

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: P835044

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-6HI-50-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835044
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-LD4-6HI-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

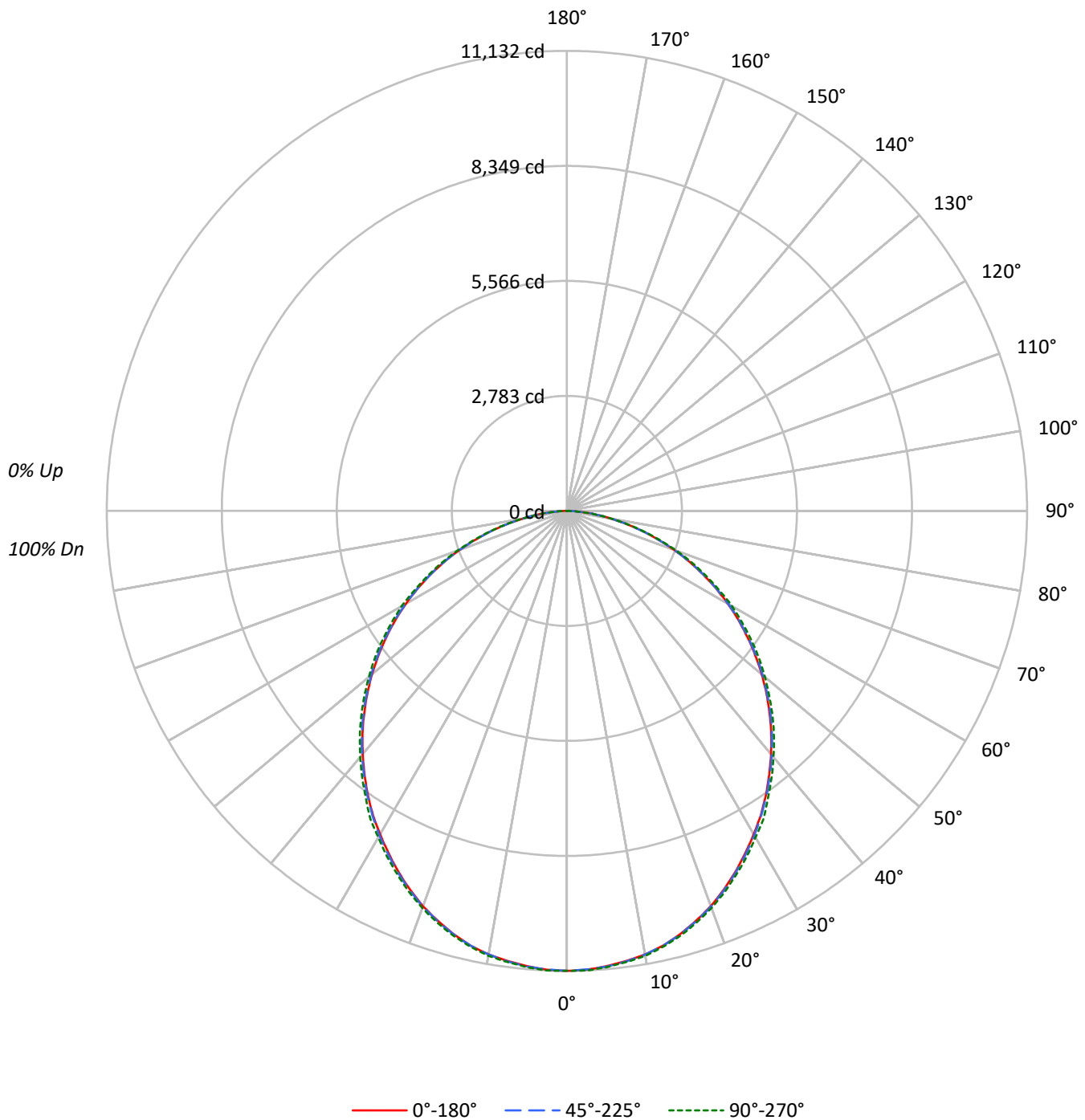
Lumens per Lamp: N/A
Luminaire Lumens: 30072.9 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 264
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°	14974	14974	14974
5°	14935	14948	14966
10°	14888	14891	14935
15°	14764	14774	14816
20°	14573	14589	14642
25°	14309	14343	14408
30°	14041	14087	14173
35°	13784	13818	13928
40°	13493	13538	13659
45°	13197	13254	13390
50°	12878	12936	13085
55°	12513	12572	12778
60°	12097	12147	12420
65°	11569	11606	11826
70°	10860	10869	11104
75°	9871	9835	10062
80°	8481	8445	8588
85°	6581	6475	6510

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1051.7	3.5
10°-20°	2991.6	9.9
20°-30°	4453.5	14.8
30°-40°	5266.7	17.5
40°-50°	5376.6	17.9
50°-60°	4798.3	16.0
60°-70°	3614.0	12.0
70°-80°	2015.5	6.7
80°-90°	505.0	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°	8496.8	28.3
0°-40°	13763.5	45.8
0°-60°	23938.4	79.6
0°-90°	30072.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30072.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11129	11129	11129	11129	11129	
5°	11058	11079	11067	11070	11081	###
15°	10599	10611	10606	10616	10636	2987
25°	9639	9650	9662	9687	9705	4440
35°	8392	8383	8413	8445	8480	5248
45°	6936	6933	6966	7000	7037	5350
55°	5334	5327	5360	5396	5447	4768
65°	3634	3620	3645	3678	3714	3594
75°	1899	1883	1892	1901	1936	2013
85°	426	415	419	415	422	512
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11129.4	11129.4	11129.4	11129.4	11129.4
2.5°	11111.0	11129.4	11106.4	11111.0	11131.7
5°	11058.0	11078.7	11067.2	11069.5	11081.0
7.5°	10984.2	11011.9	10995.8	11000.4	11011.9
10°	10896.7	10917.4	10899.0	10910.5	10931.2
12.5°	10772.2	10781.5	10772.2	10776.9	10799.9
15°	10599.4	10610.9	10606.3	10615.6	10636.3
17.5°	10396.7	10410.5	10408.2	10426.6	10442.7
20°	10177.8	10180.1	10189.3	10207.7	10226.1
22.5°	9919.7	9926.6	9935.8	9961.2	9979.6
25°	9638.6	9650.1	9661.6	9687.0	9705.4
27.5°	9341.3	9352.8	9369.0	9396.6	9426.6
30°	9037.2	9037.2	9067.1	9094.8	9122.4
32.5°	8730.7	8719.2	8746.8	8781.4	8848.2
35°	8392.0	8382.8	8412.7	8445.0	8479.5
37.5°	8039.4	8032.5	8067.1	8101.6	8133.9
40°	7682.3	7673.1	7707.6	7742.2	7776.8
42.5°	7315.9	7311.3	7343.6	7378.1	7415.0
45°	6935.7	6933.4	6965.7	7000.2	7037.1
47.5°	6548.6	6544.0	6576.3	6613.1	6645.4
50°	6152.3	6147.7	6179.9	6216.8	6251.4
52.5°	5744.4	5744.4	5774.4	5806.6	5859.6
55°	5334.3	5327.4	5359.6	5396.5	5447.2
57.5°	4919.5	4910.3	4940.3	4977.1	5023.2
60°	4495.5	4486.3	4514.0	4550.8	4615.4
62.5°	4067.0	4053.1	4080.8	4115.3	4154.5
65°	3633.8	3619.9	3645.3	3677.5	3714.4
67.5°	3198.3	3182.1	3207.5	3235.1	3269.7
70°	2760.5	2744.3	2762.8	2790.4	2822.7
72.5°	2325.0	2308.8	2325.0	2336.5	2375.7
75°	1898.7	1882.6	1891.8	1901.0	1935.5
77.5°	1483.9	1467.8	1486.2	1490.8	1511.6
80°	1094.5	1078.4	1089.9	1092.2	1108.3
82.5°	739.7	725.8	742.0	730.4	744.3
85°	426.3	414.8	419.4	414.8	421.7
87.5°	168.2	159.0	161.3	152.1	152.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)