

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: P600990

Luminaire Tested: 4APVTLD-SL3C3 HI POWER 3500K 120V

Issue Date: 1/31/2023

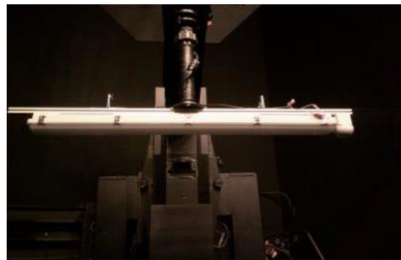
**Test Information**

Test Method: LM-79-2019  
Report Number: P600990  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-820-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/31/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4APVTLTD-SL3C3 HI POWER 3500K 120V  
Description: HI POWER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

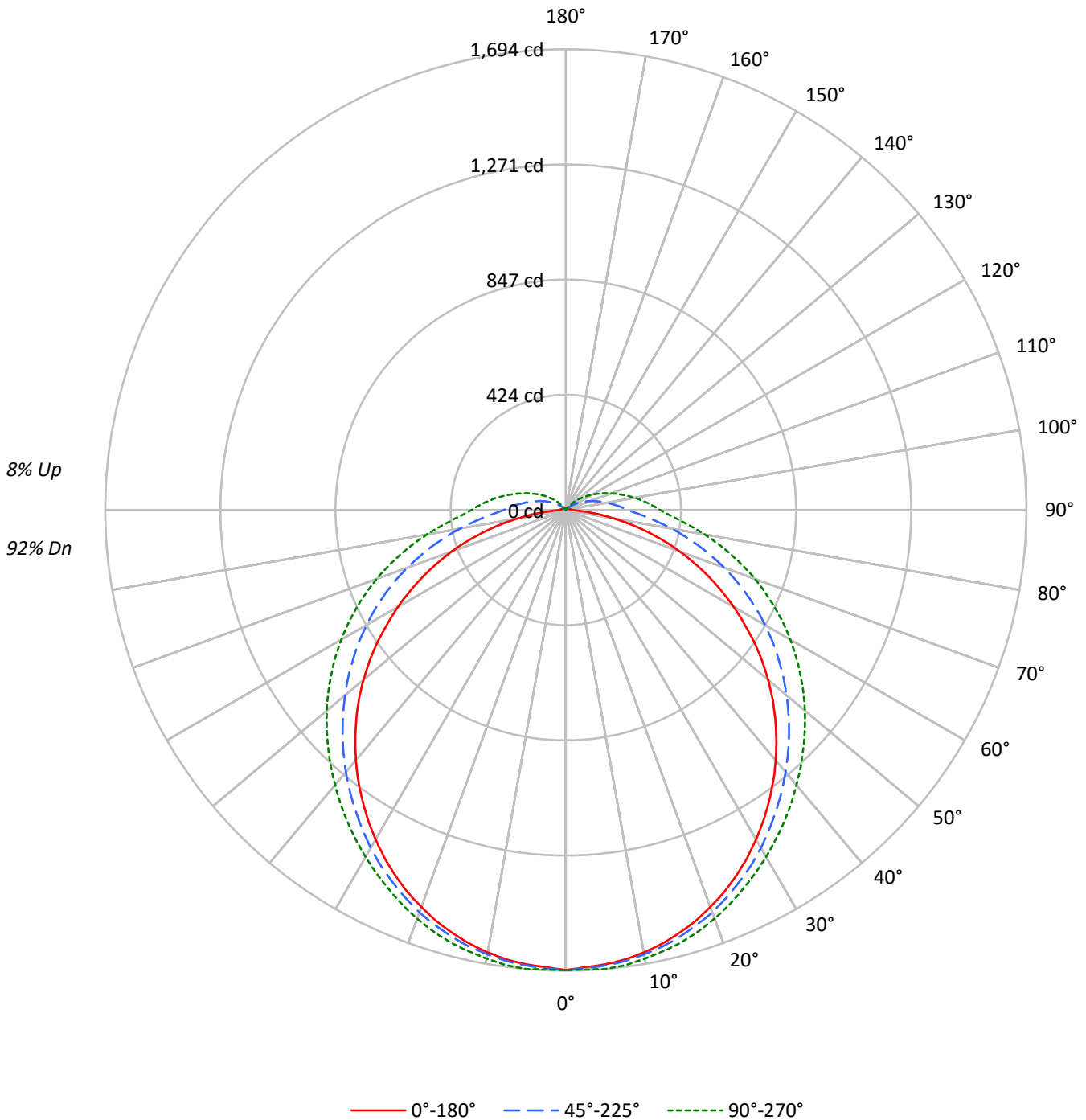
Lumens per Lamp: N/A  
Luminaire Lumens: 5906.4 lumens  
Efficiency: N/A  
Efficacy: 127.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 46.4  
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	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°	13659	13659	13659
5°	13565	13398	13434
10°	13493	13155	13151
15°	13381	12910	12885
20°	13241	12641	12591
25°	13083	12339	12277
30°	12886	12045	11999
35°	12666	11723	11742
40°	12439	11422	11499
45°	12190	11125	11289
50°	11900	10839	11108
55°	11550	10555	10921
60°	11127	10257	10738
65°	10624	9953	10545
70°	9957	9589	10355
75°	9001	9186	10134
80°	7484	8803	9960
85°	5611	8627	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°	160.3	2.7
10°-20°	459.6	7.8
20°-30°	697.4	11.8
30°-40°	846.7	14.3
40°-50°	898.6	15.2
50°-60°	853.2	14.4
60°-70°	719.2	12.2
70°-80°	518.7	8.8
80°-90°	308.0	5.2
90°-100°	192.3	3.3
100°-110°	125.2	2.1
110°-120°	73.0	1.2
120°-130°	36.6	0.6
130°-140°	13.4	0.2
140°-150°	3.8	0.1
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1317.3	22.3
0°-40°	2164.1	36.6
0°-60°	3915.9	66.3
0°-90°	5461.8	92.5
90°-120°	390.5	6.6
90°-150°	444.3	7.5
90°-180°	445.0	7.5
0°-180°	5906.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1692	1692	1692	1692	1692	
5°	1677	1696	1681	1683	1694	159
15°	1610	1630	1624	1633	1645	454
25°	1483	1505	1509	1525	1539	683
35°	1304	1330	1349	1380	1400	816
45°	1090	1121	1161	1210	1236	841
55°	845	890	955	1022	1053	754
65°	581	642	735	816	848	574
75°	311	392	505	595	628	329
85°	75	174	297	387	418	84
90°	23	111	228	315	346	15
95°	19	82	189	271	301	15
105°	15	42	123	190	216	15
115°	11	17	73	123	144	11
125°	7	9	35	70	86	7
135°	5	6	8	29	40	4
145°	4	4	5	7	8	3
155°	0	0	0	0	0	0
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°	1692	1692	1692	1692	1692
2.5°	1682	1701	1686	1689	1691
5°	1677	1696	1681	1683	1694
7.5°	1667	1686	1673	1675	1688
10°	1652	1672	1659	1664	1675
12.5°	1634	1653	1644	1649	1661
15°	1610	1630	1624	1633	1645
17.5°	1585	1605	1600	1613	1624
20°	1553	1574	1574	1585	1599
22.5°	1521	1542	1543	1556	1571
25°	1483	1505	1509	1525	1539
27.5°	1443	1465	1474	1493	1507
30°	1399	1422	1435	1457	1473
32.5°	1353	1377	1392	1420	1437
35°	1304	1330	1349	1380	1400
37.5°	1254	1279	1304	1339	1361
40°	1201	1228	1258	1297	1320
42.5°	1146	1176	1210	1255	1279
45°	1090	1121	1161	1210	1236
47.5°	1032	1067	1111	1165	1192
50°	971	1008	1060	1118	1148
52.5°	909	951	1008	1071	1101
55°	845	890	955	1022	1053
57.5°	777	829	902	972	1004
60°	714	767	846	920	953
62.5°	646	705	791	868	902
65°	581	642	735	816	848
67.5°	513	579	678	760	794
70°	446	516	620	705	740
72.5°	379	453	562	652	684
75°	311	392	505	595	628
77.5°	244	332	449	540	573
80°	180	275	395	485	518
82.5°	124	222	344	434	466
85°	75	174	297	387	418
87.5°	40	136	259	345	378
90°	23	111	228	315	346
92.5°	20	95	208	293	324
95°	19	82	189	271	301
97.5°	17	70	171	251	279
100°	16	59	154	229	258
102.5°	15	50	138	209	236
105°	15	42	123	190	216
107.5°	14	35	109	172	196
110°	13	28	96	155	178



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	12	22	84	139	161
115°	11	17	73	123	144
117.5°	11	13	62	109	129
120°	10	11	52	95	114
122.5°	9	10	43	82	100
125°	7	9	35	70	86
127.5°	6	8	27	59	74
130°	5	7	19	48	62
132.5°	5	7	13	38	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	3	5	6	6
150°	4	3	4	6	6
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
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)