

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: P835758

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-4HI-35-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835758
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-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

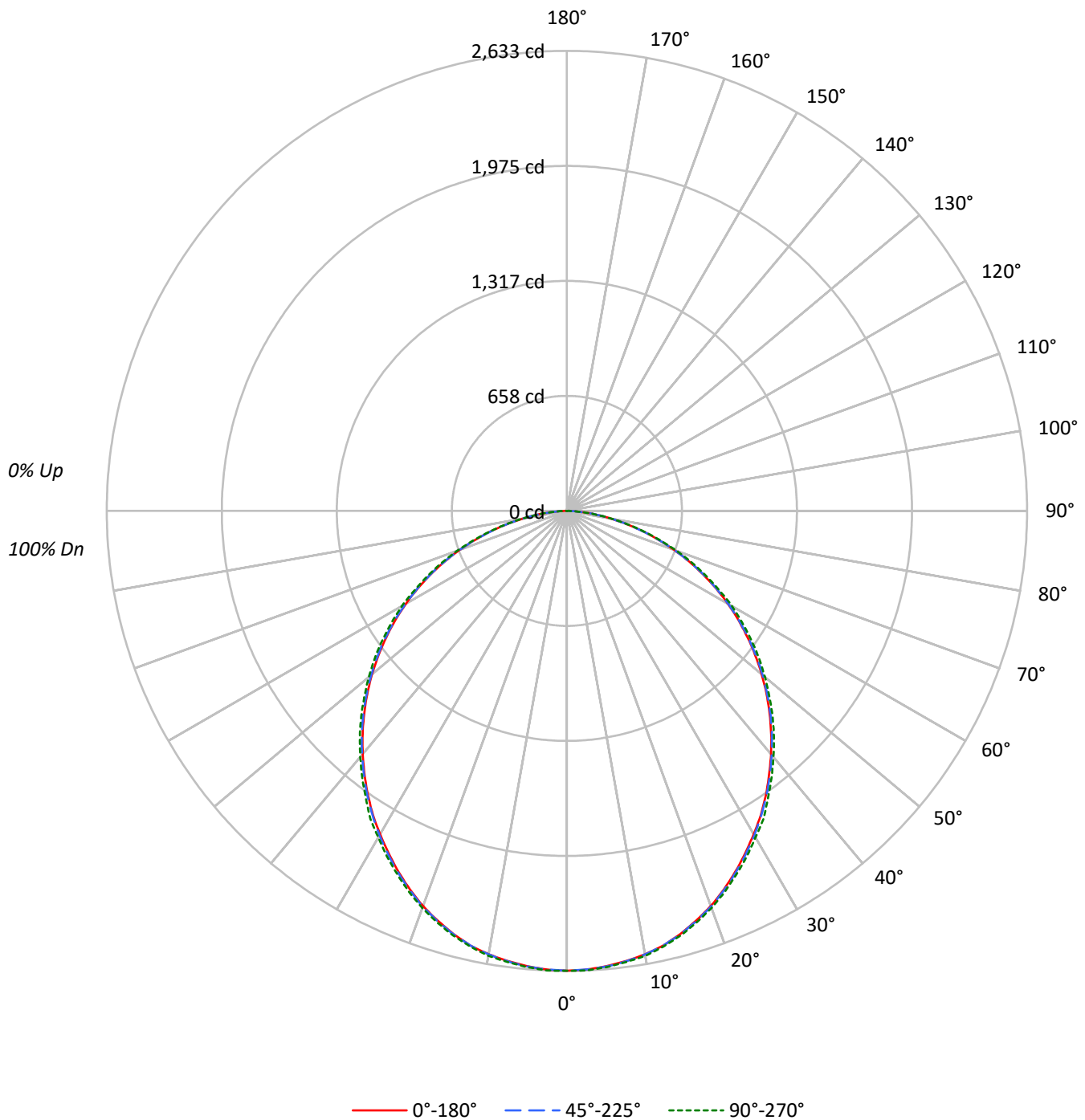
Lumens per Lamp: N/A
Luminaire Lumens: 7112.3 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59		
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51		
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44		
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38		
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7083	7083	7083
5°	7064	7070	7079
10°	7042	7043	7064
15°	6984	6988	7008
20°	6893	6901	6926
25°	6768	6785	6815
30°	6641	6663	6704
35°	6520	6536	6588
40°	6382	6404	6461
45°	6242	6269	6334
50°	6091	6119	6190
55°	5919	5947	6044
60°	5722	5746	5874
65°	5472	5489	5594
70°	5137	5141	5253
75°	4668	4652	4760
80°	4012	3995	4062
85°	3112	3063	3078

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.7	3.5
10°-20°	707.5	9.9
20°-30°	1053.3	14.8
30°-40°	1245.6	17.5
40°-50°	1271.6	17.9
50°-60°	1134.8	16.0
60°-70°	854.7	12.0
70°-80°	476.7	6.7
80°-90°	119.4	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°	2009.5	28.3
0°-40°	3255.1	45.8
0°-60°	5661.5	79.6
0°-90°	7112.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7112.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2632	2632	2632	2632	2632	
5°	2615	2620	2617	2618	2621	248
15°	2507	2510	2508	2511	2516	707
25°	2280	2282	2285	2291	2295	1050
35°	1985	1982	1990	1997	2005	1241
45°	1640	1640	1647	1656	1664	1265
55°	1262	1260	1268	1276	1288	1128
65°	859	856	862	870	878	850
75°	449	445	447	450	458	476
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°	2632.1	2632.1	2632.1	2632.1	2632.1
2.5°	2627.8	2632.1	2626.7	2627.8	2632.7
5°	2615.2	2620.1	2617.4	2618.0	2620.7
7.5°	2597.8	2604.3	2600.5	2601.6	2604.3
10°	2577.1	2582.0	2577.6	2580.4	2585.3
12.5°	2547.7	2549.8	2547.7	2548.8	2554.2
15°	2506.8	2509.5	2508.4	2510.6	2515.5
17.5°	2458.8	2462.1	2461.6	2465.9	2469.7
20°	2407.1	2407.6	2409.8	2414.2	2418.5
22.5°	2346.0	2347.7	2349.8	2355.8	2360.2
25°	2279.5	2282.3	2285.0	2291.0	2295.4
27.5°	2209.2	2212.0	2215.8	2222.3	2229.4
30°	2137.3	2137.3	2144.4	2150.9	2157.5
32.5°	2064.8	2062.1	2068.7	2076.8	2092.6
35°	1984.7	1982.5	1989.6	1997.3	2005.4
37.5°	1901.3	1899.7	1907.9	1916.1	1923.7
40°	1816.9	1814.7	1822.9	1831.0	1839.2
42.5°	1730.2	1729.1	1736.8	1744.9	1753.7
45°	1640.3	1639.8	1647.4	1655.6	1664.3
47.5°	1548.8	1547.7	1555.3	1564.0	1571.7
50°	1455.0	1453.9	1461.6	1470.3	1478.5
52.5°	1358.6	1358.6	1365.7	1373.3	1385.8
55°	1261.6	1259.9	1267.6	1276.3	1288.3
57.5°	1163.5	1161.3	1168.4	1177.1	1188.0
60°	1063.2	1061.0	1067.6	1076.3	1091.5
62.5°	961.8	958.6	965.1	973.3	982.6
65°	859.4	856.1	862.1	869.7	878.5
67.5°	756.4	752.6	758.6	765.1	773.3
70°	652.9	649.0	653.4	659.9	667.6
72.5°	549.9	546.0	549.9	552.6	561.8
75°	449.0	445.2	447.4	449.6	457.8
77.5°	351.0	347.1	351.5	352.6	357.5
80°	258.9	255.0	257.8	258.3	262.1
82.5°	174.9	171.7	175.5	172.8	176.0
85°	100.8	98.1	99.2	98.1	99.7
87.5°	39.8	37.6	38.1	36.0	36.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)