

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: P861186

Luminaire Tested: **4APVTLD-SL3C3 HI 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: P861186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-820-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/31/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 4APVTLTD-SL3C3 HI POWER 4000K 277V
Description: HI POWER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

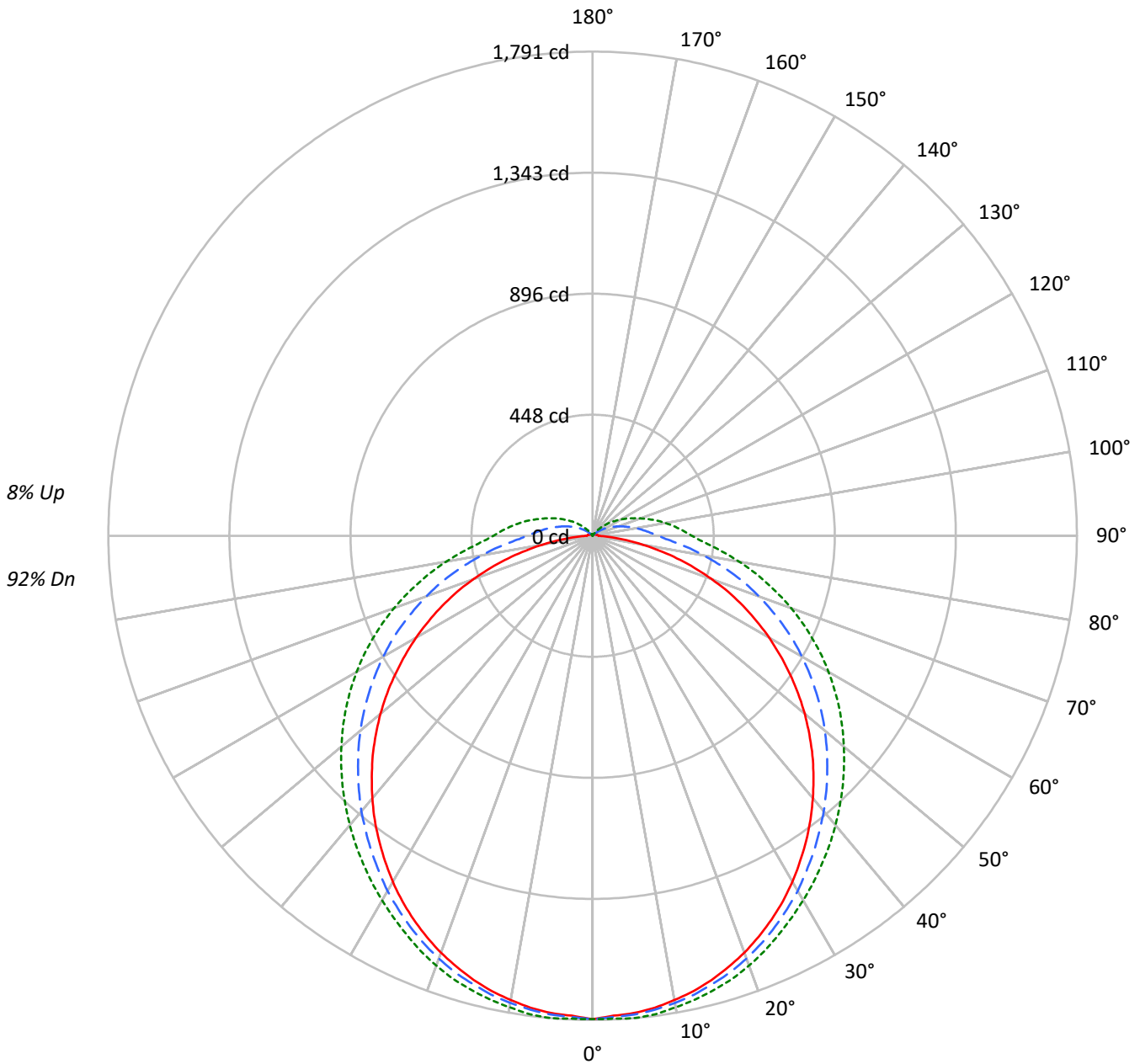
Lumens per Lamp: N/A
Luminaire Lumens: 6241.1 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 44.5
Input Voltage (V): 277
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									
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	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°	14434	14434	14434
5°	14334	14171	14203
10°	14244	13917	13905
15°	14138	13642	13622
20°	13992	13364	13324
25°	13815	13051	12987
30°	13614	12733	12683
35°	13376	12392	12413
40°	13123	12076	12169
45°	12861	11757	11947
50°	12549	11463	11737
55°	12165	11151	11554
60°	11750	10839	11357
65°	11227	10494	11142
70°	10448	10115	10928
75°	9348	9696	10698
80°	7692	9271	10556
85°	5611	9091	10637



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.4	2.7
10°-20°	485.9	7.8
20°-30°	737.3	11.8
30°-40°	895.2	14.3
40°-50°	950.1	15.2
50°-60°	901.8	14.4
60°-70°	759.7	12.2
70°-80°	547.1	8.8
80°-90°	324.7	5.2
90°-100°	202.7	3.2
100°-110°	131.9	2.1
110°-120°	76.8	1.2
120°-130°	38.4	0.6
130°-140°	14.1	0.2
140°-150°	3.9	0.1
150°-160°	1.9	0.0
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	1392.6	22.3
0°-40°	2287.8	36.7
0°-60°	4139.8	66.3
0°-90°	5771.2	92.5
90°-120°	411.5	6.6
90°-150°	467.9	7.5
90°-180°	470.0	7.5
0°-180°	6241.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1788	1788	1788	1788	1788	
5°	1772	1792	1778	1779	1791	168
15°	1701	1723	1716	1727	1739	480
25°	1566	1591	1596	1613	1628	722
35°	1377	1406	1426	1459	1480	861
45°	1150	1186	1227	1280	1308	886
55°	890	940	1009	1082	1114	796
65°	614	677	775	863	896	607
75°	323	413	533	629	663	342
85°	75	183	313	408	443	85
90°	23	117	242	333	367	14
95°	19	86	198	286	318	15
105°	15	44	129	200	229	16
115°	12	18	76	130	152	12
125°	8	9	36	74	91	7
135°	5	6	8	31	41	4
145°	4	4	5	7	8	3
155°	4	3	4	5	5	2
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°	1788	1788	1788	1788	1788
2.5°	1777	1798	1782	1785	1788
5°	1772	1792	1778	1779	1791
7.5°	1761	1782	1768	1771	1785
10°	1744	1766	1755	1758	1771
12.5°	1725	1747	1738	1743	1757
15°	1701	1723	1716	1727	1739
17.5°	1672	1697	1693	1705	1718
20°	1641	1665	1664	1676	1692
22.5°	1605	1629	1632	1645	1662
25°	1566	1591	1596	1613	1628
27.5°	1524	1550	1557	1579	1593
30°	1478	1504	1517	1541	1557
32.5°	1428	1456	1471	1502	1520
35°	1377	1406	1426	1459	1480
37.5°	1324	1353	1378	1417	1440
40°	1267	1299	1330	1373	1397
42.5°	1209	1244	1279	1328	1353
45°	1150	1186	1227	1280	1308
47.5°	1087	1128	1175	1232	1261
50°	1024	1066	1121	1184	1213
52.5°	958	1004	1066	1134	1164
55°	890	940	1009	1082	1114
57.5°	822	874	952	1029	1061
60°	754	809	894	975	1008
62.5°	684	743	836	919	953
65°	614	677	775	863	896
67.5°	543	610	714	805	839
70°	468	543	654	747	781
72.5°	395	478	595	689	722
75°	323	413	533	629	663
77.5°	253	350	473	571	607
80°	185	289	416	513	549
82.5°	126	234	364	458	494
85°	75	183	313	408	443
87.5°	38	144	271	366	399
90°	23	117	242	333	367
92.5°	21	101	218	309	342
95°	19	86	198	286	318
97.5°	18	74	180	264	295
100°	17	62	162	242	273
102.5°	16	53	145	220	251
105°	15	44	129	200	229



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	13	23	88	146	170
115°	12	18	76	130	152
117.5°	11	13	65	115	136
120°	11	11	55	101	120
122.5°	9	10	45	87	105
125°	8	9	36	74	91
127.5°	6	8	28	62	78
130°	5	8	20	51	65
132.5°	5	7	14	41	53
135°	5	6	8	31	41
137.5°	5	5	7	22	31
140°	4	5	6	14	22
142.5°	4	4	6	8	14
145°	4	4	5	7	8
147.5°	4	4	5	6	7
150°	4	3	4	6	6
152.5°	4	3	4	5	6
155°	4	3	4	5	5
157.5°	4	3	3	4	4
160°	4	3	3	4	4
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°	14	37	115	181	207
110°	13	29	101	163	188



(END OF REPORT)