	8	31	41
137.5°	5	5	7	22	31
140°	4	5	6	14	22
142.5°	4	4	6	8	14
145°	4	4	5	7	8
147.5°	4	4	5	6	7
150°	4	3	4	6	6
152.5°	4	3	4	5	6
155°	4	3	4	5	5
157.5°	4	3	3	4	4
160°	4	3	3	4	4
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)