

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: P861189

Luminaire Tested: **4APVTLD-SL3C3 LOW 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: P861189
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-820-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/31/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 4APVTLTD-SL3C3 LOW POWER 3500K 120V
Description: LOW POWER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

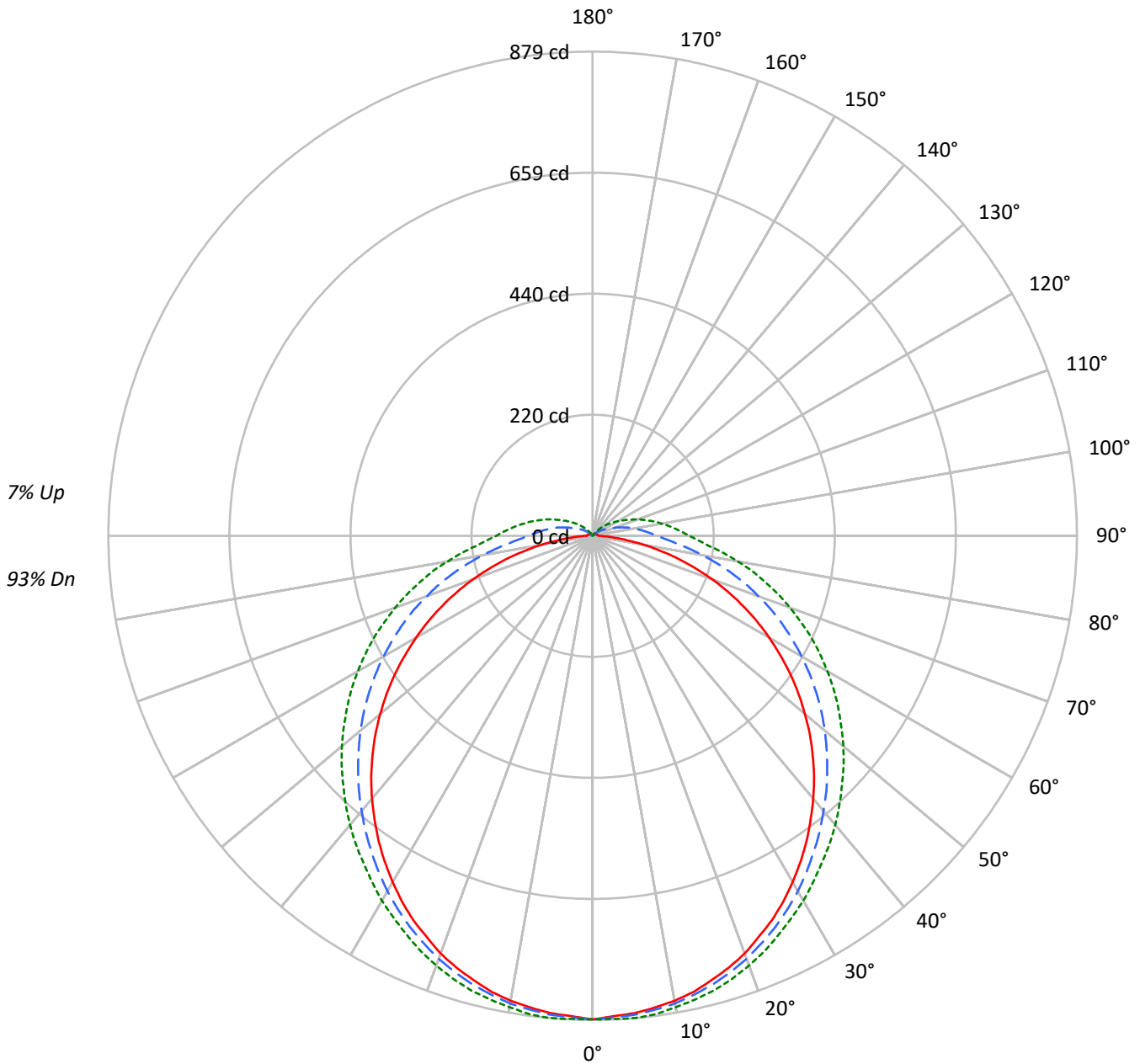
Lumens per Lamp: N/A
Luminaire Lumens: 3043.1 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 21.2
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	96	96	96	96	96	96	93
1	105	100	95	90	102	97	92	88	91	88	84	86	83	80	81	79	77	77	77	77	74
2	95	86	79	72	92	83	77	71	79	73	68	74	70	65	70	66	63	63	63	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	54	62	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	49	43	70	57	49	42	54	47	41	52	45	40	49	43	39	39	39	39	36
6	67	53	44	37	64	51	43	36	49	41	36	47	40	35	44	38	34	34	34	34	32
7	62	48	39	32	59	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	31	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	34	28	23	33	27	22	32	26	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7088	7088	7088
5°	7037	6958	6971
10°	7000	6835	6823
15°	6940	6702	6689
20°	6881	6562	6536
25°	6793	6411	6374
30°	6687	6253	6232
35°	6576	6083	6081
40°	6453	5920	5967
45°	6319	5768	5845
50°	6164	5624	5748
55°	5987	5471	5642
60°	5766	5310	5543
65°	5504	5146	5447
70°	5157	4949	5331
75°	4631	4748	5228
80°	3908	4502	5134
85°	2918	4386	5091



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	2.7
10°-20°	238.6	7.8
20°-30°	362.0	11.9
30°-40°	439.4	14.4
40°-50°	466.1	15.3
50°-60°	442.1	14.5
60°-70°	372.1	12.2
70°-80°	267.7	8.8
80°-90°	157.4	5.2
90°-100°	96.3	3.2
100°-110°	60.6	2.0
110°-120°	33.1	1.1
120°-130°	16.3	0.5
130°-140°	6.1	0.2
140°-150°	1.8	0.1
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	683.8	22.5
0°-40°	1123.2	36.9
0°-60°	2031.4	66.8
0°-90°	2828.6	93.0
90°-120°	190.1	6.2
90°-150°	214.4	7.0
90°-180°	215.0	7.1
0°-180°	3043.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	878	878	878	878	878	
5°	870	880	873	874	879	83
15°	835	847	843	848	854	236
25°	770	781	784	792	799	355
35°	677	690	700	716	725	423
45°	565	582	602	628	640	436
55°	438	462	495	529	544	391
65°	301	333	380	422	438	298
75°	160	201	261	307	324	170
85°	39	90	151	197	212	44
90°	12	57	116	159	175	8
95°	10	41	95	136	150	8
105°	8	18	59	94	106	8
115°	6	8	31	55	68	6
125°	4	4	15	31	40	4
135°	3	3	4	13	18	2
145°	2	2	2	3	4	1
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°	878	878	878	878	878
2.5°	873	883	875	876	878
5°	870	880	873	874	879
7.5°	864	875	868	870	876
10°	857	868	862	864	869
12.5°	848	858	853	856	862
15°	835	847	843	848	854
17.5°	822	833	831	837	843
20°	807	817	817	823	830
22.5°	788	800	801	807	816
25°	770	781	784	792	799
27.5°	749	760	765	775	782
30°	726	738	745	756	765
32.5°	702	715	723	737	745
35°	677	690	700	716	725
37.5°	650	663	677	695	706
40°	623	637	652	674	685
42.5°	595	610	628	651	663
45°	565	582	602	628	640
47.5°	535	553	576	605	618
50°	503	523	550	580	594
52.5°	471	493	523	556	569
55°	438	462	495	529	544
57.5°	404	429	467	503	519
60°	370	398	438	477	492
62.5°	336	365	409	449	465
65°	301	333	380	422	438
67.5°	266	300	351	393	409
70°	231	268	320	364	381
72.5°	195	234	291	337	353
75°	160	201	261	307	324
77.5°	126	171	231	279	297
80°	94	141	202	251	267
82.5°	64	114	175	222	240
85°	39	90	151	197	212
87.5°	21	70	131	176	192
90°	12	57	116	159	175
92.5°	10	48	105	148	162
95°	10	41	95	136	150
97.5°	9	34	85	125	139
100°	9	27	76	114	127
102.5°	8	22	68	104	117
105°	8	18	59	94	106



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6	10	36	64	77
115°	6	8	31	55	68
117.5°	6	6	26	48	60
120°	5	5	22	42	53
122.5°	5	5	18	36	46
125°	4	4	15	31	40
127.5°	3	4	11	26	34
130°	3	3	8	22	29
132.5°	3	3	6	17	23
135°	3	3	4	13	18
137.5°	2	2	3	9	14
140°	2	2	3	6	10
142.5°	2	2	3	4	6
145°	2	2	2	3	4
147.5°	2	2	2	3	3
150°	2	2	2	3	3
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°	7	15	50	84	96
110°	7	12	42	74	87



(END OF REPORT)