

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: P861199

Luminaire Tested: **4APVTLD-SL3C3 MID POWER 5000K 120V**

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: P861199
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-820-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/21/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 4APVTL-D-SL3C3 MID POWER 5000K 120V
Description: MID POWER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

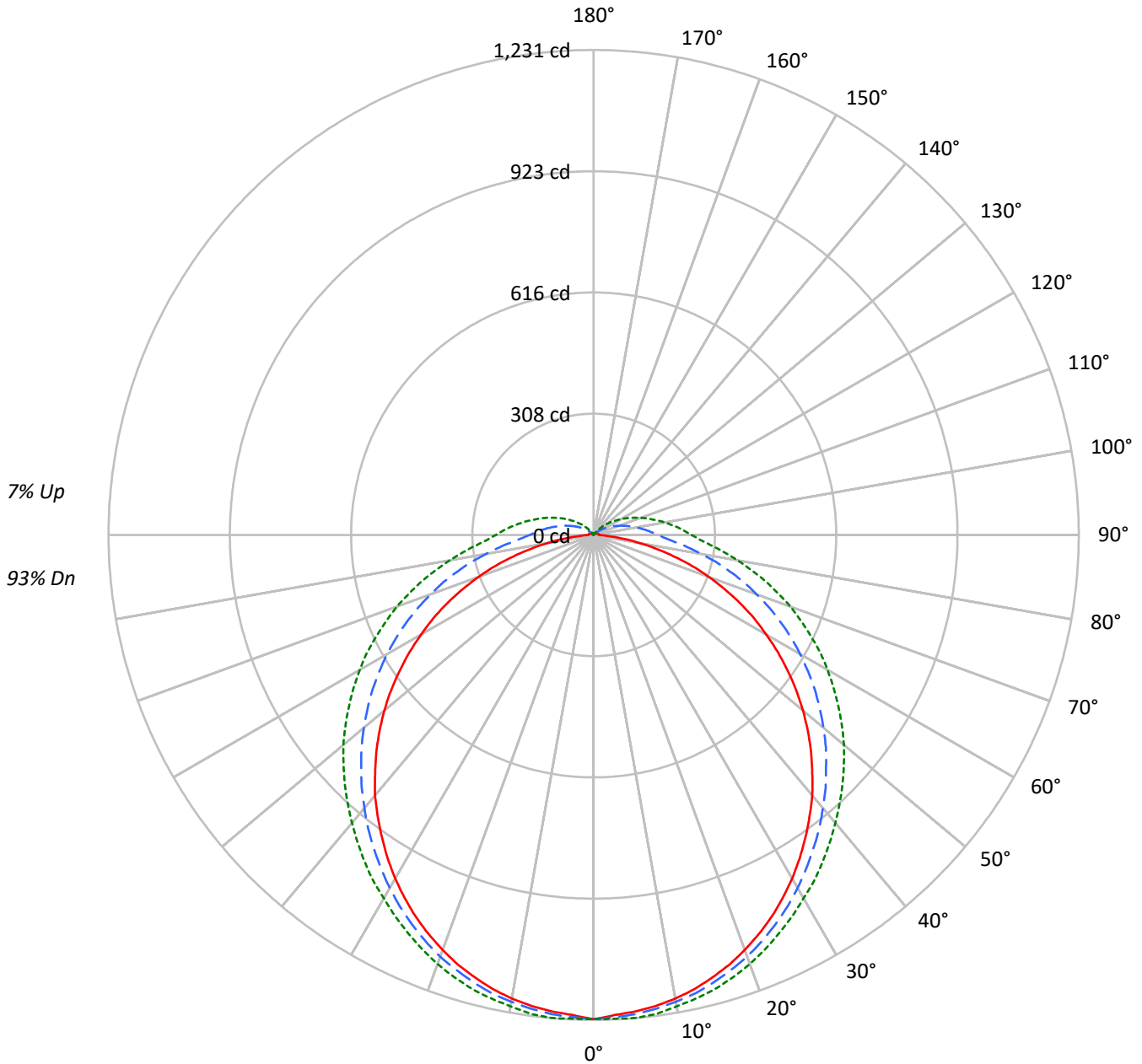
Lumens per Lamp: N/A
Luminaire Lumens: 4231.1 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 33.1
Input Voltage (V): 120
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	93
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	79	76	76	76	76	74
2	95	86	79	72	92	83	77	71	79	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	57	53	53	53	53	50
4	79	66	57	50	76	64	56	49	61	53	48	58	51	46	55	49	45	45	45	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	39	39	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	38	34	34	34	34	32
7	62	48	39	33	60	47	38	32	44	37	31	42	36	31	40	34	30	30	30	30	28
8	57	44	35	29	55	43	34	29	41	33	28	39	32	27	37	31	27	27	27	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	24	24	24	22
10	50	37	29	23	49	36	28	23	35	28	23	33	27	22	32	26	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9922	9922	9922
5°	9820	9732	9762
10°	9760	9539	9539
15°	9666	9349	9345
20°	9558	9148	9127
25°	9431	8921	8895
30°	9276	8688	8676
35°	9102	8447	8496
40°	8938	8217	8310
45°	8723	7991	8156
50°	8493	7782	8022
55°	8215	7571	7862
60°	7870	7335	7718
65°	7479	7082	7561
70°	6921	6790	7430
75°	6107	6494	7261
80°	4948	6173	7114
85°	3441	6013	7156



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.2	2.7
10°-20°	332.7	7.9
20°-30°	503.9	11.9
30°-40°	610.5	14.4
40°-50°	646.3	15.3
50°-60°	611.4	14.4
60°-70°	512.6	12.1
70°-80°	366.2	8.7
80°-90°	216.0	5.1
90°-100°	136.5	3.2
100°-110°	88.9	2.1
110°-120°	51.5	1.2
120°-130°	25.5	0.6
130°-140°	9.1	0.2
140°-150°	2.5	0.1
150°-160°	1.2	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	952.9	22.5
0°-40°	1563.4	36.9
0°-60°	2821.1	66.7
0°-90°	3915.8	92.5
90°-120°	276.9	6.5
90°-150°	313.9	7.4
90°-180°	315.0	7.4
0°-180°	4231.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1229	1229	1229	1229	1229	
5°	1214	1230	1221	1221	1231	115
15°	1163	1179	1176	1183	1193	328
25°	1069	1087	1091	1104	1115	492
35°	937	957	972	996	1013	586
45°	780	804	834	873	893	602
55°	601	634	685	736	758	537
65°	409	455	523	584	608	405
75°	211	273	357	424	450	224
85°	46	119	207	274	298	53
90°	15	78	162	225	248	9
95°	13	57	135	192	215	10
105°	11	29	88	135	153	11
115°	8	11	51	87	102	8
125°	5	6	24	49	60	5
135°	3	4	5	20	27	3
145°	3	3	3	4	5	2
155°	2	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1229	1229	1229	1229	1229
2.5°	1220	1234	1225	1225	1229
5°	1214	1230	1221	1221	1231
7.5°	1206	1222	1213	1215	1226
10°	1195	1210	1203	1206	1215
12.5°	1181	1197	1192	1194	1205
15°	1163	1179	1176	1183	1193
17.5°	1144	1160	1158	1168	1177
20°	1121	1138	1139	1148	1159
22.5°	1096	1113	1116	1125	1138
25°	1069	1087	1091	1104	1115
27.5°	1039	1057	1064	1079	1091
30°	1007	1025	1035	1053	1065
32.5°	973	992	1004	1025	1041
35°	937	957	972	996	1013
37.5°	900	921	940	967	984
40°	863	883	905	937	954
42.5°	821	845	871	906	924
45°	780	804	834	873	893
47.5°	737	763	799	840	861
50°	693	722	761	806	829
52.5°	648	678	723	771	794
55°	601	634	685	736	758
57.5°	554	590	645	699	722
60°	505	545	605	662	685
62.5°	459	500	565	623	649
65°	409	455	523	584	608
67.5°	360	408	482	545	569
70°	310	363	439	505	531
72.5°	262	317	400	464	489
75°	211	273	357	424	450
77.5°	164	229	318	384	409
80°	119	188	277	344	370
82.5°	79	151	241	308	333
85°	46	119	207	274	298
87.5°	24	94	181	245	269
90°	15	78	162	225	248
92.5°	14	67	148	208	231
95°	13	57	135	192	215
97.5°	12	49	122	177	198
100°	12	42	110	163	183
102.5°	11	35	98	148	168
105°	11	29	88	135	153



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9	15	59	98	114
115°	8	11	51	87	102
117.5°	8	9	44	77	91
120°	7	8	36	67	80
122.5°	6	7	30	58	70
125°	5	6	24	49	60
127.5°	4	6	18	41	51
130°	4	5	13	33	42
132.5°	4	5	8	26	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	4	5
147.5°	3	2	3	4	4
150°	3	2	3	4	4
152.5°	2	2	3	3	4
155°	2	2	2	3	3
157.5°	3	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	78	122	140
110°	9	19	68	110	127



(END OF REPORT)