

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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: P834946

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-4LO-20-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834946
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-OPL-LD4-4LO-20-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

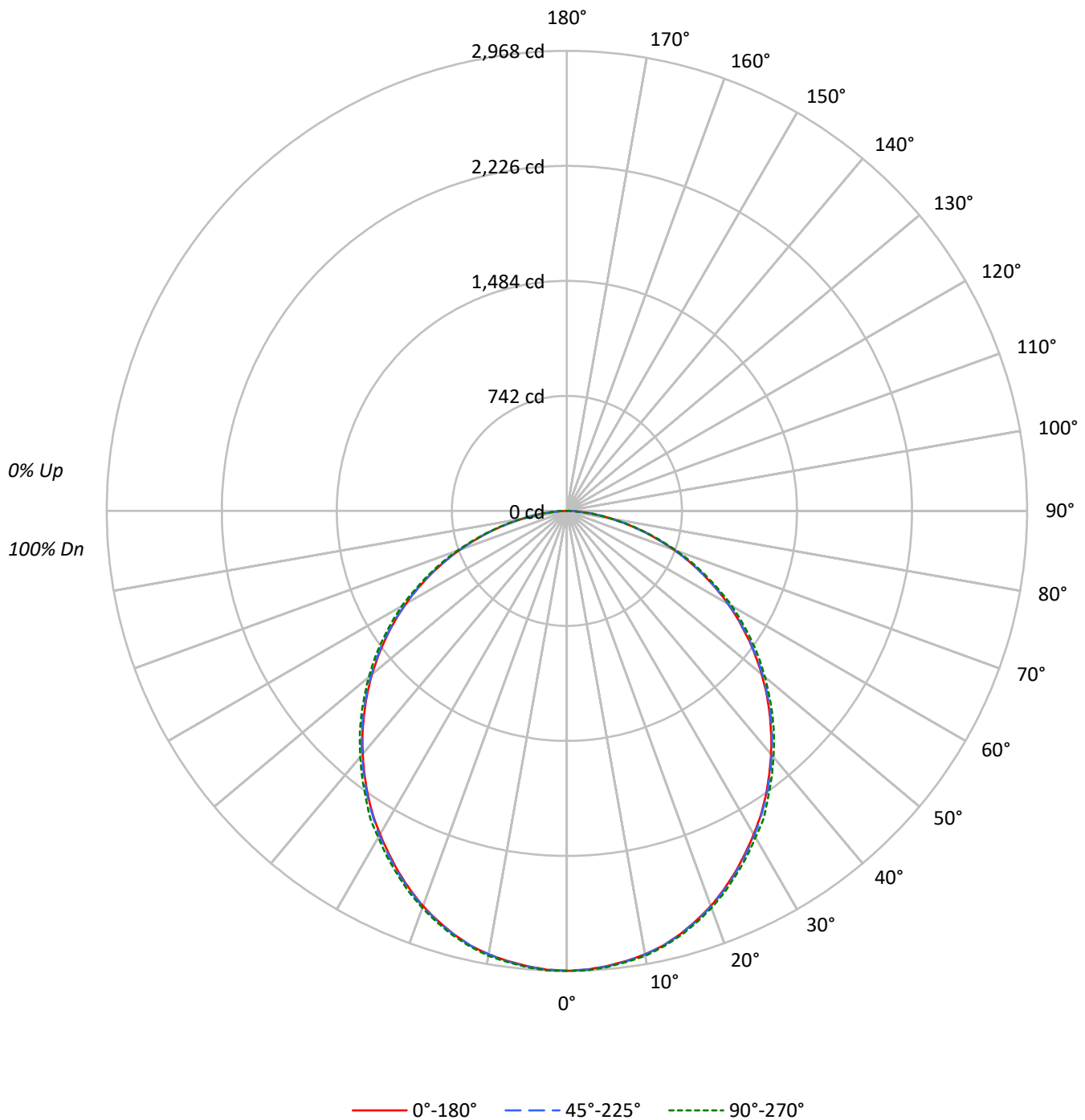
Lumens per Lamp: N/A
Luminaire Lumens: 8017.4 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3992	3992	3992
5°	3982	3985	3990
10°	3969	3970	3982
15°	3936	3939	3950
20°	3885	3890	3904
25°	3815	3824	3841
30°	3743	3756	3778
35°	3675	3684	3713
40°	3597	3609	3642
45°	3518	3534	3570
50°	3433	3449	3489
55°	3336	3352	3407
60°	3225	3238	3311
65°	3084	3094	3153
70°	2895	2898	2960
75°	2632	2622	2682
80°	2261	2252	2290
85°	1754	1726	1735

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Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.4	3.5
10°-20°	797.6	9.9
20°-30°	1187.3	14.8
30°-40°	1404.1	17.5
40°-50°	1433.4	17.9
50°-60°	1279.2	16.0
60°-70°	963.5	12.0
70°-80°	537.3	6.7
80°-90°	134.6	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°	2265.2	28.3
0°-40°	3669.3	45.8
0°-60°	6382.0	79.6
0°-90°	8017.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8017.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2967	2967	2967	2967	2967	
5°	2948	2954	2950	2951	2954	280
15°	2826	2829	2828	2830	2836	796
25°	2570	2573	2576	2582	2588	1184
35°	2237	2235	2243	2251	2261	1399
45°	1849	1848	1857	1866	1876	1426
55°	1422	1420	1429	1439	1452	1271
65°	969	965	972	980	990	958
75°	506	502	504	507	516	537
85°	114	111	112	111	112	136
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2967.1	2967.1	2967.1	2967.1	2967.1
2.5°	2962.2	2967.1	2961.0	2962.2	2967.7
5°	2948.1	2953.6	2950.5	2951.1	2954.2
7.5°	2928.4	2935.8	2931.5	2932.7	2935.8
10°	2905.1	2910.6	2905.7	2908.7	2914.3
12.5°	2871.9	2874.3	2871.9	2873.1	2879.3
15°	2825.8	2828.9	2827.7	2830.1	2835.6
17.5°	2771.8	2775.4	2774.8	2779.7	2784.0
20°	2713.4	2714.0	2716.5	2721.4	2726.3
22.5°	2644.6	2646.4	2648.9	2655.6	2660.6
25°	2569.6	2572.7	2575.8	2582.5	2587.5
27.5°	2490.4	2493.5	2497.8	2505.1	2513.1
30°	2409.3	2409.3	2417.3	2424.7	2432.0
32.5°	2327.6	2324.5	2331.9	2341.1	2358.9
35°	2237.3	2234.8	2242.8	2251.4	2260.6
37.5°	2143.3	2141.5	2150.7	2159.9	2168.5
40°	2048.1	2045.6	2054.9	2064.1	2073.3
42.5°	1950.4	1949.2	1957.8	1967.0	1976.8
45°	1849.1	1848.4	1857.1	1866.3	1876.1
47.5°	1745.9	1744.6	1753.2	1763.1	1771.7
50°	1640.2	1639.0	1647.6	1657.4	1666.6
52.5°	1531.5	1531.5	1539.5	1548.1	1562.2
55°	1422.1	1420.3	1428.9	1438.7	1452.2
57.5°	1311.5	1309.1	1317.1	1326.9	1339.2
60°	1198.5	1196.1	1203.4	1213.3	1230.5
62.5°	1084.3	1080.6	1087.9	1097.2	1107.6
65°	968.8	965.1	971.8	980.4	990.3
67.5°	852.7	848.4	855.1	862.5	871.7
70°	735.9	731.6	736.6	743.9	752.5
72.5°	619.8	615.5	619.8	622.9	633.4
75°	506.2	501.9	504.3	506.8	516.0
77.5°	395.6	391.3	396.2	397.5	403.0
80°	291.8	287.5	290.6	291.2	295.5
82.5°	197.2	193.5	197.8	194.7	198.4
85°	113.6	110.6	111.8	110.6	112.4
87.5°	44.8	42.4	43.0	40.5	40.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)