

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P861200

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

Issue Date: 3/21/2023

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P861200
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 (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 4APVTLTD-SL3C3 MID POWER 5000K 277V
Description: MID POWER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

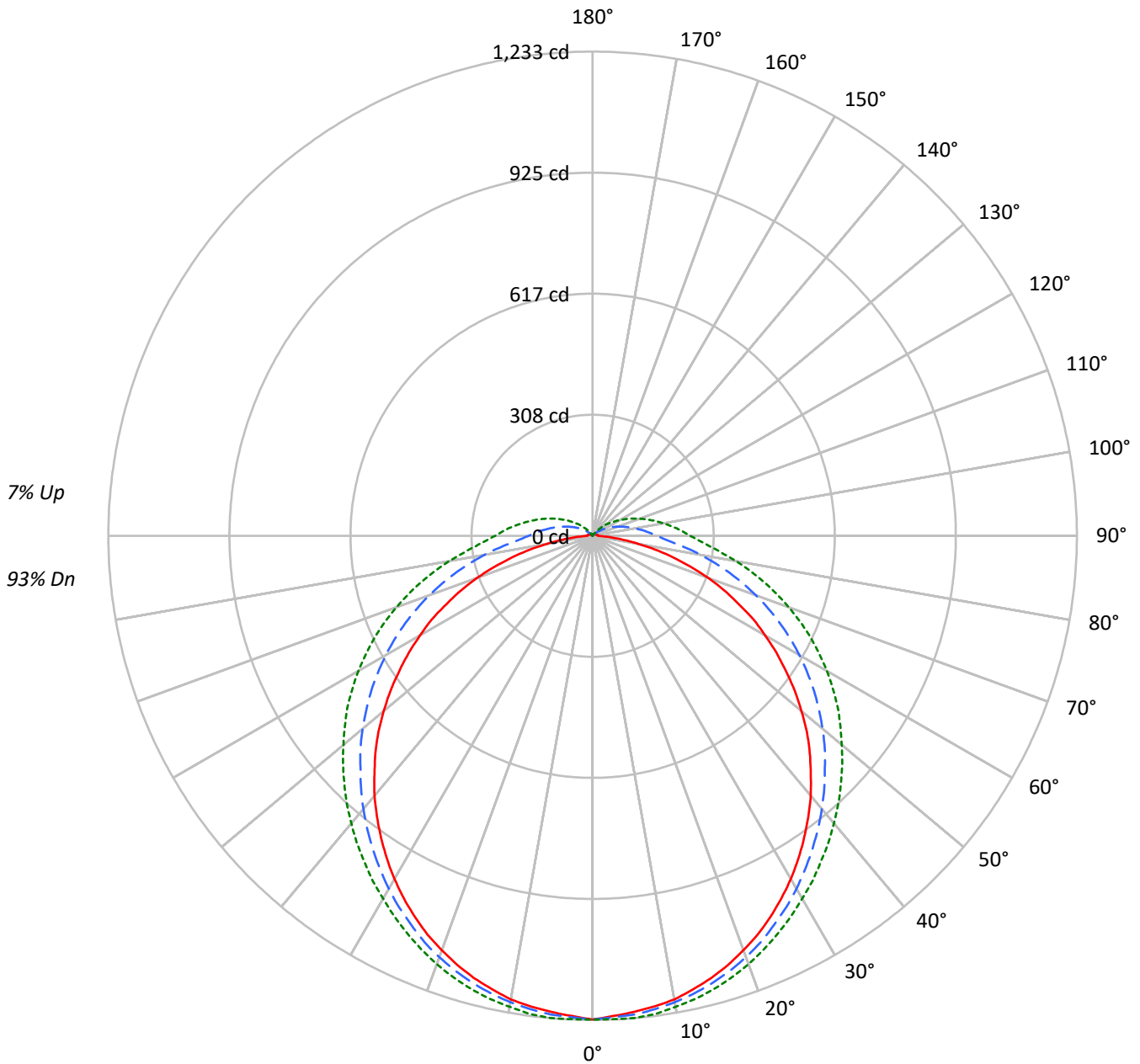
Lumens per Lamp: N/A
Luminaire Lumens: 4241.7 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 33.3
Input Voltage (V): 277
Input Current (A_{in}): 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: 25 FT

TEST NUMBER: P861200

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

Luminous Intensity Polar Plot





TEST NUMBER: P861200

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	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



TEST NUMBER: P861200

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	



TEST NUMBER: P861200

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



TEST NUMBER: P861200

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



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	10	24	77	122	140
110°	9	19	68	110	127



(END OF REPORT)