

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: P835003

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-5LO-35-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835003
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-LD4-5LO-35-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

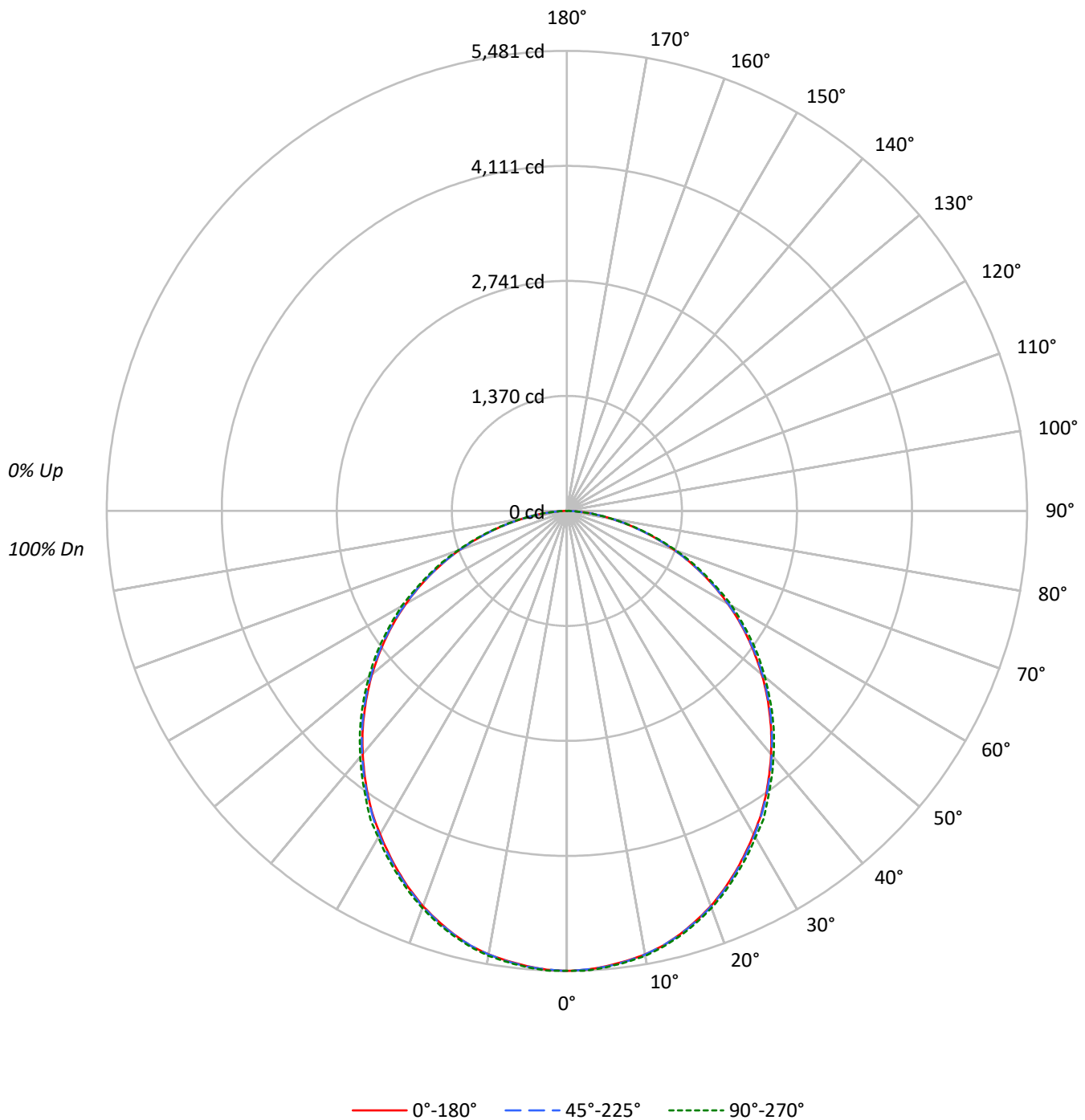
Lumens per Lamp: N/A
Luminaire Lumens: 14807.9 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 117
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°	7373	7373	7373
5°	7354	7360	7369
10°	7331	7332	7354
15°	7270	7275	7295
20°	7176	7184	7210
25°	7046	7063	7095
30°	6914	6936	6979
35°	6787	6804	6858
40°	6644	6666	6726
45°	6498	6526	6593
50°	6341	6370	6443
55°	6161	6191	6292
60°	5957	5981	6116
65°	5697	5714	5823
70°	5347	5352	5468
75°	4860	4842	4955
80°	4176	4159	4228
85°	3240	3188	3205

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.8	3.5
10°-20°	1473.0	9.9
20°-30°	2192.9	14.8
30°-40°	2593.3	17.5
40°-50°	2647.4	17.9
50°-60°	2362.7	16.0
60°-70°	1779.6	12.0
70°-80°	992.4	6.7
80°-90°	248.6	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°	4183.8	28.3
0°-40°	6777.1	45.8
0°-60°	11787.3	79.6
0°-90°	14807.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14807.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5480	5480	5480	5480	5480	
5°	5445	5455	5450	5451	5456	517
15°	5219	5225	5223	5227	5237	1471
25°	4746	4752	4757	4770	4779	2186
35°	4132	4128	4142	4158	4175	2584
45°	3415	3414	3430	3447	3465	2634
55°	2627	2623	2639	2657	2682	2348
65°	1789	1782	1795	1811	1829	1770
75°	935	927	932	936	953	991
85°	210	204	206	204	208	252
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5480.1	5480.1	5480.1	5480.1	5480.1
2.5°	5471.0	5480.1	5468.8	5471.0	5481.2
5°	5444.9	5455.1	5449.5	5450.6	5456.3
7.5°	5408.6	5422.2	5414.3	5416.6	5422.2
10°	5365.5	5375.7	5366.6	5372.3	5382.5
12.5°	5304.2	5308.8	5304.2	5306.5	5317.9
15°	5219.2	5224.8	5222.6	5227.1	5237.3
17.5°	5119.3	5126.1	5125.0	5134.1	5142.0
20°	5011.5	5012.7	5017.2	5026.3	5035.3
22.5°	4884.4	4887.8	4892.4	4904.9	4913.9
25°	4746.0	4751.7	4757.4	4769.8	4778.9
27.5°	4599.7	4605.3	4613.3	4626.9	4641.6
30°	4449.9	4449.9	4464.6	4478.3	4491.9
32.5°	4299.0	4293.3	4306.9	4324.0	4356.9
35°	4132.2	4127.7	4142.4	4158.3	4175.3
37.5°	3958.6	3955.2	3972.2	3989.2	4005.1
40°	3782.7	3778.2	3795.2	3812.2	3829.3
42.5°	3602.3	3600.1	3616.0	3633.0	3651.1
45°	3415.1	3414.0	3429.9	3446.9	3465.1
47.5°	3224.5	3222.3	3238.1	3256.3	3272.2
50°	3029.4	3027.1	3043.0	3061.1	3078.2
52.5°	2828.6	2828.6	2843.3	2859.2	2885.3
55°	2626.6	2623.2	2639.1	2657.2	2682.2
57.5°	2422.4	2417.8	2432.6	2450.7	2473.4
60°	2213.6	2209.1	2222.7	2240.8	2272.6
62.5°	2002.6	1995.8	2009.4	2026.4	2045.7
65°	1789.3	1782.5	1794.9	1810.8	1829.0
67.5°	1574.8	1566.9	1579.4	1593.0	1610.0
70°	1359.2	1351.3	1360.4	1374.0	1389.9
72.5°	1144.8	1136.9	1144.8	1150.5	1169.8
75°	934.9	927.0	931.5	936.0	953.1
77.5°	730.7	722.7	731.8	734.1	744.3
80°	538.9	531.0	536.7	537.8	545.7
82.5°	364.2	357.4	365.3	359.7	366.5
85°	209.9	204.2	206.5	204.2	207.6
87.5°	82.8	78.3	79.4	74.9	74.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)