

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: P601016

Luminaire Tested: 4APVTLD-SL3C3 HI POWER 5000K 277V

Issue Date: 1/31/2023

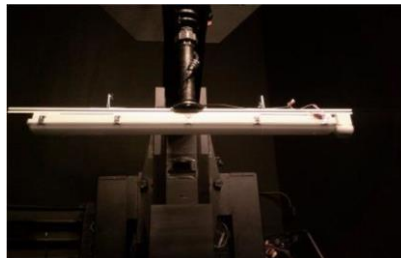
Test Information

Test Method: LM-79-2019
Report Number: P601016
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-820-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/31/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4APVTLTLD-SL3C3 HI POWER 5000K 277V
Description: HI POWER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

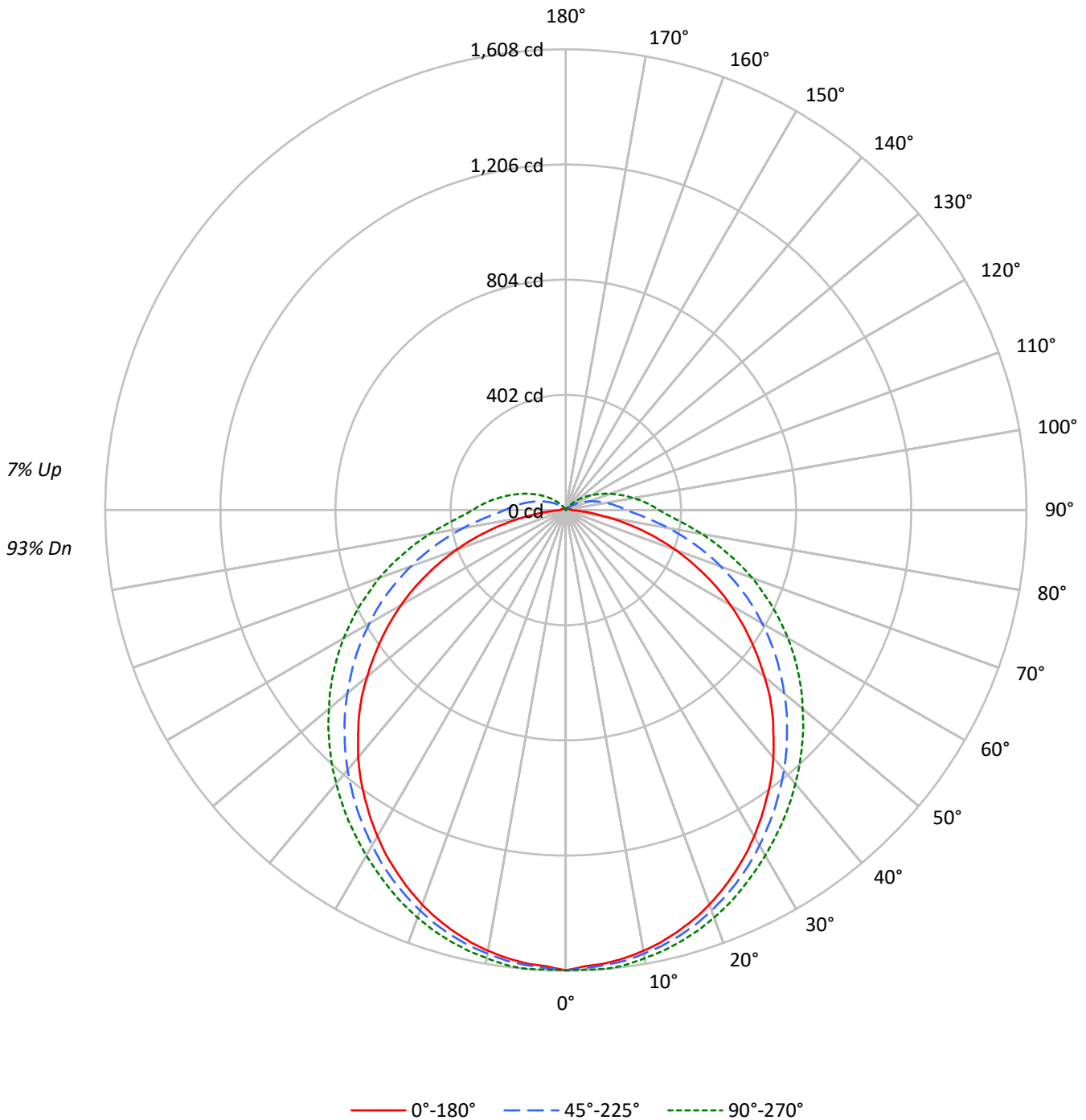
Lumens per Lamp: N/A
Luminaire Lumens: 5530.7 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 46.2
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	79	72	92	83	77	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	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	34	28	23	33	27	22	32	26	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12970	12970	12970
5°	12849	12709	12749
10°	12759	12468	12471
15°	12640	12227	12205
20°	12495	11947	11920
25°	12313	11661	11626
30°	12113	11352	11346
35°	11892	11051	11098
40°	11678	10759	10858
45°	11425	10465	10648
50°	11098	10178	10442
55°	10738	9909	10272
60°	10341	9599	10091
65°	9810	9286	9882
70°	9096	8907	9695
75°	8025	8513	9422
80°	6415	8114	9270
85°	4451	7938	9348

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11425 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.9	2.7
10°-20°	434.9	7.9
20°-30°	658.3	11.9
30°-40°	797.8	14.4
40°-50°	845.0	15.3
50°-60°	799.1	14.4
60°-70°	670.1	12.1
70°-80°	478.9	8.7
80°-90°	282.5	5.1
90°-100°	179.1	3.2
100°-110°	116.0	2.1
110°-120°	67.2	1.2
120°-130°	33.1	0.6
130°-140°	11.9	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°	1245.1	22.5
0°-40°	2042.9	36.9
0°-60°	3687.0	66.7
0°-90°	5118.4	92.5
90°-120°	362.3	6.6
90°-150°	410.6	7.4
90°-180°	412.0	7.4
0°-180°	5530.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1607	1607	1607	1607	1607	
5°	1588	1608	1594	1596	1608	151
15°	1521	1541	1538	1546	1558	429
25°	1396	1419	1426	1441	1457	643
35°	1224	1251	1272	1302	1323	766
45°	1022	1051	1092	1142	1166	787
55°	786	830	897	960	990	703
65°	536	594	686	762	795	531
75°	277	357	468	555	584	294
85°	60	154	273	358	389	69
90°	20	102	213	296	325	12
95°	17	75	176	254	282	14
105°	14	38	114	176	201	15
115°	10	15	67	114	133	10
125°	7	8	30	64	79	6
135°	4	5	7	25	35	3
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°	1606.6	1606.6	1606.6	1606.6	1606.6
2.5°	1593.5	1612.6	1599.5	1600.5	1605.6
5°	1588.4	1607.6	1594.5	1595.5	1607.6
7.5°	1577.3	1596.5	1586.4	1587.4	1601.5
10°	1562.2	1582.4	1572.3	1576.3	1588.4
12.5°	1544.0	1564.2	1557.2	1561.2	1575.3
15°	1520.8	1541.0	1538.0	1546.1	1558.2
17.5°	1495.6	1516.8	1514.8	1525.9	1538.0
20°	1465.4	1485.5	1487.6	1499.7	1513.8
22.5°	1432.1	1454.3	1458.3	1470.4	1487.6
25°	1395.8	1419.0	1426.0	1441.2	1457.3
27.5°	1357.5	1379.7	1390.7	1409.9	1425.0
30°	1315.1	1339.3	1352.4	1375.6	1392.8
32.5°	1270.7	1295.9	1312.1	1340.3	1357.5
35°	1224.3	1250.6	1271.7	1302.0	1323.2
37.5°	1177.9	1202.2	1228.4	1262.7	1285.9
40°	1127.5	1154.8	1185.0	1224.3	1246.5
42.5°	1073.1	1104.3	1139.6	1183.0	1208.2
45°	1021.6	1050.9	1092.2	1141.6	1165.8
47.5°	966.2	998.4	1045.8	1096.3	1124.5
50°	905.6	943.0	995.4	1052.9	1079.1
52.5°	846.1	886.5	946.0	1007.5	1036.8
55°	785.6	830.0	896.6	960.1	990.4
57.5°	726.1	770.5	844.1	912.7	944.0
60°	663.6	711.0	791.7	863.3	895.6
62.5°	602.1	652.5	740.3	813.9	845.1
65°	536.5	594.0	685.8	762.4	794.7
67.5°	473.0	534.5	630.3	711.0	741.3
70°	407.4	474.0	575.9	659.6	692.9
72.5°	341.9	414.5	522.4	607.1	639.4
75°	277.3	357.0	468.0	554.7	583.9
77.5°	213.8	300.5	414.5	501.2	534.5
80°	154.3	247.1	364.1	450.8	482.1
82.5°	102.9	196.7	315.7	401.4	433.7
85°	59.5	154.3	273.3	358.0	389.3
87.5°	30.3	122.0	237.0	321.7	352.0
90°	20.2	101.9	212.8	295.5	324.7
92.5°	18.2	87.7	193.6	274.3	303.6
95°	17.1	74.6	175.5	254.1	282.4
97.5°	16.1	63.5	159.3	233.0	261.2
100°	15.1	54.5	143.2	213.8	239.0
102.5°	15.1	45.4	128.1	194.6	219.9
105°	14.1	38.3	114.0	175.5	200.7
107.5°	13.1	31.3	100.9	159.3	182.5
110°	12.1	25.2	88.7	143.2	165.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	11.1	19.2	76.6	129.1	149.3
115°	10.1	15.1	66.6	114.0	133.1
117.5°	10.1	11.1	56.5	100.9	118.0
120°	9.1	10.1	47.4	87.7	103.9
122.5°	8.1	9.1	38.3	75.6	90.8
125°	7.1	8.1	30.3	64.5	78.7
127.5°	5.0	7.1	23.2	53.5	66.6
130°	5.0	6.1	16.1	43.4	55.5
132.5°	5.0	6.1	11.1	34.3	45.4
135°	4.0	5.0	7.1	25.2	35.3
137.5°	4.0	5.0	6.1	18.2	26.2
140°	4.0	4.0	6.1	11.1	18.2
142.5°	4.0	4.0	5.0	7.1	11.1
145°	4.0	3.0	4.0	6.1	6.1
147.5°	3.0	3.0	4.0	5.0	6.1
150°	3.0	3.0	4.0	5.0	5.0
152.5°	3.0	3.0	3.0	4.0	5.0
155°	3.0	3.0	3.0	4.0	4.0
157.5°	3.0	3.0	3.0	3.0	4.0
160°	3.0	3.0	3.0	3.0	3.0
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)