

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: P835634

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-5STD-30-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835634
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-30-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

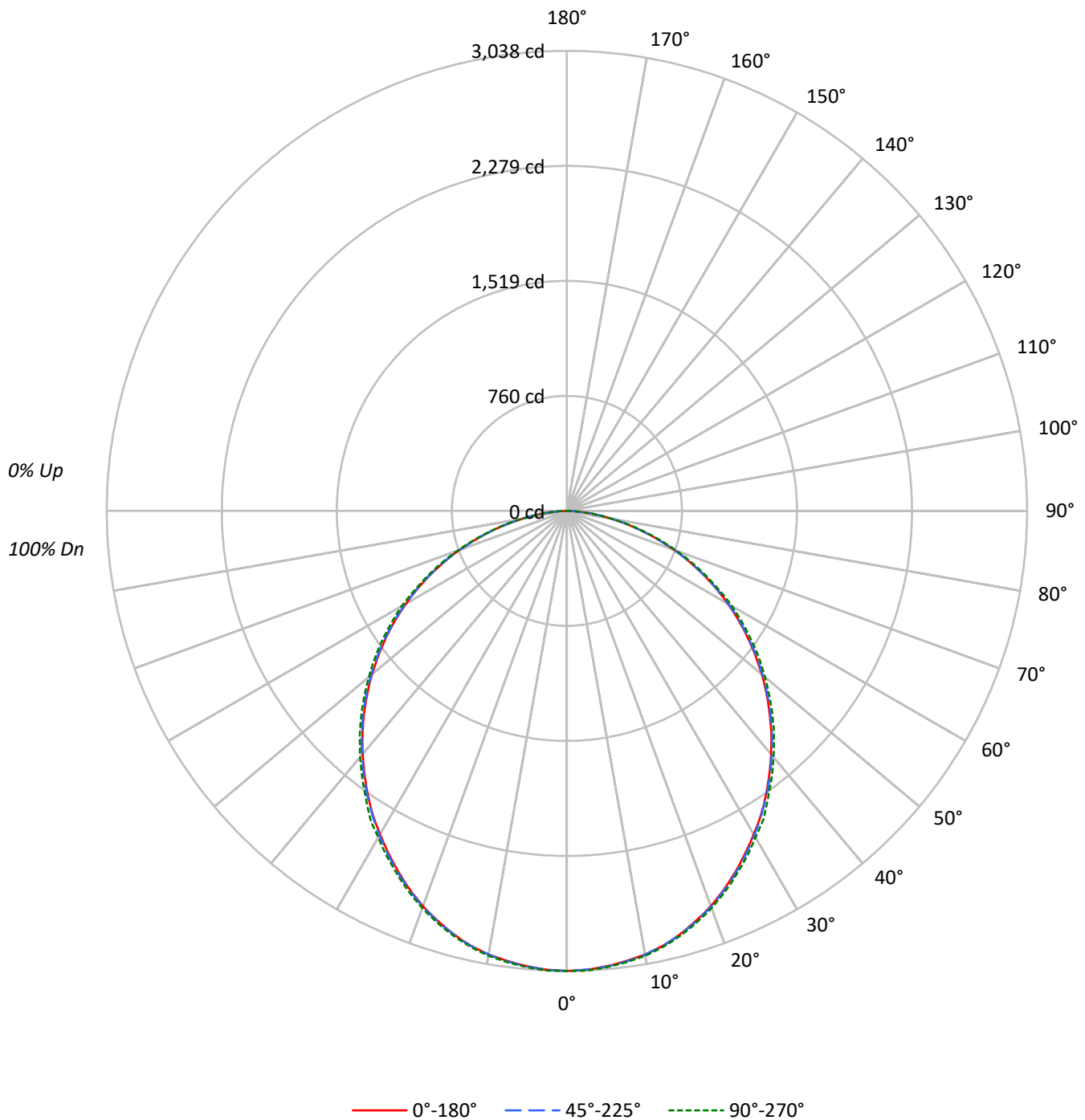
Lumens per Lamp: N/A
Luminaire Lumens: 8208.8 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	100		
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59		
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51		
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44		
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38		
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8175	8175	8175
5°	8153	8160	8170
10°	8128	8129	8153
15°	8060	8065	8088
20°	7956	7965	7994
25°	7812	7831	7866
30°	7665	7691	7737
35°	7525	7544	7604
40°	7366	7391	7457
45°	7205	7236	7310
50°	7030	7062	7144
55°	6831	6864	6976
60°	6604	6631	6780
65°	6316	6336	6456
70°	5928	5933	6062
75°	5389	5369	5493
80°	4630	4610	4688
85°	3594	3535	3554

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.1	3.5
10°-20°	816.6	9.9
20°-30°	1215.6	14.8
30°-40°	1437.6	17.5
40°-50°	1467.6	17.9
50°-60°	1309.8	16.0
60°-70°	986.5	12.0
70°-80°	550.2	6.7
80°-90°	137.8	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°	2319.3	28.3
0°-40°	3756.9	45.8
0°-60°	6534.3	79.6
0°-90°	8208.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8208.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3038	3038	3038	3038	3038	
5°	3018	3024	3021	3022	3025	287
15°	2893	2896	2895	2898	2903	815
25°	2631	2634	2637	2644	2649	1212
35°	2291	2288	2296	2305	2315	1432
45°	1893	1893	1901	1911	1921	1460
55°	1456	1454	1463	1473	1487	1302
65°	992	988	995	1004	1014	981
75°	518	514	516	519	528	549
85°	116	113	114	113	115	140
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3037.9	3037.9	3037.9	3037.9	3037.9
2.5°	3032.9	3037.9	3031.6	3032.9	3038.5
5°	3018.4	3024.1	3020.9	3021.6	3024.7
7.5°	2998.3	3005.8	3001.4	3002.7	3005.8
10°	2974.4	2980.0	2975.0	2978.2	2983.8
12.5°	2940.4	2942.9	2940.4	2941.7	2948.0
15°	2893.3	2896.4	2895.1	2897.7	2903.3
17.5°	2837.9	2841.7	2841.0	2846.1	2850.5
20°	2778.2	2778.8	2781.3	2786.3	2791.4
22.5°	2707.7	2709.6	2712.1	2719.0	2724.1
25°	2631.0	2634.1	2637.3	2644.2	2649.2
27.5°	2549.8	2553.0	2557.4	2564.9	2573.1
30°	2466.8	2466.8	2475.0	2482.5	2490.1
32.5°	2383.2	2380.0	2387.6	2397.0	2415.2
35°	2290.7	2288.2	2296.4	2305.2	2314.6
37.5°	2194.5	2192.6	2202.0	2211.5	2220.3
40°	2097.0	2094.5	2103.9	2113.3	2122.8
42.5°	1997.0	1995.7	2004.5	2014.0	2024.0
45°	1893.2	1892.6	1901.4	1910.8	1920.9
47.5°	1787.5	1786.3	1795.1	1805.1	1813.9
50°	1679.3	1678.1	1686.9	1697.0	1706.4
52.5°	1568.0	1568.0	1576.2	1585.0	1599.5
55°	1456.1	1454.2	1463.0	1473.0	1486.9
57.5°	1342.8	1340.3	1348.5	1358.6	1371.1
60°	1227.1	1224.6	1232.1	1242.2	1259.8
62.5°	1110.1	1106.4	1113.9	1123.3	1134.0
65°	991.9	988.1	995.0	1003.8	1013.9
67.5°	873.0	868.6	875.5	883.1	892.5
70°	753.5	749.1	754.1	761.7	770.5
72.5°	634.6	630.2	634.6	637.8	648.5
75°	518.3	513.9	516.4	518.9	528.3
77.5°	405.1	400.7	405.7	406.9	412.6
80°	298.8	294.4	297.5	298.1	302.5
82.5°	201.9	198.1	202.5	199.4	203.2
85°	116.4	113.2	114.5	113.2	115.1
87.5°	45.9	43.4	44.0	41.5	41.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)