

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: P861193

Luminaire Tested: **4APVTLD-SL3C3 LOW POWER 5000K 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: P861193
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-820-15)
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 5000K 120V
Description: LOW POWER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

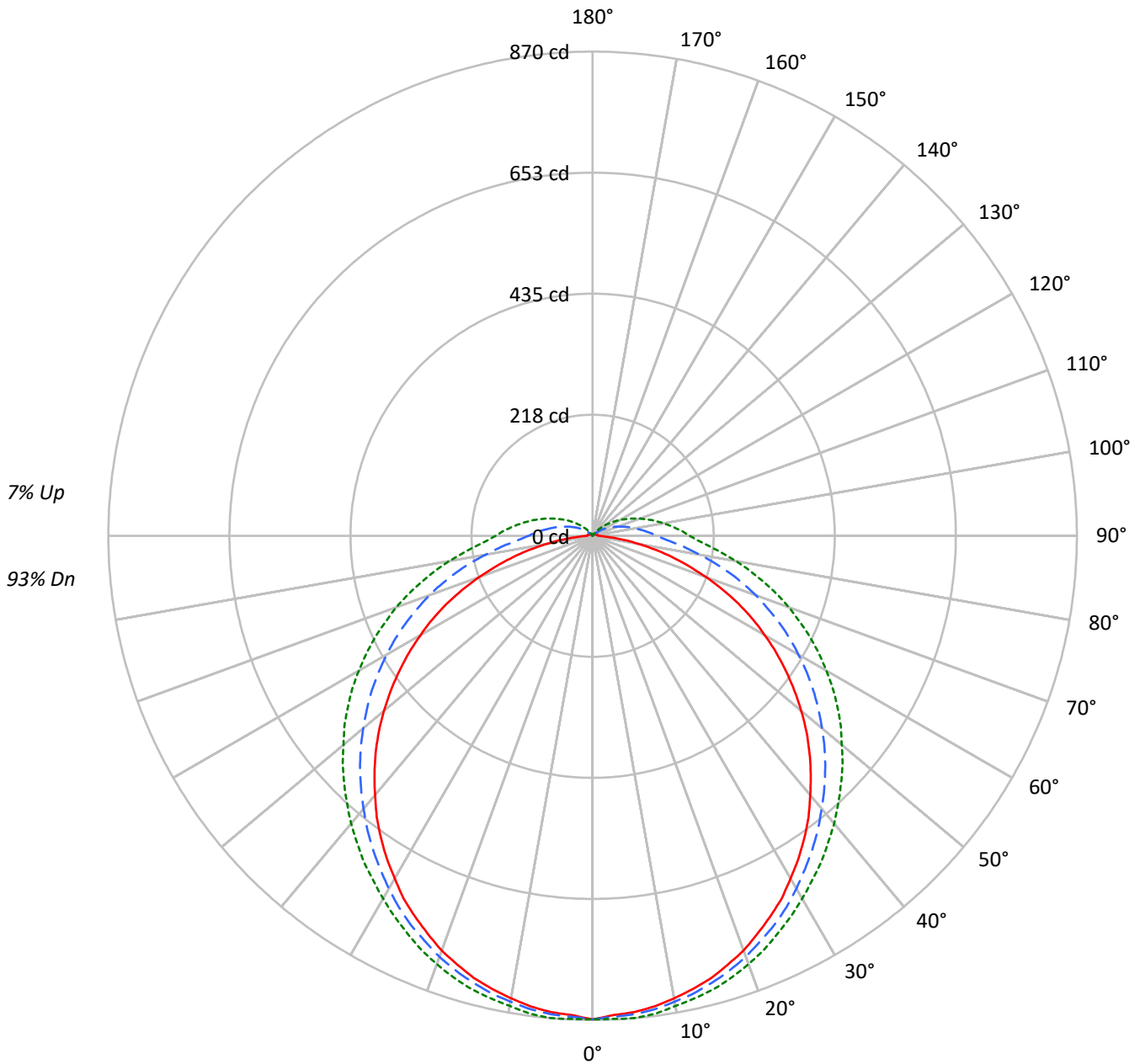
Lumens per Lamp: N/A
Luminaire Lumens: 2988.0 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.08')
CIE Type: Direct

Input Watts (W): 21.7
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: P861193

CATALOG NUMBER: 4APVTLD-SL3C3 LOW POWER 5000K 120V

Luminous Intensity Polar Plot





TEST NUMBER: P861193

CATALOG NUMBER: 4APVTLD-SL3C3 LOW POWER 5000K 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	93																			
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	79	76	74																			
2	95	86	79	72	92	83	77	71	79	73	68	74	70	65	70	66	63	60																			
3	86	75	66	59	83	73	65	58	69	62	56	65	59	54	61	57	53	50																			
4	79	66	57	50	76	64	56	49	61	53	48	58	51	46	55	49	45	42																			
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36																			
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	38	34	32																			
7	62	48	39	33	60	47	38	32	44	37	31	42	36	31	40	34	30	28																			
8	57	44	35	29	55	43	34	29	41	33	28	39	32	27	37	31	27	25																			
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22																			
10	50	37	29	23	49	36	28	23	35	28	23	33	27	22	32	26	22	20																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3508	3508	3508
5°	3477	3441	3450
10°	3453	3374	3368
15°	3430	3309	3302
20°	3393	3241	3225
25°	3346	3166	3143
30°	3294	3084	3067
35°	3243	3003	3003
40°	3176	2921	2940
45°	3113	2849	2882
50°	3033	2770	2825
55°	2940	2697	2785
60°	2831	2614	2732
65°	2700	2533	2680
70°	2478	2445	2624
75°	2207	2339	2558
80°	1844	2217	2509
85°	1366	2193	2509



TEST NUMBER: P861193

CATALOG NUMBER: 4APVTLD-SL3C3 LOW POWER 5000K 120V

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.2	2.7
10°-20°	235.1	7.9
20°-30°	356.1	11.9
30°-40°	431.5	14.4
40°-50°	456.8	15.3
50°-60°	432.0	14.5
60°-70°	362.0	12.1
70°-80°	257.9	8.6
80°-90°	152.2	5.1
90°-100°	96.3	3.2
100°-110°	62.7	2.1
110°-120°	36.3	1.2
120°-130°	17.9	0.6
130°-140°	6.3	0.2
140°-150°	1.8	0.1
150°-160°	0.8	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	673.3	22.5
0°-40°	1104.9	37.0
0°-60°	1993.6	66.7
0°-90°	2765.8	92.6
90°-120°	195.3	6.5
90°-150°	221.3	7.4
90°-180°	222.0	7.4
0°-180°	2988.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	869	869	869	869	869	
5°	859	869	863	862	870	82
15°	823	833	831	836	843	232
25°	755	767	772	779	788	348
35°	663	676	688	704	716	415
45°	551	569	591	616	631	425
55°	424	448	484	519	537	379
65°	289	321	370	413	431	285
75°	147	191	253	299	317	156
85°	33	84	147	192	209	38
90°	11	55	115	158	174	7
95°	9	40	95	136	151	7
105°	7	21	62	96	109	8
115°	6	8	36	62	72	6
125°	4	4	16	35	42	4
135°	2	3	4	14	19	2
145°	2	2	2	3	3	1
155°	2	1	2	2	2	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P861193

CATALOG NUMBER: 4APVTLD-SL3C3 LOW POWER 5000K 120V

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	869	869	869	869	869
2.5°	862	872	865	866	869
5°	859	869	863	862	870
7.5°	853	864	858	859	866
10°	844	855	850	852	858
12.5°	834	845	842	844	851
15°	823	833	831	836	843
17.5°	808	820	819	825	832
20°	793	804	805	811	819
22.5°	774	787	788	795	805
25°	755	767	772	779	788
27.5°	735	747	753	762	771
30°	711	724	732	744	753
32.5°	688	702	710	724	734
35°	663	676	688	704	716
37.5°	637	651	665	683	695
40°	608	624	640	662	675
42.5°	580	597	616	640	653
45°	551	569	591	616	631
47.5°	521	540	565	594	609
50°	489	509	538	569	584
52.5°	457	480	511	545	562
55°	424	448	484	519	537
57.5°	391	417	456	493	512
60°	357	385	427	467	485
62.5°	324	353	399	440	458
65°	289	321	370	413	431
67.5°	253	288	340	385	402
70°	216	256	312	357	375
72.5°	181	222	282	328	346
75°	147	191	253	299	317
77.5°	115	160	223	271	289
80°	84	132	195	243	261
82.5°	56	107	170	216	234
85°	33	84	147	192	209
87.5°	17	66	128	173	189
90°	11	55	115	158	174
92.5°	10	47	105	147	163
95°	9	40	95	136	151
97.5°	9	34	86	125	140
100°	8	29	77	115	129
102.5°	8	24	69	105	119
105°	7	21	62	96	109



TEST NUMBER: P861193

CATALOG NUMBER: 4APVTLD-SL3C3 LOW POWER 5000K 120V

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6	10	42	69	81
115°	6	8	36	62	72
117.5°	5	6	31	54	64
120°	5	5	26	47	57
122.5°	5	5	21	41	49
125°	4	4	16	35	42
127.5°	3	4	12	29	36
130°	3	3	9	23	30
132.5°	3	3	6	18	24
135°	2	3	4	14	19
137.5°	2	2	3	10	14
140°	2	2	3	6	10
142.5°	2	2	3	4	6
145°	2	2	2	3	3
147.5°	2	2	2	3	3
150°	2	2	2	3	3
152.5°	2	1	2	2	3
155°	2	1	2	2	2
157.5°	2	1	1	2	2
160°	2	1	1	2	2
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	17	54	86	99
110°	7	13	48	78	90



(END OF REPORT)