

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: P835776

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-4HI-40-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835776
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-40-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

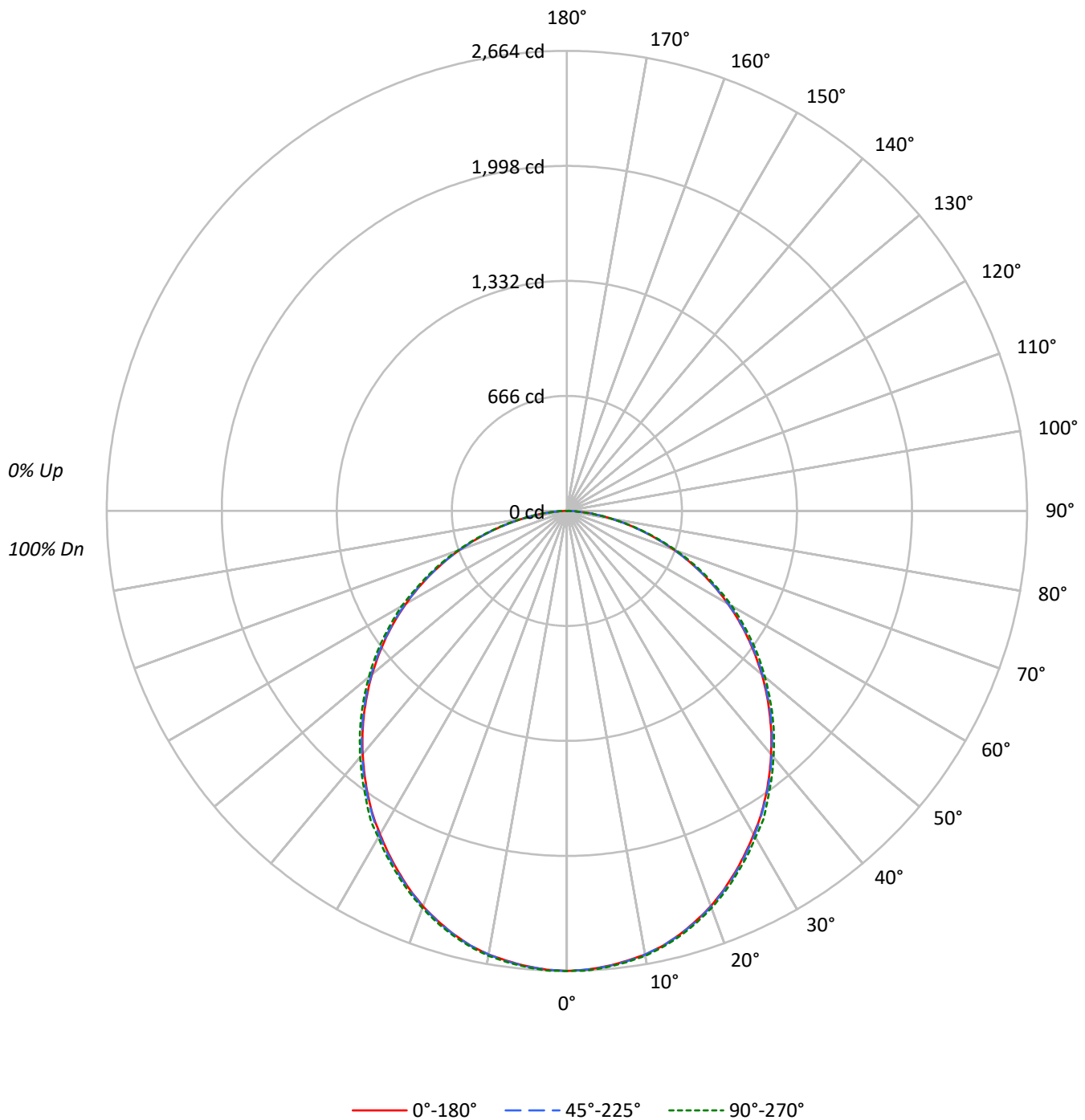
Lumens per Lamp: N/A
Luminaire Lumens: 7198.0 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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	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	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7168	7168	7168
5°	7149	7156	7165
10°	7127	7128	7149
15°	7068	7073	7092
20°	6976	6984	7009
25°	6850	6866	6897
30°	6721	6743	6785
35°	6598	6615	6667
40°	6459	6480	6539
45°	6318	6345	6410
50°	6165	6193	6264
55°	5990	6018	6117
60°	5791	5815	5945
65°	5538	5556	5661
70°	5198	5203	5316
75°	4726	4708	4817
80°	4060	4043	4111
85°	3149	3100	3115

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.7	3.5
10°-20°	716.0	9.9
20°-30°	1066.0	14.8
30°-40°	1260.6	17.5
40°-50°	1286.9	17.9
50°-60°	1148.5	16.0
60°-70°	865.0	12.0
70°-80°	482.4	6.7
80°-90°	120.9	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°	2033.7	28.3
0°-40°	3294.3	45.8
0°-60°	5729.7	79.6
0°-90°	7198.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7198.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2664	2664	2664	2664	2664	
5°	2647	2652	2649	2650	2652	251
15°	2537	2540	2539	2541	2546	715
25°	2307	2310	2312	2319	2323	1063
35°	2009	2006	2014	2021	2030	1256
45°	1660	1660	1667	1676	1684	1281
55°	1277	1275	1283	1292	1304	1141
65°	870	866	872	880	889	860
75°	454	451	453	455	463	482
85°	102	99	100	99	101	122
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2663.8	2663.8	2663.8	2663.8	2663.8
2.5°	2659.4	2663.8	2658.3	2659.4	2664.4
5°	2646.7	2651.7	2649.0	2649.5	2652.3
7.5°	2629.1	2635.7	2631.9	2633.0	2635.7
10°	2608.1	2613.1	2608.7	2611.5	2616.4
12.5°	2578.4	2580.6	2578.4	2579.5	2585.0
15°	2537.0	2539.8	2538.7	2540.9	2545.8
17.5°	2488.5	2491.8	2491.2	2495.6	2499.5
20°	2436.1	2436.6	2438.8	2443.2	2447.6
22.5°	2374.3	2376.0	2378.2	2384.2	2388.6
25°	2307.0	2309.8	2312.5	2318.6	2323.0
27.5°	2235.9	2238.6	2242.5	2249.1	2256.3
30°	2163.1	2163.1	2170.2	2176.9	2183.5
32.5°	2089.7	2087.0	2093.6	2101.8	2117.8
35°	2008.6	2006.4	2013.6	2021.3	2029.6
37.5°	1924.3	1922.6	1930.9	1939.1	1946.9
40°	1838.8	1836.6	1844.8	1853.1	1861.4
42.5°	1751.1	1750.0	1757.7	1766.0	1774.8
45°	1660.1	1659.5	1667.2	1675.5	1684.3
47.5°	1567.4	1566.3	1574.0	1582.9	1590.6
50°	1472.6	1471.5	1479.2	1488.0	1496.3
52.5°	1374.9	1374.9	1382.1	1389.8	1402.5
55°	1276.8	1275.1	1282.8	1291.7	1303.8
57.5°	1177.5	1175.3	1182.5	1191.3	1202.3
60°	1076.0	1073.8	1080.4	1089.3	1104.7
62.5°	973.4	970.1	976.7	985.0	994.4
65°	869.7	866.4	872.5	880.2	889.1
67.5°	765.5	761.7	767.7	774.3	782.6
70°	660.7	656.9	661.3	667.9	675.6
72.5°	556.5	552.6	556.5	559.2	568.6
75°	454.5	450.6	452.8	455.0	463.3
77.5°	355.2	351.3	355.7	356.8	361.8
80°	262.0	258.1	260.9	261.4	265.3
82.5°	177.0	173.7	177.6	174.8	178.1
85°	102.0	99.3	100.4	99.3	100.9
87.5°	40.3	38.1	38.6	36.4	36.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)