

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: P861192

Luminaire Tested: **4APVTLD-SL3C3 LOW 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: P861192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-820-10)
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 4000K 277V
Description: LOW POWER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

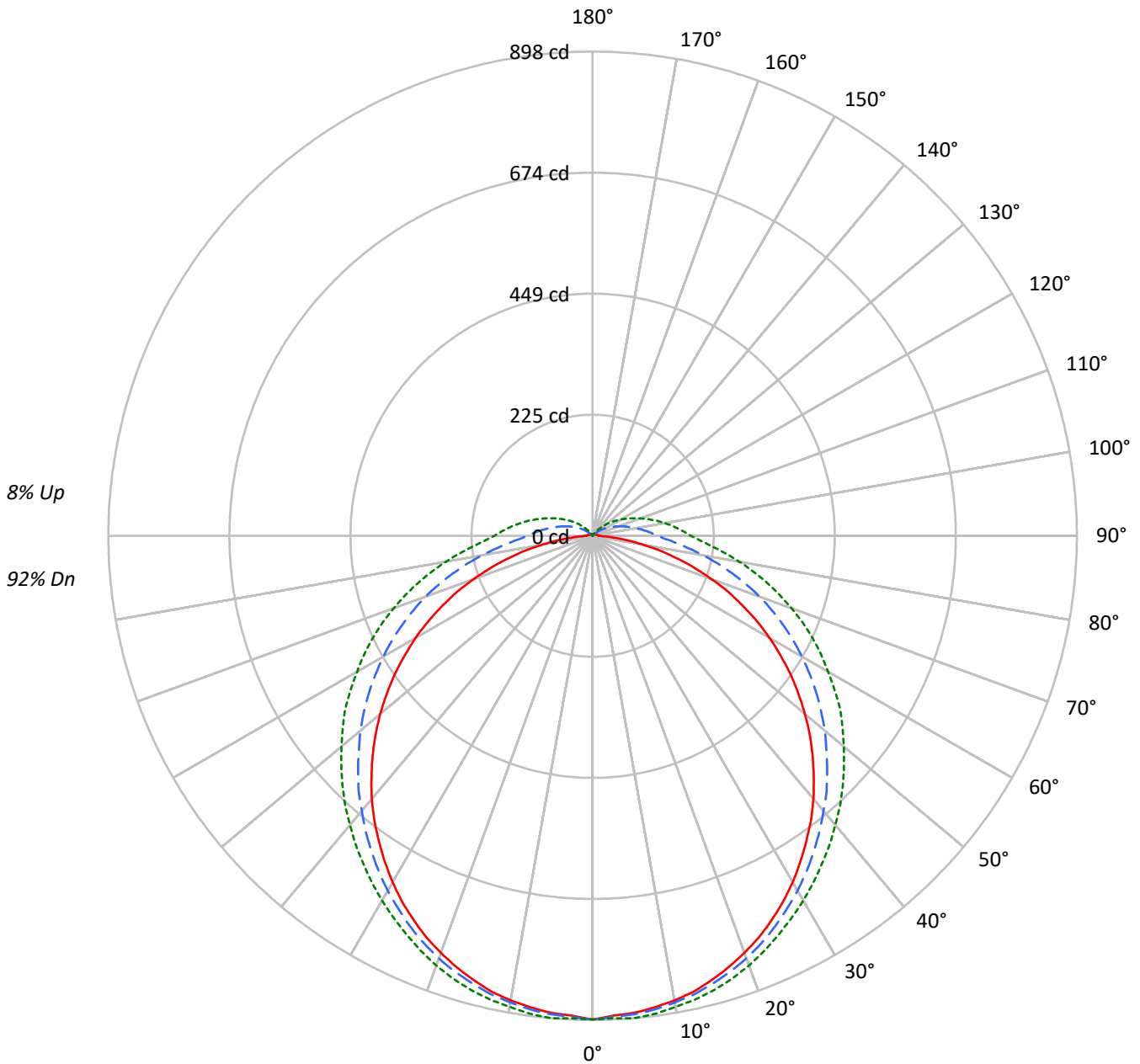
Lumens per Lamp: N/A
Luminaire Lumens: 3127.9 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.08')
CIE Type: Direct

Input Watts (W): 21.3
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

TEST NUMBER: P861192

CATALOG NUMBER: 4APVTLD-SL3C3 LOW POWER 4000K 277V

Luminous Intensity Polar Plot





TEST NUMBER: P861192

CATALOG NUMBER: 4APVTLD-SL3C3 LOW POWER 4000K 277V

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	95	95	95	95	95	95	92
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	78	76	76	76	76	74
2	95	86	78	72	92	83	76	71	78	73	68	74	69	65	70	66	63	63	63	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	54	61	56	52	52	52	52	50
4	79	66	57	50	76	64	56	49	61	53	47	57	51	46	54	49	45	45	45	45	42
5	72	59	49	42	69	57	48	42	54	47	41	51	45	40	49	43	38	38	38	38	36
6	67	53	43	37	64	51	43	36	49	41	35	46	40	35	44	38	34	34	34	34	31
7	62	48	39	32	59	47	38	32	44	37	31	42	35	30	40	34	30	30	30	30	28
8	57	43	35	29	55	42	34	28	40	33	28	39	32	27	37	31	27	27	27	27	25
9	53	40	31	26	52	39	31	26	37	30	25	36	29	24	34	28	24	24	24	24	22
10	50	37	29	23	48	36	28	23	34	27	23	33	27	22	32	26	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3621	3621	3621
5°	3595	3553	3561
10°	3580	3489	3482
15°	3555	3425	3415
20°	3522	3357	3339
25°	3484	3281	3255
30°	3438	3202	3181
35°	3380	3121	3112
40°	3327	3040	3049
45°	3260	2965	2996
50°	3188	2894	2942
55°	3107	2819	2904
60°	3005	2742	2839
65°	2868	2664	2798
70°	2685	2578	2743
75°	2432	2468	2695
80°	2063	2354	2653
85°	1614	2327	2653



TEST NUMBER: P861192

CATALOG NUMBER: 4APVTLD-SL3C3 LOW POWER 4000K 277V

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	2.7
10°-20°	243.6	7.8
20°-30°	369.6	11.8
30°-40°	448.7	14.3
40°-50°	476.2	15.2
50°-60°	451.9	14.4
60°-70°	381.0	12.2
70°-80°	274.0	8.8
80°-90°	162.0	5.2
90°-100°	101.3	3.2
100°-110°	66.1	2.1
110°-120°	38.8	1.2
120°-130°	19.4	0.6
130°-140°	7.2	0.2
140°-150°	2.0	0.1
150°-160°	1.0	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	698.1	22.3
0°-40°	1146.8	36.7
0°-60°	2074.9	66.3
0°-90°	2891.9	92.5
90°-120°	206.3	6.6
90°-150°	234.8	7.5
90°-180°	236.0	7.5
0°-180°	3127.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	897	897	897	897	897	
5°	888	899	891	892	898	84
15°	853	864	860	866	872	241
25°	786	797	800	809	816	362
35°	691	704	715	731	742	433
45°	577	594	615	642	656	445
55°	448	470	506	542	560	400
65°	307	339	389	433	450	304
75°	162	204	267	316	334	172
85°	39	91	156	203	221	44
90°	12	59	120	166	182	8
95°	10	43	100	143	158	8
105°	8	22	65	101	114	8
115°	6	9	39	65	76	6
125°	4	5	18	37	46	4
135°	3	3	4	16	21	2
145°	2	2	3	4	4	1
155°	2	2	2	2	3	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P861192

CATALOG NUMBER: 4APVTL-D-SL3C3 LOW POWER 4000K 277V

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	897	897	897	897	897
2.5°	891	901	893	895	896
5°	888	899	891	892	898
7.5°	882	893	886	887	894
10°	875	886	879	882	887
12.5°	866	876	871	874	881
15°	853	864	860	866	872
17.5°	839	850	848	855	861
20°	823	834	834	840	848
22.5°	806	816	818	825	833
25°	786	797	800	809	816
27.5°	765	776	780	791	799
30°	742	753	760	773	781
32.5°	717	729	738	753	762
35°	691	704	715	731	742
37.5°	665	677	691	710	722
40°	637	650	666	688	700
42.5°	607	623	642	666	679
45°	577	594	615	642	656
47.5°	546	564	588	618	632
50°	514	533	562	593	608
52.5°	481	502	534	568	584
55°	448	470	506	542	560
57.5°	413	438	477	516	532
60°	379	404	448	488	504
62.5°	344	372	419	461	478
65°	307	339	389	433	450
67.5°	273	306	359	404	422
70°	234	272	329	375	392
72.5°	198	239	298	345	363
75°	162	204	267	316	334
77.5°	128	174	237	286	304
80°	94	143	207	258	276
82.5°	64	116	180	230	248
85°	39	91	156	203	221
87.5°	20	72	135	182	199
90°	12	59	120	166	182
92.5°	11	50	110	154	170
95°	10	43	100	143	158
97.5°	9	37	90	132	147
100°	9	31	81	121	135
102.5°	8	26	73	110	125
105°	8	22	65	101	114



TEST NUMBER: P861192

CATALOG NUMBER: 4APVTLD-SL3C3 LOW POWER 4000K 277V

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6	12	45	74	85
115°	6	9	39	65	76
117.5°	6	7	33	58	68
120°	5	6	28	51	60
122.5°	5	5	23	44	53
125°	4	5	18	37	46
127.5°	3	4	14	31	39
130°	3	4	10	26	33
132.5°	3	3	7	20	27
135°	3	3	4	16	21
137.5°	3	3	4	11	16
140°	2	3	3	7	11
142.5°	2	2	3	4	7
145°	2	2	3	4	4
147.5°	2	2	2	3	3
150°	2	2	2	3	3
152.5°	2	2	2	3	3
155°	2	2	2	2	3
157.5°	2	2	2	2	2
160°	2	2	2	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	18	58	91	104
110°	7	15	51	82	94



(END OF REPORT)