

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: P601000

Luminaire Tested: 4APVTLD-SL3C3 MID POWER 4000K 277V

Issue Date: 1/31/2023

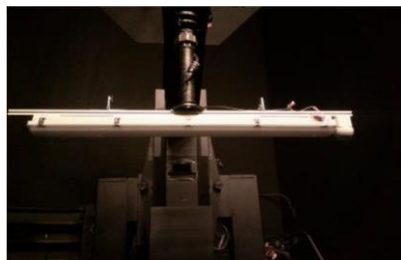
**Test Information**

Test Method: LM-79-2019  
Report Number: P601000  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-820-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/31/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4APVTLTLD-SL3C3 MID POWER 4000K 277V  
Description: MID POWER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

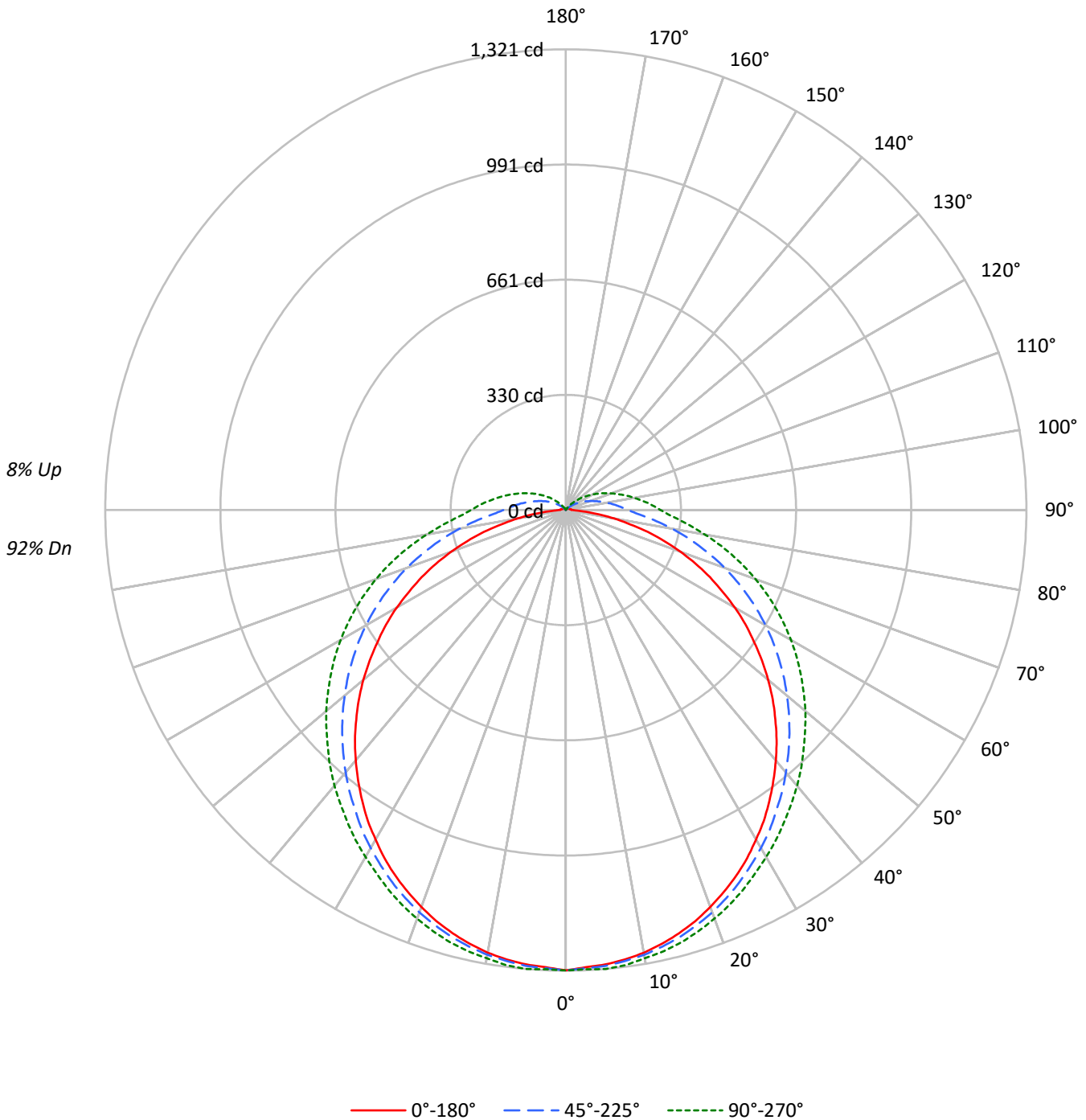
Lumens per Lamp: N/A  
Luminaire Lumens: 4614.4 lumens  
Efficiency: N/A  
Efficacy: 145.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 31.8  
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	78	76	76	76	76	74
2	95	86	78	72	91	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	46	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	34	44	38	34	34	34	34	31
7	62	48	39	32	59	46	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	24
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°	10656	10656	10656
5°	10580	10457	10476
10°	10528	10269	10246
15°	10439	10072	10050
20°	10325	9862	9820
25°	10207	9633	9589
30°	10049	9393	9360
35°	9888	9142	9159
40°	9705	8916	8990
45°	9506	8691	8814
50°	9289	8467	8680
55°	9007	8245	8536
60°	8727	8026	8405
65°	8338	7773	8257
70°	7814	7501	8102
75°	7033	7185	7939
80°	5862	6909	7787
85°	4339	6710	7852

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9506 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.0	2.7
10°-20°	358.6	7.8
20°-30°	544.1	11.8
30°-40°	661.0	14.3
40°-50°	701.9	15.2
50°-60°	666.7	14.4
60°-70°	562.3	12.2
70°-80°	405.6	8.8
80°-90°	240.5	5.2
90°-100°	149.8	3.2
100°-110°	97.6	2.1
110°-120°	57.3	1.2
120°-130°	28.7	0.6
130°-140°	10.7	0.2
140°-150°	3.0	0.1
150°-160°	1.4	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
<b>0°-30°</b>	<b>1027.7</b>	<b>22.3</b>
<b>0°-40°</b>	<b>1688.7</b>	<b>36.6</b>
<b>0°-60°</b>	<b>3057.4</b>	<b>66.3</b>
<b>0°-90°</b>	<b>4265.7</b>	<b>92.4</b>
<b>90°-120°</b>	<b>304.7</b>	<b>6.6</b>
<b>90°-150°</b>	<b>347.1</b>	<b>7.5</b>
<b>90°-180°</b>	<b>349.0</b>	<b>7.6</b>
<b>0°-180°</b>	<b>4614.4</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1320	1320	1320	1320	1320	
5°	1308	1323	1312	1313	1321	124
15°	1256	1272	1267	1275	1283	354
25°	1157	1174	1178	1190	1202	533
35°	1018	1038	1052	1077	1092	637
45°	850	876	907	946	965	656
55°	659	695	746	799	823	590
65°	456	501	574	637	664	450
75°	243	306	395	465	492	257
85°	58	136	231	302	327	65
90°	18	87	178	247	271	11
95°	15	64	147	210	235	12
105°	11	33	96	148	168	12
115°	9	13	57	97	113	9
125°	6	7	27	55	67	5
135°	4	5	7	23	31	3
145°	3	3	4	5	6	2
155°	3	2	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°	1320	1320	1320	1320	1320
2.5°	1312	1327	1315	1317	1318
5°	1308	1323	1312	1313	1321
7.5°	1300	1315	1304	1307	1316
10°	1289	1304	1295	1299	1305
12.5°	1274	1289	1282	1287	1296
15°	1256	1272	1267	1275	1283
17.5°	1236	1252	1248	1259	1266
20°	1211	1228	1228	1238	1247
22.5°	1185	1202	1204	1214	1226
25°	1157	1174	1178	1190	1202
27.5°	1126	1143	1149	1165	1175
30°	1091	1110	1119	1137	1149
32.5°	1057	1075	1088	1108	1122
35°	1018	1038	1052	1077	1092
37.5°	978	999	1019	1045	1062
40°	937	959	982	1014	1032
42.5°	895	918	945	981	1000
45°	850	876	907	946	965
47.5°	805	832	868	911	931
50°	758	788	828	874	897
52.5°	709	741	788	837	860
55°	659	695	746	799	823
57.5°	611	647	705	760	785
60°	560	599	662	719	746
62.5°	506	550	618	679	705
65°	456	501	574	637	664
67.5°	403	452	529	595	622
70°	350	403	485	552	579
72.5°	296	353	440	510	536
75°	243	306	395	465	492
77.5°	189	259	352	423	448
80°	141	213	310	380	405
82.5°	96	172	270	340	365
85°	58	136	231	302	327
87.5°	31	106	200	270	295
90°	18	87	178	247	271
92.5°	16	75	162	227	253
95°	15	64	147	210	235
97.5°	14	55	134	194	216
100°	13	46	120	178	200
102.5°	12	39	108	163	184
105°	11	33	96	148	168
107.5°	11	27	85	134	153
110°	10	22	75	121	139



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	10	17	66	109	126
115°	9	13	57	97	113
117.5°	8	10	49	86	101
120°	8	9	41	75	89
122.5°	7	8	34	65	78
125°	6	7	27	55	67
127.5°	5	6	21	46	58
130°	4	6	15	38	48
132.5°	4	5	10	30	39
135°	4	5	7	23	31
137.5°	4	4	6	17	24
140°	4	4	5	11	17
142.5°	3	3	4	6	11
145°	3	3	4	5	6
147.5°	3	3	4	5	5
150°	3	3	3	4	5
152.5°	3	2	3	4	4
155°	3	2	3	4	4
157.5°	3	2	3	3	4
160°	3	2	3	3	3
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)