

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: P835652

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-5STD-35-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835652
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-OPL-LD4-5STD-35-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

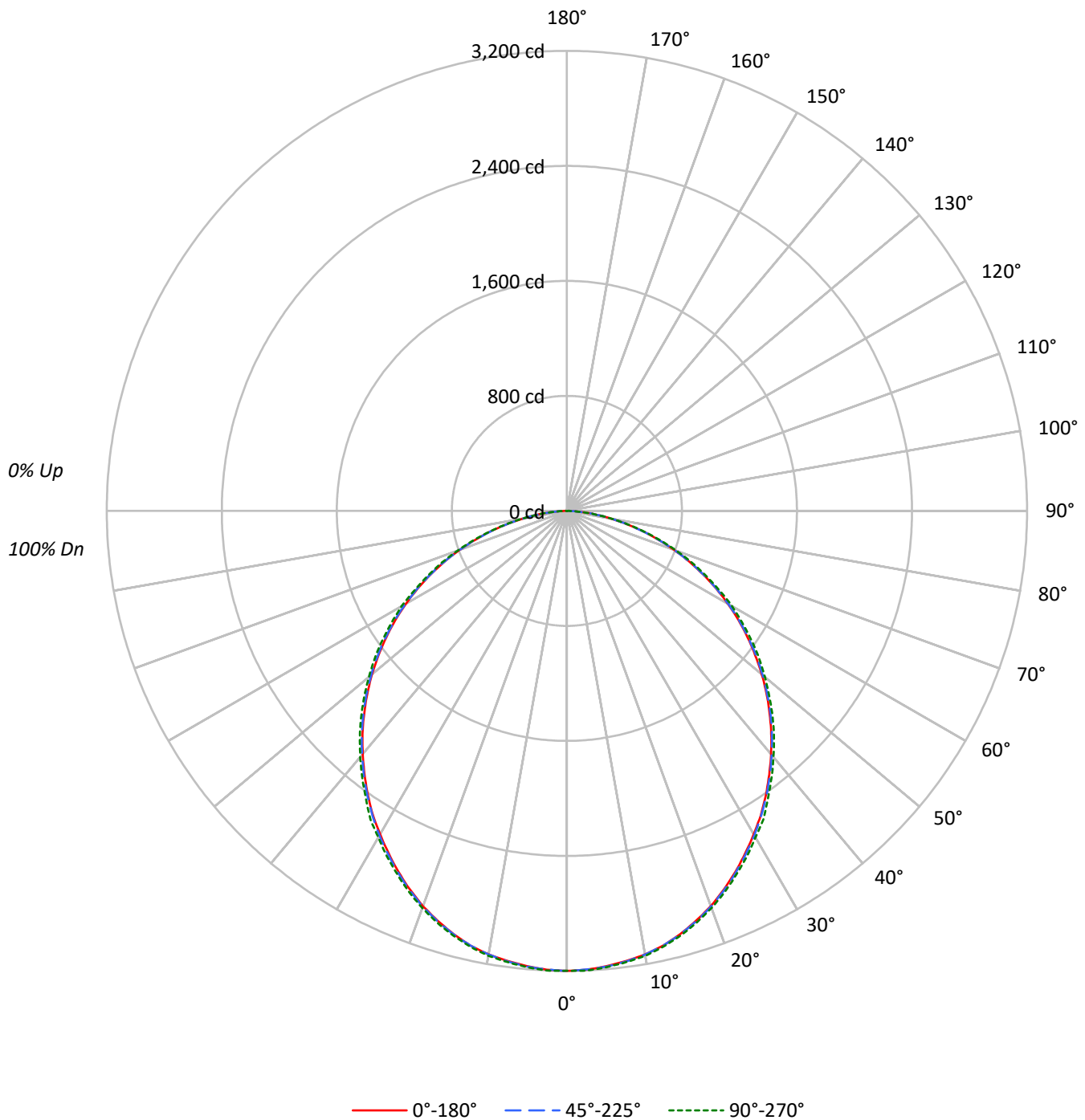
Lumens per Lamp: N/A
Luminaire Lumens: 8645.4 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 83.2
Input Voltage (V): 120
Input Current (Ain): 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: 28.75 FT

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Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8610	8610	8610
5°	8587	8594	8605
10°	8560	8562	8587
15°	8489	8495	8518
20°	8379	8388	8419
25°	8227	8247	8284
30°	8073	8099	8149
35°	7925	7945	8008
40°	7758	7784	7854
45°	7588	7621	7699
50°	7405	7438	7524
55°	7195	7229	7347
60°	6956	6984	7141
65°	6651	6673	6799
70°	6244	6249	6385
75°	5675	5654	5785
80°	4877	4855	4937
85°	3782	3724	3742

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.3	3.5
10°-20°	860.0	9.9
20°-30°	1280.3	14.8
30°-40°	1514.1	17.5
40°-50°	1545.7	17.9
50°-60°	1379.4	16.0
60°-70°	1039.0	12.0
70°-80°	579.4	6.7
80°-90°	145.2	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2442.7	28.3
0°-40°	3956.8	45.8
0°-60°	6881.9	79.6
0°-90°	8645.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8645.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3200	3200	3200	3200	3200	
5°	3179	3185	3182	3182	3186	302
15°	3047	3050	3049	3052	3058	859
25°	2771	2774	2778	2785	2790	1277
35°	2412	2410	2418	2428	2438	1509
45°	1994	1993	2002	2012	2023	1538
55°	1534	1532	1541	1551	1566	1371
65°	1045	1041	1048	1057	1068	1033
75°	546	541	544	546	556	579
85°	122	119	121	119	121	147
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3199.5	3199.5	3199.5	3199.5	3199.5
2.5°	3194.2	3199.5	3192.9	3194.2	3200.2
5°	3179.0	3184.9	3181.6	3182.3	3185.6
7.5°	3157.8	3165.7	3161.1	3162.4	3165.7
10°	3132.6	3138.6	3133.3	3136.6	3142.5
12.5°	3096.8	3099.5	3096.8	3098.2	3104.8
15°	3047.1	3050.5	3049.1	3051.8	3057.7
17.5°	2988.9	2992.8	2992.2	2997.5	3002.1
20°	2925.9	2926.6	2929.2	2934.5	2939.8
22.5°	2851.7	2853.7	2856.4	2863.7	2869.0
25°	2770.9	2774.2	2777.5	2784.8	2790.1
27.5°	2685.5	2688.8	2693.4	2701.4	2710.0
30°	2598.0	2598.0	2606.6	2614.6	2622.5
32.5°	2509.9	2506.6	2514.6	2524.5	2543.7
35°	2412.5	2409.9	2418.5	2427.8	2437.7
37.5°	2311.2	2309.2	2319.1	2329.1	2338.4
40°	2208.5	2205.9	2215.8	2225.7	2235.7
42.5°	2103.2	2101.9	2111.1	2121.1	2131.7
45°	1993.9	1993.2	2002.5	2012.4	2023.0
47.5°	1882.6	1881.3	1890.6	1901.2	1910.4
50°	1768.7	1767.3	1776.6	1787.2	1797.2
52.5°	1651.4	1651.4	1660.0	1669.3	1684.5
55°	1533.5	1531.5	1540.8	1551.4	1566.0
57.5°	1414.3	1411.6	1420.2	1430.8	1444.1
60°	1292.4	1289.7	1297.7	1308.3	1326.8
62.5°	1169.2	1165.2	1173.2	1183.1	1194.3
65°	1044.6	1040.7	1048.0	1057.2	1067.8
67.5°	919.4	914.8	922.1	930.0	940.0
70°	793.6	788.9	794.2	802.2	811.5
72.5°	668.4	663.7	668.4	671.7	683.0
75°	545.8	541.2	543.8	546.5	556.4
77.5°	426.6	422.0	427.3	428.6	434.5
80°	314.7	310.0	313.3	314.0	318.6
82.5°	212.6	208.7	213.3	210.0	214.0
85°	122.5	119.2	120.6	119.2	121.2
87.5°	48.4	45.7	46.4	43.7	43.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)