

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: P835036

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-4LO-50-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835036
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-LD4-4LO-50-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

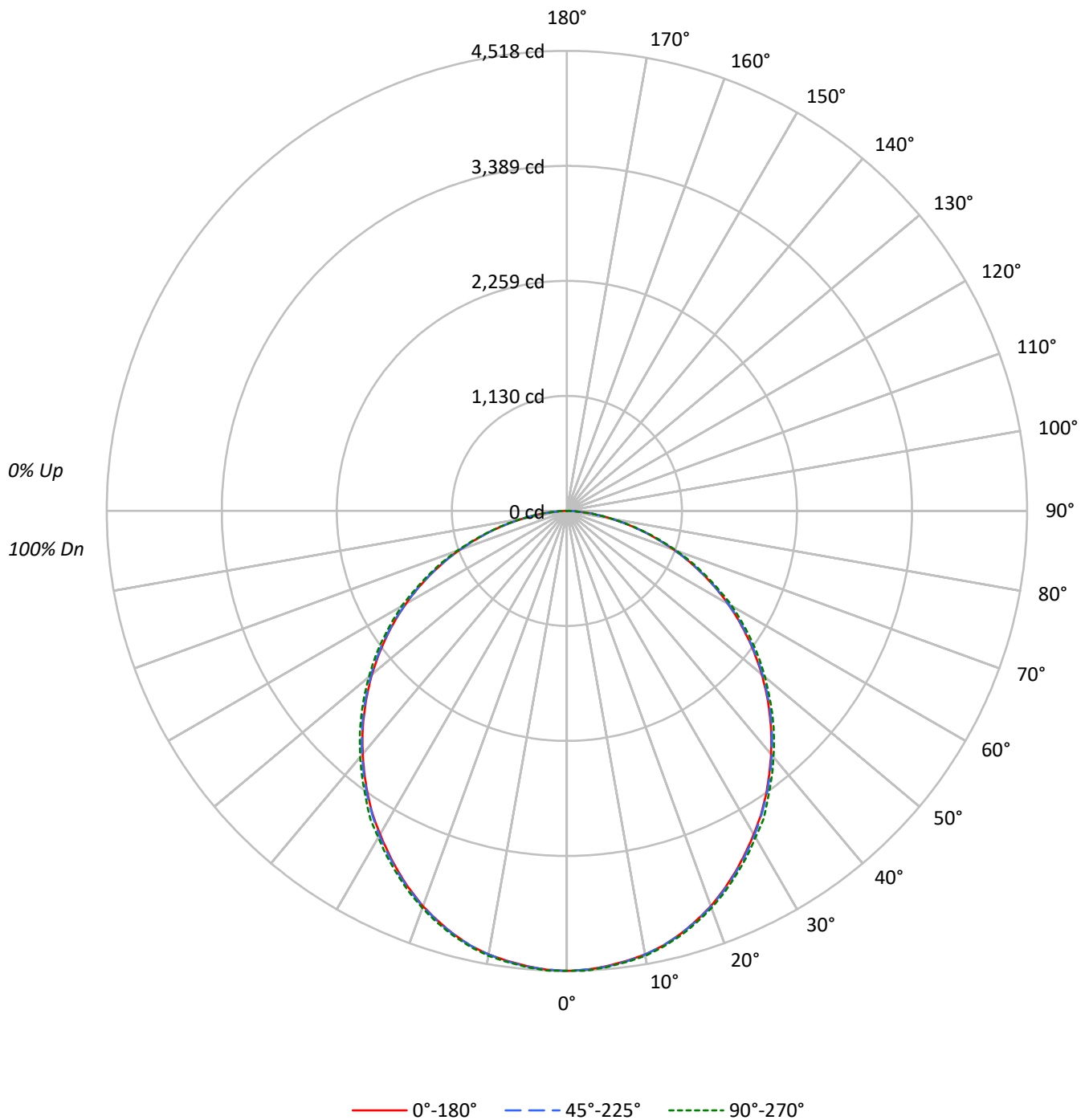
Lumens per Lamp: N/A
Luminaire Lumens: 12205.6 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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

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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°	6078	6078	6078
5°	6062	6067	6074
10°	6042	6044	6062
15°	5992	5996	6013
20°	5915	5921	5943
25°	5808	5822	5848
30°	5699	5718	5752
35°	5594	5608	5653
40°	5476	5495	5544
45°	5356	5380	5435
50°	5227	5250	5311
55°	5079	5103	5186
60°	4910	4930	5041
65°	4695	4710	4800
70°	4408	4411	4507
75°	4006	3991	4084
80°	3442	3428	3485
85°	2671	2628	2641

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.8	3.5
10°-20°	1214.2	9.9
20°-30°	1807.6	14.8
30°-40°	2137.6	17.5
40°-50°	2182.2	17.9
50°-60°	1947.5	16.0
60°-70°	1466.8	12.0
70°-80°	818.0	6.7
80°-90°	204.9	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°	3448.6	28.3
0°-40°	5586.2	45.8
0°-60°	9715.9	79.6
0°-90°	12205.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12205.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4517	4517	4517	4517	4517	
5°	4488	4496	4492	4493	4497	426
15°	4302	4307	4305	4308	4317	1213
25°	3912	3917	3921	3932	3939	1802
35°	3406	3402	3414	3428	3442	2130
45°	2815	2814	2827	2841	2856	2172
55°	2165	2162	2175	2190	2211	1935
65°	1475	1469	1480	1493	1508	1459
75°	771	764	768	772	786	817
85°	173	168	170	168	171	208
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4517.1	4517.1	4517.1	4517.1	4517.1
2.5°	4509.6	4517.1	4507.7	4509.6	4518.0
5°	4488.1	4496.5	4491.8	4492.8	4497.4
7.5°	4458.2	4469.4	4462.8	4464.7	4469.4
10°	4422.6	4431.0	4423.6	4428.2	4436.7
12.5°	4372.1	4375.9	4372.1	4374.0	4383.3
15°	4302.0	4306.7	4304.8	4308.5	4316.9
17.5°	4219.7	4225.3	4224.4	4231.8	4238.4
20°	4130.8	4131.8	4135.5	4143.0	4150.5
22.5°	4026.1	4028.9	4032.6	4042.9	4050.4
25°	3912.0	3916.7	3921.4	3931.6	3939.1
27.5°	3791.4	3796.0	3802.6	3813.8	3826.0
30°	3667.9	3667.9	3680.1	3691.3	3702.5
32.5°	3543.5	3538.8	3550.1	3564.1	3591.2
35°	3406.0	3402.3	3414.5	3427.6	3441.6
37.5°	3263.0	3260.2	3274.2	3288.2	3301.3
40°	3118.0	3114.3	3128.3	3142.3	3156.3
42.5°	2969.3	2967.4	2980.5	2994.6	3009.5
45°	2815.0	2814.1	2827.2	2841.2	2856.1
47.5°	2657.9	2656.0	2669.1	2684.1	2697.2
50°	2497.0	2495.1	2508.2	2523.2	2537.2
52.5°	2331.5	2331.5	2343.6	2356.7	2378.2
55°	2165.0	2162.2	2175.3	2190.3	2210.8
57.5°	1996.7	1992.9	2005.1	2020.1	2038.8
60°	1824.6	1820.9	1832.1	1847.0	1873.2
62.5°	1650.7	1645.0	1656.3	1670.3	1686.2
65°	1474.8	1469.2	1479.5	1492.6	1507.6
67.5°	1298.1	1291.5	1301.8	1313.0	1327.1
70°	1120.4	1113.8	1121.3	1132.5	1145.6
72.5°	943.6	937.1	943.6	948.3	964.2
75°	770.6	764.1	767.8	771.6	785.6
77.5°	602.3	595.7	603.2	605.1	613.5
80°	444.2	437.7	442.4	443.3	449.8
82.5°	300.2	294.6	301.1	296.5	302.1
85°	173.0	168.3	170.2	168.3	171.1
87.5°	68.3	64.5	65.5	61.7	61.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)