

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: P835727

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-6STD-27-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835727
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-LD4-6STD-27-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

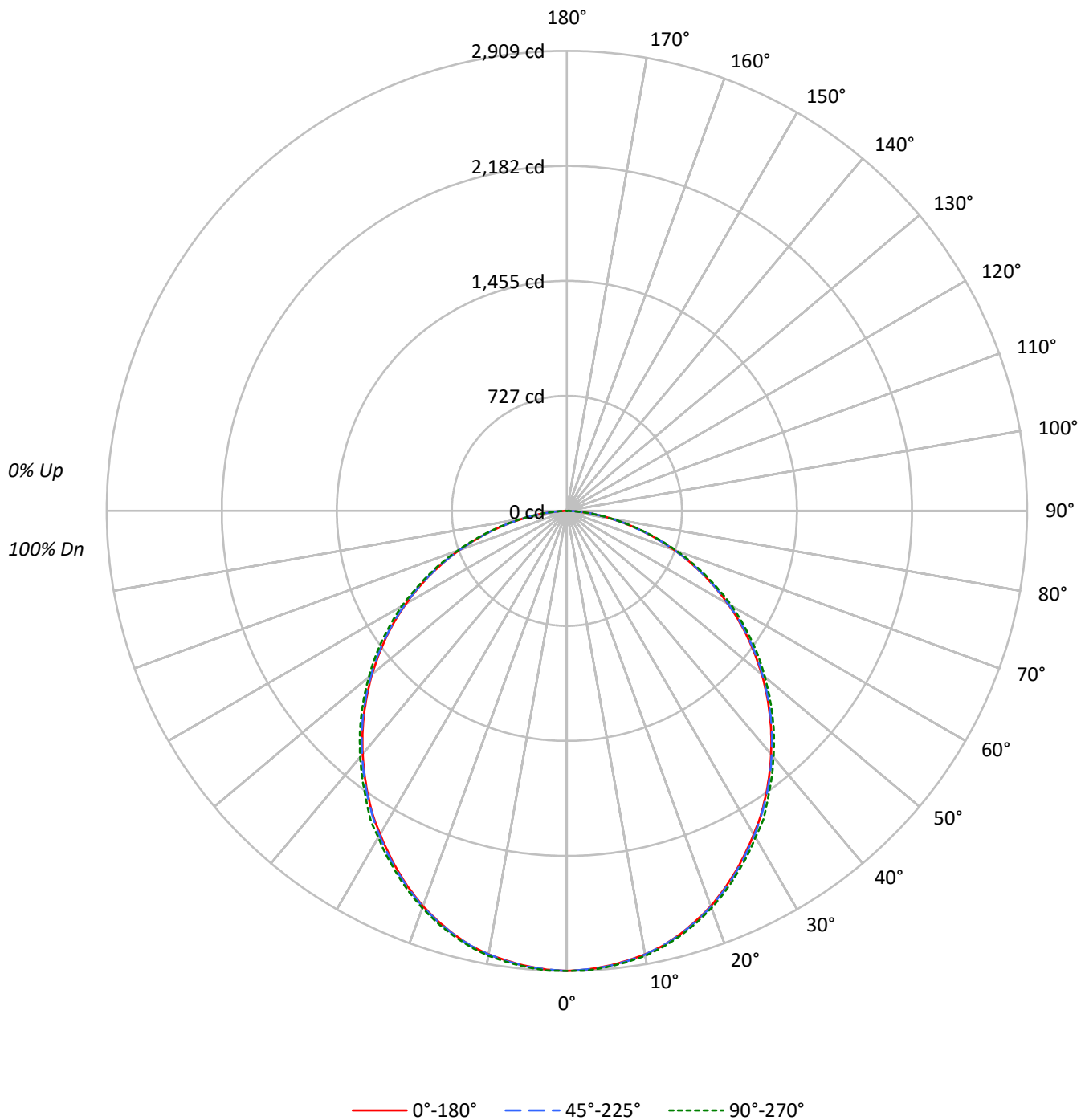
Lumens per Lamp: N/A
Luminaire Lumens: 7859.8 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7828	7828	7828
5°	7807	7813	7823
10°	7782	7784	7807
15°	7718	7723	7745
20°	7617	7626	7654
25°	7480	7497	7532
30°	7339	7364	7408
35°	7205	7223	7280
40°	7053	7077	7140
45°	6898	6928	6999
50°	6732	6762	6840
55°	6541	6572	6679
60°	6323	6350	6492
65°	6047	6066	6181
70°	5677	5681	5804
75°	5159	5140	5260
80°	4434	4415	4489
85°	3440	3384	3402

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.9	3.5
10°-20°	781.9	9.9
20°-30°	1164.0	14.8
30°-40°	1376.5	17.5
40°-50°	1405.2	17.9
50°-60°	1254.1	16.0
60°-70°	944.6	12.0
70°-80°	526.8	6.7
80°-90°	132.0	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°	2220.7	28.3
0°-40°	3597.2	45.8
0°-60°	6256.5	79.6
0°-90°	7859.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7859.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2909	2909	2909	2909	2909	
5°	2890	2896	2892	2893	2896	275
15°	2770	2773	2772	2774	2780	781
25°	2519	2522	2525	2532	2537	1161
35°	2193	2191	2199	2207	2216	1372
45°	1813	1812	1820	1830	1839	1398
55°	1394	1392	1401	1410	1424	1246
65°	950	946	953	961	971	939
75°	496	492	494	497	506	526
85°	111	108	110	108	110	134
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2908.8	2908.8	2908.8	2908.8	2908.8
2.5°	2904.0	2908.8	2902.7	2904.0	2909.4
5°	2890.1	2895.5	2892.5	2893.1	2896.1
7.5°	2870.8	2878.1	2873.8	2875.0	2878.1
10°	2847.9	2853.4	2848.5	2851.6	2857.0
12.5°	2815.4	2817.8	2815.4	2816.6	2822.6
15°	2770.3	2773.3	2772.1	2774.5	2779.9
17.5°	2717.3	2720.9	2720.3	2725.1	2729.3
20°	2660.0	2660.7	2663.1	2667.9	2672.7
22.5°	2592.6	2594.4	2596.8	2603.4	2608.3
25°	2519.1	2522.1	2525.1	2531.8	2536.6
27.5°	2441.4	2444.4	2448.7	2455.9	2463.7
30°	2361.9	2361.9	2369.8	2377.0	2384.2
32.5°	2281.8	2278.8	2286.1	2295.1	2312.6
35°	2193.3	2190.9	2198.7	2207.2	2216.2
37.5°	2101.2	2099.4	2108.4	2117.4	2125.9
40°	2007.8	2005.4	2014.5	2023.5	2032.5
42.5°	1912.1	1910.9	1919.3	1928.3	1938.0
45°	1812.7	1812.1	1820.5	1829.6	1839.2
47.5°	1711.5	1710.3	1718.8	1728.4	1736.8
50°	1608.0	1606.7	1615.2	1624.8	1633.8
52.5°	1501.4	1501.4	1509.2	1517.6	1531.5
55°	1394.2	1392.4	1400.8	1410.4	1423.7
57.5°	1285.8	1283.4	1291.2	1300.8	1312.9
60°	1174.9	1172.5	1179.8	1189.4	1206.3
62.5°	1062.9	1059.3	1066.5	1075.6	1085.8
65°	949.7	946.1	952.7	961.2	970.8
67.5°	835.9	831.7	838.3	845.5	854.6
70°	721.5	717.3	722.1	729.3	737.7
72.5°	607.6	603.4	607.6	610.7	620.9
75°	496.2	492.0	494.4	496.8	505.9
77.5°	387.8	383.6	388.4	389.6	395.1
80°	286.1	281.8	284.9	285.5	289.7
82.5°	193.3	189.7	193.9	190.9	194.5
85°	111.4	108.4	109.6	108.4	110.2
87.5°	44.0	41.6	42.2	39.7	39.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)