

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: P834428

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-2STD-35-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834428
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-35-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

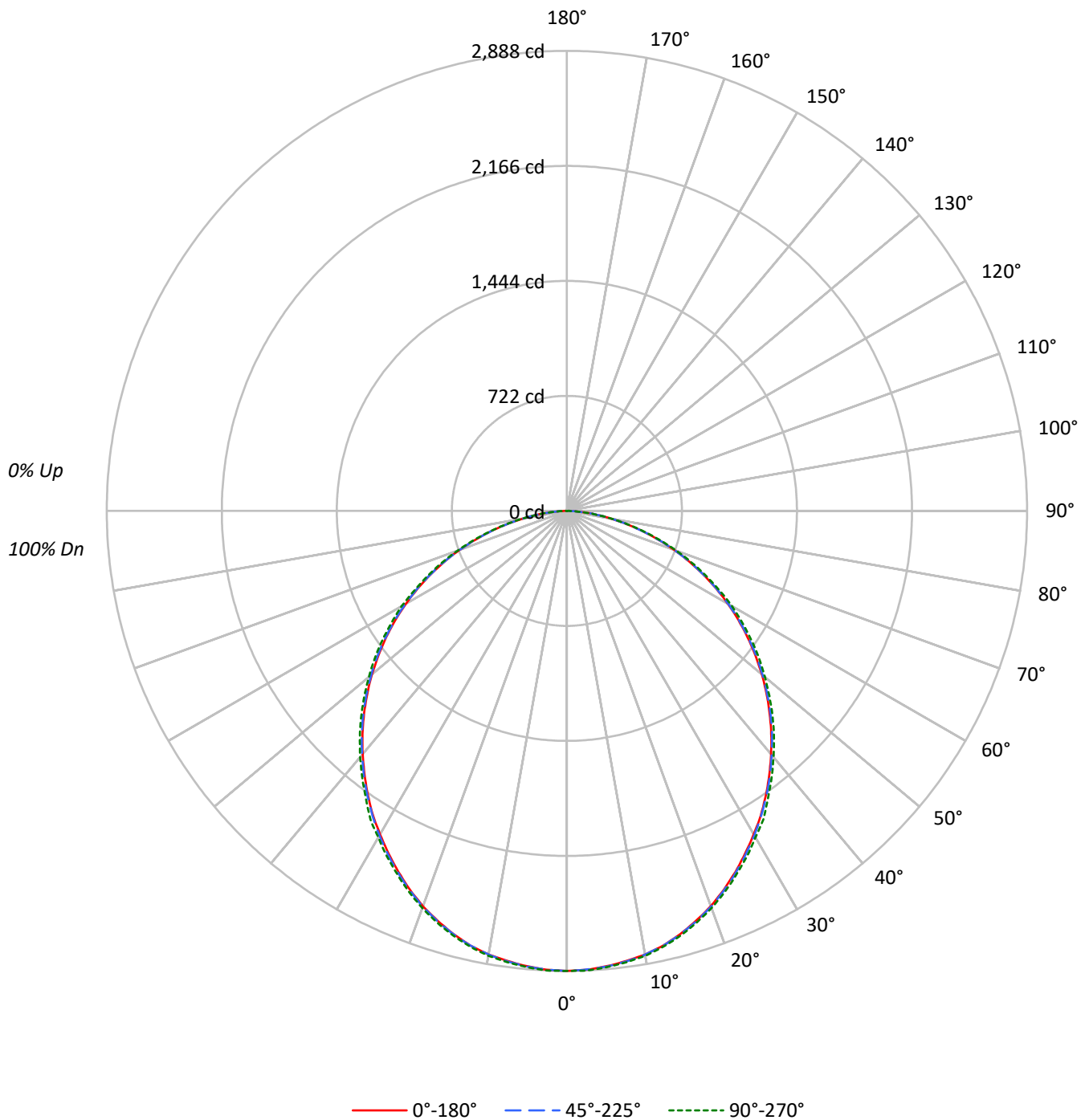
Lumens per Lamp: N/A
Luminaire Lumens: 7803.3 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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



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°	7771	7771	7771
5°	7751	7757	7767
10°	7726	7728	7750
15°	7662	7667	7689
20°	7563	7571	7599
25°	7426	7444	7477
30°	7287	7310	7355
35°	7153	7171	7228
40°	7002	7026	7089
45°	6849	6878	6949
50°	6683	6713	6791
55°	6494	6525	6631
60°	6278	6304	6445
65°	6004	6023	6137
70°	5636	5640	5762
75°	5123	5104	5221
80°	4401	4382	4457
85°	3415	3359	3378

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.9	3.5
10°-20°	776.3	9.9
20°-30°	1155.6	14.8
30°-40°	1366.6	17.5
40°-50°	1395.1	17.9
50°-60°	1245.1	16.0
60°-70°	937.8	12.0
70°-80°	523.0	6.7
80°-90°	131.0	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°	2204.7	28.3
0°-40°	3571.3	45.8
0°-60°	6211.5	79.6
0°-90°	7803.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7803.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2888	2888	2888	2888	2888	
5°	2869	2875	2872	2872	2875	273
15°	2750	2753	2752	2754	2760	775
25°	2501	2504	2507	2514	2518	1152
35°	2178	2175	2183	2191	2200	1362
45°	1800	1799	1807	1816	1826	1388
55°	1384	1382	1391	1400	1413	1237
65°	943	939	946	954	964	933
75°	493	488	491	493	502	522
85°	111	108	109	108	109	133
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2887.9	2887.9	2887.9	2887.9	2887.9
2.5°	2883.1	2887.9	2881.9	2883.1	2888.4
5°	2869.3	2874.7	2871.7	2872.3	2875.3
7.5°	2850.2	2857.4	2853.2	2854.4	2857.4
10°	2827.5	2832.8	2828.1	2831.1	2836.4
12.5°	2795.2	2797.6	2795.2	2796.4	2802.4
15°	2750.3	2753.3	2752.1	2754.5	2759.9
17.5°	2697.7	2701.3	2700.7	2705.5	2709.7
20°	2640.9	2641.5	2643.9	2648.7	2653.5
22.5°	2574.0	2575.7	2578.1	2584.7	2589.5
25°	2501.0	2504.0	2507.0	2513.6	2518.3
27.5°	2423.9	2426.9	2431.1	2438.2	2446.0
30°	2345.0	2345.0	2352.7	2359.9	2367.1
32.5°	2265.4	2262.4	2269.6	2278.6	2295.9
35°	2177.5	2175.2	2182.9	2191.3	2200.3
37.5°	2086.1	2084.3	2093.2	2102.2	2110.6
40°	1993.4	1991.0	2000.0	2008.9	2017.9
42.5°	1898.3	1897.1	1905.5	1914.5	1924.0
45°	1799.7	1799.1	1807.4	1816.4	1826.0
47.5°	1699.2	1698.0	1706.4	1716.0	1724.3
50°	1596.4	1595.2	1603.6	1613.1	1622.1
52.5°	1490.6	1490.6	1498.3	1506.7	1520.5
55°	1384.1	1382.3	1390.7	1400.3	1413.4
57.5°	1276.5	1274.1	1281.9	1291.5	1303.4
60°	1166.5	1164.1	1171.3	1180.9	1197.6
62.5°	1055.3	1051.7	1058.9	1067.8	1078.0
65°	942.9	939.3	945.9	954.2	963.8
67.5°	829.9	825.7	832.3	839.4	848.4
70°	716.3	712.1	716.9	724.1	732.4
72.5°	603.3	599.1	603.3	606.3	616.4
75°	492.7	488.5	490.9	493.3	502.2
77.5°	385.0	380.9	385.6	386.8	392.2
80°	284.0	279.8	282.8	283.4	287.6
82.5°	191.9	188.3	192.5	189.5	193.1
85°	110.6	107.6	108.8	107.6	109.4
87.5°	43.6	41.3	41.9	39.5	39.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)