

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: P600992

Luminaire Tested: 4APVTLD-SL3C3 HI POWER 3500K 277V

Issue Date: 1/31/2023

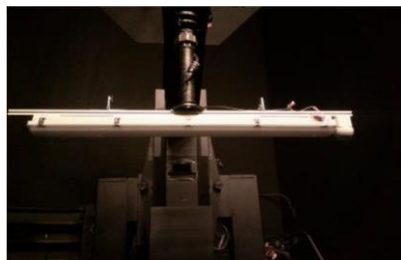
Test Information

Test Method: LM-79-2019
Report Number: P600992
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-820-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/31/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4APVTLTD-SL3C3 HI POWER 3500K 277V
Description: HI POWER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

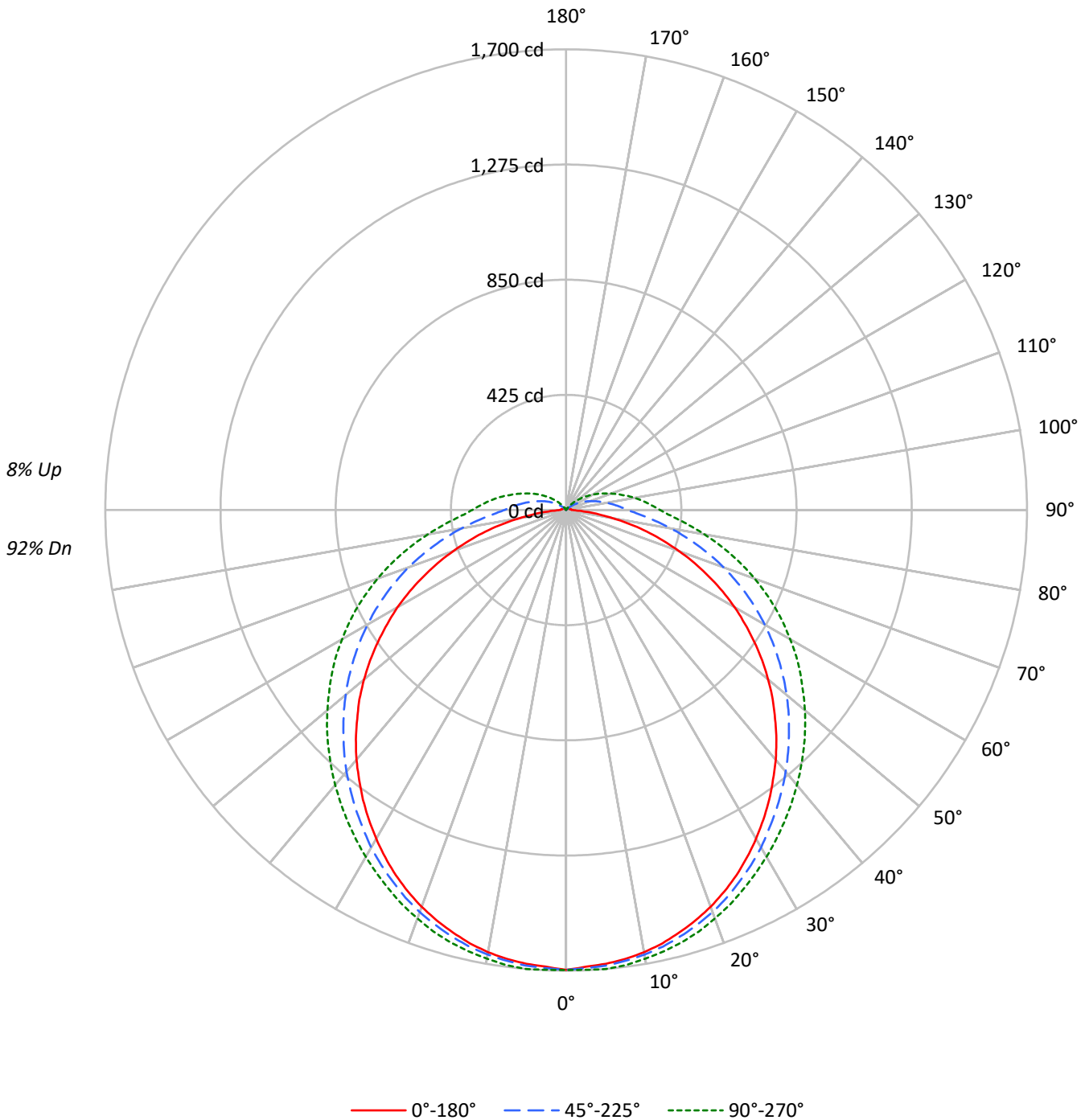
Lumens per Lamp: N/A
Luminaire Lumens: 5910.6 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 45.9
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	79	76	76	76	76	74
2	95	86	78	72	92	83	76	71	79	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	44	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	36	31	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	54	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°	13700	13700	13700
5°	13598	13454	13482
10°	13534	13211	13198
15°	13414	12950	12932
20°	13284	12681	12631
25°	13118	12372	12325
30°	12905	12070	12040
35°	12686	11740	11775
40°	12460	11440	11542
45°	12190	11134	11326
50°	11924	10859	11128
55°	11577	10555	10942
60°	11189	10257	10749
65°	10624	9926	10570
70°	9890	9558	10355
75°	8914	9132	10134
80°	7359	8758	9960
85°	5386	8598	10037

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12190 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	2.7
10°-20°	461.0	7.8
20°-30°	699.2	11.8
30°-40°	848.4	14.4
40°-50°	900.1	15.2
50°-60°	854.0	14.4
60°-70°	718.8	12.2
70°-80°	517.1	8.7
80°-90°	306.8	5.2
90°-100°	191.4	3.2
100°-110°	124.6	2.1
110°-120°	72.8	1.2
120°-130°	36.4	0.6
130°-140°	13.5	0.2
140°-150°	3.8	0.1
150°-160°	1.8	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1321.0	22.3
0°-40°	2169.4	36.7
0°-60°	3923.5	66.4
0°-90°	5466.2	92.5
90°-120°	388.7	6.6
90°-150°	442.5	7.5
90°-180°	444.0	7.5
0°-180°	5910.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1697	1697	1697	1697	1697	
5°	1681	1701	1688	1688	1700	160
15°	1614	1635	1629	1637	1651	455
25°	1487	1508	1513	1530	1545	685
35°	1306	1332	1351	1383	1404	817
45°	1090	1123	1162	1214	1240	842
55°	847	890	955	1023	1055	757
65°	581	641	733	816	850	575
75°	308	390	502	593	628	326
85°	72	173	296	387	418	82
90°	22	110	227	315	346	14
95°	19	81	187	270	300	15
105°	15	42	122	189	214	16
115°	11	17	72	123	144	11
125°	8	9	34	70	86	7
135°	5	6	8	29	40	4
145°	4	4	5	7	8	3
155°	4	3	4	4	5	2
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

TEST NUMBER: P600992

CATALOG NUMBER: 4APVTLTD-SL3C3 HI POWER 3500K 277V

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1697	1697	1697	1697	1697
2.5°	1687	1706	1692	1693	1698
5°	1681	1701	1688	1688	1700
7.5°	1671	1691	1678	1680	1694
10°	1657	1676	1666	1668	1681
12.5°	1638	1657	1650	1653	1668
15°	1614	1635	1629	1637	1651
17.5°	1588	1609	1605	1617	1630
20°	1558	1579	1579	1589	1604
22.5°	1524	1545	1548	1560	1577
25°	1487	1508	1513	1530	1545
27.5°	1445	1469	1477	1496	1512
30°	1401	1425	1438	1460	1478
32.5°	1354	1380	1394	1422	1442
35°	1306	1332	1351	1383	1404
37.5°	1254	1282	1306	1343	1365
40°	1203	1230	1260	1300	1325
42.5°	1148	1177	1212	1258	1283
45°	1090	1123	1162	1214	1240
47.5°	1034	1065	1113	1168	1196
50°	973	1007	1062	1121	1150
52.5°	911	949	1009	1074	1102
55°	847	890	955	1023	1055
57.5°	782	828	901	973	1007
60°	718	764	846	922	954
62.5°	651	703	790	868	903
65°	581	641	733	816	850
67.5°	513	578	675	761	795
70°	443	514	618	705	740
72.5°	375	453	560	650	684
75°	308	390	502	593	628
77.5°	243	331	446	540	573
80°	177	274	393	486	518
82.5°	121	220	342	434	466
85°	72	173	296	387	418
87.5°	37	135	257	345	377
90°	22	110	227	315	346
92.5°	20	95	206	293	322
95°	19	81	187	270	300
97.5°	17	69	170	250	278
100°	16	59	153	228	257
102.5°	16	50	137	208	236
105°	15	42	122	189	214
107.5°	14	34	108	171	196
110°	13	28	96	154	177



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	12	22	84	138	160
115°	11	17	72	123	144
117.5°	11	13	62	109	128
120°	10	11	52	95	113
122.5°	9	10	43	82	99
125°	8	9	34	70	86
127.5°	6	8	26	59	73
130°	5	7	19	48	61
132.5°	5	7	13	39	50
135°	5	6	8	29	40
137.5°	5	5	7	21	30
140°	4	5	6	14	21
142.5°	4	4	6	8	13
145°	4	4	5	7	8
147.5°	4	4	5	6	6
150°	4	3	4	6	6
152.5°	4	3	4	5	5
155°	4	3	4	4	5
157.5°	4	3	3	4	4
160°	4	3	3	3	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)