

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: P835796

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-5STD-50-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835796
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-LD4-5STD-50-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

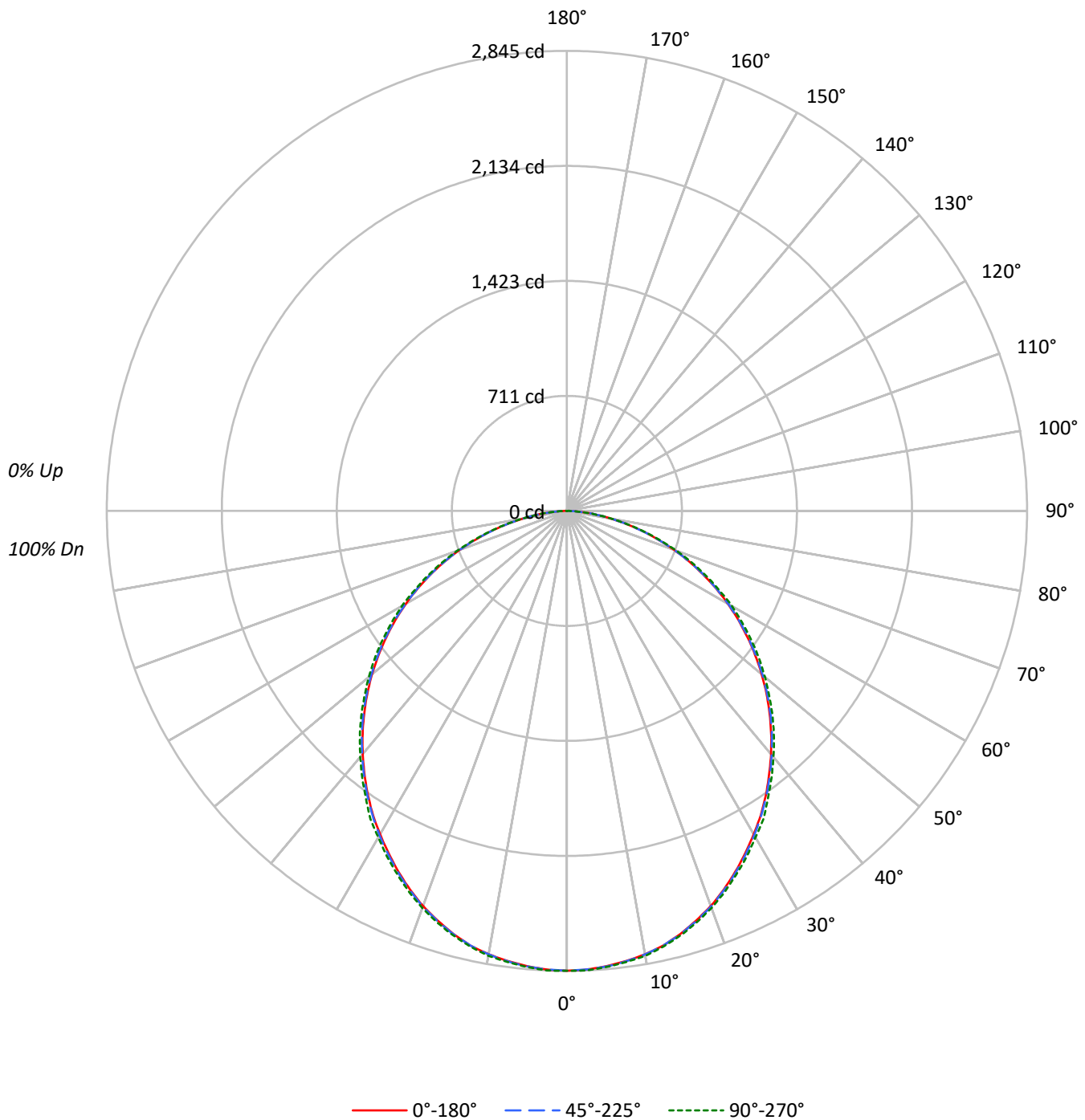
Lumens per Lamp: N/A
Luminaire Lumens: 7684.8 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 83.2
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

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°	7653	7653	7653
5°	7633	7639	7649
10°	7609	7610	7633
15°	7546	7551	7572
20°	7448	7456	7483
25°	7313	7331	7364
30°	7176	7200	7243
35°	7045	7062	7118
40°	6896	6919	6981
45°	6745	6774	6844
50°	6582	6611	6688
55°	6395	6426	6531
60°	6183	6208	6347
65°	5913	5931	6044
70°	5550	5555	5675
75°	5045	5026	5142
80°	4334	4316	4389
85°	3362	3310	3328

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.7	3.5
10°-20°	764.5	9.9
20°-30°	1138.1	14.8
30°-40°	1345.9	17.5
40°-50°	1373.9	17.9
50°-60°	1226.2	16.0
60°-70°	923.5	12.0
70°-80°	515.0	6.7
80°-90°	129.0	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°	2171.3	28.3
0°-40°	3517.1	45.8
0°-60°	6117.2	79.6
0°-90°	7684.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7684.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2844	2844	2844	2844	2844	
5°	2826	2831	2828	2829	2832	268
15°	2709	2712	2710	2713	2718	763
25°	2463	2466	2469	2475	2480	1135
35°	2144	2142	2150	2158	2167	1341
45°	1772	1772	1780	1789	1798	1367
55°	1363	1361	1370	1379	1392	1218
65°	929	925	932	940	949	918
75°	485	481	483	486	495	514
85°	109	106	107	106	108	131
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2844.0	2844.0	2844.0	2844.0	2844.0
2.5°	2839.3	2844.0	2838.1	2839.3	2844.6
5°	2825.8	2831.1	2828.1	2828.7	2831.6
7.5°	2806.9	2814.0	2809.9	2811.0	2814.0
10°	2784.5	2789.8	2785.1	2788.1	2793.4
12.5°	2752.7	2755.1	2752.7	2753.9	2759.8
15°	2708.6	2711.5	2710.3	2712.7	2718.0
17.5°	2656.8	2660.3	2659.7	2664.4	2668.5
20°	2600.8	2601.4	2603.8	2608.5	2613.2
22.5°	2534.9	2536.6	2539.0	2545.5	2550.2
25°	2463.0	2466.0	2468.9	2475.4	2480.1
27.5°	2387.1	2390.0	2394.1	2401.2	2408.9
30°	2309.4	2309.4	2317.0	2324.1	2331.1
32.5°	2231.0	2228.1	2235.2	2244.0	2261.1
35°	2144.5	2142.1	2149.8	2158.0	2166.9
37.5°	2054.4	2052.6	2061.5	2070.3	2078.5
40°	1963.1	1960.8	1969.6	1978.4	1987.3
42.5°	1869.5	1868.3	1876.6	1885.4	1894.8
45°	1772.4	1771.8	1780.0	1788.8	1798.3
47.5°	1673.4	1672.3	1680.5	1689.9	1698.2
50°	1572.2	1571.0	1579.2	1588.6	1597.5
52.5°	1467.9	1467.9	1475.6	1483.8	1497.4
55°	1363.1	1361.4	1369.6	1379.0	1392.0
57.5°	1257.1	1254.8	1262.4	1271.9	1283.6
60°	1148.8	1146.4	1153.5	1162.9	1179.4
62.5°	1039.3	1035.7	1042.8	1051.6	1061.6
65°	928.6	925.0	931.5	939.8	949.2
67.5°	817.3	813.2	819.6	826.7	835.5
70°	705.4	701.3	706.0	713.1	721.3
72.5°	594.1	590.0	594.1	597.1	607.1
75°	485.2	481.1	483.4	485.8	494.6
77.5°	379.2	375.1	379.8	381.0	386.3
80°	279.7	275.6	278.5	279.1	283.2
82.5°	189.0	185.5	189.6	186.7	190.2
85°	108.9	106.0	107.2	106.0	107.8
87.5°	43.0	40.6	41.2	38.9	38.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)