

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: P861198

Luminaire Tested: **4APVTLD-SL3C3 MID POWER 4000K 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: P861198  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-820-12)  
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 4000K 277V  
Description: MID POWER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No.   Condition   Description

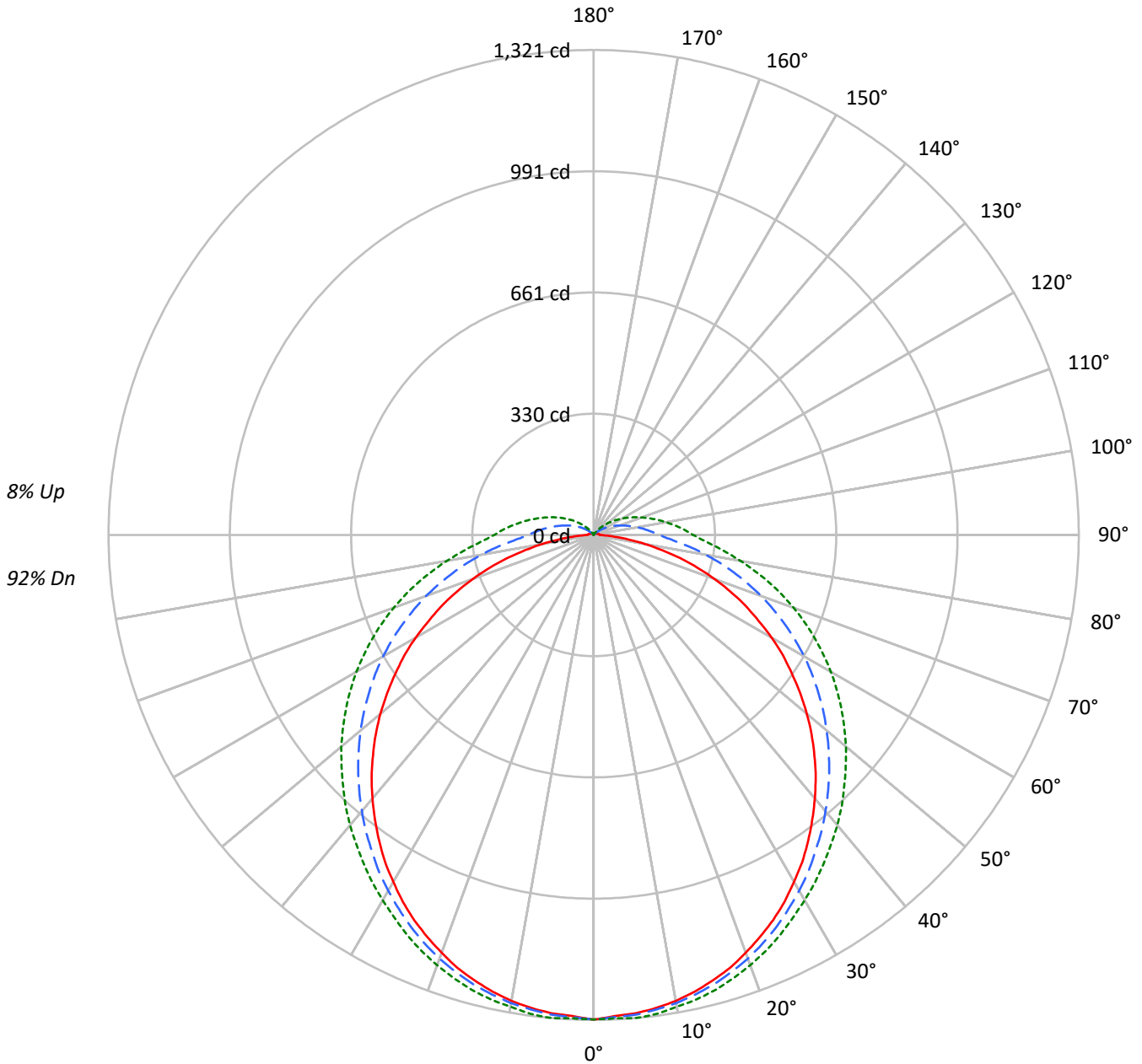
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4614.4 lumens  
Efficiency: N/A  
Efficacy: 145.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')  
CIE Type: Direct  
  
Input Watts (W): 31.8  
Input Voltage (V): 277  
Input Current (A<sub>in</sub>): 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									
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	92																			
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	78	76	74																			
2	95	86	78	72	91	83	76	71	78	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	56	52	50																			
4	79	66	57	50	76	64	56	49	61	53	47	57	51	46	54	49	44	42																			
5	72	59	49	42	69	57	48	42	54	46	41	51	45	40	49	43	38	36																			
6	67	53	43	37	64	51	43	36	49	41	35	46	40	34	44	38	34	31																			
7	62	48	39	32	59	46	38	32	44	37	31	42	35	30	40	34	30	28																			
8	57	43	35	29	55	42	34	28	40	33	28	39	32	27	37	31	27	24																			
9	53	40	31	26	52	39	31	25	37	30	25	36	29	24	34	28	24	22																			
10	50	37	29	23	48	36	28	23	34	27	23	33	27	22	32	26	22	20																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	10656	10656	10656
5°	10580	10457	10476
10°	10528	10269	10246
15°	10439	10072	10050
20°	10325	9862	9820
25°	10207	9633	9589
30°	10049	9393	9360
35°	9888	9142	9159
40°	9705	8916	8990
45°	9506	8691	8814
50°	9289	8467	8680
55°	9007	8245	8536
60°	8727	8026	8405
65°	8338	7773	8257
70°	7814	7501	8102
75°	7033	7185	7939
80°	5862	6909	7787
85°	4339	6710	7852



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.0	2.7
10°-20°	358.6	7.8
20°-30°	544.1	11.8
30°-40°	661.0	14.3
40°-50°	701.9	15.2
50°-60°	666.7	14.4
60°-70°	562.3	12.2
70°-80°	405.6	8.8
80°-90°	240.5	5.2
90°-100°	149.8	3.2
100°-110°	97.6	2.1
110°-120°	57.3	1.2
120°-130°	28.7	0.6
130°-140°	10.7	0.2
140°-150°	3.0	0.1
150°-160°	1.4	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1027.7	22.3
0°-40°	1688.7	36.6
0°-60°	3057.4	66.3
0°-90°	4265.7	92.4
90°-120°	304.7	6.6
90°-150°	347.1	7.5
90°-180°	349.0	7.6
0°-180°	4614.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1320	1320	1320	1320	1320	
5°	1308	1323	1312	1313	1321	124
15°	1256	1272	1267	1275	1283	354
25°	1157	1174	1178	1190	1202	533
35°	1018	1038	1052	1077	1092	637
45°	850	876	907	946	965	656
55°	659	695	746	799	823	590
65°	456	501	574	637	664	450
75°	243	306	395	465	492	257
85°	58	136	231	302	327	65
90°	18	87	178	247	271	11
95°	15	64	147	210	235	12
105°	11	33	96	148	168	12
115°	9	13	57	97	113	9
125°	6	7	27	55	67	5
135°	4	5	7	23	31	3
145°	3	3	4	5	6	2
155°	3	2	3	4	4	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: 4APVTL-D-SL3C3 MID POWER 4000K 277V

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1320	1320	1320	1320	1320
2.5°	1312	1327	1315	1317	1318
5°	1308	1323	1312	1313	1321
7.5°	1300	1315	1304	1307	1316
10°	1289	1304	1295	1299	1305
12.5°	1274	1289	1282	1287	1296
15°	1256	1272	1267	1275	1283
17.5°	1236	1252	1248	1259	1266
20°	1211	1228	1228	1238	1247
22.5°	1185	1202	1204	1214	1226
25°	1157	1174	1178	1190	1202
27.5°	1126	1143	1149	1165	1175
30°	1091	1110	1119	1137	1149
32.5°	1057	1075	1088	1108	1122
35°	1018	1038	1052	1077	1092
37.5°	978	999	1019	1045	1062
40°	937	959	982	1014	1032
42.5°	895	918	945	981	1000
45°	850	876	907	946	965
47.5°	805	832	868	911	931
50°	758	788	828	874	897
52.5°	709	741	788	837	860
55°	659	695	746	799	823
57.5°	611	647	705	760	785
60°	560	599	662	719	746
62.5°	506	550	618	679	705
65°	456	501	574	637	664
67.5°	403	452	529	595	622
70°	350	403	485	552	579
72.5°	296	353	440	510	536
75°	243	306	395	465	492
77.5°	189	259	352	423	448
80°	141	213	310	380	405
82.5°	96	172	270	340	365
85°	58	136	231	302	327
87.5°	31	106	200	270	295
90°	18	87	178	247	271
92.5°	16	75	162	227	253
95°	15	64	147	210	235
97.5°	14	55	134	194	216
100°	13	46	120	178	200
102.5°	12	39	108	163	184
105°	11	33	96	148	168



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	10	17	66	109	126
115°	9	13	57	97	113
117.5°	8	10	49	86	101
120°	8	9	41	75	89
122.5°	7	8	34	65	78
125°	6	7	27	55	67
127.5°	5	6	21	46	58
130°	4	6	15	38	48
132.5°	4	5	10	30	39
135°	4	5	7	23	31
137.5°	4	4	6	17	24
140°	4	4	5	11	17
142.5°	3	3	4	6	11
145°	3	3	4	5	6
147.5°	3	3	4	5	5
150°	3	3	3	4	5
152.5°	3	2	3	4	4
155°	3	2	3	4	4
157.5°	3	2	3	3	4
160°	3	2	3	3	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°	11	27	85	134	153
110°	10	22	75	121	139



(END OF REPORT)