

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: P834447

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834447
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-50-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

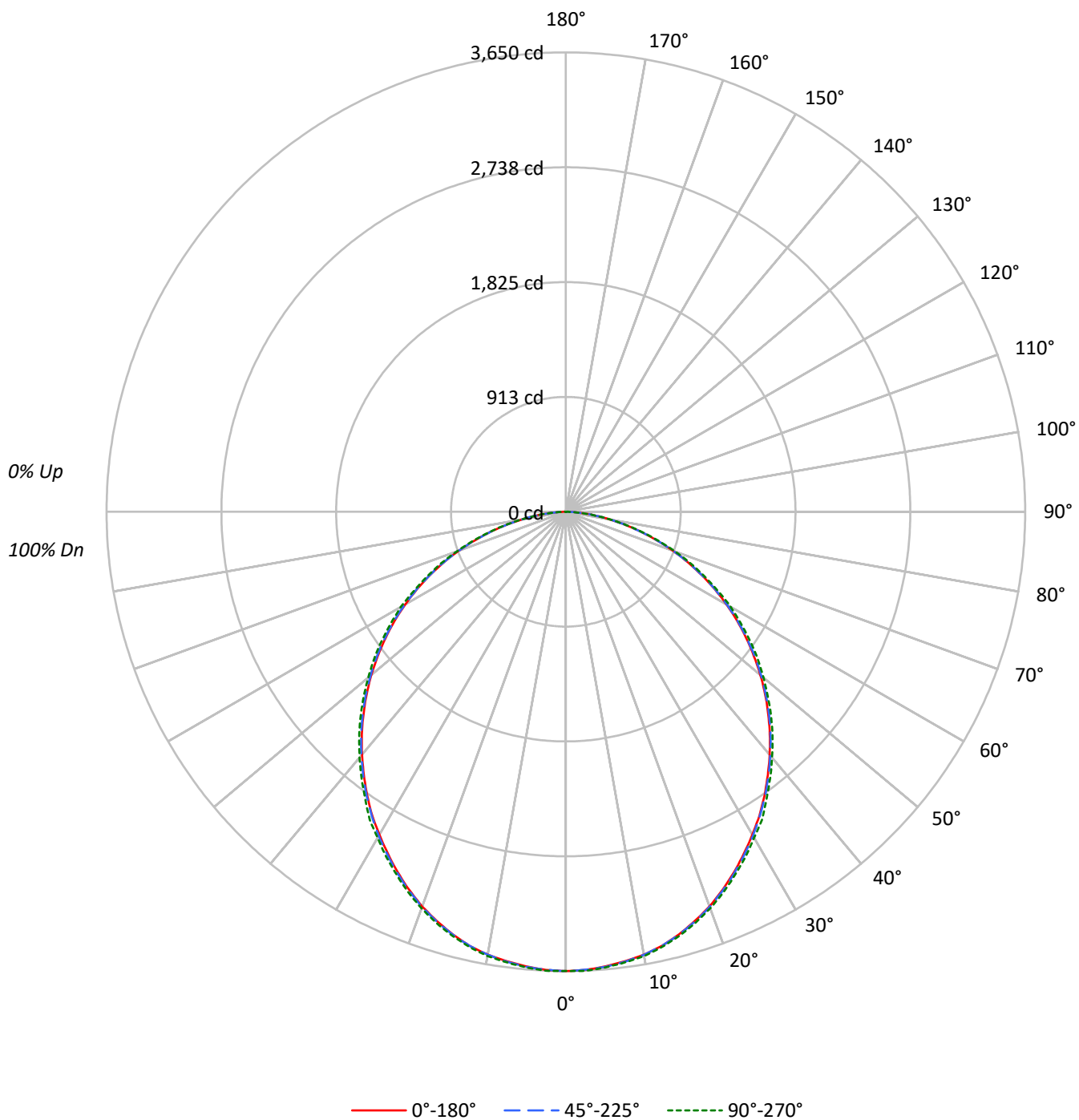
Lumens per Lamp: N/A
Luminaire Lumens: 9861.2 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

Peachtree City, GA 30269



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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°	9820	9820	9820
5°	9795	9803	9815
10°	9763	9766	9794
15°	9683	9689	9716
20°	9557	9568	9602
25°	9384	9407	9449
30°	9208	9239	9295
35°	9040	9062	9134
40°	8849	8878	8958
45°	8655	8692	8781
50°	8446	8484	8582
55°	8207	8245	8380
60°	7934	7966	8145
65°	7587	7611	7755
70°	7122	7128	7283
75°	6473	6449	6599
80°	5562	5539	5632
85°	4316	4245	4270

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.9	3.5
10°-20°	981.0	9.9
20°-30°	1460.4	14.8
30°-40°	1727.0	17.5
40°-50°	1763.0	17.9
50°-60°	1573.4	16.0
60°-70°	1185.1	12.0
70°-80°	660.9	6.7
80°-90°	165.6	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°	2786.2	28.3
0°-40°	4513.2	45.8
0°-60°	7849.6	79.6
0°-90°	9861.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9861.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3649	3649	3649	3649	3649	
5°	3626	3633	3629	3630	3634	344
15°	3476	3479	3478	3481	3488	980
25°	3161	3164	3168	3176	3182	1456
35°	2752	2749	2759	2769	2780	1721
45°	2274	2274	2284	2295	2308	1754
55°	1749	1747	1758	1770	1786	1564
65°	1192	1187	1195	1206	1218	1178
75°	623	617	620	623	635	660
85°	140	136	138	136	138	168
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3649.4	3649.4	3649.4	3649.4	3649.4
2.5°	3643.4	3649.4	3641.9	3643.4	3650.2
5°	3626.0	3632.8	3629.0	3629.8	3633.6
7.5°	3601.8	3610.9	3605.6	3607.1	3610.9
10°	3573.1	3579.9	3573.9	3577.6	3584.4
12.5°	3532.3	3535.3	3532.3	3533.8	3541.4
15°	3475.6	3479.4	3477.9	3480.9	3487.7
17.5°	3409.2	3413.7	3412.9	3419.0	3424.3
20°	3337.4	3338.1	3341.2	3347.2	3353.2
22.5°	3252.8	3255.0	3258.0	3266.4	3272.4
25°	3160.6	3164.3	3168.1	3176.4	3182.5
27.5°	3063.1	3066.9	3072.2	3081.2	3091.1
30°	2963.4	2963.4	2973.2	2982.3	2991.3
32.5°	2862.9	2859.1	2868.2	2879.5	2901.4
35°	2751.8	2748.8	2758.6	2769.2	2780.5
37.5°	2636.2	2633.9	2645.3	2656.6	2667.2
40°	2519.1	2516.1	2527.4	2538.7	2550.1
42.5°	2399.0	2397.4	2408.0	2419.4	2431.4
45°	2274.3	2273.5	2284.1	2295.4	2307.5
47.5°	2147.3	2145.8	2156.4	2168.5	2179.1
50°	2017.4	2015.9	2026.5	2038.5	2049.9
52.5°	1883.6	1883.6	1893.5	1904.0	1921.4
55°	1749.2	1746.9	1757.5	1769.6	1786.2
57.5°	1613.2	1610.1	1620.0	1632.0	1647.2
60°	1474.1	1471.1	1480.2	1492.3	1513.4
62.5°	1333.6	1329.1	1338.1	1349.5	1362.3
65°	1191.5	1187.0	1195.3	1205.9	1218.0
67.5°	1048.7	1043.4	1051.8	1060.8	1072.2
70°	905.2	899.9	905.9	915.0	925.6
72.5°	762.4	757.1	762.4	766.2	779.0
75°	622.6	617.3	620.3	623.3	634.7
77.5°	486.6	481.3	487.3	488.9	495.7
80°	358.9	353.6	357.4	358.1	363.4
82.5°	242.5	238.0	243.3	239.5	244.1
85°	139.8	136.0	137.5	136.0	138.3
87.5°	55.2	52.1	52.9	49.9	49.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)