

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: P834437

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-2STD-40-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834437
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-40-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

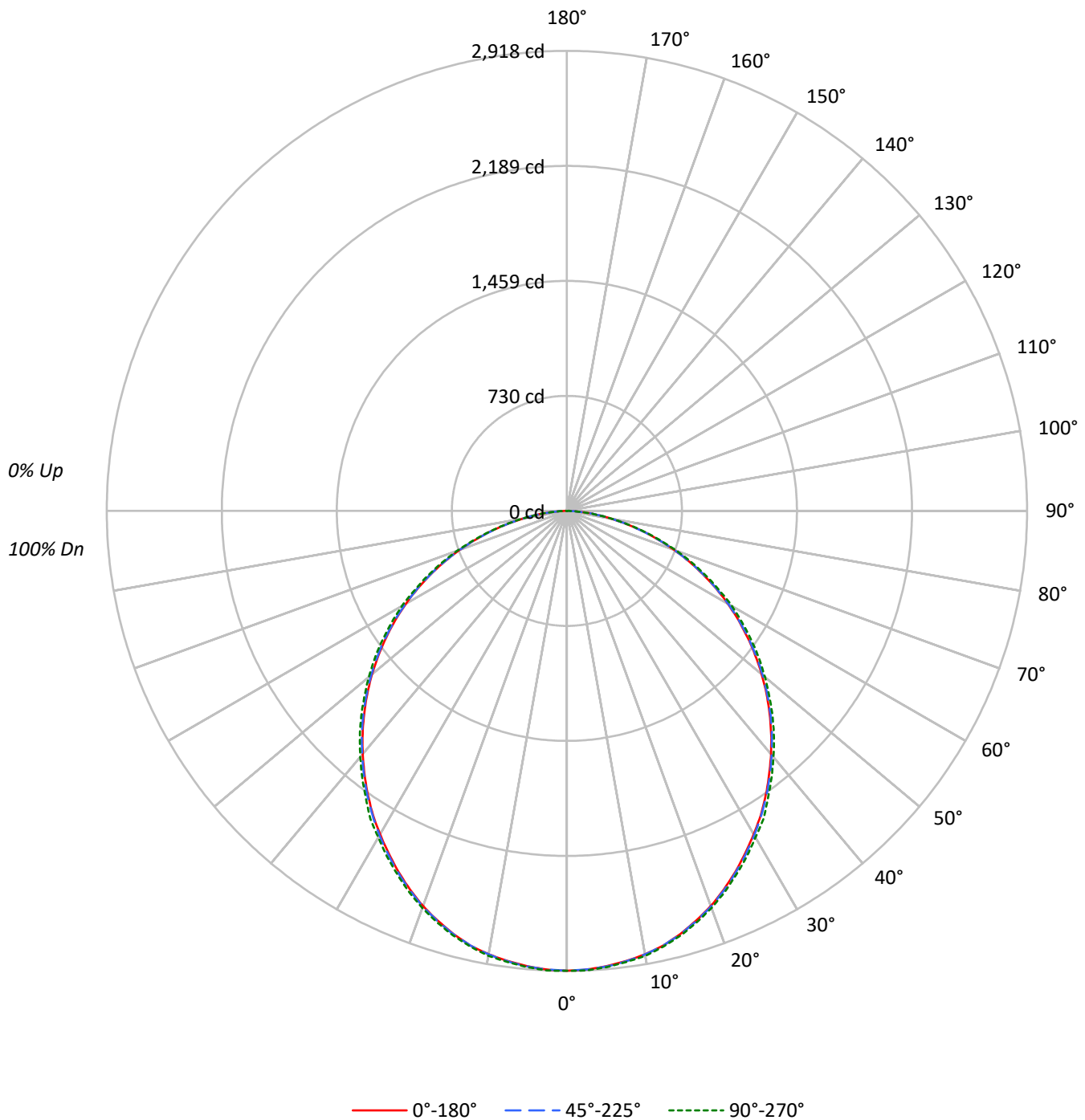
Lumens per Lamp: N/A
Luminaire Lumens: 7882.1 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	7850	7850	7850
5°	7829	7836	7845
10°	7804	7806	7829
15°	7740	7745	7767
20°	7639	7648	7676
25°	7501	7519	7553
30°	7360	7384	7429
35°	7226	7244	7301
40°	7073	7097	7160
45°	6918	6948	7019
50°	6751	6781	6859
55°	6559	6591	6698
60°	6342	6367	6511
65°	6064	6083	6199
70°	5692	5697	5821
75°	5174	5155	5274
80°	4446	4427	4502
85°	3449	3393	3412

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.6	3.5
10°-20°	784.1	9.9
20°-30°	1167.3	14.8
30°-40°	1380.4	17.5
40°-50°	1409.2	17.9
50°-60°	1257.6	16.0
60°-70°	947.2	12.0
70°-80°	528.2	6.7
80°-90°	132.3	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°	2227.0	28.3
0°-40°	3607.4	45.8
0°-60°	6274.3	79.6
0°-90°	7882.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7882.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2917	2917	2917	2917	2917	
5°	2898	2904	2901	2901	2904	275
15°	2778	2781	2780	2782	2788	783
25°	2526	2529	2532	2539	2544	1164
35°	2200	2197	2205	2213	2222	1375
45°	1818	1817	1826	1835	1844	1402
55°	1398	1396	1405	1414	1428	1250
65°	952	949	955	964	974	942
75°	498	493	496	498	507	528
85°	112	109	110	109	110	134
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2917.0	2917.0	2917.0	2917.0	2917.0
2.5°	2912.2	2917.0	2911.0	2912.2	2917.6
5°	2898.3	2903.7	2900.7	2901.3	2904.3
7.5°	2879.0	2886.2	2882.0	2883.2	2886.2
10°	2856.0	2861.5	2856.6	2859.6	2865.1
12.5°	2823.4	2825.8	2823.4	2824.6	2830.7
15°	2778.1	2781.1	2779.9	2782.3	2787.8
17.5°	2725.0	2728.6	2728.0	2732.8	2737.0
20°	2667.6	2668.2	2670.6	2675.4	2680.3
22.5°	2600.0	2601.8	2604.2	2610.8	2615.7
25°	2526.3	2529.3	2532.3	2539.0	2543.8
27.5°	2448.4	2451.4	2455.6	2462.9	2470.7
30°	2368.6	2368.6	2376.5	2383.7	2391.0
32.5°	2288.3	2285.3	2292.5	2301.6	2319.1
35°	2199.5	2197.1	2205.0	2213.4	2222.5
37.5°	2107.1	2105.3	2114.4	2123.4	2131.9
40°	2013.5	2011.1	2020.2	2029.2	2038.3
42.5°	1917.5	1916.3	1924.8	1933.8	1943.5
45°	1817.9	1817.2	1825.7	1834.8	1844.4
47.5°	1716.4	1715.2	1723.6	1733.3	1741.8
50°	1612.5	1611.3	1619.8	1629.4	1638.5
52.5°	1505.6	1505.6	1513.5	1521.9	1535.8
55°	1398.1	1396.3	1404.8	1414.4	1427.7
57.5°	1289.4	1287.0	1294.8	1304.5	1316.6
60°	1178.3	1175.9	1183.1	1192.8	1209.7
62.5°	1066.0	1062.3	1069.6	1078.6	1088.9
65°	952.4	948.8	955.4	963.9	973.5
67.5°	838.3	834.0	840.7	847.9	857.0
70°	723.5	719.3	724.1	731.4	739.8
72.5°	609.4	605.1	609.4	612.4	622.7
75°	497.6	493.4	495.8	498.2	507.3
77.5°	388.9	384.7	389.5	390.7	396.2
80°	286.9	282.6	285.7	286.3	290.5
82.5°	193.9	190.2	194.5	191.4	195.1
85°	111.7	108.7	109.9	108.7	110.5
87.5°	44.1	41.7	42.3	39.9	39.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)