

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: P861197

Luminaire Tested: **4APVTLD-SL3C3 MID POWER 4000K 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: P861197
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-820-11)
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 120V
Description: MID POWER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

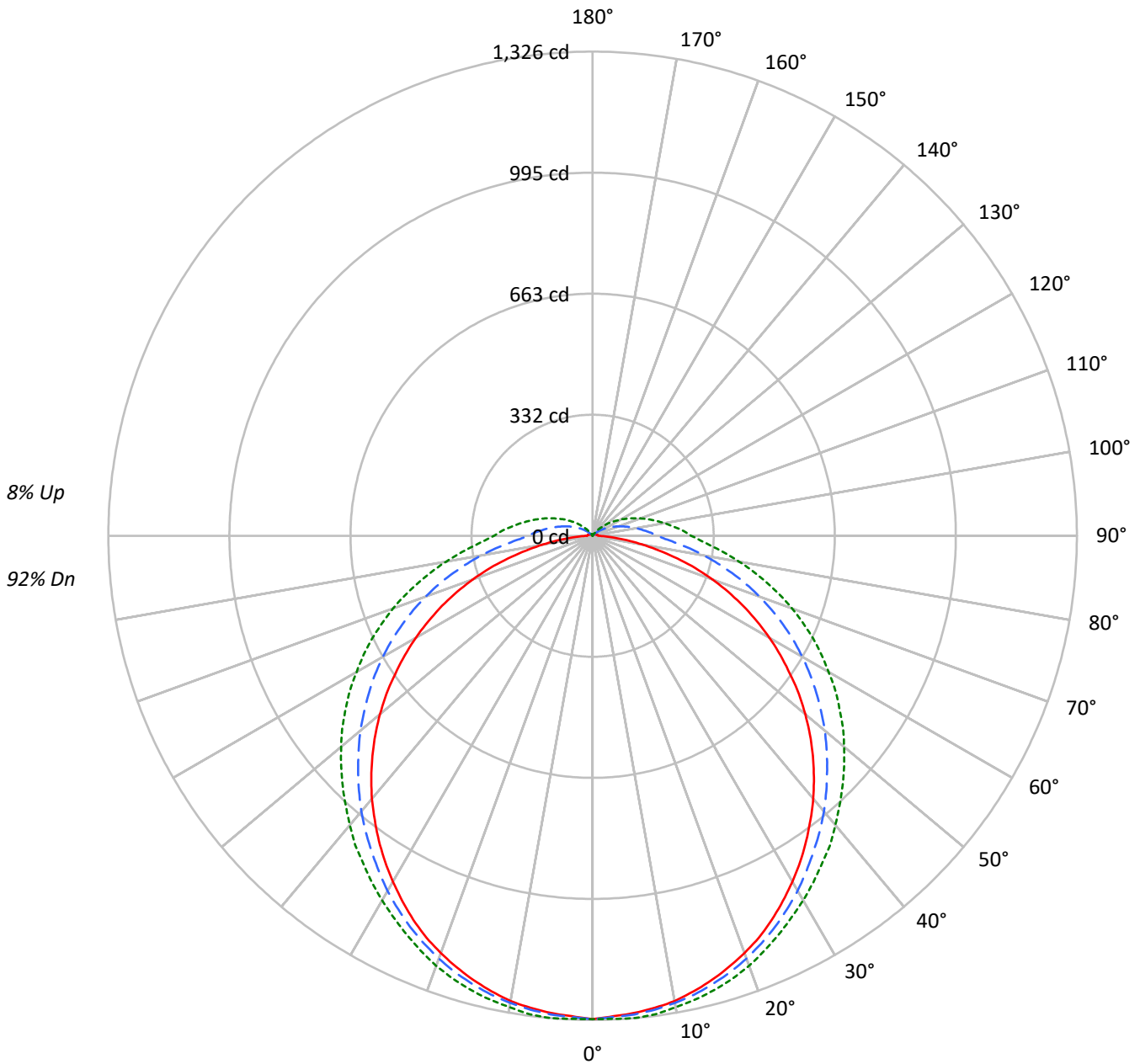
Lumens per Lamp: N/A
Luminaire Lumens: 4620.0 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 31.6
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					
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	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	92	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	45	42								
5	72	59	49	42	69	57	48	42	54	47	41	51	45	40	49	43	38	36								
6	67	53	43	37	64	51	43	36	49	41	35	46	40	35	44	38	34	31								
7	62	48	39	32	59	47	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	25								
9	53	40	31	26	52	39	31	26	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°	10689	10689	10689
5°	10613	10489	10516
10°	10569	10301	10293
15°	10472	10104	10089
20°	10368	9894	9867
25°	10242	9666	9613
30°	10077	9426	9392
35°	9908	9168	9184
40°	9736	8943	9007
45°	9540	8700	8841
50°	9314	8487	8699
55°	9021	8256	8557
60°	8711	8038	8405
65°	8320	7786	8282
70°	7769	7517	8130
75°	6946	7185	7955
80°	5738	6886	7826
85°	4189	6681	7852



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.5	2.7
10°-20°	359.8	7.8
20°-30°	545.9	11.8
30°-40°	662.7	14.3
40°-50°	703.4	15.2
50°-60°	667.6	14.4
60°-70°	562.6	12.2
70°-80°	405.3	8.8
80°-90°	240.0	5.2
90°-100°	149.5	3.2
100°-110°	97.6	2.1
110°-120°	56.9	1.2
120°-130°	28.5	0.6
130°-140°	10.4	0.2
140°-150°	2.9	0.1
150°-160°	1.3	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1031.2	22.3
0°-40°	1693.9	36.7
0°-60°	3064.9	66.3
0°-90°	4272.8	92.5
90°-120°	303.9	6.6
90°-150°	345.8	7.5
90°-180°	347.0	7.5
0°-180°	4620.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1324	1324	1324	1324	1324	
5°	1312	1328	1316	1317	1326	125
15°	1260	1276	1271	1279	1288	355
25°	1161	1178	1182	1195	1205	535
35°	1020	1040	1055	1081	1095	638
45°	853	877	908	949	968	658
55°	660	694	747	800	825	591
65°	455	500	575	637	666	450
75°	240	306	395	465	493	254
85°	56	135	230	303	327	63
90°	17	86	177	247	270	11
95°	14	64	147	210	234	11
105°	11	33	96	148	168	12
115°	9	13	57	96	112	9
125°	6	7	27	55	67	5
135°	4	4	6	23	31	3
145°	3	3	4	5	6	2
155°	3	2	3	3	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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1324	1324	1324	1324	1324
2.5°	1317	1331	1319	1322	1324
5°	1312	1328	1316	1317	1326
7.5°	1304	1320	1309	1312	1322
10°	1294	1309	1299	1302	1311
12.5°	1278	1294	1287	1291	1301
15°	1260	1276	1271	1279	1288
17.5°	1239	1256	1253	1263	1272
20°	1216	1233	1232	1241	1253
22.5°	1191	1207	1208	1218	1230
25°	1161	1178	1182	1195	1205
27.5°	1128	1146	1153	1169	1179
30°	1094	1113	1123	1140	1153
32.5°	1058	1077	1089	1111	1125
35°	1020	1040	1055	1081	1095
37.5°	980	1001	1021	1049	1068
40°	940	961	985	1017	1034
42.5°	897	920	947	983	1001
45°	853	877	908	949	968
47.5°	807	833	869	913	934
50°	760	788	830	876	899
52.5°	712	741	788	840	864
55°	660	694	747	800	825
57.5°	610	647	706	761	788
60°	559	598	663	720	746
62.5°	507	549	620	679	707
65°	455	500	575	637	666
67.5°	402	451	531	595	623
70°	348	403	486	552	581
72.5°	295	354	441	508	537
75°	240	306	395	465	493
77.5°	187	258	351	422	450
80°	138	213	309	380	407
82.5°	94	171	269	340	367
85°	56	135	230	303	327
87.5°	29	106	199	271	295
90°	17	86	177	247	270
92.5°	15	74	162	229	253
95°	14	64	147	210	234
97.5°	13	54	133	194	216
100°	13	46	120	178	199
102.5°	12	39	108	163	183
105°	11	33	96	148	168



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9	17	66	108	125
115°	9	13	57	96	112
117.5°	8	10	48	85	100
120°	8	8	41	74	89
122.5°	7	8	33	64	77
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	4	6	23	31
137.5°	4	4	5	16	23
140°	3	4	5	11	16
142.5°	3	3	4	6	10
145°	3	3	4	5	6
147.5°	3	3	3	5	5
150°	3	2	3	4	5
152.5°	3	2	3	4	4
155°	3	2	3	3	4
157.5°	3	2	2	3	3
160°	3	2	2	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)