

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: P601019

Luminaire Tested: 4APVTLD-SL3C3 MID POWER 5000K 277V

Issue Date: 3/21/2023

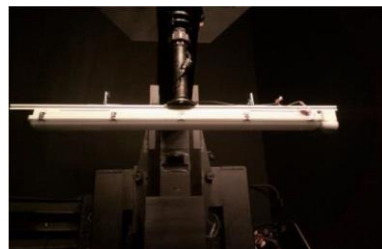
Test Information

Test Method: LM-79-2019
Report Number: P601019
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-820-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/21/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4APVTLD-SL3C3 MID POWER 5000K 277V
Description: MID POWER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

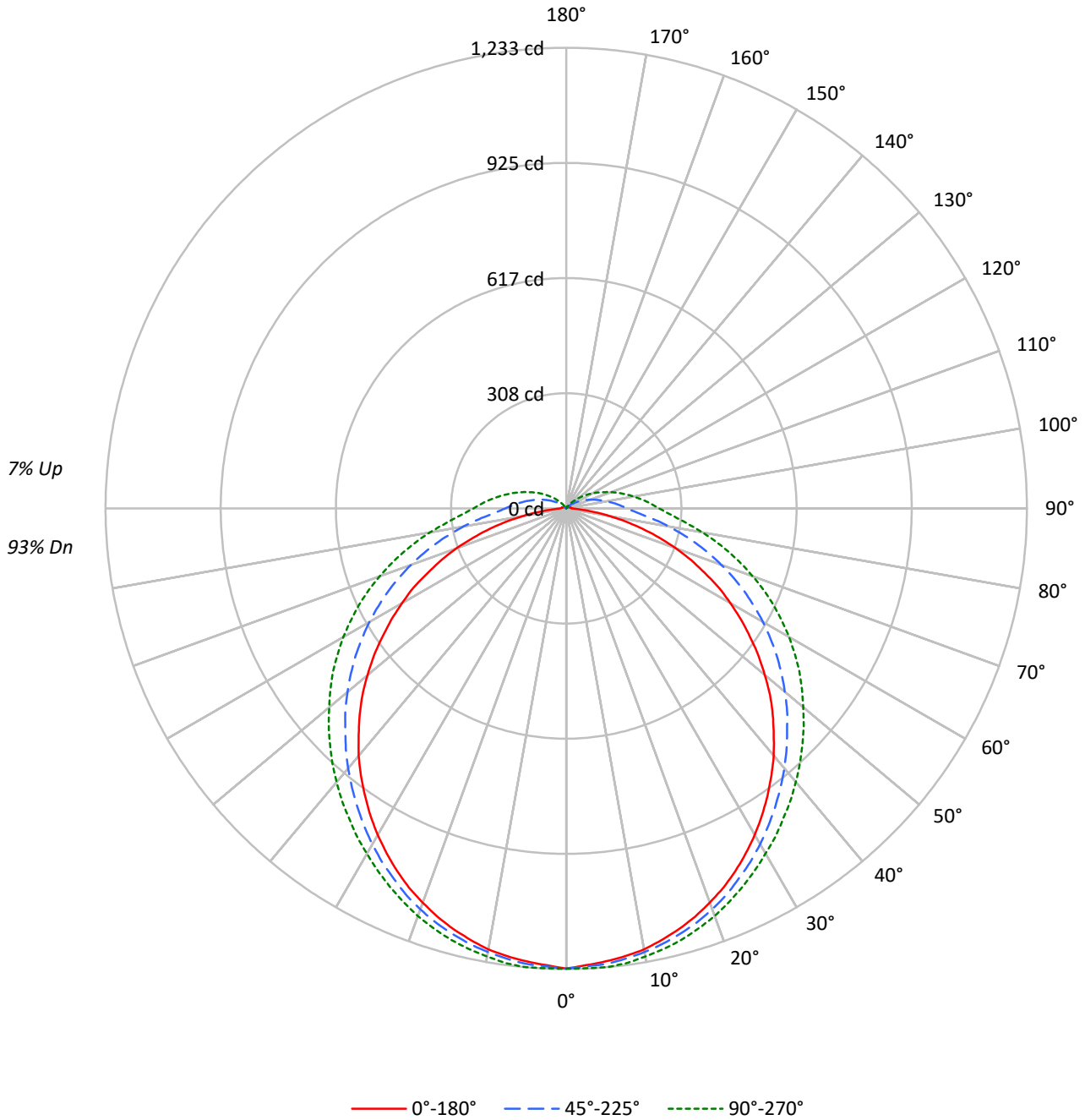
Lumens per Lamp: N/A
Luminaire Lumens: 4241.7 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 33.3
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



TEST NUMBER: P601019
CATALOG NUMBER: 4APVTLD-SL3C3 MID POWER 5000K 277V

Luminous Intensity Polar Plot





TEST NUMBER: P601019
 CATALOG NUMBER: 4APVTLT-SL3C3 MID POWER 5000K 277V

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	0
RCR																		
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	79	76	74
2	95	86	79	72	92	83	77	71	79	73	68	74	69	65	70	66	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	54	61	57	53	50
4	79	66	57	50	76	64	56	49	61	53	48	58	51	46	55	49	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	38	34	32
7	62	48	39	33	60	47	38	32	44	37	31	42	36	31	40	34	30	28
8	57	44	35	29	55	43	34	29	41	33	28	39	32	27	37	31	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22
10	50	37	29	23	49	36	28	23	34	28	23	33	27	22	32	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9946	9946	9946
5°	9844	9756	9778
10°	9793	9563	9563
15°	9691	9373	9360
20°	9575	9172	9142
25°	9448	8938	8911
30°	9294	8713	8692
35°	9121	8473	8496
40°	8949	8244	8328
45°	8746	8010	8165
50°	8505	7812	8012
55°	8215	7604	7903
60°	7901	7372	7763
65°	7479	7123	7610
70°	6966	6836	7430
75°	6107	6530	7261
80°	4906	6218	7114
85°	3367	6013	7156

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8746 cd/sqm



TEST NUMBER: P601019
 CATALOG NUMBER: 4APVTLD-SL3C3 MID POWER 5000K 277V

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.5	2.7
10°-20°	333.5	7.9
20°-30°	504.9	11.9
30°-40°	611.8	14.4
40°-50°	647.9	15.3
50°-60°	613.4	14.5
60°-70°	514.5	12.1
70°-80°	367.0	8.7
80°-90°	216.3	5.1
90°-100°	136.8	3.2
100°-110°	88.8	2.1
110°-120°	51.6	1.2
120°-130°	25.6	0.6
130°-140°	9.2	0.2
140°-150°	2.5	0.1
150°-160°	1.3	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	954.9	22.5
0°-40°	1566.7	36.9
0°-60°	2828.0	66.7
0°-90°	3925.8	92.6
90°-120°	277.2	6.5
90°-150°	314.6	7.4
90°-180°	316.0	7.4
0°-180°	4241.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1232	1232	1232	1232	1232	
5°	1217	1233	1224	1223	1233	116
15°	1166	1182	1179	1185	1195	329
25°	1071	1088	1093	1105	1117	493
35°	939	959	975	999	1013	588
45°	782	807	836	874	894	603
55°	601	637	688	737	762	538
65°	409	456	526	587	612	406
75°	211	273	359	425	450	224
85°	45	119	207	275	298	53
90°	15	78	163	226	248	9
95°	13	57	135	193	215	10
105°	10	29	87	135	154	11
115°	8	11	51	88	102	8
125°	5	6	23	50	60	5
135°	3	4	5	20	27	3
145°	3	3	3	5	5	2
155°	3	2	2	3	3	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P601019
 CATALOG NUMBER: 4APVTLD-SL3C3 MID POWER 5000K 277V

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1232	1232	1232	1232	1232
2.5°	1224	1237	1227	1228	1232
5°	1217	1233	1224	1223	1233
7.5°	1209	1225	1216	1218	1228
10°	1199	1213	1206	1209	1218
12.5°	1183	1199	1194	1197	1208
15°	1166	1182	1179	1185	1195
17.5°	1146	1162	1162	1170	1179
20°	1123	1140	1142	1151	1161
22.5°	1099	1116	1120	1127	1140
25°	1071	1088	1093	1105	1117
27.5°	1041	1058	1067	1081	1093
30°	1009	1028	1038	1055	1067
32.5°	975	994	1007	1027	1042
35°	939	959	975	999	1013
37.5°	902	923	942	969	986
40°	864	885	908	938	956
42.5°	822	847	873	908	926
45°	782	807	836	874	894
47.5°	740	766	802	842	862
50°	694	724	764	807	828
52.5°	649	681	726	774	795
55°	601	637	688	737	762
57.5°	555	592	648	701	725
60°	507	547	608	664	689
62.5°	462	501	567	626	650
65°	409	456	526	587	612
67.5°	362	409	484	546	572
70°	312	363	442	506	531
72.5°	261	318	400	465	491
75°	211	273	359	425	450
77.5°	163	230	318	385	410
80°	118	188	279	345	370
82.5°	78	152	242	309	331
85°	45	119	207	275	298
87.5°	23	94	181	246	270
90°	15	78	163	226	248
92.5°	14	67	148	209	231
95°	13	57	135	193	215
97.5°	12	49	122	178	198
100°	12	42	110	163	183
102.5°	11	35	98	149	168
105°	10	29	87	135	154
107.5°	10	24	77	122	140
110°	9	19	68	110	127



TEST NUMBER: P601019
 CATALOG NUMBER: 4APVTLD-SL3C3 MID POWER 5000K 277V

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9	15	59	99	114
115°	8	11	51	88	102
117.5°	8	9	43	78	91
120°	7	8	36	68	80
122.5°	6	7	30	58	70
125°	5	6	23	50	60
127.5°	4	6	18	42	51
130°	4	5	13	34	43
132.5°	4	5	8	27	34
135°	3	4	5	20	27
137.5°	3	4	5	14	20
140°	3	3	4	9	14
142.5°	3	3	4	5	8
145°	3	3	3	5	5
147.5°	3	2	3	4	5
150°	3	2	3	4	4
152.5°	3	2	3	4	4
155°	3	2	2	3	3
157.5°	2	2	2	3	3
160°	3	2	2	2	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)