

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: P835710

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-6HI-20-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835710
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-LD4-6HI-20-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

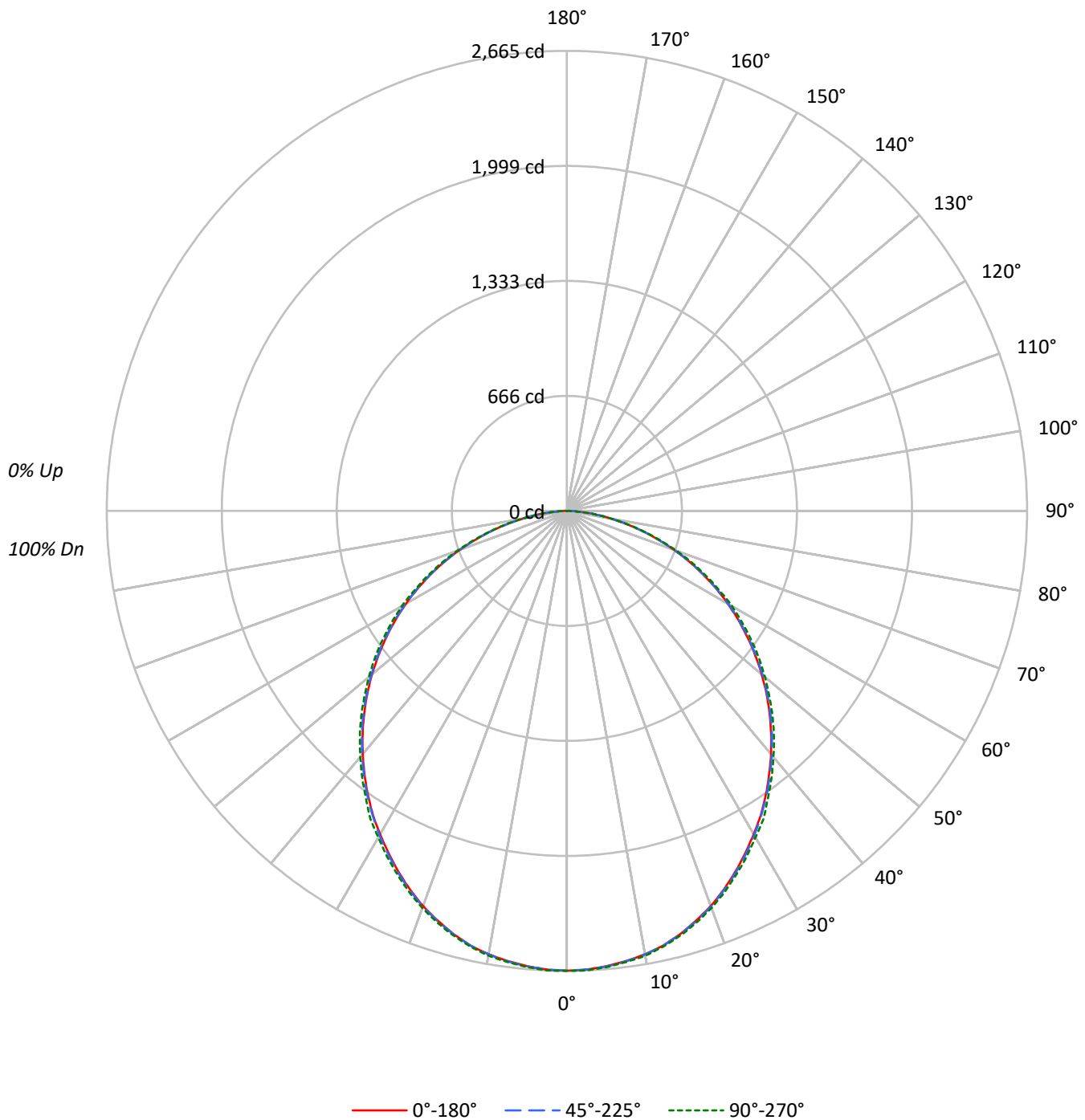
Lumens per Lamp: N/A
Luminaire Lumens: 7198.5 lumens
Efficiency: N/A
Efficacy: 54.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7169	7169	7169
5°	7150	7156	7165
10°	7127	7129	7150
15°	7068	7073	7093
20°	6976	6985	7010
25°	6850	6867	6898
30°	6722	6744	6785
35°	6599	6615	6668
40°	6460	6481	6539
45°	6318	6345	6411
50°	6165	6193	6265
55°	5991	6019	6117
60°	5792	5815	5946
65°	5538	5556	5661
70°	5199	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°	716.1	9.9
20°-30°	1066.0	14.8
30°-40°	1260.7	17.5
40°-50°	1287.0	17.9
50°-60°	1148.6	16.0
60°-70°	865.1	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°	2033.9	28.3
0°-40°	3294.5	45.8
0°-60°	5730.1	79.6
0°-90°	7198.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7198.5	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	2313	2319	2323	1063
35°	2009	2007	2014	2022	2030	1256
45°	1660	1660	1667	1676	1684	1281
55°	1277	1275	1283	1292	1304	1141
65°	870	866	873	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°	2664.0	2664.0	2664.0	2664.0	2664.0
2.5°	2659.6	2664.0	2658.5	2659.6	2664.6
5°	2646.9	2651.9	2649.1	2649.7	2652.5
7.5°	2629.3	2635.9	2632.0	2633.1	2635.9
10°	2608.3	2613.3	2608.9	2611.6	2616.6
12.5°	2578.5	2580.7	2578.5	2579.6	2585.2
15°	2537.2	2539.9	2538.8	2541.0	2546.0
17.5°	2488.6	2491.9	2491.4	2495.8	2499.7
20°	2436.2	2436.8	2439.0	2443.4	2447.8
22.5°	2374.5	2376.1	2378.3	2384.4	2388.8
25°	2307.2	2309.9	2312.7	2318.8	2323.2
27.5°	2236.0	2238.8	2242.6	2249.3	2256.4
30°	2163.2	2163.2	2170.4	2177.0	2183.6
32.5°	2089.9	2087.1	2093.7	2102.0	2118.0
35°	2008.8	2006.6	2013.7	2021.5	2029.7
37.5°	1924.4	1922.7	1931.0	1939.3	1947.0
40°	1838.9	1836.7	1845.0	1853.2	1861.5
42.5°	1751.2	1750.1	1757.8	1766.1	1774.9
45°	1660.2	1659.6	1667.4	1675.6	1684.5
47.5°	1567.5	1566.4	1574.2	1583.0	1590.7
50°	1472.7	1471.6	1479.3	1488.1	1496.4
52.5°	1375.0	1375.0	1382.2	1389.9	1402.6
55°	1276.9	1275.2	1282.9	1291.8	1303.9
57.5°	1177.6	1175.4	1182.5	1191.4	1202.4
60°	1076.1	1073.9	1080.5	1089.3	1104.8
62.5°	973.5	970.2	976.8	985.1	994.5
65°	869.8	866.5	872.6	880.3	889.1
67.5°	765.6	761.7	767.8	774.4	782.7
70°	660.8	656.9	661.3	667.9	675.7
72.5°	556.5	552.7	556.5	559.3	568.7
75°	454.5	450.6	452.8	455.0	463.3
77.5°	355.2	351.3	355.8	356.9	361.8
80°	262.0	258.1	260.9	261.4	265.3
82.5°	177.1	173.7	177.6	174.8	178.2
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)