

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: P601014

Luminaire Tested: 4APVTLD-SL3C3 HI POWER 5000K 120V

Issue Date: 1/31/2023

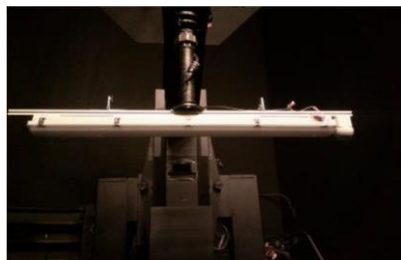
Test Information

Test Method: LM-79-2019
Report Number: P601014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-820-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/31/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4APVTLTD-SL3C3 HI POWER 5000K 120V
Description: HI POWER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

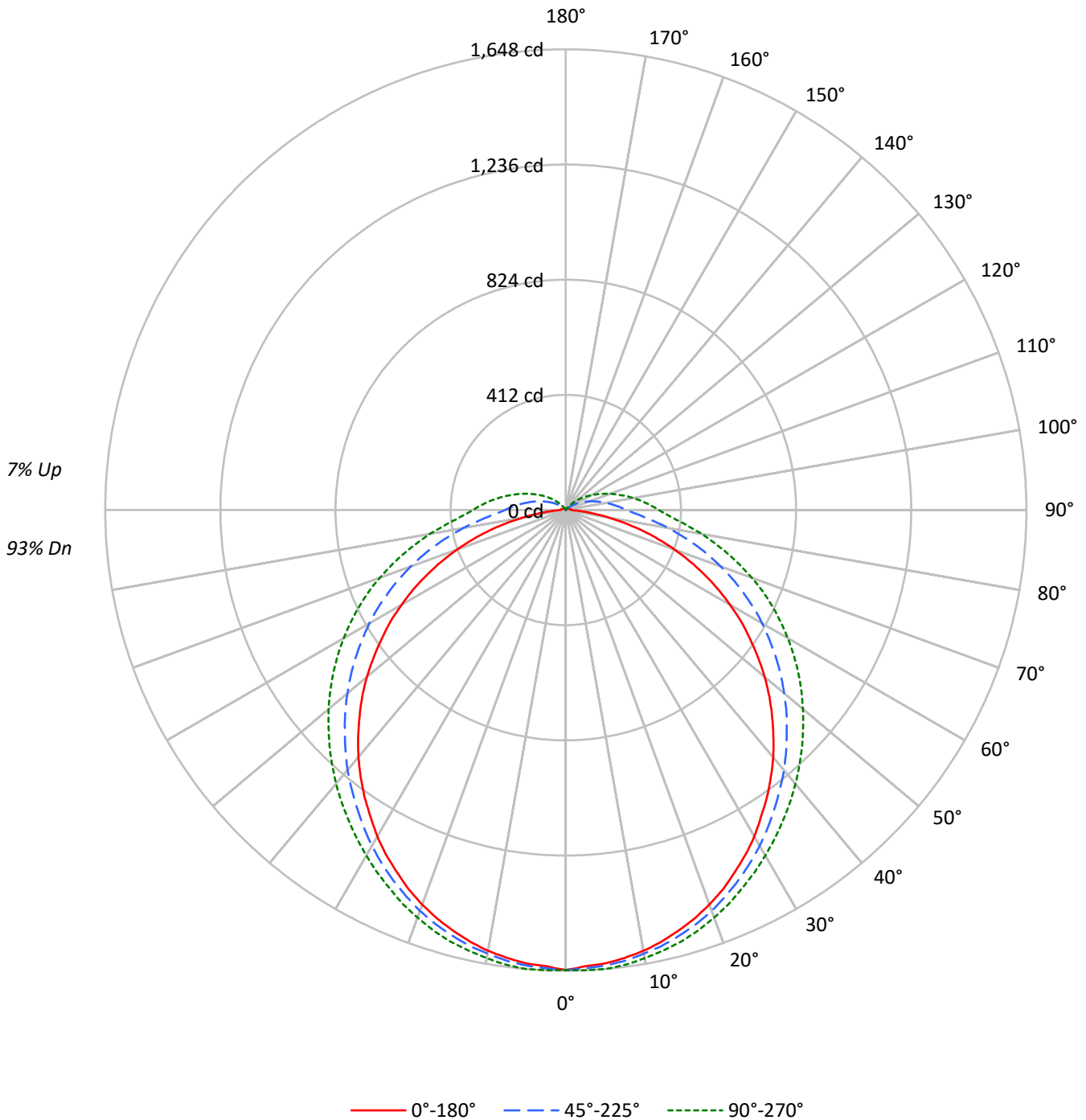
Lumens per Lamp: N/A
Luminaire Lumens: 5667.4 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 47.2
Input Voltage (V): 120
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	93
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	79	72	92	83	77	71	79	73	68	74	70	65	70	66	63	63	63	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	54	61	57	53	53	53	53	50
4	79	66	57	50	76	64	56	49	61	53	48	58	51	46	55	49	45	45	45	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	39	39	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	38	34	34	34	34	32
7	62	48	39	33	60	47	38	32	44	37	31	42	36	31	40	34	30	30	30	30	28
8	57	44	35	29	55	43	34	29	41	33	28	39	32	27	37	31	27	27	27	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	24	24	24	22
10	50	37	29	23	49	36	28	23	35	28	23	33	27	22	32	26	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13286	13286	13286
5°	13170	13034	13068
10°	13078	12779	12783
15°	12947	12523	12518
20°	12806	12253	12218
25°	12611	11952	11907
30°	12424	11643	11628
35°	12188	11317	11364
40°	11957	11026	11137
45°	11673	10714	10921
50°	11384	10429	10719
55°	10999	10140	10536
60°	10573	9845	10338
65°	10024	9496	10136
70°	9236	9119	9900
75°	8141	8711	9664
80°	6494	8299	9506
85°	4564	8113	9514

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11673 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.7	2.7
10°-20°	445.7	7.9
20°-30°	675.0	11.9
30°-40°	817.8	14.4
40°-50°	865.8	15.3
50°-60°	819.1	14.5
60°-70°	686.9	12.1
70°-80°	490.1	8.6
80°-90°	289.2	5.1
90°-100°	183.2	3.2
100°-110°	118.8	2.1
110°-120°	68.7	1.2
120°-130°	33.9	0.6
130°-140°	12.2	0.2
140°-150°	3.3	0.1
150°-160°	1.6	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1276.4	22.5
0°-40°	2094.2	37.0
0°-60°	3779.1	66.7
0°-90°	5245.4	92.6
90°-120°	370.8	6.5
90°-150°	420.3	7.4
90°-180°	422.0	7.4
0°-180°	5667.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1646	1646	1646	1646	1646	
5°	1628	1647	1635	1635	1648	155
15°	1558	1580	1575	1585	1598	440
25°	1430	1454	1462	1477	1493	659
35°	1255	1282	1302	1335	1355	785
45°	1044	1079	1118	1169	1196	805
55°	805	850	918	985	1016	720
65°	548	607	701	783	815	542
75°	281	365	479	569	599	298
85°	61	158	279	367	396	70
90°	21	104	217	303	332	13
95°	18	76	180	260	288	14
105°	14	39	117	181	205	15
115°	11	16	68	117	136	11
125°	7	8	31	65	81	6
135°	4	5	7	26	36	4
145°	4	3	4	6	6	2
155°	3	3	3	4	4	1
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°	1645.7	1645.7	1645.7	1645.7	1645.7
2.5°	1633.3	1654.0	1640.5	1641.5	1647.8
5°	1628.1	1646.7	1635.3	1635.3	1647.8
7.5°	1615.7	1637.4	1626.0	1627.1	1640.5
10°	1601.2	1621.9	1611.5	1615.7	1628.1
12.5°	1581.6	1603.3	1596.0	1600.2	1613.6
15°	1557.8	1579.5	1575.3	1584.7	1598.1
17.5°	1531.9	1553.6	1552.6	1564.0	1576.4
20°	1501.9	1524.7	1525.7	1538.1	1551.6
22.5°	1468.8	1490.5	1494.7	1508.1	1524.7
25°	1429.5	1454.3	1461.6	1477.1	1492.6
27.5°	1391.2	1416.1	1425.4	1447.1	1461.6
30°	1348.8	1372.6	1387.1	1410.9	1427.4
32.5°	1300.2	1328.1	1345.7	1374.7	1392.3
35°	1254.7	1281.6	1302.3	1335.4	1355.0
37.5°	1205.0	1234.0	1258.8	1296.1	1317.8
40°	1154.4	1182.3	1214.4	1254.7	1278.5
42.5°	1099.5	1131.6	1166.8	1213.3	1237.1
45°	1043.7	1078.8	1118.2	1168.8	1195.7
47.5°	987.8	1023.0	1070.6	1124.4	1151.3
50°	928.9	967.1	1019.9	1079.9	1107.8
52.5°	866.8	909.2	969.2	1033.3	1062.3
55°	804.7	850.3	917.5	984.7	1015.8
57.5°	744.7	790.3	863.7	937.1	967.1
60°	678.5	730.3	812.0	885.4	917.5
62.5°	614.4	671.3	758.2	836.8	866.8
65°	548.2	607.2	701.3	783.0	815.1
67.5°	482.0	547.2	646.5	730.3	763.4
70°	413.7	485.1	589.6	676.5	707.5
72.5°	347.5	426.2	533.7	622.7	652.7
75°	281.3	365.1	478.9	568.9	598.9
77.5°	216.2	309.3	424.1	514.1	544.1
80°	156.2	253.4	372.4	462.4	494.4
82.5°	104.5	202.7	322.7	412.7	441.7
85°	61.0	158.3	279.3	367.2	396.2
87.5°	31.0	125.2	243.1	328.9	360.0
90°	20.7	104.5	217.2	303.1	332.0
92.5°	19.7	90.0	198.6	281.3	310.3
95°	17.6	76.5	180.0	259.6	287.6
97.5°	16.5	65.2	162.4	237.9	266.9
100°	15.5	55.9	145.8	217.2	245.1
102.5°	14.5	46.5	131.4	198.6	225.5
105°	14.5	39.3	116.9	181.0	204.8
107.5°	13.4	32.1	103.4	163.4	187.2
110°	12.4	25.9	91.0	146.9	169.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	11.4	19.7	78.6	131.4	152.1
115°	11.4	15.5	68.3	116.9	136.5
117.5°	10.3	11.4	57.9	102.4	121.0
120°	9.3	10.3	48.6	90.0	106.5
122.5°	8.3	9.3	39.3	77.6	93.1
125°	7.2	8.3	31.0	65.2	80.7
127.5°	5.2	7.2	23.8	54.8	68.3
130°	5.2	7.2	16.5	44.5	56.9
132.5°	5.2	6.2	11.4	35.2	45.5
135°	4.1	5.2	7.2	25.9	36.2
137.5°	4.1	5.2	6.2	18.6	26.9
140°	4.1	4.1	6.2	11.4	18.6
142.5°	4.1	4.1	5.2	7.2	10.3
145°	4.1	3.1	4.1	6.2	6.2
147.5°	3.1	3.1	4.1	5.2	6.2
150°	3.1	3.1	4.1	5.2	5.2
152.5°	3.1	3.1	3.1	4.1	5.2
155°	3.1	3.1	3.1	4.1	4.1
157.5°	3.1	3.1	3.1	3.1	4.1
160°	3.1	3.1	3.1	3.1	3.1
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)