

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: P861195

Luminaire Tested: **4APVTLD-SL3C3 MID POWER 3500K 120V**

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: P861195  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-820-5)  
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 120V  
Description: MID POWER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No.   Condition   Description

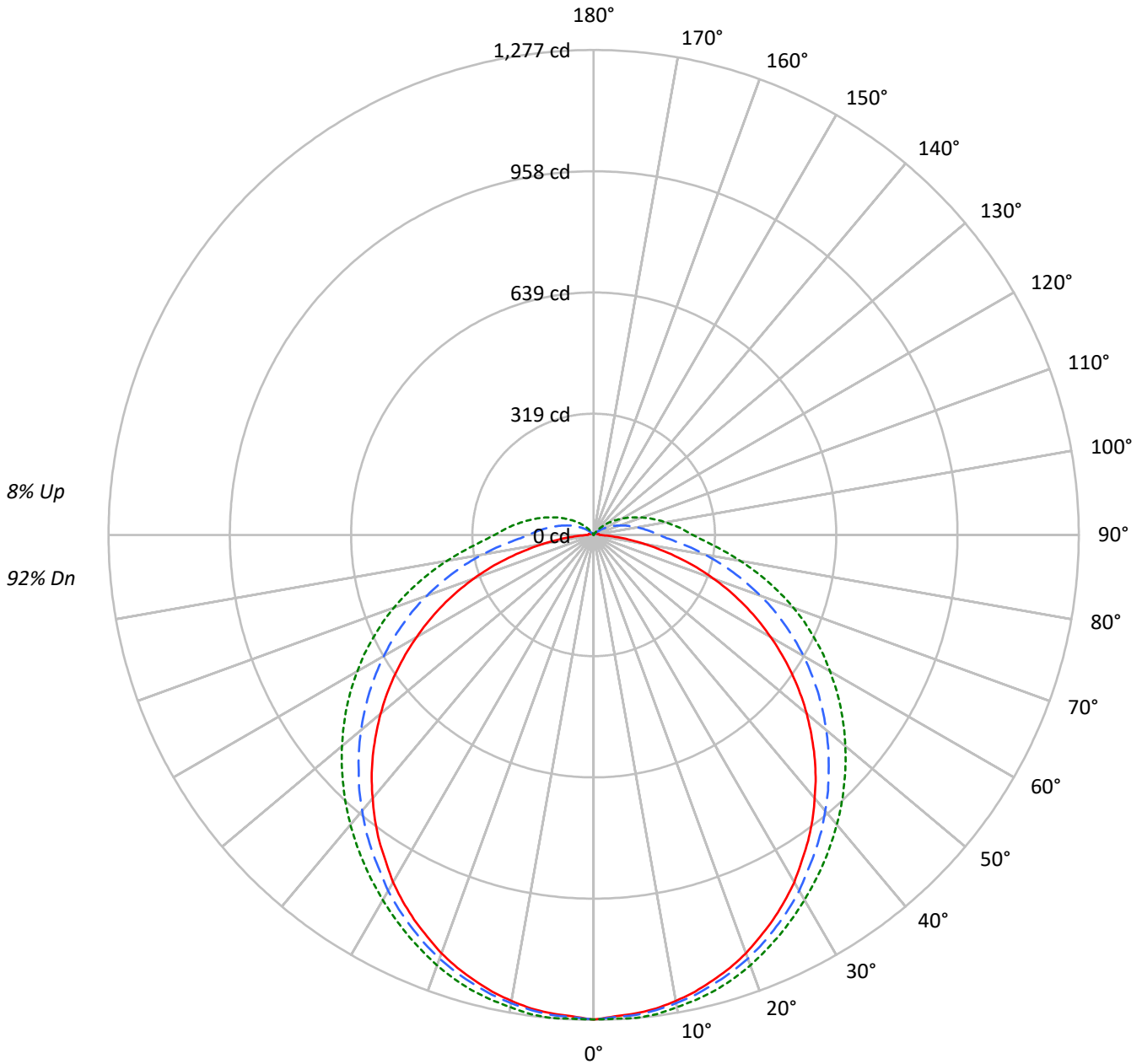
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4452.2 lumens  
Efficiency: N/A  
Efficacy: 137.4 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): 32.4  
Input Voltage (V): 120  
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				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	26	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°	10301	10301	10301
5°	10233	10114	10127
10°	10177	9928	9916
15°	10090	9731	9721
20°	9993	9533	9497
25°	9863	9306	9262
30°	9727	9082	9042
35°	9558	8838	8848
40°	9373	8607	8676
45°	9193	8384	8512
50°	8971	8170	8370
55°	8707	7957	8235
60°	8384	7735	8090
65°	8009	7488	7959
70°	7479	7223	7822
75°	6685	6912	7665
80°	5613	6619	7518
85°	4189	6448	7588



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.9	2.7
10°-20°	346.7	7.8
20°-30°	525.9	11.8
30°-40°	638.5	14.3
40°-50°	677.7	15.2
50°-60°	643.6	14.5
60°-70°	542.3	12.2
70°-80°	390.5	8.8
80°-90°	231.7	5.2
90°-100°	144.1	3.2
100°-110°	94.2	2.1
110°-120°	55.0	1.2
120°-130°	27.7	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°	993.5	22.3
0°-40°	1632.0	36.7
0°-60°	2953.3	66.3
0°-90°	4117.8	92.5
90°-120°	293.3	6.6
90°-150°	334.2	7.5
90°-180°	334.0	7.5
0°-180°	4452.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1276	1276	1276	1276	1276	
5°	1265	1280	1269	1270	1277	120
15°	1214	1229	1224	1232	1241	343
25°	1118	1135	1138	1150	1161	515
35°	984	1003	1017	1040	1055	615
45°	822	845	875	914	932	634
55°	637	671	720	772	794	569
65°	438	483	553	614	640	433
75°	231	295	380	449	475	245
85°	56	131	222	292	316	63
90°	17	84	171	237	261	11
95°	14	62	142	202	226	11
105°	11	32	93	143	162	12
115°	9	13	55	93	109	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°	1276	1276	1276	1276	1276
2.5°	1269	1283	1271	1274	1275
5°	1265	1280	1269	1270	1277
7.5°	1258	1272	1262	1264	1273
10°	1246	1261	1252	1255	1263
12.5°	1232	1247	1240	1244	1253
15°	1214	1229	1224	1232	1241
17.5°	1195	1211	1207	1216	1225
20°	1172	1188	1187	1196	1206
22.5°	1145	1162	1164	1173	1184
25°	1118	1135	1138	1150	1161
27.5°	1088	1104	1111	1126	1136
30°	1056	1073	1082	1099	1110
32.5°	1019	1038	1048	1071	1083
35°	984	1003	1017	1040	1055
37.5°	946	966	984	1011	1026
40°	905	926	948	979	996
42.5°	865	887	913	948	965
45°	822	845	875	914	932
47.5°	777	803	838	878	899
50°	732	761	799	845	865
52.5°	685	716	760	809	830
55°	637	671	720	772	794
57.5°	588	625	679	734	757
60°	538	578	638	695	718
62.5°	489	531	596	656	681
65°	438	483	553	614	640
67.5°	387	436	511	574	601
70°	335	388	467	533	559
72.5°	284	341	423	491	517
75°	231	295	380	449	475
77.5°	180	249	338	407	433
80°	135	205	297	367	391
82.5°	93	166	259	328	352
85°	56	131	222	292	316
87.5°	29	103	192	261	285
90°	17	84	171	237	261
92.5°	15	72	156	219	242
95°	14	62	142	202	226
97.5°	13	53	128	187	208
100°	12	45	116	171	192
102.5°	12	38	104	157	177
105°	11	32	93	143	162



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	9	17	63	104	121
115°	9	13	55	93	109
117.5°	8	10	47	82	97
120°	8	8	39	72	85
122.5°	7	8	33	62	75
125°	6	7	26	53	65
127.5°	5	6	20	44	55
130°	4	6	15	37	47
132.5°	4	5	10	29	38
135°	4	5	6	22	30
137.5°	4	4	5	16	23
140°	4	4	5	10	16
142.5°	3	3	4	6	10
145°	3	3	4	5	6
147.5°	3	3	4	5	5
150°	3	2	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	148
110°	10	21	73	116	134



(END OF REPORT)