

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: P835013

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-2STD-40-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835013
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-LD4-2STD-40-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

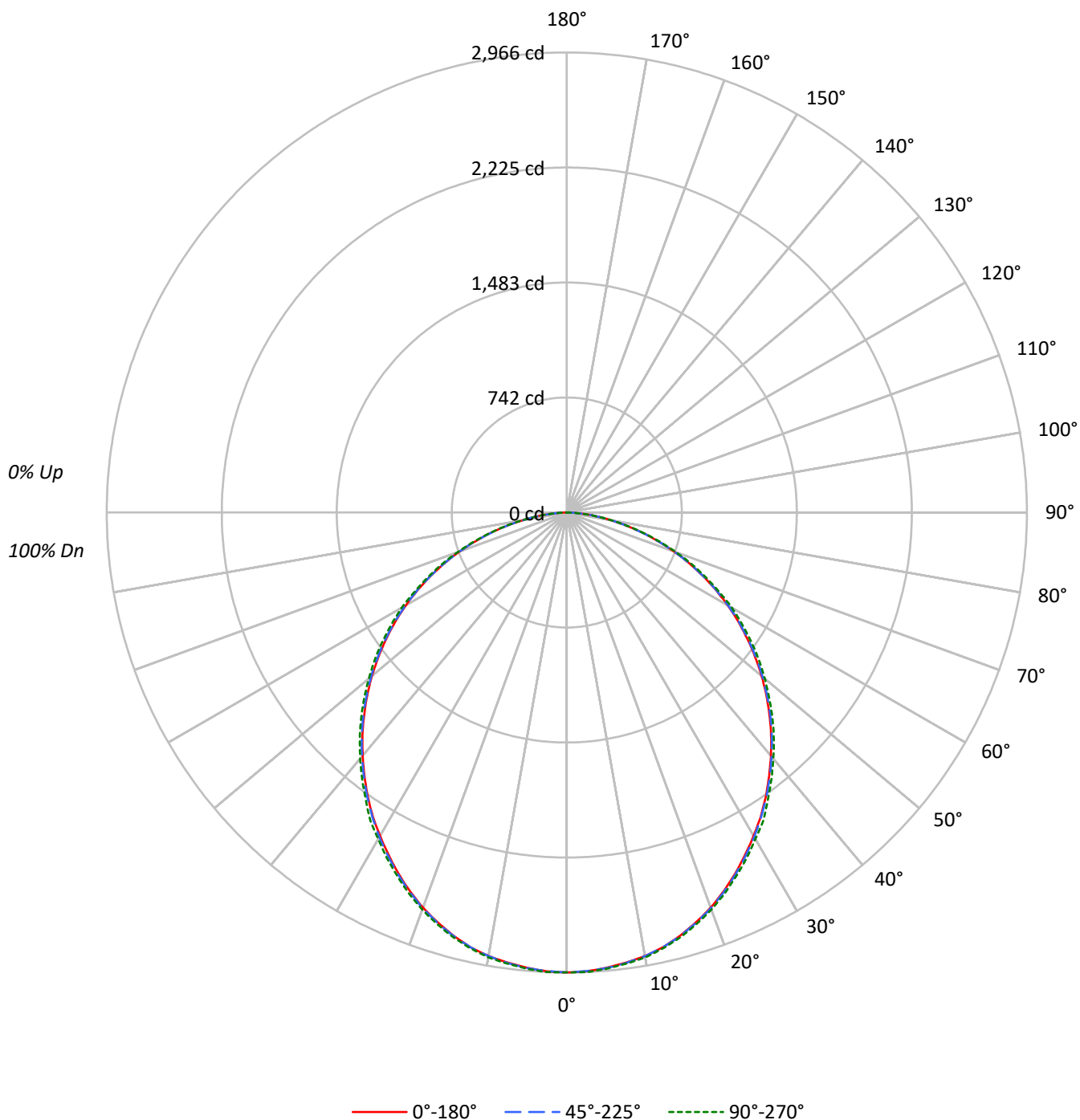
Lumens per Lamp: N/A
Luminaire Lumens: 8012.6 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3990	3990	3990
5°	3979	3983	3988
10°	3967	3967	3979
15°	3934	3936	3947
20°	3883	3887	3901
25°	3813	3822	3839
30°	3741	3753	3776
35°	3673	3682	3711
40°	3595	3607	3639
45°	3516	3531	3568
50°	3431	3447	3486
55°	3334	3350	3404
60°	3223	3236	3309
65°	3082	3092	3151
70°	2893	2896	2959
75°	2630	2620	2681
80°	2259	2250	2288
85°	1754	1724	1734

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.2	3.5
10°-20°	797.1	9.9
20°-30°	1186.6	14.8
30°-40°	1403.3	17.5
40°-50°	1432.5	17.9
50°-60°	1278.4	16.0
60°-70°	962.9	12.0
70°-80°	537.0	6.7
80°-90°	134.5	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°	2263.9	28.3
0°-40°	3667.1	45.8
0°-60°	6378.1	79.6
0°-90°	8012.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8012.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2965	2965	2965	2965	2965	
5°	2946	2952	2949	2949	2952	280
15°	2824	2827	2826	2828	2834	796
25°	2568	2571	2574	2581	2586	1183
35°	2236	2234	2242	2250	2259	1398
45°	1848	1847	1856	1865	1875	1425
55°	1421	1419	1428	1438	1451	1270
65°	968	964	971	980	990	958
75°	506	502	504	506	516	536
85°	114	110	112	110	112	136
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2965.3	2965.3	2965.3	2965.3	2965.3
2.5°	2960.4	2965.3	2959.2	2960.4	2965.9
5°	2946.3	2951.8	2948.7	2949.3	2952.4
7.5°	2926.6	2934.0	2929.7	2930.9	2934.0
10°	2903.3	2908.8	2903.9	2907.0	2912.5
12.5°	2870.1	2872.6	2870.1	2871.4	2877.5
15°	2824.1	2827.2	2825.9	2828.4	2833.9
17.5°	2770.1	2773.8	2773.1	2778.1	2782.3
20°	2711.7	2712.4	2714.8	2719.7	2724.6
22.5°	2643.0	2644.8	2647.3	2654.0	2658.9
25°	2568.1	2571.2	2574.2	2581.0	2585.9
27.5°	2488.9	2492.0	2496.3	2503.6	2511.6
30°	2407.8	2407.8	2415.8	2423.2	2430.6
32.5°	2326.2	2323.1	2330.5	2339.7	2357.5
35°	2235.9	2233.5	2241.5	2250.1	2259.3
37.5°	2142.0	2140.2	2149.4	2158.6	2167.2
40°	2046.9	2044.4	2053.6	2062.8	2072.0
42.5°	1949.2	1948.0	1956.6	1965.8	1975.6
45°	1847.9	1847.3	1855.9	1865.1	1875.0
47.5°	1744.8	1743.6	1752.2	1762.0	1770.6
50°	1639.2	1638.0	1646.6	1656.4	1665.6
52.5°	1530.5	1530.5	1538.5	1547.1	1561.2
55°	1421.3	1419.4	1428.0	1437.8	1451.3
57.5°	1310.7	1308.3	1316.3	1326.1	1338.4
60°	1197.8	1195.3	1202.7	1212.5	1229.7
62.5°	1083.6	1079.9	1087.3	1096.5	1106.9
65°	968.2	964.5	971.2	979.8	989.7
67.5°	852.1	847.8	854.6	862.0	871.2
70°	735.5	731.2	736.1	743.5	752.1
72.5°	619.5	615.2	619.5	622.5	633.0
75°	505.9	501.6	504.0	506.5	515.7
77.5°	395.4	391.1	396.0	397.2	402.7
80°	291.6	287.3	290.4	291.0	295.3
82.5°	197.1	193.4	197.7	194.6	198.3
85°	113.6	110.5	111.7	110.5	112.3
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)