

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: P600986

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

Issue Date: 1/31/2023

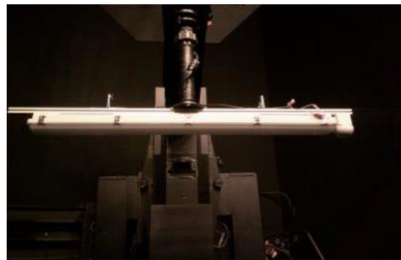
**Test Information**

Test Method: LM-79-2019  
Report Number: P600986  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-820-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/31/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4APVTLTLD-SL3C3 MID POWER 3500K 120V  
Description: MID POWER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

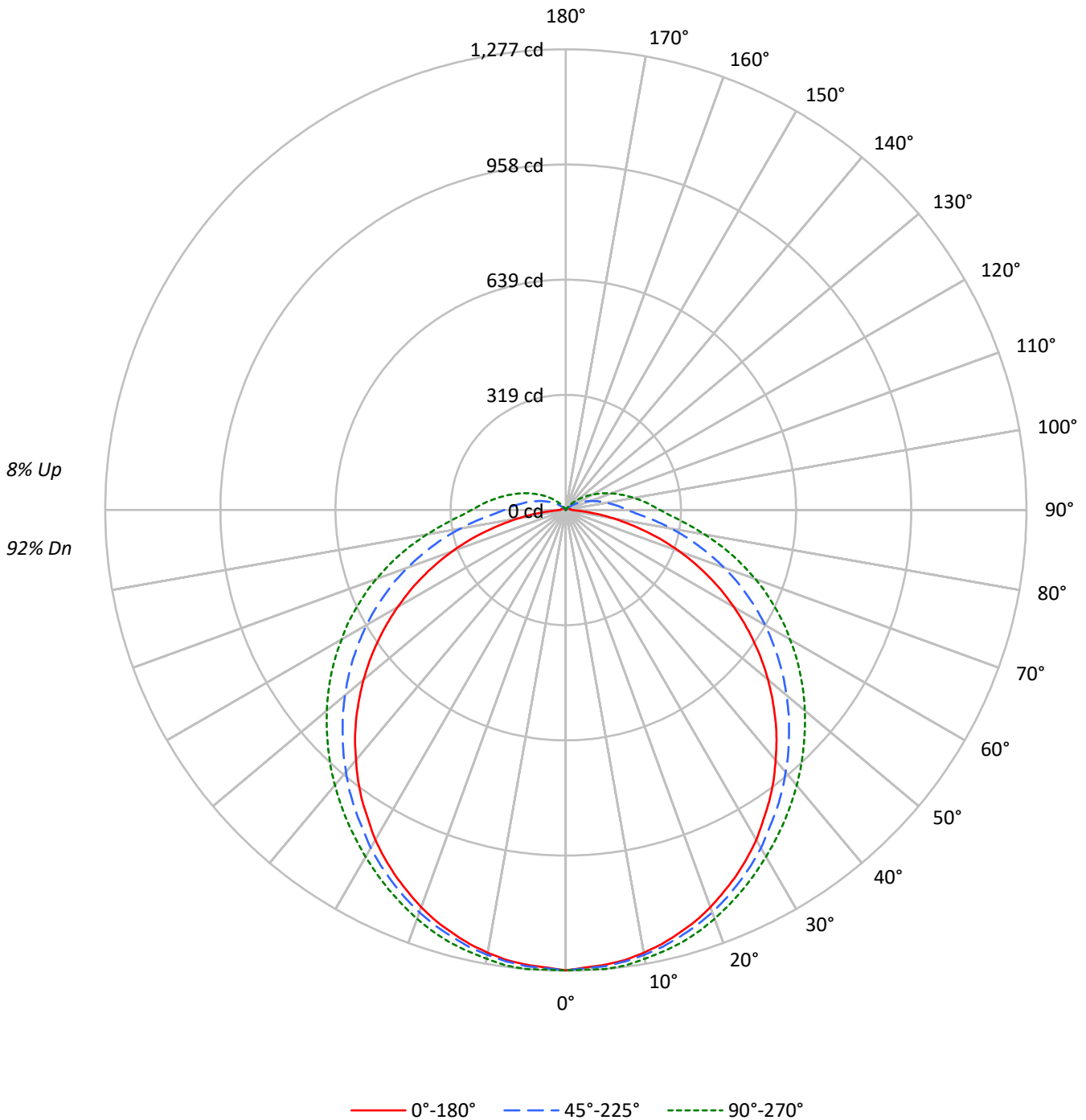
Lumens per Lamp: N/A  
Luminaire Lumens: 4452.2 lumens  
Efficiency: N/A  
Efficacy: 137.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 32.4  
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	45	45	45	45	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	26	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°	10301	10301	10301
5°	10233	10114	10127
10°	10177	9928	9916
15°	10090	9731	9721
20°	9993	9533	9497
25°	9863	9306	9262
30°	9727	9082	9042
35°	9558	8838	8848
40°	9373	8607	8676
45°	9193	8384	8512
50°	8971	8170	8370
55°	8707	7957	8235
60°	8384	7735	8090
65°	8009	7488	7959
70°	7479	7223	7822
75°	6685	6912	7665
80°	5613	6619	7518
85°	4189	6448	7588

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9193 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.9	2.7
10°-20°	346.7	7.8
20°-30°	525.9	11.8
30°-40°	638.5	14.3
40°-50°	677.7	15.2
50°-60°	643.6	14.5
60°-70°	542.3	12.2
70°-80°	390.5	8.8
80°-90°	231.7	5.2
90°-100°	144.1	3.2
100°-110°	94.2	2.1
110°-120°	55.0	1.2
120°-130°	27.7	0.6
130°-140°	10.3	0.2
140°-150°	2.9	0.1
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	993.5	22.3
0°-40°	1632.0	36.7
0°-60°	2953.3	66.3
0°-90°	4117.8	92.5
90°-120°	293.3	6.6
90°-150°	334.2	7.5
90°-180°	334.0	7.5
0°-180°	4452.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1276	1276	1276	1276	1276	
5°	1265	1280	1269	1270	1277	120
15°	1214	1229	1224	1232	1241	343
25°	1118	1135	1138	1150	1161	515
35°	984	1003	1017	1040	1055	615
45°	822	845	875	914	932	634
55°	637	671	720	772	794	569
65°	438	483	553	614	640	433
75°	231	295	380	449	475	245
85°	56	131	222	292	316	63
90°	17	84	171	237	261	11
95°	14	62	142	202	226	11
105°	11	32	93	143	162	12
115°	9	13	55	93	109	9
125°	6	7	26	53	65	5
135°	4	5	6	22	30	3
145°	3	3	4	5	6	2
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



TEST NUMBER: P600986

CATALOG NUMBER: 4APVTLTD-SL3C3 MID POWER 3500K 120V

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1276	1276	1276	1276	1276
2.5°	1269	1283	1271	1274	1275
5°	1265	1280	1269	1270	1277
7.5°	1258	1272	1262	1264	1273
10°	1246	1261	1252	1255	1263
12.5°	1232	1247	1240	1244	1253
15°	1214	1229	1224	1232	1241
17.5°	1195	1211	1207	1216	1225
20°	1172	1188	1187	1196	1206
22.5°	1145	1162	1164	1173	1184
25°	1118	1135	1138	1150	1161
27.5°	1088	1104	1111	1126	1136
30°	1056	1073	1082	1099	1110
32.5°	1019	1038	1048	1071	1083
35°	984	1003	1017	1040	1055
37.5°	946	966	984	1011	1026
40°	905	926	948	979	996
42.5°	865	887	913	948	965
45°	822	845	875	914	932
47.5°	777	803	838	878	899
50°	732	761	799	845	865
52.5°	685	716	760	809	830
55°	637	671	720	772	794
57.5°	588	625	679	734	757
60°	538	578	638	695	718
62.5°	489	531	596	656	681
65°	438	483	553	614	640
67.5°	387	436	511	574	601
70°	335	388	467	533	559
72.5°	284	341	423	491	517
75°	231	295	380	449	475
77.5°	180	249	338	407	433
80°	135	205	297	367	391
82.5°	93	166	259	328	352
85°	56	131	222	292	316
87.5°	29	103	192	261	285
90°	17	84	171	237	261
92.5°	15	72	156	219	242
95°	14	62	142	202	226
97.5°	13	53	128	187	208
100°	12	45	116	171	192
102.5°	12	38	104	157	177
105°	11	32	93	143	162
107.5°	10	26	82	129	148
110°	10	21	73	116	134



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	9	17	63	104	121
115°	9	13	55	93	109
117.5°	8	10	47	82	97
120°	8	8	39	72	85
122.5°	7	8	33	62	75
125°	6	7	26	53	65
127.5°	5	6	20	44	55
130°	4	6	15	37	47
132.5°	4	5	10	29	38
135°	4	5	6	22	30
137.5°	4	4	5	16	23
140°	4	4	5	10	16
142.5°	3	3	4	6	10
145°	3	3	4	5	6
147.5°	3	3	4	5	5
150°	3	2	3	4	5
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)