

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: P834465

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-2HI-27-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834465
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-OPL-LD4-2HI-27-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

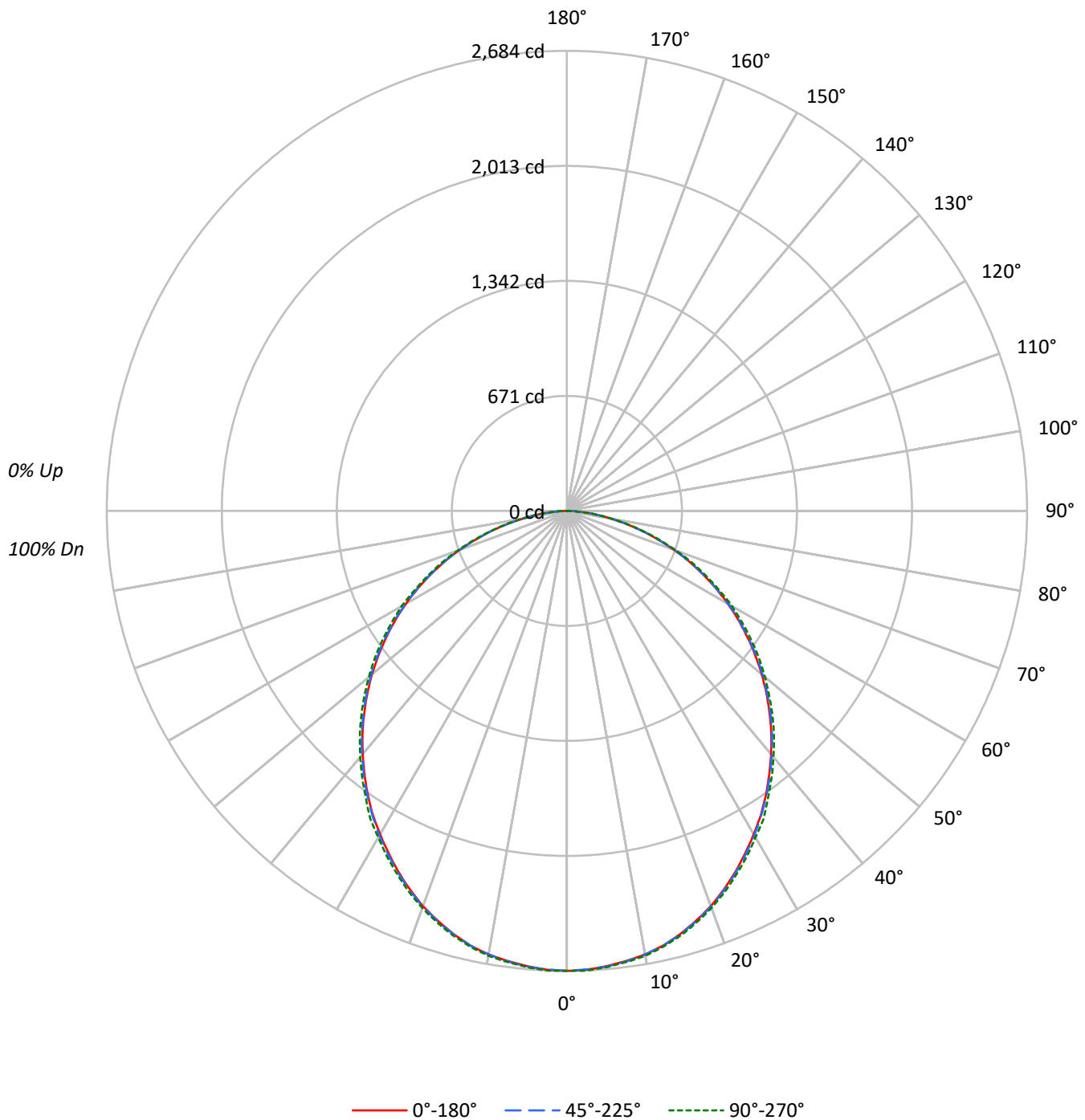
Lumens per Lamp: N/A
Luminaire Lumens: 7250.8 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7221	7221	7221
5°	7202	7208	7217
10°	7179	7180	7202
15°	7120	7124	7144
20°	7027	7035	7061
25°	6900	6917	6948
30°	6770	6793	6834
35°	6647	6663	6716
40°	6507	6528	6587
45°	6364	6392	6457
50°	6210	6238	6310
55°	6034	6063	6162
60°	5834	5858	5989
65°	5578	5596	5703
70°	5237	5241	5355
75°	4760	4742	4852
80°	4090	4073	4141
85°	3174	3122	3140

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.6	3.5
10°-20°	721.3	9.9
20°-30°	1073.8	14.8
30°-40°	1269.9	17.5
40°-50°	1296.3	17.9
50°-60°	1156.9	16.0
60°-70°	871.4	12.0
70°-80°	486.0	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°	2048.7	28.3
0°-40°	3318.5	45.8
0°-60°	5771.8	79.6
0°-90°	7250.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7250.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2683	2683	2683	2683	2683	
5°	2666	2671	2668	2669	2672	253
15°	2556	2558	2557	2560	2564	720
25°	2324	2327	2330	2336	2340	1071
35°	2023	2021	2028	2036	2044	1265
45°	1672	1672	1680	1688	1697	1290
55°	1286	1284	1292	1301	1313	1150
65°	876	873	879	887	896	867
75°	458	454	456	458	467	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°	2683.4	2683.4	2683.4	2683.4	2683.4
2.5°	2679.0	2683.4	2677.8	2679.0	2684.0
5°	2666.2	2671.2	2668.4	2669.0	2671.7
7.5°	2648.4	2655.1	2651.2	2652.3	2655.1
10°	2627.3	2632.3	2627.8	2630.6	2635.6
12.5°	2597.3	2599.5	2597.3	2598.4	2604.0
15°	2555.6	2558.4	2557.3	2559.5	2564.5
17.5°	2506.7	2510.1	2509.5	2514.0	2517.8
20°	2454.0	2454.5	2456.7	2461.2	2465.6
22.5°	2391.7	2393.4	2395.6	2401.7	2406.2
25°	2323.9	2326.7	2329.5	2335.6	2340.1
27.5°	2252.3	2255.1	2258.9	2265.6	2272.8
30°	2178.9	2178.9	2186.2	2192.8	2199.5
32.5°	2105.1	2102.3	2108.9	2117.3	2133.4
35°	2023.4	2021.2	2028.4	2036.2	2044.5
37.5°	1938.4	1936.7	1945.1	1953.4	1961.2
40°	1852.3	1850.0	1858.4	1866.7	1875.0
42.5°	1763.9	1762.8	1770.6	1778.9	1787.8
45°	1672.3	1671.7	1679.5	1687.8	1696.7
47.5°	1578.9	1577.8	1585.6	1594.5	1602.3
50°	1483.4	1482.3	1490.0	1498.9	1507.3
52.5°	1385.0	1385.0	1392.3	1400.0	1412.8
55°	1286.1	1284.5	1292.3	1301.1	1313.4
57.5°	1186.1	1183.9	1191.1	1200.0	1211.1
60°	1083.9	1081.7	1088.4	1097.3	1112.8
62.5°	980.6	977.2	983.9	992.2	1001.7
65°	876.1	872.8	878.9	886.7	895.6
67.5°	771.1	767.2	773.4	780.0	788.4
70°	665.6	661.7	666.1	672.8	680.6
72.5°	560.6	556.7	560.6	563.3	572.8
75°	457.8	453.9	456.1	458.3	466.7
77.5°	357.8	353.9	358.3	359.5	364.5
80°	263.9	260.0	262.8	263.3	267.2
82.5°	178.3	175.0	178.9	176.1	179.4
85°	102.8	100.0	101.1	100.0	101.7
87.5°	40.6	38.3	38.9	36.7	36.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)