

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: P835794

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-4HI-50-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835794
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-LD4-4HI-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

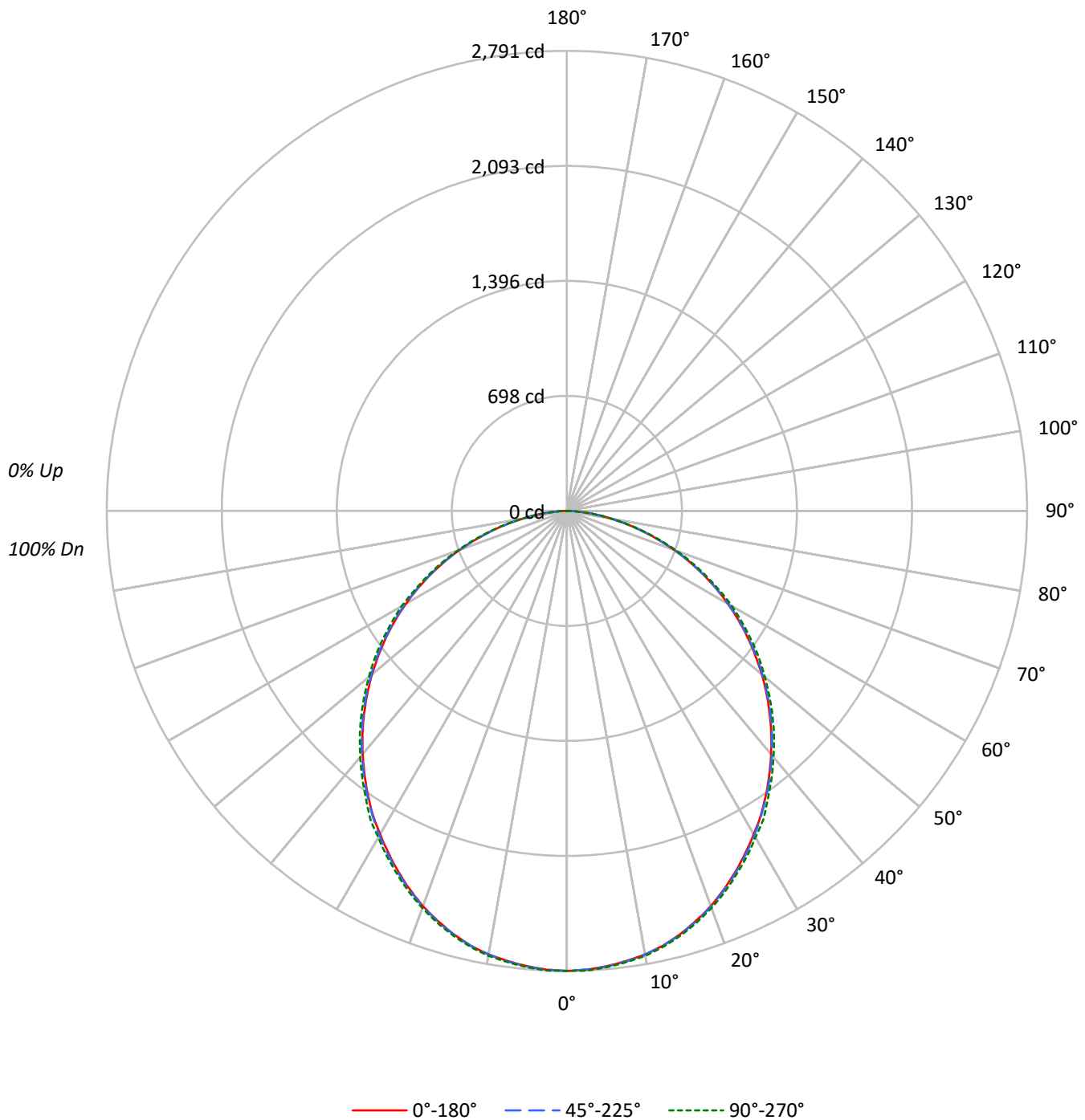
Lumens per Lamp: N/A
Luminaire Lumens: 7540.8 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	7510	7510	7510
5°	7490	7496	7506
10°	7466	7468	7490
15°	7404	7409	7430
20°	7308	7317	7343
25°	7176	7193	7226
30°	7041	7065	7108
35°	6913	6930	6985
40°	6767	6789	6850
45°	6618	6647	6715
50°	6458	6487	6562
55°	6275	6305	6408
60°	6067	6092	6229
65°	5802	5820	5931
70°	5446	5451	5569
75°	4950	4932	5046
80°	4252	4235	4307
85°	3301	3248	3264

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.7	3.5
10°-20°	750.1	9.9
20°-30°	1116.7	14.8
30°-40°	1320.6	17.5
40°-50°	1348.2	17.9
50°-60°	1203.2	16.0
60°-70°	906.2	12.0
70°-80°	505.4	6.7
80°-90°	126.6	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°	2130.6	28.3
0°-40°	3451.2	45.8
0°-60°	6002.6	79.6
0°-90°	7540.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7540.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2791	2791	2791	2791	2791	
5°	2773	2778	2775	2776	2779	263
15°	2658	2661	2660	2662	2667	749
25°	2417	2420	2423	2429	2434	1113
35°	2104	2102	2110	2118	2126	1316
45°	1739	1739	1747	1755	1765	1342
55°	1338	1336	1344	1353	1366	1196
65°	911	908	914	922	931	901
75°	476	472	474	477	485	505
85°	107	104	105	104	106	128
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2790.7	2790.7	2790.7	2790.7	2790.7
2.5°	2786.1	2790.7	2784.9	2786.1	2791.3
5°	2772.8	2778.0	2775.1	2775.7	2778.6
7.5°	2754.3	2761.2	2757.2	2758.3	2761.2
10°	2732.3	2737.5	2732.9	2735.8	2741.0
12.5°	2701.1	2703.5	2701.1	2702.3	2708.1
15°	2657.8	2660.7	2659.5	2661.9	2667.1
17.5°	2607.0	2610.4	2609.8	2614.5	2618.5
20°	2552.1	2552.6	2555.0	2559.6	2564.2
22.5°	2487.4	2489.1	2491.4	2497.8	2502.4
25°	2416.9	2419.8	2422.6	2429.0	2433.6
27.5°	2342.3	2345.2	2349.3	2356.2	2363.7
30°	2266.1	2266.1	2273.6	2280.5	2287.4
32.5°	2189.2	2186.3	2193.3	2201.9	2218.7
35°	2104.3	2102.0	2109.5	2117.6	2126.2
37.5°	2015.9	2014.2	2022.8	2031.5	2039.6
40°	1926.3	1924.0	1932.7	1941.4	1950.0
42.5°	1834.5	1833.3	1841.4	1850.1	1859.3
45°	1739.1	1738.6	1746.6	1755.3	1764.6
47.5°	1642.1	1640.9	1649.0	1658.2	1666.3
50°	1542.7	1541.5	1549.6	1558.9	1567.5
52.5°	1440.4	1440.4	1447.9	1456.0	1469.3
55°	1337.6	1335.8	1343.9	1353.2	1365.9
57.5°	1233.6	1231.3	1238.8	1248.0	1259.6
60°	1127.3	1124.9	1131.9	1141.1	1157.3
62.5°	1019.8	1016.3	1023.3	1031.9	1041.7
65°	911.2	907.7	914.1	922.1	931.4
67.5°	802.0	797.9	804.3	811.2	819.9
70°	692.2	688.1	692.8	699.7	707.8
72.5°	583.0	578.9	583.0	585.9	595.7
75°	476.1	472.0	474.4	476.7	485.3
77.5°	372.1	368.0	372.7	373.8	379.0
80°	274.4	270.4	273.3	273.9	277.9
82.5°	185.5	182.0	186.0	183.2	186.6
85°	106.9	104.0	105.2	104.0	105.7
87.5°	42.2	39.9	40.4	38.1	38.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)