

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: P835672

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-6LO-40-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835672
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-LD4-6LO-40-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

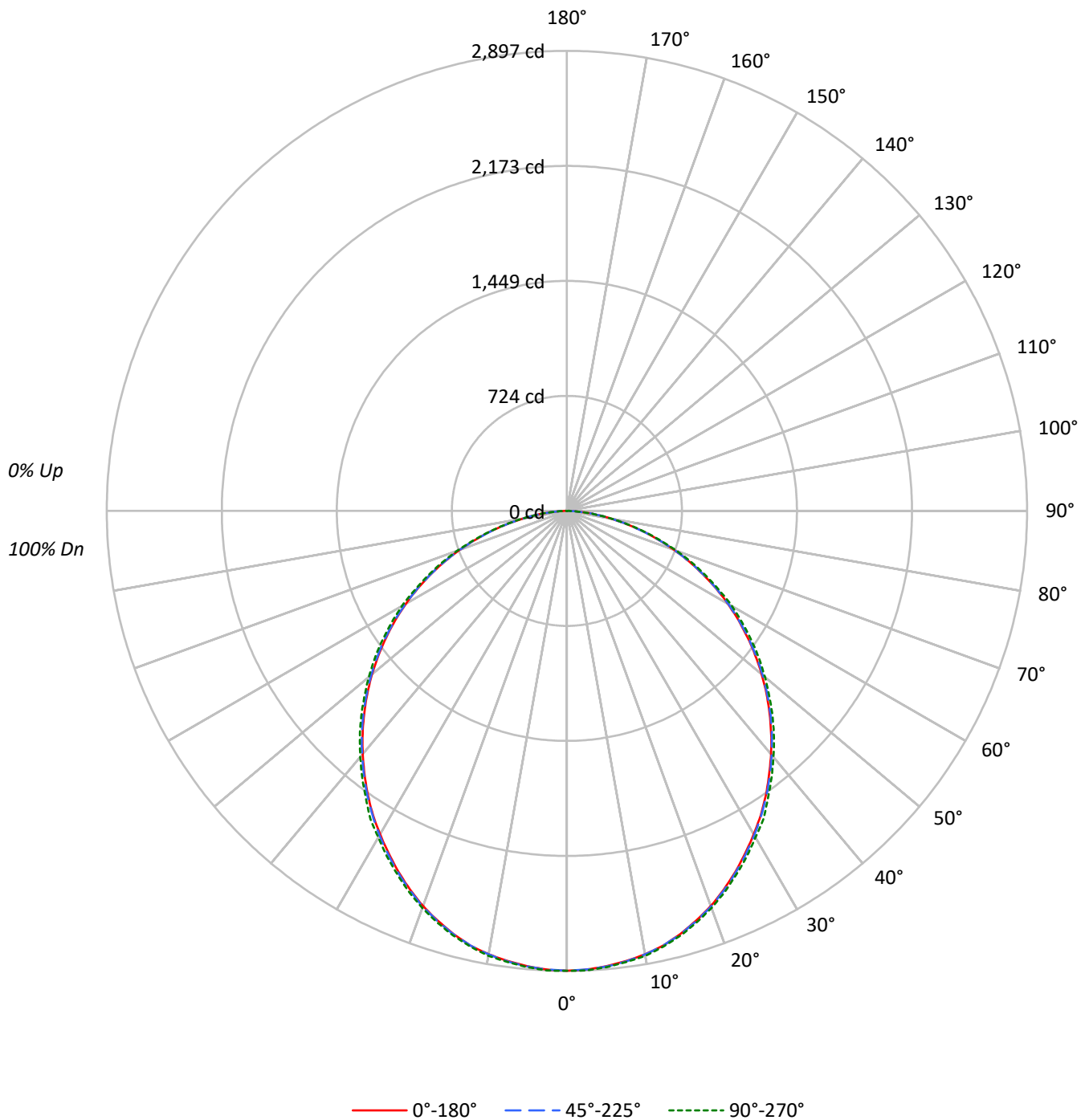
Lumens per Lamp: N/A
Luminaire Lumens: 7825.5 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		90
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51
7	65	52	43	37	64	51	43	37	49	42	36		48	41	36		47
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		40
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7793	7793	7793
5°	7773	7779	7789
10°	7748	7750	7773
15°	7684	7689	7711
20°	7584	7593	7620
25°	7447	7465	7499
30°	7307	7331	7376
35°	7174	7191	7249
40°	7022	7046	7109
45°	6868	6898	6969
50°	6702	6732	6810
55°	6512	6543	6650
60°	6296	6322	6464
65°	6021	6040	6155
70°	5652	5656	5779
75°	5137	5119	5237
80°	4413	4395	4469
85°	3424	3369	3387

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.7	3.5
10°-20°	778.5	9.9
20°-30°	1158.9	14.8
30°-40°	1370.5	17.5
40°-50°	1399.1	17.9
50°-60°	1248.6	16.0
60°-70°	940.4	12.0
70°-80°	524.5	6.7
80°-90°	131.4	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°	2211.0	28.3
0°-40°	3581.5	45.8
0°-60°	6229.2	79.6
0°-90°	7825.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7825.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2896	2896	2896	2896	2896	
5°	2878	2883	2880	2880	2884	273
15°	2758	2761	2760	2762	2768	777
25°	2508	2511	2514	2521	2526	1155
35°	2184	2181	2189	2198	2206	1366
45°	1805	1804	1813	1822	1831	1392
55°	1388	1386	1395	1404	1418	1241
65°	946	942	949	957	967	935
75°	494	490	492	495	504	524
85°	111	108	109	108	110	133
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2896.1	2896.1	2896.1	2896.1	2896.1
2.5°	2891.3	2896.1	2890.1	2891.3	2896.7
5°	2877.5	2882.9	2879.9	2880.5	2883.5
7.5°	2858.3	2865.5	2861.3	2862.5	2865.5
10°	2835.5	2840.9	2836.1	2839.1	2844.5
12.5°	2803.1	2805.5	2803.1	2804.3	2810.3
15°	2758.2	2761.2	2760.0	2762.4	2767.7
17.5°	2705.4	2709.0	2708.4	2713.2	2717.4
20°	2648.4	2649.0	2651.4	2656.2	2661.0
22.5°	2581.3	2583.1	2585.5	2592.1	2596.9
25°	2508.1	2511.1	2514.1	2520.7	2525.5
27.5°	2430.8	2433.8	2438.0	2445.2	2453.0
30°	2351.6	2351.6	2359.4	2366.6	2373.8
32.5°	2271.9	2268.9	2276.1	2285.1	2302.5
35°	2183.7	2181.3	2189.1	2197.5	2206.5
37.5°	2092.0	2090.2	2099.2	2108.2	2116.6
40°	1999.1	1996.7	2005.7	2014.7	2023.6
42.5°	1903.7	1902.5	1910.9	1919.9	1929.5
45°	1804.8	1804.2	1812.6	1821.6	1831.2
47.5°	1704.1	1702.9	1711.3	1720.8	1729.2
50°	1600.9	1599.7	1608.1	1617.7	1626.7
52.5°	1494.8	1494.8	1502.6	1511.0	1524.8
55°	1388.1	1386.3	1394.7	1404.3	1417.5
57.5°	1280.1	1277.7	1285.5	1295.1	1307.1
60°	1169.8	1167.4	1174.6	1184.2	1201.0
62.5°	1058.3	1054.7	1061.9	1070.9	1081.1
65°	945.6	942.0	948.6	957.0	966.6
67.5°	832.2	828.0	834.6	841.8	850.8
70°	718.3	714.1	718.9	726.1	734.5
72.5°	605.0	600.8	605.0	608.0	618.2
75°	494.1	489.9	492.3	494.7	503.7
77.5°	386.1	381.9	386.7	387.9	393.3
80°	284.8	280.6	283.6	284.2	288.4
82.5°	192.5	188.9	193.1	190.1	193.7
85°	110.9	107.9	109.1	107.9	109.7
87.5°	43.8	41.4	42.0	39.6	39.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)