

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: P835139

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-2STD-50-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835139
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-50-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

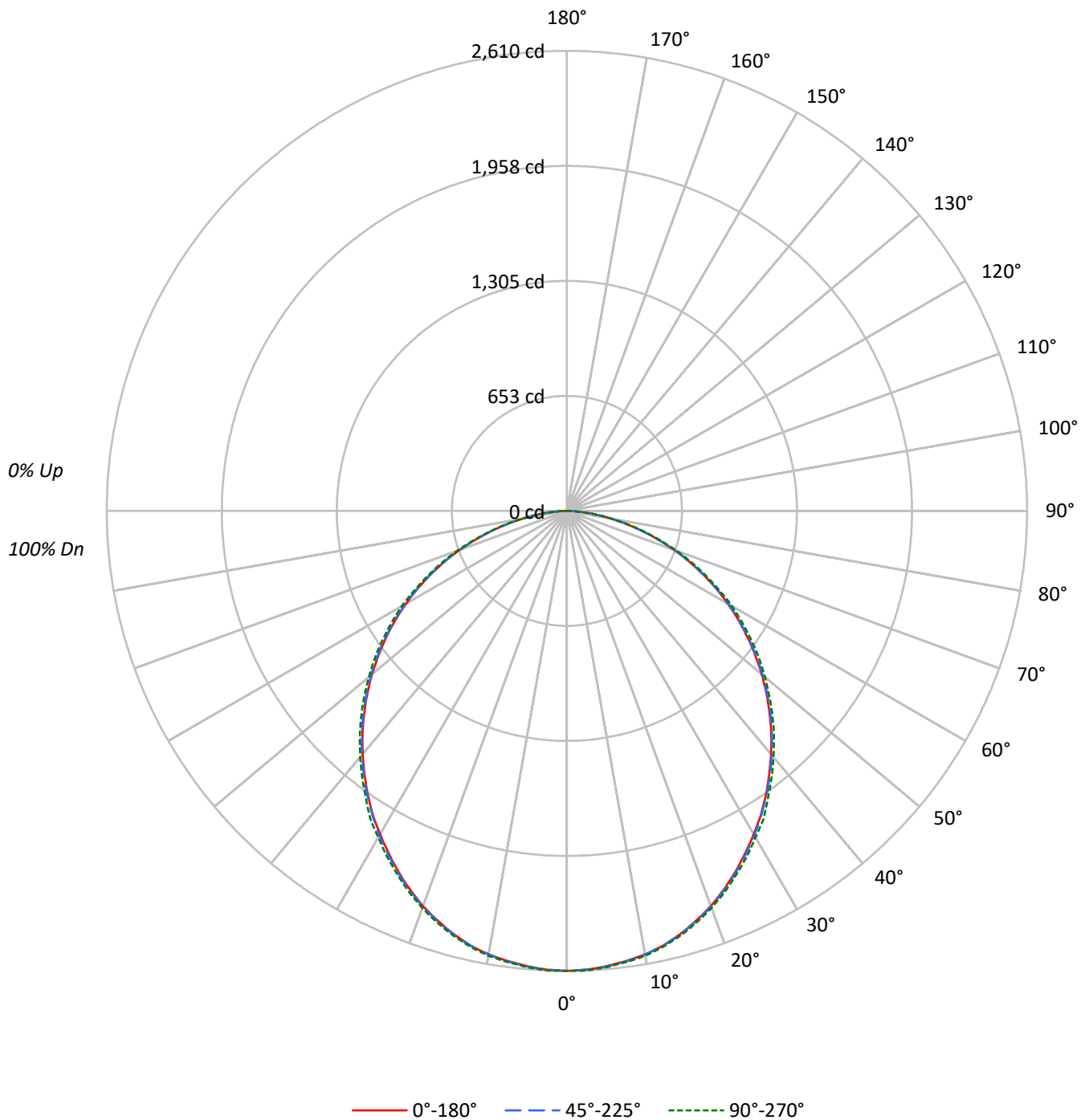
Lumens per Lamp: N/A
Luminaire Lumens: 7051.1 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
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°	3511	3511	3511
5°	3502	3505	3509
10°	3491	3491	3502
15°	3462	3464	3474
20°	3417	3421	3433
25°	3355	3363	3378
30°	3292	3303	3323
35°	3232	3240	3266
40°	3164	3174	3203
45°	3094	3108	3140
50°	3019	3033	3068
55°	2934	2948	2996
60°	2837	2848	2912
65°	2713	2721	2773
70°	2546	2548	2603
75°	2314	2306	2359
80°	1988	1980	2014
85°	1542	1518	1527



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.6	3.5
10°-20°	701.4	9.9
20°-30°	1044.2	14.8
30°-40°	1234.9	17.5
40°-50°	1260.6	17.9
50°-60°	1125.0	16.0
60°-70°	847.4	12.0
70°-80°	472.6	6.7
80°-90°	118.4	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°	1992.2	28.3
0°-40°	3227.1	45.8
0°-60°	5612.8	79.6
0°-90°	7051.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7051.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2610	2610	2610	2610	2610	
5°	2593	2598	2595	2595	2598	246
15°	2485	2488	2487	2489	2494	700
25°	2260	2263	2265	2271	2276	1041
35°	1968	1966	1972	1980	1988	1230
45°	1626	1626	1633	1641	1650	1254
55°	1251	1249	1257	1265	1277	1118
65°	852	849	855	862	871	843
75°	445	441	444	446	454	472
85°	100	97	98	97	99	120
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2609.5	2609.5	2609.5	2609.5	2609.5
2.5°	2605.1	2609.5	2604.1	2605.1	2610.0
5°	2592.7	2597.6	2594.9	2595.4	2598.1
7.5°	2575.4	2581.9	2578.1	2579.2	2581.9
10°	2554.9	2559.8	2555.4	2558.1	2563.0
12.5°	2525.7	2527.9	2525.7	2526.8	2532.2
15°	2485.2	2487.9	2486.8	2489.0	2493.8
17.5°	2437.7	2440.9	2440.4	2444.7	2448.5
20°	2386.3	2386.9	2389.0	2393.4	2397.7
22.5°	2325.8	2327.4	2329.6	2335.6	2339.9
25°	2259.9	2262.6	2265.3	2271.3	2275.6
27.5°	2190.2	2192.9	2196.7	2203.2	2210.2
30°	2118.9	2118.9	2125.9	2132.4	2138.9
32.5°	2047.1	2044.4	2050.8	2058.9	2074.6
35°	1967.6	1965.5	1972.5	1980.1	1988.2
37.5°	1885.0	1883.4	1891.5	1899.6	1907.1
40°	1801.2	1799.1	1807.2	1815.3	1823.4
42.5°	1715.3	1714.3	1721.8	1729.9	1738.6
45°	1626.2	1625.6	1633.2	1641.3	1650.0
47.5°	1535.4	1534.3	1541.9	1550.6	1558.1
50°	1442.5	1441.4	1449.0	1457.6	1465.7
52.5°	1346.9	1346.9	1353.9	1361.5	1373.9
55°	1250.7	1249.1	1256.6	1265.3	1277.2
57.5°	1153.5	1151.3	1158.3	1167.0	1177.8
60°	1054.1	1051.9	1058.4	1067.0	1082.1
62.5°	953.6	950.3	956.8	964.9	974.1
65°	852.0	848.8	854.7	862.3	870.9
67.5°	749.9	746.1	752.0	758.5	766.6
70°	647.2	643.5	647.8	654.3	661.8
72.5°	545.1	541.3	545.1	547.8	557.0
75°	445.2	441.4	443.6	445.7	453.8
77.5°	347.9	344.1	348.5	349.5	354.4
80°	256.6	252.8	255.5	256.1	259.9
82.5°	173.4	170.2	174.0	171.3	174.5
85°	99.9	97.2	98.3	97.2	98.9
87.5°	39.4	37.3	37.8	35.7	35.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)