

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: P601002

Luminaire Tested: 4APVTLD-SL3C3 HI POWER 4000K 120V

Issue Date: 1/31/2023

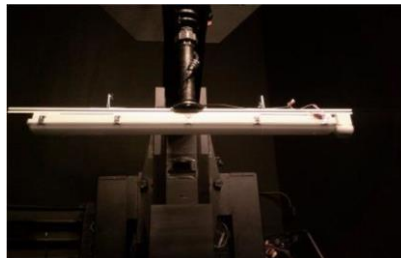
Test Information

Test Method: LM-79-2019
Report Number: P601002
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-820-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/31/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4APVTLTD-SL3C3 HI POWER 4000K 120V
Description: HI POWER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

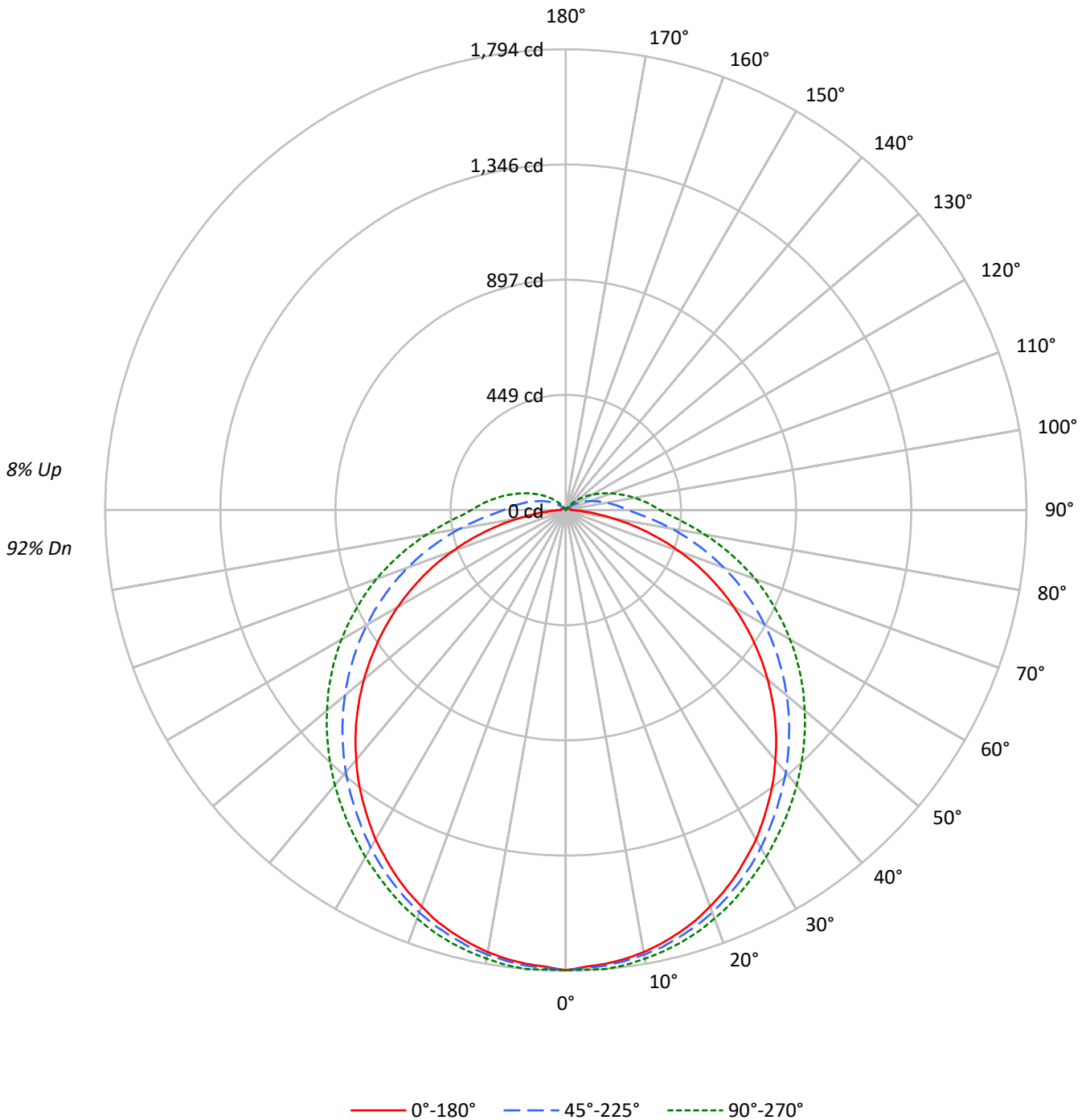
Lumens per Lamp: N/A
Luminaire Lumens: 6254.3 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 45.1
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



TEST NUMBER: P601002
CATALOG NUMBER: 4APVTLD-SL3C3 HI POWER 4000K 120V

Luminous Intensity Polar Plot





TEST NUMBER: P601002

CATALOG NUMBER: 4APVTLTD-SL3C3 HI POWER 4000K 120V

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	44	44	44	44	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	25	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°	14467	14467	14467
5°	14350	14195	14227
10°	14277	13940	13928
15°	14163	13674	13645
20°	14009	13396	13332
25°	13841	13075	13011
30°	13651	12750	12716
35°	13405	12409	12430
40°	13154	12103	12187
45°	12895	11786	11956
50°	12574	11483	11747
55°	12206	11174	11564
60°	11781	10839	11369
65°	11264	10508	11154
70°	10471	10115	10984
75°	9406	9714	10747
80°	7775	9315	10576
85°	5686	9150	10661

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12895 cd/sqm



TEST NUMBER: P601002
 CATALOG NUMBER: 4APVTLD-SL3C3 HI POWER 4000K 120V

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.7	2.7
10°-20°	486.8	7.8
20°-30°	738.6	11.8
30°-40°	896.6	14.3
40°-50°	951.7	15.2
50°-60°	903.3	14.4
60°-70°	760.9	12.2
70°-80°	548.5	8.8
80°-90°	325.9	5.2
90°-100°	203.5	3.3
100°-110°	132.6	2.1
110°-120°	77.4	1.2
120°-130°	38.8	0.6
130°-140°	14.3	0.2
140°-150°	4.0	0.1
150°-160°	1.9	0.0
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	1395.0	22.3
0°-40°	2291.6	36.6
0°-60°	4146.5	66.3
0°-90°	5781.8	92.4
90°-120°	413.4	6.6
90°-150°	470.5	7.5
90°-180°	473.0	7.6
0°-180°	6254.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1792	1792	1792	1792	1792	
5°	1774	1796	1781	1781	1794	169
15°	1704	1726	1720	1730	1742	481
25°	1569	1594	1599	1615	1631	723
35°	1380	1407	1428	1461	1482	863
45°	1153	1186	1230	1283	1309	889
55°	893	941	1011	1084	1115	798
65°	616	678	776	863	897	609
75°	325	413	534	630	666	344
85°	76	184	315	410	444	86
90°	23	117	242	334	367	15
95°	20	86	200	288	319	16
105°	16	44	130	201	229	17
115°	12	18	77	131	153	12
125°	8	10	36	75	91	7
135°	5	6	9	31	42	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



TEST NUMBER: P601002

CATALOG NUMBER: 4APVTLTD-SL3C3 HI POWER 4000K 120V

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1792	1792	1792	1792	1792
2.5°	1780	1801	1785	1788	1791
5°	1774	1796	1781	1781	1794
7.5°	1763	1785	1771	1774	1787
10°	1748	1769	1758	1763	1774
12.5°	1728	1751	1742	1746	1760
15°	1704	1726	1720	1730	1742
17.5°	1677	1699	1696	1708	1720
20°	1643	1667	1668	1679	1693
22.5°	1608	1632	1635	1648	1665
25°	1569	1594	1599	1615	1631
27.5°	1525	1551	1561	1582	1596
30°	1482	1505	1519	1544	1561
32.5°	1431	1458	1474	1504	1521
35°	1380	1407	1428	1461	1482
37.5°	1327	1355	1381	1418	1441
40°	1270	1301	1333	1375	1399
42.5°	1213	1245	1282	1329	1355
45°	1153	1186	1230	1283	1309
47.5°	1090	1128	1178	1235	1263
50°	1026	1067	1123	1186	1214
52.5°	960	1004	1068	1135	1166
55°	893	941	1011	1084	1115
57.5°	825	876	954	1031	1063
60°	756	810	894	976	1009
62.5°	686	745	836	920	954
65°	616	678	776	863	897
67.5°	545	612	716	806	842
70°	469	544	654	748	785
72.5°	398	480	594	689	725
75°	325	413	534	630	666
77.5°	255	351	476	572	607
80°	187	291	418	515	550
82.5°	127	235	364	461	495
85°	76	184	315	410	444
87.5°	39	144	273	366	400
90°	23	117	242	334	367
92.5°	21	101	219	310	342
95°	20	86	200	288	319
97.5°	18	74	181	265	295
100°	17	63	163	243	273
102.5°	16	53	146	221	251
105°	16	44	130	201	229
107.5°	15	37	115	182	208
110°	14	30	102	164	189



TEST NUMBER: P601002

CATALOG NUMBER: 4APVTLTD-SL3C3 HI POWER 4000K 120V

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	13	23	89	147	170
115°	12	18	77	131	153
117.5°	11	14	66	115	136
120°	11	12	55	101	120
122.5°	10	11	45	87	105
125°	8	10	36	75	91
127.5°	6	9	28	63	78
130°	6	8	20	51	65
132.5°	5	7	14	41	53
135°	5	6	9	31	42
137.5°	5	6	7	22	32
140°	4	5	7	14	22
142.5°	4	5	6	8	14
145°	4	4	5	7	8
147.5°	4	4	5	7	7
150°	4	3	5	6	6
152.5°	4	3	4	5	6
155°	4	3	4	5	5
157.5°	4	3	4	4	5
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)