

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: P835142

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-3STD-50-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835142
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-OPL-LD4-3STD-50-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

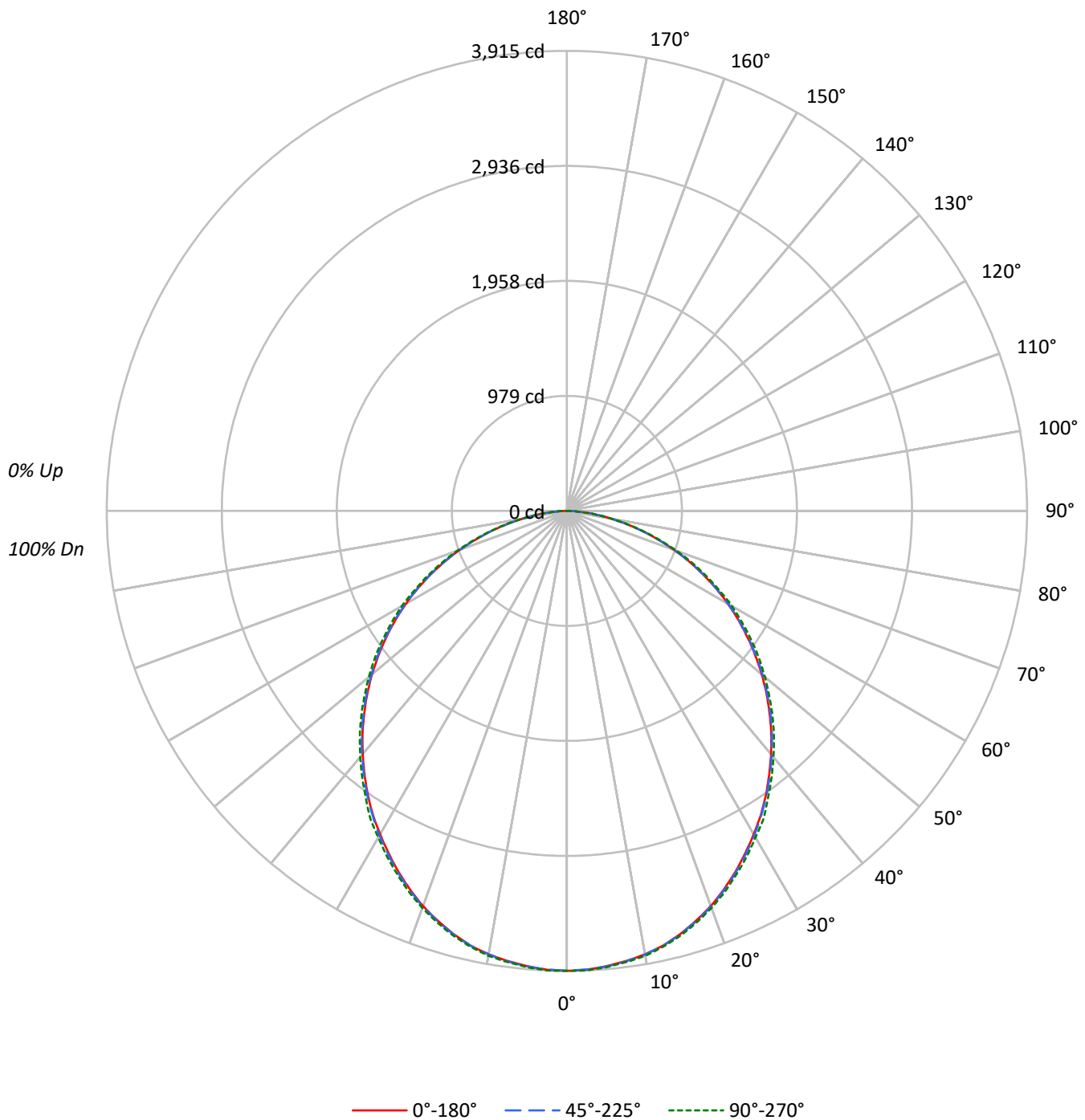
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10575.8 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5266	5266	5266
5°	5252	5257	5263
10°	5235	5237	5252
15°	5192	5196	5210
20°	5125	5131	5149
25°	5032	5044	5067
30°	4938	4954	4984
35°	4847	4859	4898
40°	4745	4761	4804
45°	4641	4661	4709
50°	4529	4549	4602
55°	4400	4421	4494
60°	4254	4272	4368
65°	4068	4081	4159
70°	3819	3822	3905
75°	3471	3459	3539
80°	2982	2970	3020
85°	2314	2277	2289

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.8	3.5
10°-20°	1052.0	9.9
20°-30°	1566.2	14.8
30°-40°	1852.2	17.5
40°-50°	1890.8	17.9
50°-60°	1687.4	16.0
60°-70°	1271.0	12.0
70°-80°	708.8	6.7
80°-90°	177.6	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°	2988.1	28.3
0°-40°	4840.2	45.8
0°-60°	8418.4	79.6
0°-90°	10575.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10575.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3914	3914	3914	3914	3914	
5°	3889	3896	3892	3893	3897	369
15°	3728	3732	3730	3733	3740	1051
25°	3390	3394	3398	3407	3413	1562
35°	2951	2948	2958	2970	2982	1846
45°	2439	2438	2450	2462	2475	1882
55°	1876	1874	1885	1898	1916	1677
65°	1278	1273	1282	1293	1306	1264
75°	668	662	665	668	681	708
85°	150	146	148	146	148	180
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3913.9	3913.9	3913.9	3913.9	3913.9
2.5°	3907.4	3913.9	3905.8	3907.4	3914.7
5°	3888.8	3896.1	3892.0	3892.8	3896.9
7.5°	3862.8	3872.6	3866.9	3868.5	3872.6
10°	3832.0	3839.3	3832.9	3836.9	3844.2
12.5°	3788.3	3791.5	3788.3	3789.9	3798.0
15°	3727.5	3731.6	3729.9	3733.2	3740.5
17.5°	3656.2	3661.1	3660.3	3666.7	3672.4
20°	3579.2	3580.0	3583.3	3589.8	3596.2
22.5°	3488.5	3490.9	3494.1	3503.0	3509.5
25°	3389.6	3393.7	3397.7	3406.6	3413.1
27.5°	3285.1	3289.1	3294.8	3304.5	3315.1
30°	3178.1	3178.1	3188.6	3198.4	3208.1
32.5°	3070.3	3066.3	3076.0	3088.2	3111.7
35°	2951.2	2948.0	2958.5	2969.9	2982.0
37.5°	2827.2	2824.8	2837.0	2849.1	2860.5
40°	2701.6	2698.4	2710.5	2722.7	2734.9
42.5°	2572.8	2571.2	2582.5	2594.7	2607.6
45°	2439.1	2438.3	2449.6	2461.8	2474.7
47.5°	2303.0	2301.3	2312.7	2325.6	2337.0
50°	2163.6	2162.0	2173.3	2186.3	2198.4
52.5°	2020.1	2020.1	2030.7	2042.0	2060.7
55°	1875.9	1873.5	1884.8	1897.8	1915.6
57.5°	1730.1	1726.8	1737.3	1750.3	1766.5
60°	1581.0	1577.7	1587.4	1600.4	1623.1
62.5°	1430.2	1425.4	1435.1	1447.2	1461.0
65°	1277.9	1273.0	1281.9	1293.3	1306.2
67.5°	1124.7	1119.1	1128.0	1137.7	1149.9
70°	970.8	965.1	971.6	981.3	992.7
72.5°	817.6	811.9	817.6	821.7	835.4
75°	667.7	662.0	665.3	668.5	680.7
77.5°	521.9	516.2	522.7	524.3	531.6
80°	384.9	379.2	383.3	384.1	389.8
82.5°	260.1	255.3	260.9	256.9	261.7
85°	149.9	145.9	147.5	145.9	148.3
87.5°	59.2	55.9	56.7	53.5	53.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)