

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: P861196

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

Issue Date: 1/31/2023

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: P861196
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 (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 4APVTLTD-SL3C3 MID POWER 3500K 277V
Description: MID POWER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

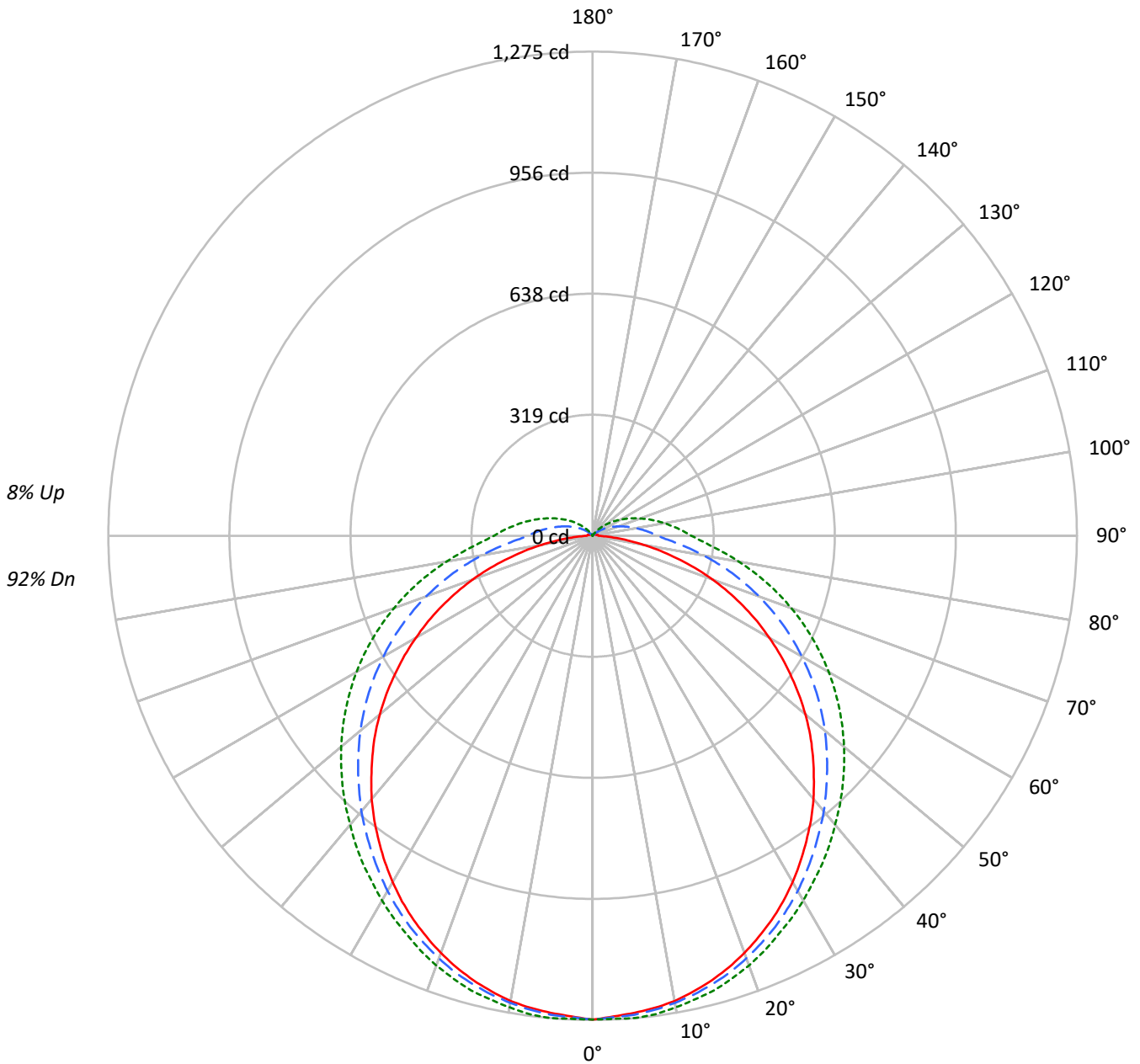
Lumens per Lamp: N/A
Luminaire Lumens: 4443.3 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 32.5
Input Voltage (V): 277
Input Current (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

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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



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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	



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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



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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



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	10	26	82	129	147
110°	10	21	72	116	133



(END OF REPORT)