

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: P600988

Luminaire Tested: 4APVTLD-SL3C3 MID POWER 3500K 277V

Issue Date: 1/31/2023

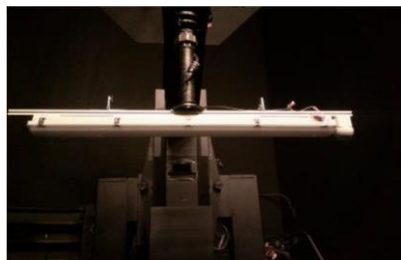
Test Information

Test Method: LM-79-2019
Report Number: P600988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-820-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/31/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4APVTLTLD-SL3C3 MID POWER 3500K 277V
Description: MID POWER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

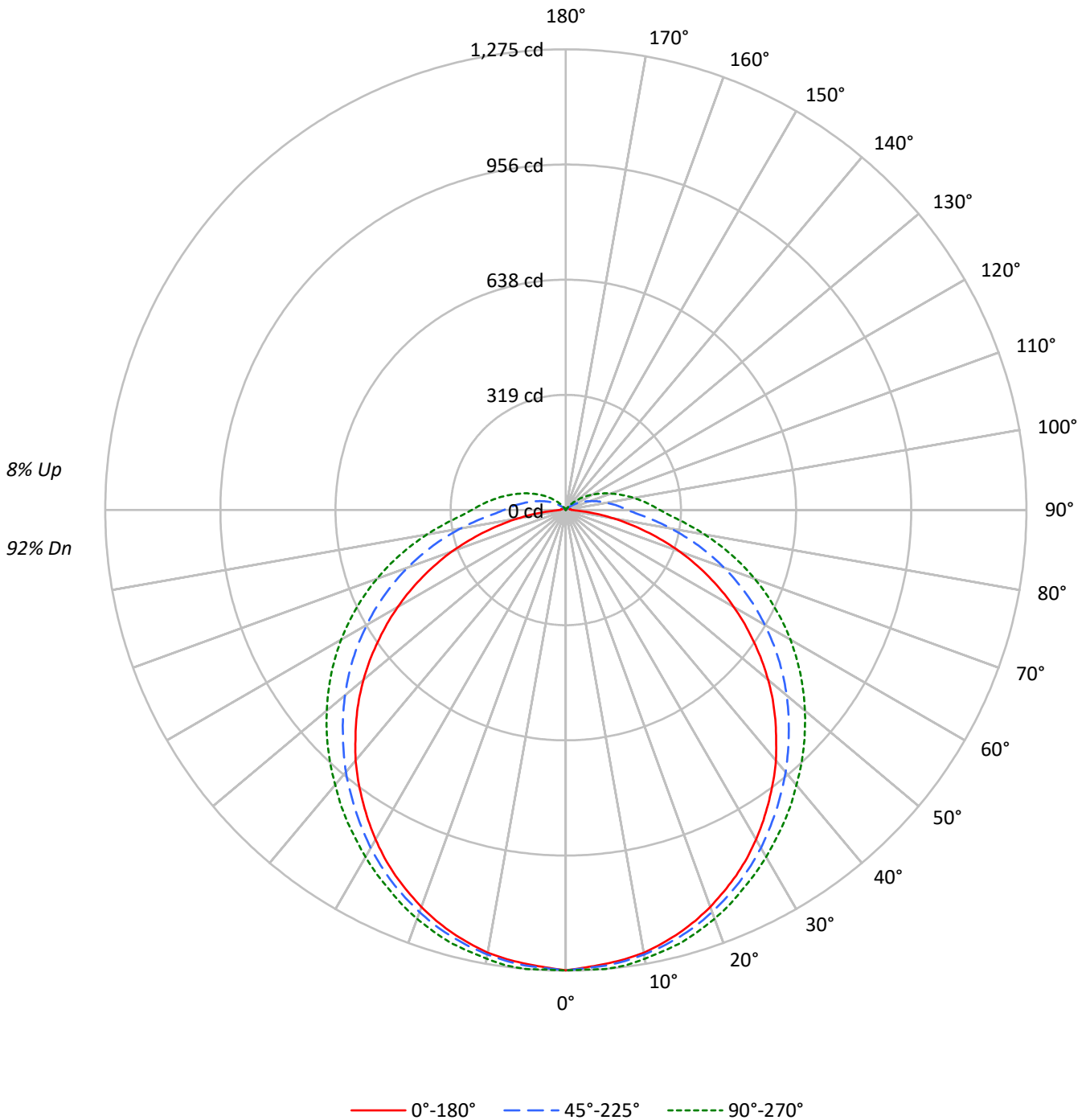
Lumens per Lamp: N/A
Luminaire Lumens: 4443.3 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 32.5
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	92
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	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°	10285	10285	10285
5°	10200	10090	10111
10°	10160	9904	9901
15°	10073	9715	9705
20°	9967	9509	9481
25°	9845	9298	9238
30°	9699	9065	9034
35°	9529	8820	8840
40°	9373	8598	8650
45°	9171	8365	8503
50°	8958	8160	8360
55°	8679	7946	8225
60°	8368	7711	8090
65°	7991	7475	7934
70°	7479	7207	7780
75°	6656	6912	7632
80°	5613	6597	7499
85°	4189	6448	7540

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9171 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.6	2.7
10°-20°	345.9	7.8
20°-30°	524.8	11.8
30°-40°	637.4	14.3
40°-50°	676.3	15.2
50°-60°	642.4	14.5
60°-70°	541.1	12.2
70°-80°	389.9	8.8
80°-90°	231.1	5.2
90°-100°	143.8	3.2
100°-110°	93.9	2.1
110°-120°	55.0	1.2
120°-130°	27.6	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°	991.4	22.3
0°-40°	1628.7	36.7
0°-60°	2947.4	66.3
0°-90°	4109.5	92.5
90°-120°	292.7	6.6
90°-150°	333.5	7.5
90°-180°	334.0	7.5
0°-180°	4443.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1274	1274	1274	1274	1274	
5°	1261	1276	1266	1267	1275	120
15°	1212	1227	1222	1229	1239	342
25°	1116	1133	1137	1147	1158	514
35°	981	1000	1015	1038	1054	614
45°	820	843	873	911	931	633
55°	635	670	719	769	793	568
65°	437	483	552	613	638	432
75°	230	296	380	447	473	245
85°	56	131	222	291	314	63
90°	17	84	171	236	260	11
95°	14	62	142	202	225	11
105°	11	31	92	143	161	12
115°	9	13	55	93	108	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

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1274	1274	1274	1274	1274
2.5°	1267	1281	1269	1271	1273
5°	1261	1276	1266	1267	1275
7.5°	1254	1269	1259	1261	1271
10°	1244	1258	1249	1252	1261
12.5°	1229	1244	1237	1241	1250
15°	1212	1227	1222	1229	1239
17.5°	1192	1207	1205	1214	1222
20°	1169	1185	1184	1194	1204
22.5°	1143	1159	1161	1170	1183
25°	1116	1133	1137	1147	1158
27.5°	1086	1102	1109	1123	1135
30°	1053	1070	1080	1096	1109
32.5°	1018	1037	1048	1069	1081
35°	981	1000	1015	1038	1054
37.5°	944	963	981	1009	1025
40°	905	925	947	978	993
42.5°	862	885	910	945	963
45°	820	843	873	911	931
47.5°	777	801	836	878	898
50°	731	759	798	843	864
52.5°	684	714	759	807	829
55°	635	670	719	769	793
57.5°	587	625	678	733	756
60°	537	577	636	693	718
62.5°	488	531	595	653	679
65°	437	483	552	613	638
67.5°	386	437	509	572	598
70°	335	389	466	531	556
72.5°	282	342	422	490	515
75°	230	296	380	447	473
77.5°	182	250	337	406	431
80°	135	205	296	365	390
82.5°	93	166	258	326	351
85°	56	131	222	291	314
87.5°	29	103	192	260	284
90°	17	84	171	236	260
92.5°	15	72	156	218	242
95°	14	62	142	202	225
97.5°	13	52	128	187	207
100°	12	44	115	172	192
102.5°	12	38	104	157	176
105°	11	31	92	143	161
107.5°	10	26	82	129	147
110°	10	21	72	116	133



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9	17	63	105	121
115°	9	13	55	93	108
117.5°	8	10	47	82	96
120°	8	8	39	72	85
122.5°	7	8	32	62	75
125°	6	7	26	53	65
127.5°	5	6	20	45	55
130°	4	6	15	37	46
132.5°	4	5	10	29	38
135°	4	5	6	22	30
137.5°	4	4	5	16	22
140°	4	4	5	11	16
142.5°	3	3	4	6	10
145°	3	3	4	5	6
147.5°	3	3	4	5	5
150°	3	3	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)