

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: P835614

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-4HI-27-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835614
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-LD4-4HI-27-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

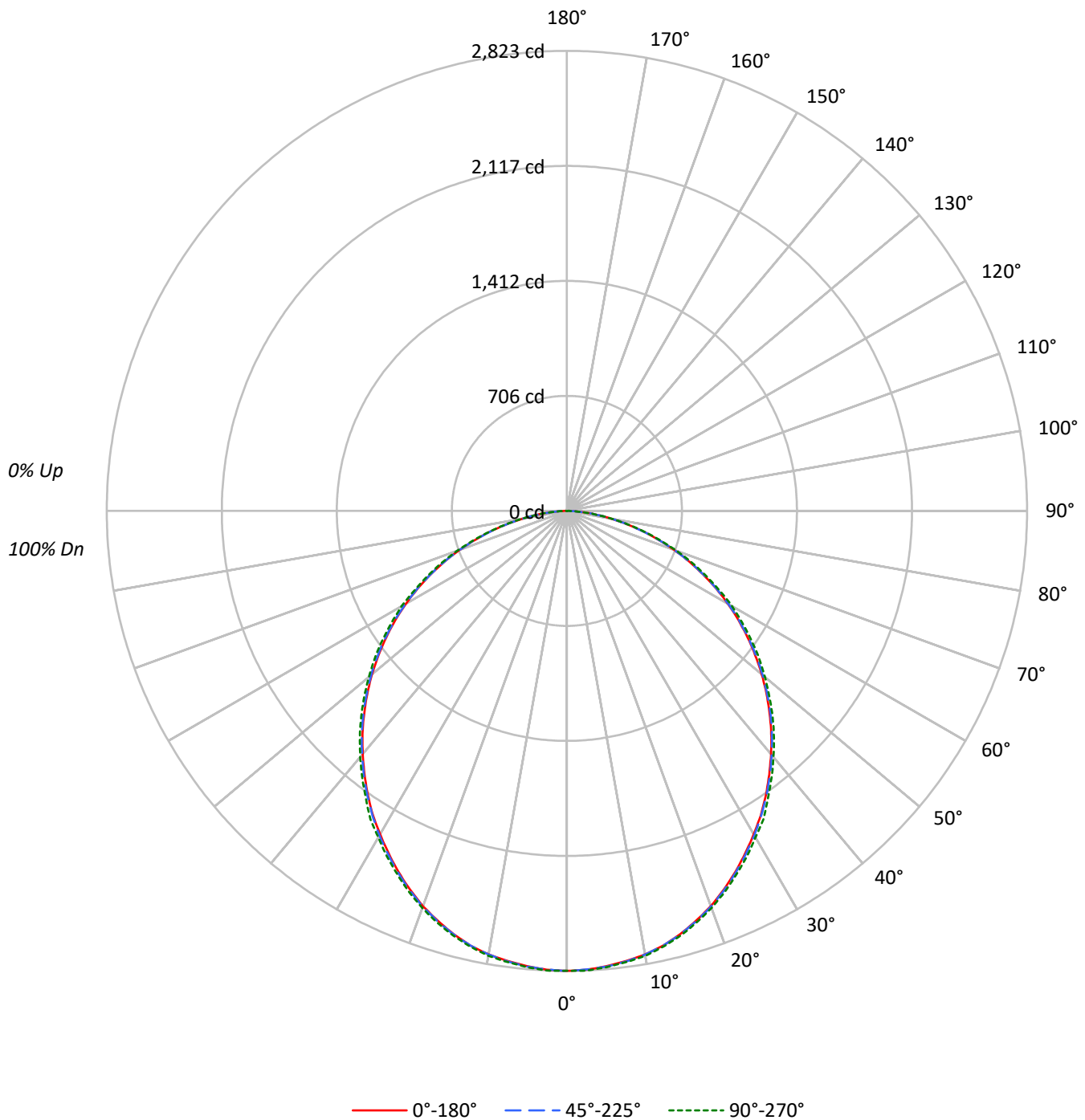
Lumens per Lamp: N/A
Luminaire Lumens: 7626.5 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 88
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°	7595	7595	7595
5°	7575	7581	7591
10°	7551	7553	7575
15°	7489	7494	7515
20°	7391	7400	7426
25°	7258	7275	7308
30°	7121	7145	7188
35°	6991	7009	7064
40°	6844	6866	6928
45°	6694	6723	6792
50°	6532	6561	6637
55°	6347	6377	6481
60°	6136	6161	6300
65°	5868	5886	5998
70°	5508	5512	5632
75°	5006	4989	5104
80°	4302	4283	4356
85°	3338	3285	3301

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.7	3.5
10°-20°	758.7	9.9
20°-30°	1129.4	14.8
30°-40°	1335.6	17.5
40°-50°	1363.5	17.9
50°-60°	1216.8	16.0
60°-70°	916.5	12.0
70°-80°	511.1	6.7
80°-90°	128.1	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°	2154.8	28.3
0°-40°	3490.4	45.8
0°-60°	6070.8	79.6
0°-90°	7626.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7626.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2822	2822	2822	2822	2822	
5°	2804	2810	2807	2807	2810	266
15°	2688	2691	2690	2692	2697	758
25°	2444	2447	2450	2457	2461	1126
35°	2128	2126	2134	2142	2150	1331
45°	1759	1758	1766	1775	1785	1357
55°	1353	1351	1359	1368	1381	1209
65°	922	918	924	933	942	911
75°	482	477	480	482	491	510
85°	108	105	106	105	107	130
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2822.4	2822.4	2822.4	2822.4	2822.4
2.5°	2817.7	2822.4	2816.6	2817.7	2823.0
5°	2804.3	2809.6	2806.6	2807.2	2810.1
7.5°	2785.6	2792.6	2788.5	2789.7	2792.6
10°	2763.4	2768.6	2764.0	2766.9	2772.2
12.5°	2731.8	2734.2	2731.8	2733.0	2738.8
15°	2688.0	2690.9	2689.8	2692.1	2697.4
17.5°	2636.6	2640.1	2639.5	2644.2	2648.3
20°	2581.1	2581.7	2584.0	2588.7	2593.3
22.5°	2515.6	2517.4	2519.7	2526.1	2530.8
25°	2444.3	2447.3	2450.2	2456.6	2461.3
27.5°	2369.0	2371.9	2376.0	2383.0	2390.6
30°	2291.8	2291.8	2299.4	2306.4	2313.4
32.5°	2214.1	2211.2	2218.2	2227.0	2243.9
35°	2128.2	2125.9	2133.5	2141.6	2150.4
37.5°	2038.8	2037.0	2045.8	2054.6	2062.8
40°	1948.2	1945.9	1954.6	1963.4	1972.2
42.5°	1855.3	1854.1	1862.3	1871.1	1880.4
45°	1758.9	1758.3	1766.5	1775.3	1784.6
47.5°	1660.7	1659.6	1667.7	1677.1	1685.3
50°	1560.2	1559.0	1567.2	1576.6	1585.3
52.5°	1456.8	1456.8	1464.4	1472.6	1486.0
55°	1352.8	1351.0	1359.2	1368.5	1381.4
57.5°	1247.6	1245.2	1252.8	1262.2	1273.9
60°	1140.1	1137.7	1144.7	1154.1	1170.5
62.5°	1031.4	1027.9	1034.9	1043.6	1053.6
65°	921.5	918.0	924.4	932.6	942.0
67.5°	811.1	807.0	813.4	820.4	829.2
70°	700.1	696.0	700.6	707.6	715.8
72.5°	589.6	585.5	589.6	592.5	602.5
75°	481.5	477.4	479.8	482.1	490.9
77.5°	376.3	372.2	376.9	378.1	383.3
80°	277.6	273.5	276.4	277.0	281.1
82.5°	187.6	184.1	188.2	185.2	188.7
85°	108.1	105.2	106.4	105.2	106.9
87.5°	42.7	40.3	40.9	38.6	38.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)