

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: P834500

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-2STD-50-120-EDD-90**

Issue Date: 5/16/2024

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-79-08
Report Number: P834500
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-LD4-2STD-50-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

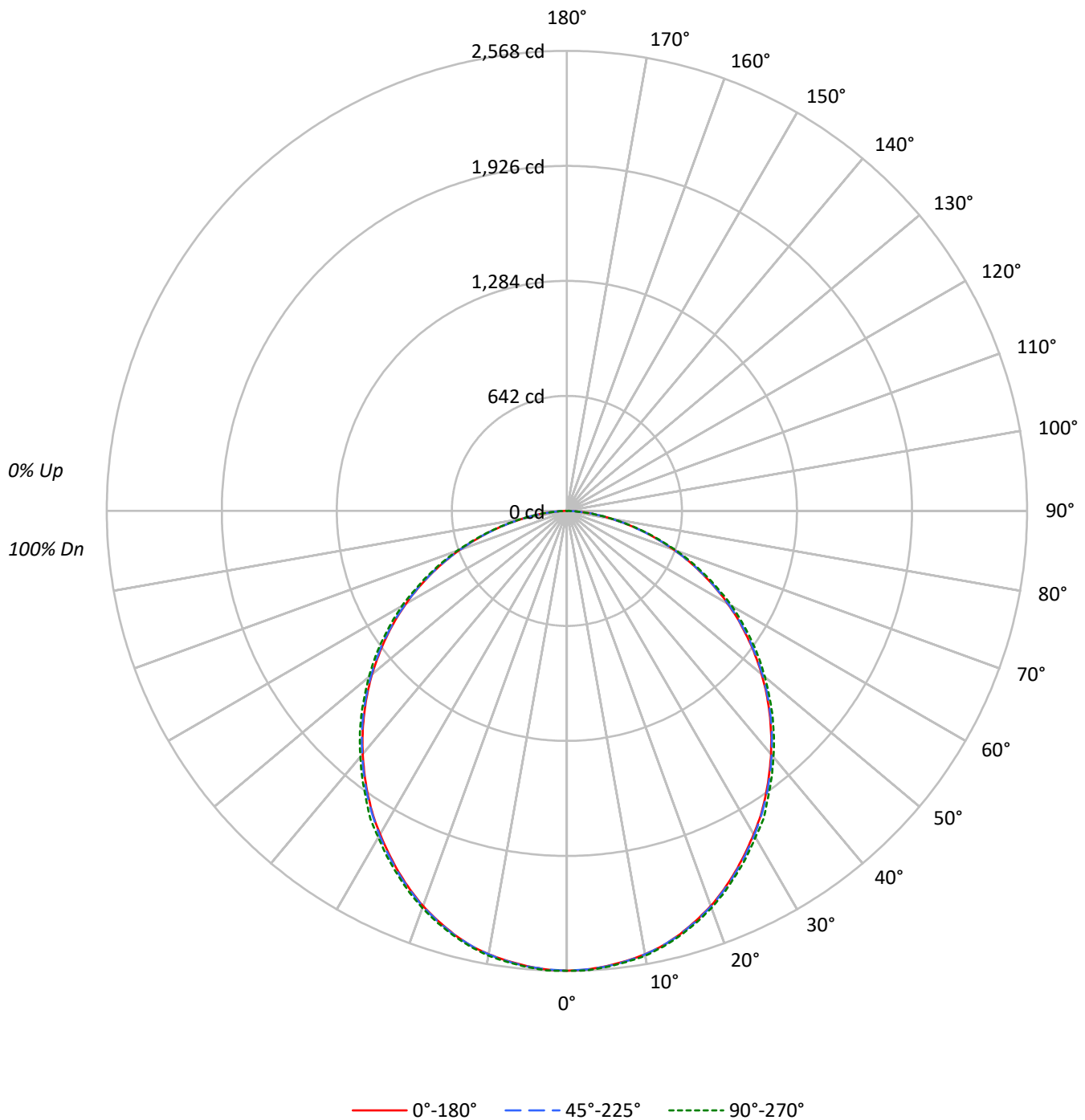
Lumens per Lamp: N/A
Luminaire Lumens: 6936.3 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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



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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°	6908	6908	6908
5°	6890	6895	6904
10°	6868	6869	6889
15°	6811	6815	6834
20°	6722	6730	6754
25°	6601	6616	6646
30°	6477	6498	6538
35°	6359	6374	6425
40°	6224	6245	6301
45°	6088	6114	6177
50°	5941	5967	6036
55°	5772	5800	5894
60°	5581	5603	5729
65°	5337	5354	5455
70°	5009	5013	5122
75°	4553	4536	4641
80°	3911	3896	3961
85°	3035	2986	3004

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.6	3.5
10°-20°	690.0	9.9
20°-30°	1027.2	14.8
30°-40°	1214.8	17.5
40°-50°	1240.1	17.9
50°-60°	1106.7	16.0
60°-70°	833.6	12.0
70°-80°	464.9	6.7
80°-90°	116.5	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°	1959.8	28.3
0°-40°	3174.5	45.8
0°-60°	5521.4	79.6
0°-90°	6936.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6936.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2567	2567	2567	2567	2567	
5°	2550	2555	2553	2553	2556	242
15°	2445	2447	2446	2448	2453	689
25°	2223	2226	2228	2234	2238	1024
35°	1936	1934	1940	1948	1956	1210
45°	1600	1599	1607	1615	1623	1234
55°	1230	1229	1236	1245	1256	1100
65°	838	835	841	848	857	829
75°	438	434	436	438	446	464
85°	98	96	97	96	97	118
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2567.0	2567.0	2567.0	2567.0	2567.0
2.5°	2562.7	2567.0	2561.7	2562.7	2567.5
5°	2550.5	2555.3	2552.6	2553.2	2555.8
7.5°	2533.5	2539.9	2536.2	2537.2	2539.9
10°	2513.3	2518.1	2513.8	2516.5	2521.3
12.5°	2484.6	2486.7	2484.6	2485.7	2491.0
15°	2444.7	2447.4	2446.3	2448.5	2453.2
17.5°	2398.0	2401.2	2400.6	2404.9	2408.6
20°	2347.5	2348.0	2350.1	2354.4	2358.6
22.5°	2288.0	2289.6	2291.7	2297.5	2301.8
25°	2223.1	2225.8	2228.4	2234.3	2238.5
27.5°	2154.6	2157.2	2160.9	2167.3	2174.2
30°	2084.4	2084.4	2091.3	2097.7	2104.1
32.5°	2013.7	2011.1	2017.4	2025.4	2040.8
35°	1935.6	1933.5	1940.4	1947.8	1955.8
37.5°	1854.3	1852.7	1860.7	1868.6	1876.1
40°	1771.9	1769.8	1777.8	1785.7	1793.7
42.5°	1687.4	1686.3	1693.8	1701.8	1710.3
45°	1599.7	1599.2	1606.6	1614.6	1623.1
47.5°	1510.4	1509.4	1516.8	1525.3	1532.7
50°	1419.0	1418.0	1425.4	1433.9	1441.9
52.5°	1324.9	1324.9	1331.9	1339.3	1351.5
55°	1230.3	1228.7	1236.2	1244.7	1256.4
57.5°	1134.7	1132.6	1139.5	1148.0	1158.6
60°	1036.9	1034.8	1041.1	1049.6	1064.5
62.5°	938.0	934.8	941.2	949.2	958.2
65°	838.1	834.9	840.8	848.2	856.7
67.5°	737.7	734.0	739.8	746.2	754.1
70°	636.7	633.0	637.2	643.6	651.0
72.5°	536.2	532.5	536.2	538.9	547.9
75°	437.9	434.2	436.3	438.5	446.4
77.5°	342.3	338.5	342.8	343.9	348.6
80°	252.4	248.7	251.4	251.9	255.6
82.5°	170.6	167.4	171.1	168.5	171.7
85°	98.3	95.7	96.7	95.7	97.3
87.5°	38.8	36.7	37.2	35.1	35.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)