

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: P835685

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835685
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-LD4-4STD-50-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

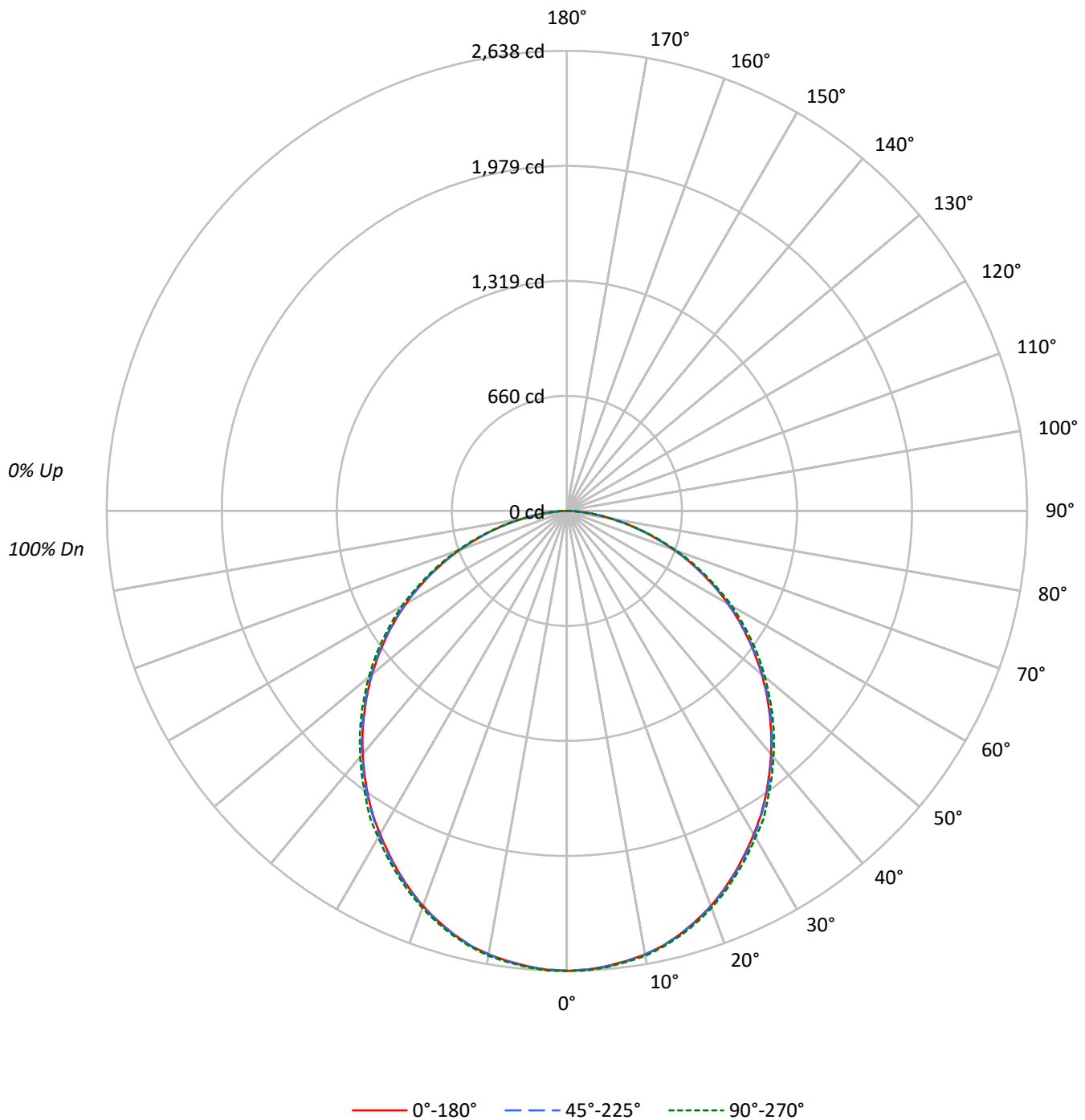
Lumens per Lamp: N/A
Luminaire Lumens: 7126.2 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	7097	7097	7097
5°	7078	7084	7093
10°	7056	7057	7078
15°	6997	7002	7022
20°	6907	6914	6939
25°	6782	6798	6828
30°	6654	6676	6717
35°	6533	6549	6601
40°	6395	6416	6473
45°	6255	6282	6346
50°	6103	6131	6202
55°	5930	5958	6056
60°	5733	5757	5886
65°	5483	5500	5605
70°	5146	5151	5263
75°	4678	4661	4769
80°	4020	4003	4069
85°	3118	3069	3084



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.2	3.5
10°-20°	708.9	9.9
20°-30°	1055.3	14.8
30°-40°	1248.0	17.5
40°-50°	1274.1	17.9
50°-60°	1137.0	16.0
60°-70°	856.4	12.0
70°-80°	477.6	6.7
80°-90°	119.7	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°	2013.4	28.3
0°-40°	3261.5	45.8
0°-60°	5672.6	79.6
0°-90°	7126.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7126.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2637	2637	2637	2637	2637	
5°	2620	2625	2622	2623	2626	249
15°	2512	2514	2513	2516	2520	708
25°	2284	2287	2290	2296	2300	1052
35°	1989	1986	1994	2001	2009	1244
45°	1644	1643	1651	1659	1668	1268
55°	1264	1262	1270	1279	1291	1130
65°	861	858	864	872	880	852
75°	450	446	448	450	459	477
85°	101	98	99	98	100	121
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2637.3	2637.3	2637.3	2637.3	2637.3
2.5°	2632.9	2637.3	2631.8	2632.9	2637.8
5°	2620.4	2625.3	2622.5	2623.1	2625.8
7.5°	2602.9	2609.4	2605.6	2606.7	2609.4
10°	2582.1	2587.0	2582.7	2585.4	2590.3
12.5°	2552.7	2554.8	2552.7	2553.7	2559.2
15°	2511.7	2514.4	2513.3	2515.5	2520.4
17.5°	2463.6	2466.9	2466.4	2470.7	2474.6
20°	2411.8	2412.3	2414.5	2418.9	2423.2
22.5°	2350.6	2352.3	2354.4	2360.5	2364.8
25°	2284.0	2286.7	2289.5	2295.5	2299.8
27.5°	2213.6	2216.3	2220.1	2226.7	2233.8
30°	2141.5	2141.5	2148.6	2155.1	2161.7
32.5°	2068.9	2066.1	2072.7	2080.9	2096.7
35°	1988.6	1986.4	1993.5	2001.2	2009.4
37.5°	1905.1	1903.4	1911.6	1919.8	1927.5
40°	1820.4	1818.3	1826.4	1834.6	1842.8
42.5°	1733.6	1732.5	1740.2	1748.4	1757.1
45°	1643.5	1643.0	1650.6	1658.8	1667.5
47.5°	1551.8	1550.7	1558.3	1567.1	1574.7
50°	1457.9	1456.8	1464.4	1473.2	1481.4
52.5°	1361.2	1361.2	1368.3	1376.0	1388.5
55°	1264.0	1262.4	1270.0	1278.8	1290.8
57.5°	1165.8	1163.6	1170.7	1179.4	1190.3
60°	1065.3	1063.1	1069.7	1078.4	1093.7
62.5°	963.7	960.5	967.0	975.2	984.5
65°	861.1	857.8	863.8	871.5	880.2
67.5°	757.9	754.1	760.1	766.6	774.8
70°	654.1	650.3	654.7	661.2	668.9
72.5°	550.9	547.1	550.9	553.7	562.9
75°	449.9	446.1	448.3	450.5	458.7
77.5°	351.6	347.8	352.2	353.3	358.2
80°	259.4	255.5	258.3	258.8	262.6
82.5°	175.3	172.0	175.8	173.1	176.4
85°	101.0	98.3	99.4	98.3	99.9
87.5°	39.9	37.7	38.2	36.0	36.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)