

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: P861183

Luminaire Tested: **4APVTLD-SL3C3 HI 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: P861183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-820-7)
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 3500K 120V
Description: HI POWER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

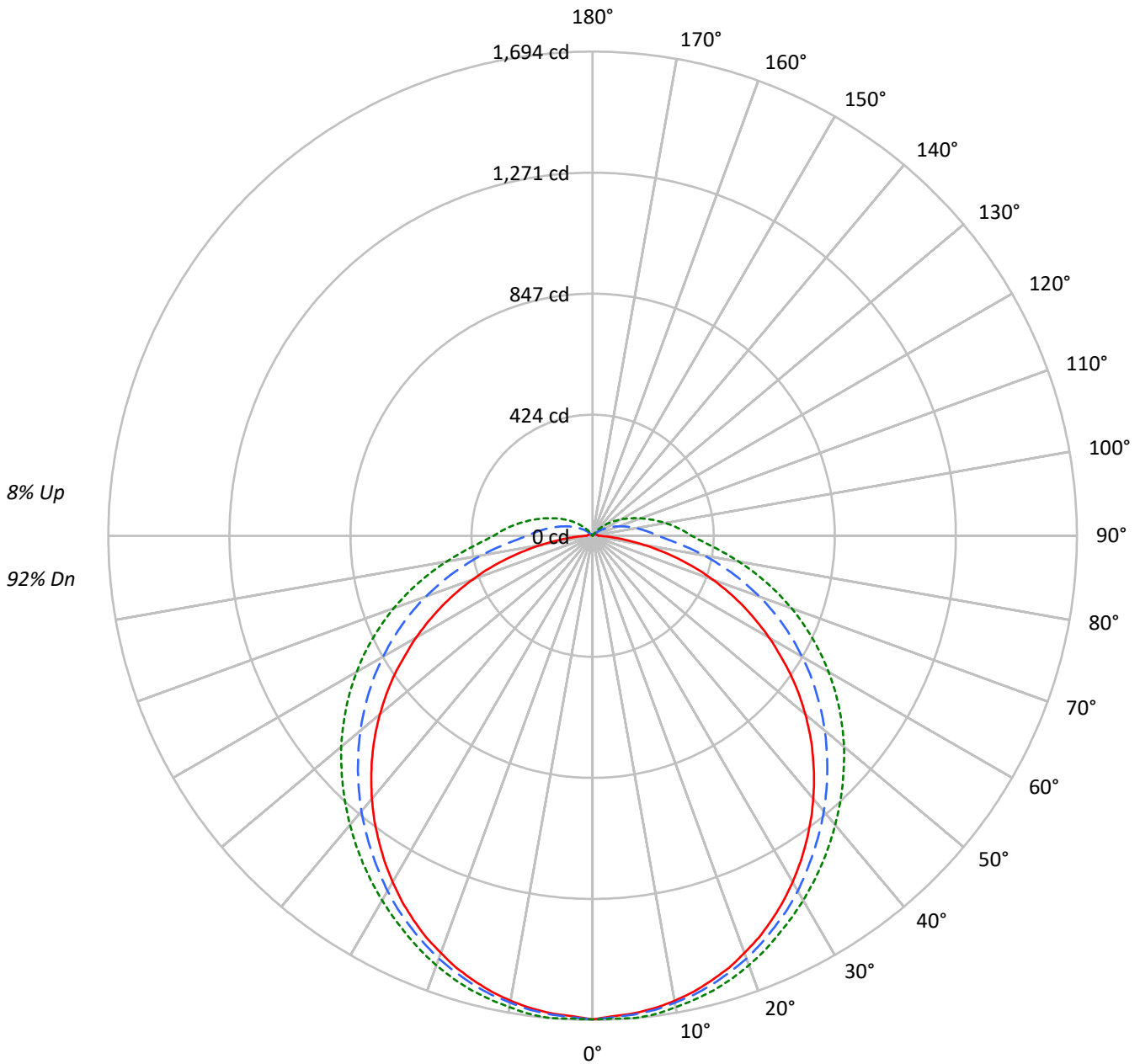
Lumens per Lamp: N/A
Luminaire Lumens: 5906.4 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 46.4
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: P861183

CATALOG NUMBER: 4APVTLD-SL3C3 HI POWER 3500K 120V

Luminous Intensity Polar Plot





TEST NUMBER: P861183

CATALOG NUMBER: 4APVTLD-SL3C3 HI POWER 3500K 120V

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°	13659	13659	13659
5°	13565	13398	13434
10°	13493	13155	13151
15°	13381	12910	12885
20°	13241	12641	12591
25°	13083	12339	12277
30°	12886	12045	11999
35°	12666	11723	11742
40°	12439	11422	11499
45°	12190	11125	11289
50°	11900	10839	11108
55°	11550	10555	10921
60°	11127	10257	10738
65°	10624	9953	10545
70°	9957	9589	10355
75°	9001	9186	10134
80°	7484	8803	9960
85°	5611	8627	10037



TEST NUMBER: P861183

CATALOG NUMBER: 4APVTLD-SL3C3 HI POWER 3500K 120V

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.3	2.7
10°-20°	459.6	7.8
20°-30°	697.4	11.8
30°-40°	846.7	14.3
40°-50°	898.6	15.2
50°-60°	853.2	14.4
60°-70°	719.2	12.2
70°-80°	518.7	8.8
80°-90°	308.0	5.2
90°-100°	192.3	3.3
100°-110°	125.2	2.1
110°-120°	73.0	1.2
120°-130°	36.6	0.6
130°-140°	13.4	0.2
140°-150°	3.8	0.1
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1317.3	22.3
0°-40°	2164.1	36.6
0°-60°	3915.9	66.3
0°-90°	5461.8	92.5
90°-120°	390.5	6.6
90°-150°	444.3	7.5
90°-180°	445.0	7.5
0°-180°	5906.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1692	1692	1692	1692	1692	
5°	1677	1696	1681	1683	1694	159
15°	1610	1630	1624	1633	1645	454
25°	1483	1505	1509	1525	1539	683
35°	1304	1330	1349	1380	1400	816
45°	1090	1121	1161	1210	1236	841
55°	845	890	955	1022	1053	754
65°	581	642	735	816	848	574
75°	311	392	505	595	628	329
85°	75	174	297	387	418	84
90°	23	111	228	315	346	15
95°	19	82	189	271	301	15
105°	15	42	123	190	216	15
115°	11	17	73	123	144	11
125°	7	9	35	70	86	7
135°	5	6	8	29	40	4
145°	4	4	5	7	8	3
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	



TEST NUMBER: P861183

CATALOG NUMBER: 4APVTLD-SL3C3 HI POWER 3500K 120V

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1692	1692	1692	1692	1692
2.5°	1682	1701	1686	1689	1691
5°	1677	1696	1681	1683	1694
7.5°	1667	1686	1673	1675	1688
10°	1652	1672	1659	1664	1675
12.5°	1634	1653	1644	1649	1661
15°	1610	1630	1624	1633	1645
17.5°	1585	1605	1600	1613	1624
20°	1553	1574	1574	1585	1599
22.5°	1521	1542	1543	1556	1571
25°	1483	1505	1509	1525	1539
27.5°	1443	1465	1474	1493	1507
30°	1399	1422	1435	1457	1473
32.5°	1353	1377	1392	1420	1437
35°	1304	1330	1349	1380	1400
37.5°	1254	1279	1304	1339	1361
40°	1201	1228	1258	1297	1320
42.5°	1146	1176	1210	1255	1279
45°	1090	1121	1161	1210	1236
47.5°	1032	1067	1111	1165	1192
50°	971	1008	1060	1118	1148
52.5°	909	951	1008	1071	1101
55°	845	890	955	1022	1053
57.5°	777	829	902	972	1004
60°	714	767	846	920	953
62.5°	646	705	791	868	902
65°	581	642	735	816	848
67.5°	513	579	678	760	794
70°	446	516	620	705	740
72.5°	379	453	562	652	684
75°	311	392	505	595	628
77.5°	244	332	449	540	573
80°	180	275	395	485	518
82.5°	124	222	344	434	466
85°	75	174	297	387	418
87.5°	40	136	259	345	378
90°	23	111	228	315	346
92.5°	20	95	208	293	324
95°	19	82	189	271	301
97.5°	17	70	171	251	279
100°	16	59	154	229	258
102.5°	15	50	138	209	236
105°	15	42	123	190	216



TEST NUMBER: P861183

CATALOG NUMBER: 4APVTLD-SL3C3 HI POWER 3500K 120V

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	12	22	84	139	161
115°	11	17	73	123	144
117.5°	11	13	62	109	129
120°	10	11	52	95	114
122.5°	9	10	43	82	100
125°	7	9	35	70	86
127.5°	6	8	27	59	74
130°	5	7	19	48	62
132.5°	5	7	13	38	50
135°	5	6	8	29	40
137.5°	5	5	7	21	30
140°	4	5	6	14	21
142.5°	4	4	6	8	13
145°	4	4	5	7	8
147.5°	4	3	5	6	6
150°	4	3	4	6	6
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°	14	35	109	172	196
110°	13	28	96	155	178



(END OF REPORT)