

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: P835760

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-5STD-35-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835760
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-35-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

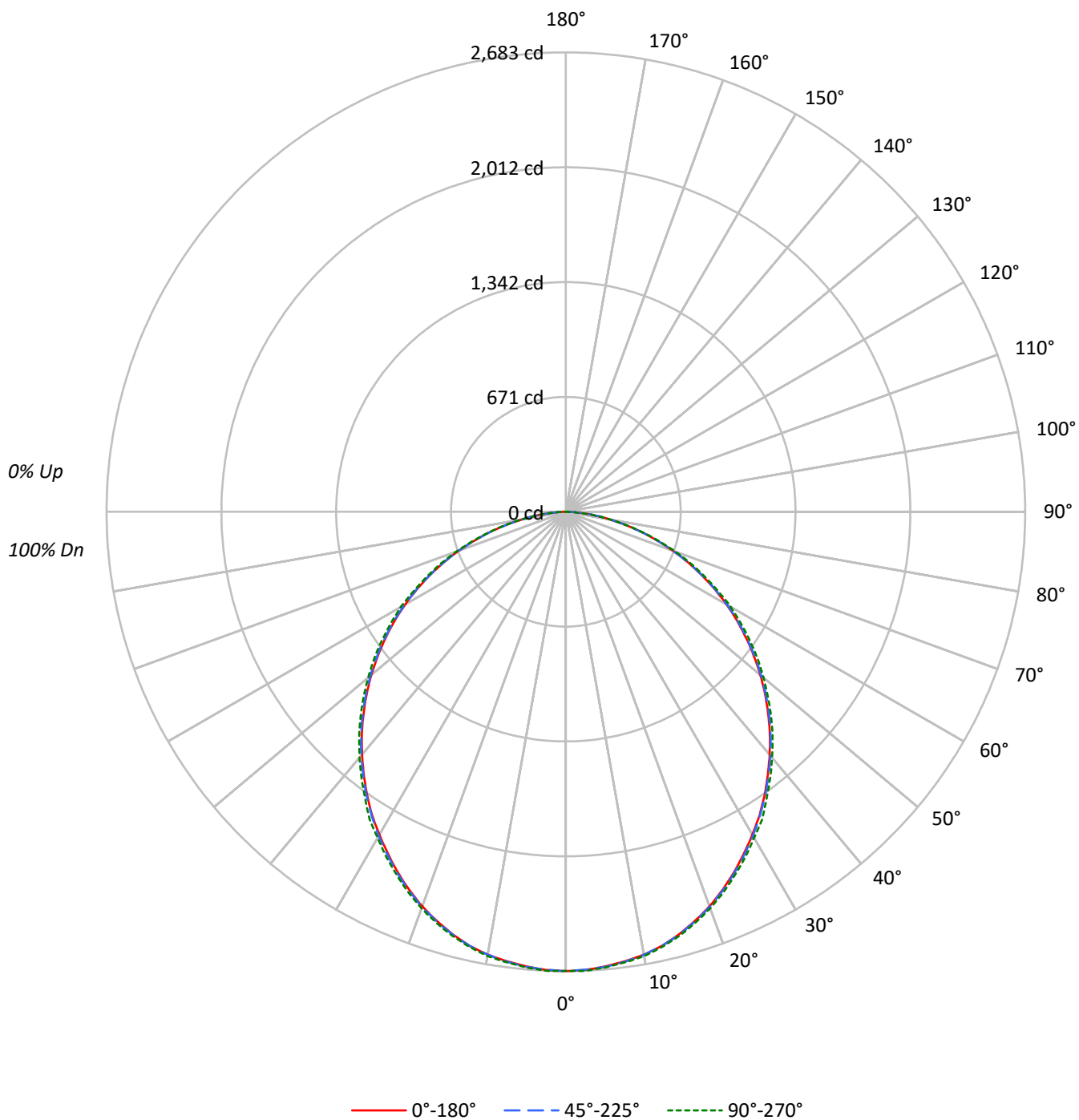
Lumens per Lamp: N/A
Luminaire Lumens: 7248.2 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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°	7218	7218	7218
5°	7199	7205	7215
10°	7176	7178	7199
15°	7117	7122	7142
20°	7025	7033	7058
25°	6898	6914	6945
30°	6768	6791	6832
35°	6644	6661	6714
40°	6504	6526	6584
45°	6361	6389	6455
50°	6208	6236	6308
55°	6032	6061	6160
60°	5831	5856	5987
65°	5577	5594	5700
70°	5235	5239	5353
75°	4758	4741	4850
80°	4088	4071	4139
85°	3171	3122	3137

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.5	3.5
10°-20°	721.0	9.9
20°-30°	1073.4	14.8
30°-40°	1269.4	17.5
40°-50°	1295.9	17.9
50°-60°	1156.5	16.0
60°-70°	871.1	12.0
70°-80°	485.8	6.7
80°-90°	121.7	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°	2047.9	28.3
0°-40°	3317.3	45.8
0°-60°	5769.6	79.6
0°-90°	7248.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7248.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2682	2682	2682	2682	2682	
5°	2665	2670	2667	2668	2671	253
15°	2555	2558	2556	2559	2564	720
25°	2323	2326	2329	2335	2339	1070
35°	2023	2020	2028	2035	2044	1265
45°	1672	1671	1679	1687	1696	1290
55°	1286	1284	1292	1301	1313	1149
65°	876	872	879	886	895	866
75°	458	454	456	458	466	485
85°	103	100	101	100	102	123
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2682.4	2682.4	2682.4	2682.4	2682.4
2.5°	2678.0	2682.4	2676.9	2678.0	2683.0
5°	2665.2	2670.2	2667.4	2668.0	2670.8
7.5°	2647.4	2654.1	2650.2	2651.3	2654.1
10°	2626.3	2631.3	2626.9	2629.7	2634.7
12.5°	2596.3	2598.6	2596.3	2597.4	2603.0
15°	2554.7	2557.5	2556.3	2558.6	2563.6
17.5°	2505.8	2509.1	2508.6	2513.0	2516.9
20°	2453.0	2453.6	2455.8	2460.3	2464.7
22.5°	2390.8	2392.5	2394.7	2400.8	2405.3
25°	2323.1	2325.9	2328.6	2334.8	2339.2
27.5°	2251.5	2254.2	2258.1	2264.8	2272.0
30°	2178.1	2178.1	2185.4	2192.0	2198.7
32.5°	2104.3	2101.5	2108.2	2116.5	2132.6
35°	2022.6	2020.4	2027.6	2035.4	2043.7
37.5°	1937.7	1936.0	1944.3	1952.7	1960.4
40°	1851.6	1849.4	1857.7	1866.0	1874.4
42.5°	1763.3	1762.2	1769.9	1778.3	1787.2
45°	1671.6	1671.1	1678.9	1687.2	1696.1
47.5°	1578.3	1577.2	1585.0	1593.9	1601.7
50°	1482.8	1481.7	1489.5	1498.4	1506.7
52.5°	1384.5	1384.5	1391.7	1399.5	1412.3
55°	1285.7	1284.0	1291.8	1300.7	1312.9
57.5°	1185.7	1183.5	1190.7	1199.6	1210.7
60°	1083.5	1081.3	1088.0	1096.8	1112.4
62.5°	980.2	976.9	983.6	991.9	1001.3
65°	875.8	872.5	878.6	886.4	895.2
67.5°	770.8	767.0	773.1	779.7	788.1
70°	665.3	661.4	665.9	672.5	680.3
72.5°	560.4	556.5	560.4	563.1	572.6
75°	457.6	453.7	456.0	458.2	466.5
77.5°	357.7	353.8	358.2	359.3	364.3
80°	263.8	259.9	262.7	263.2	267.1
82.5°	178.3	174.9	178.8	176.1	179.4
85°	102.7	100.0	101.1	100.0	101.6
87.5°	40.5	38.3	38.9	36.7	36.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)