

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: P835112

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-5STD-35-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835112
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-LD4-5STD-35-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

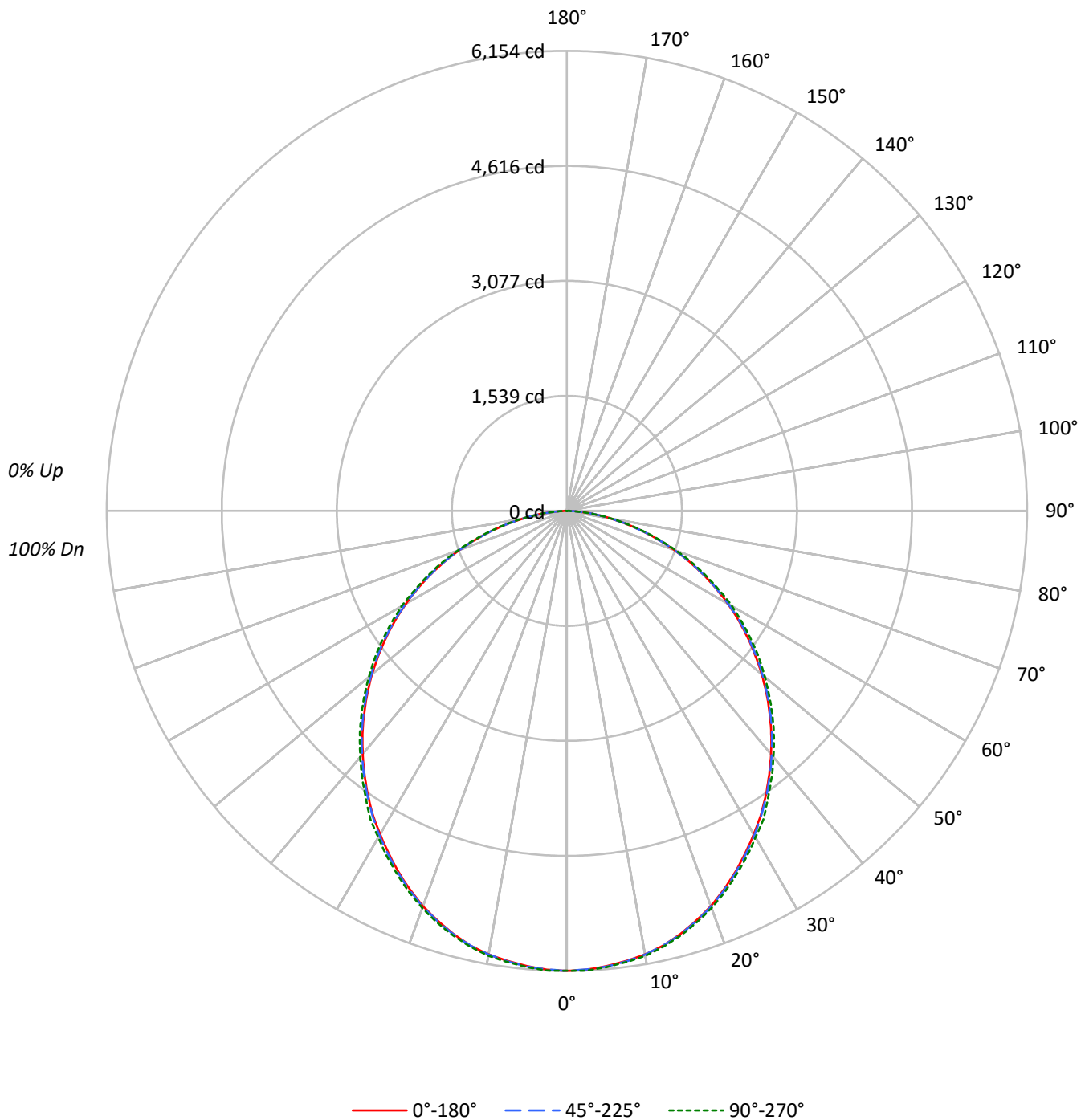
Lumens per Lamp: N/A
Luminaire Lumens: 16625.3 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 166.5
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°	8278	8278	8278
5°	8257	8264	8274
10°	8230	8232	8256
15°	8162	8168	8191
20°	8056	8066	8095
25°	7911	7930	7966
30°	7762	7788	7835
35°	7620	7639	7700
40°	7459	7484	7551
45°	7296	7328	7402
50°	7119	7151	7234
55°	6918	6951	7064
60°	6688	6715	6866
65°	6396	6416	6537
70°	6004	6008	6139
75°	5457	5437	5562
80°	4689	4668	4747
85°	3639	3578	3599

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.4	3.5
10°-20°	1653.8	9.9
20°-30°	2462.1	14.8
30°-40°	2911.6	17.5
40°-50°	2972.4	17.9
50°-60°	2652.7	16.0
60°-70°	1998.0	12.0
70°-80°	1114.2	6.7
80°-90°	279.2	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°	4697.3	28.3
0°-40°	7608.9	45.8
0°-60°	13234.0	79.6
0°-90°	16625.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16625.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6153	6153	6153	6153	6153	
5°	6113	6125	6118	6120	6126	581
15°	5860	5866	5864	5869	5880	1652
25°	5328	5335	5341	5355	5366	2455
35°	4639	4634	4651	4669	4688	2901
45°	3834	3833	3851	3870	3890	2958
55°	2949	2945	2963	2983	3011	2636
65°	2009	2001	2015	2033	2053	1987
75°	1050	1041	1046	1051	1070	1113
85°	236	229	232	229	233	283
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6152.7	6152.7	6152.7	6152.7	6152.7
2.5°	6142.5	6152.7	6140.0	6142.5	6154.0
5°	6113.2	6124.7	6118.3	6119.6	6126.0
7.5°	6072.5	6087.7	6078.8	6081.4	6087.7
10°	6024.0	6035.5	6025.3	6031.7	6043.2
12.5°	5955.3	5960.4	5955.3	5957.8	5970.5
15°	5859.7	5866.1	5863.5	5868.6	5880.1
17.5°	5747.6	5755.3	5754.0	5764.2	5773.1
20°	5626.6	5627.9	5633.0	5643.2	5653.4
22.5°	5483.9	5487.8	5492.8	5506.9	5517.1
25°	5328.5	5334.9	5341.3	5355.3	5365.5
27.5°	5164.2	5170.6	5179.5	5194.8	5211.3
30°	4996.0	4996.0	5012.6	5027.9	5043.2
32.5°	4826.6	4820.3	4835.5	4854.6	4891.6
35°	4639.4	4634.3	4650.8	4668.7	4687.8
37.5°	4444.5	4440.6	4459.8	4478.9	4496.7
40°	4247.0	4241.9	4261.0	4280.1	4299.3
42.5°	4044.5	4041.9	4059.8	4078.9	4099.3
45°	3834.3	3833.0	3850.9	3870.0	3890.3
47.5°	3620.3	3617.7	3635.6	3656.0	3673.8
50°	3401.2	3398.6	3416.5	3436.9	3456.0
52.5°	3175.7	3175.7	3192.3	3210.1	3239.4
55°	2949.0	2945.1	2963.0	2983.4	3011.4
57.5°	2719.7	2714.6	2731.1	2751.5	2777.0
60°	2485.3	2480.2	2495.5	2515.9	2551.5
62.5°	2248.3	2240.7	2256.0	2275.1	2296.8
65°	2008.9	2001.2	2015.2	2033.1	2053.4
67.5°	1768.1	1759.2	1773.2	1788.5	1807.6
70°	1526.1	1517.2	1527.3	1542.6	1560.5
72.5°	1285.3	1276.4	1285.3	1291.7	1313.3
75°	1049.7	1040.7	1045.8	1050.9	1070.0
77.5°	820.4	811.4	821.6	824.2	835.6
80°	605.1	596.2	602.5	603.8	612.7
82.5°	408.9	401.3	410.2	403.8	411.5
85°	235.7	229.3	231.8	229.3	233.1
87.5°	93.0	87.9	89.2	84.1	84.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)