

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: P861185

Luminaire Tested: **4APVTLD-SL3C3 HI 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: P861185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-820-13)
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 120V
Description: HI POWER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

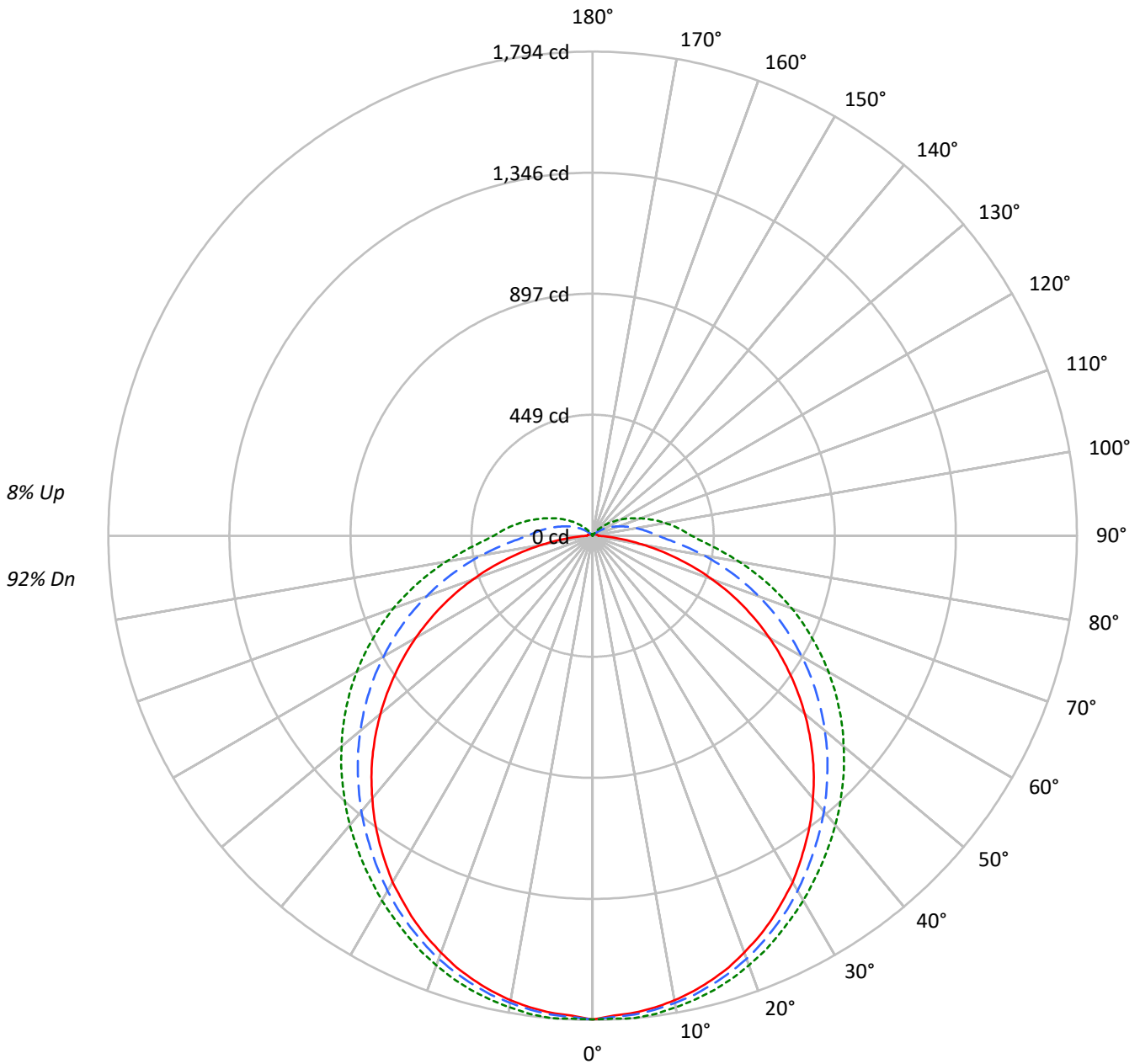
Lumens per Lamp: N/A
Luminaire Lumens: 6254.3 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 45.1
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

TEST NUMBER: P861185

CATALOG NUMBER: 4APVTLD-SL3C3 HI POWER 4000K 120V

Luminous Intensity Polar Plot





TEST NUMBER: P861185

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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	44	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	25	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°	14467	14467	14467
5°	14350	14195	14227
10°	14277	13940	13928
15°	14163	13674	13645
20°	14009	13396	13332
25°	13841	13075	13011
30°	13651	12750	12716
35°	13405	12409	12430
40°	13154	12103	12187
45°	12895	11786	11956
50°	12574	11483	11747
55°	12206	11174	11564
60°	11781	10839	11369
65°	11264	10508	11154
70°	10471	10115	10984
75°	9406	9714	10747
80°	7775	9315	10576
85°	5686	9150	10661



TEST NUMBER: P861185

CATALOG NUMBER: 4APVTLD-SL3C3 HI POWER 4000K 120V

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.7	2.7
10°-20°	486.8	7.8
20°-30°	738.6	11.8
30°-40°	896.6	14.3
40°-50°	951.7	15.2
50°-60°	903.3	14.4
60°-70°	760.9	12.2
70°-80°	548.5	8.8
80°-90°	325.9	5.2
90°-100°	203.5	3.3
100°-110°	132.6	2.1
110°-120°	77.4	1.2
120°-130°	38.8	0.6
130°-140°	14.3	0.2
140°-150°	4.0	0.1
150°-160°	1.9	0.0
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	1395.0	22.3
0°-40°	2291.6	36.6
0°-60°	4146.5	66.3
0°-90°	5781.8	92.4
90°-120°	413.4	6.6
90°-150°	470.5	7.5
90°-180°	473.0	7.6
0°-180°	6254.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1792	1792	1792	1792	1792	
5°	1774	1796	1781	1781	1794	169
15°	1704	1726	1720	1730	1742	481
25°	1569	1594	1599	1615	1631	723
35°	1380	1407	1428	1461	1482	863
45°	1153	1186	1230	1283	1309	889
55°	893	941	1011	1084	1115	798
65°	616	678	776	863	897	609
75°	325	413	534	630	666	344
85°	76	184	315	410	444	86
90°	23	117	242	334	367	15
95°	20	86	200	288	319	16
105°	16	44	130	201	229	17
115°	12	18	77	131	153	12
125°	8	10	36	75	91	7
135°	5	6	9	31	42	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	



TEST NUMBER: P861185

CATALOG NUMBER: 4APVTLD-SL3C3 HI POWER 4000K 120V

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1792	1792	1792	1792	1792
2.5°	1780	1801	1785	1788	1791
5°	1774	1796	1781	1781	1794
7.5°	1763	1785	1771	1774	1787
10°	1748	1769	1758	1763	1774
12.5°	1728	1751	1742	1746	1760
15°	1704	1726	1720	1730	1742
17.5°	1677	1699	1696	1708	1720
20°	1643	1667	1668	1679	1693
22.5°	1608	1632	1635	1648	1665
25°	1569	1594	1599	1615	1631
27.5°	1525	1551	1561	1582	1596
30°	1482	1505	1519	1544	1561
32.5°	1431	1458	1474	1504	1521
35°	1380	1407	1428	1461	1482
37.5°	1327	1355	1381	1418	1441
40°	1270	1301	1333	1375	1399
42.5°	1213	1245	1282	1329	1355
45°	1153	1186	1230	1283	1309
47.5°	1090	1128	1178	1235	1263
50°	1026	1067	1123	1186	1214
52.5°	960	1004	1068	1135	1166
55°	893	941	1011	1084	1115
57.5°	825	876	954	1031	1063
60°	756	810	894	976	1009
62.5°	686	745	836	920	954
65°	616	678	776	863	897
67.5°	545	612	716	806	842
70°	469	544	654	748	785
72.5°	398	480	594	689	725
75°	325	413	534	630	666
77.5°	255	351	476	572	607
80°	187	291	418	515	550
82.5°	127	235	364	461	495
85°	76	184	315	410	444
87.5°	39	144	273	366	400
90°	23	117	242	334	367
92.5°	21	101	219	310	342
95°	20	86	200	288	319
97.5°	18	74	181	265	295
100°	17	63	163	243	273
102.5°	16	53	146	221	251
105°	16	44	130	201	229



TEST NUMBER: P861185

CATALOG NUMBER: 4APVTLD-SL3C3 HI POWER 4000K 120V

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	13	23	89	147	170
115°	12	18	77	131	153
117.5°	11	14	66	115	136
120°	11	12	55	101	120
122.5°	10	11	45	87	105
125°	8	10	36	75	91
127.5°	6	9	28	63	78
130°	6	8	20	51	65
132.5°	5	7	14	41	53
135°	5	6	9	31	42
137.5°	5	6	7	22	32
140°	4	5	7	14	22
142.5°	4	5	6	8	14
145°	4	4	5	7	8
147.5°	4	4	5	7	7
150°	4	3	5	6	6
152.5°	4	3	4	5	6
155°	4	3	4	5	5
157.5°	4	3	4	4	5
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°	15	37	115	182	208
110°	14	30	102	164	189



(END OF REPORT)