

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: P835130

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-5STD-40-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835130
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-40-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

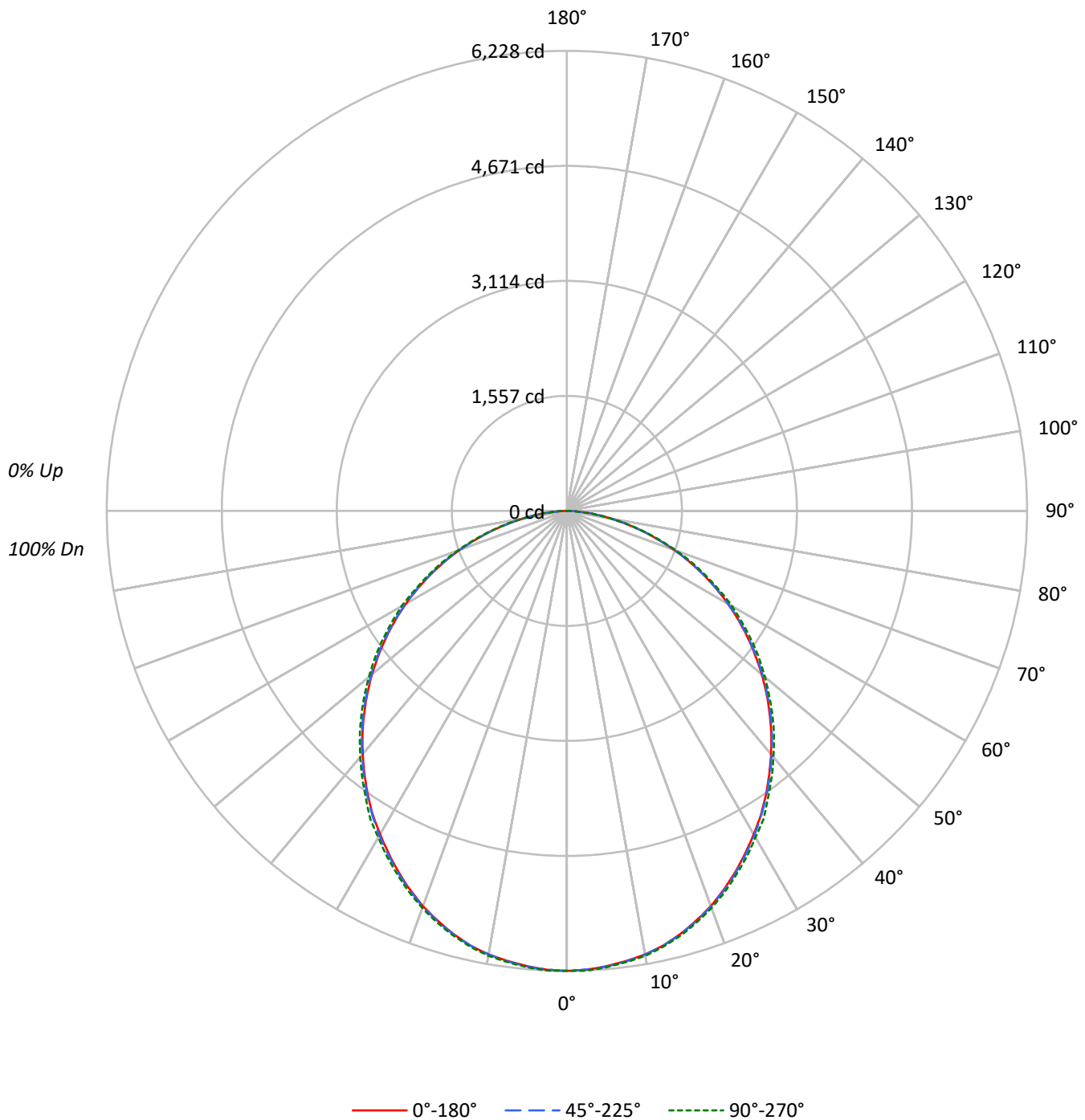
Lumens per Lamp: N/A
Luminaire Lumens: 16825.6 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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°	8378	8378	8378
5°	8356	8363	8374
10°	8329	8331	8356
15°	8261	8266	8289
20°	8153	8163	8192
25°	8006	8025	8061
30°	7856	7882	7930
35°	7712	7731	7793
40°	7549	7574	7642
45°	7384	7416	7492
50°	7205	7237	7321
55°	7001	7034	7149
60°	6768	6796	6949
65°	6473	6493	6616
70°	6076	6081	6213
75°	5522	5502	5630
80°	4745	4725	4805
85°	3682	3622	3642

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.4	3.5
10°-20°	1673.8	9.9
20°-30°	2491.7	14.8
30°-40°	2946.7	17.5
40°-50°	3008.2	17.9
50°-60°	2684.6	16.0
60°-70°	2022.0	12.0
70°-80°	1127.6	6.7
80°-90°	282.5	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°	4753.9	28.3
0°-40°	7700.6	45.8
0°-60°	13393.4	79.6
0°-90°	16825.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16825.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6227	6227	6227	6227	6227	
5°	6187	6198	6192	6193	6200	588
15°	5930	5937	5934	5939	5951	1671
25°	5393	5399	5406	5420	5430	2484
35°	4695	4690	4707	4725	4744	2936
45°	3880	3879	3897	3917	3937	2993
55°	2984	2981	2999	3019	3048	2668
65°	2033	2025	2040	2058	2078	2011
75°	1062	1053	1058	1064	1083	1126
85°	238	232	235	232	236	286
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6226.8	6226.8	6226.8	6226.8	6226.8
2.5°	6216.5	6226.8	6213.9	6216.5	6228.1
5°	6186.9	6198.5	6192.0	6193.3	6199.8
7.5°	6145.6	6161.1	6152.1	6154.6	6161.1
10°	6096.6	6108.2	6097.9	6104.4	6116.0
12.5°	6027.0	6032.2	6027.0	6029.6	6042.5
15°	5930.3	5936.8	5934.2	5939.3	5950.9
17.5°	5816.9	5824.6	5823.3	5833.6	5842.7
20°	5694.4	5695.7	5700.8	5711.2	5721.5
22.5°	5550.0	5553.9	5559.0	5573.2	5583.5
25°	5392.7	5399.2	5405.6	5419.8	5430.1
27.5°	5226.4	5232.9	5241.9	5257.4	5274.1
30°	5056.2	5056.2	5073.0	5088.5	5103.9
32.5°	4884.8	4878.3	4893.8	4913.1	4950.5
35°	4695.3	4690.1	4706.9	4724.9	4744.3
37.5°	4498.0	4494.1	4513.5	4532.8	4550.9
40°	4298.2	4293.0	4312.4	4331.7	4351.0
42.5°	4093.2	4090.6	4108.7	4128.0	4148.6
45°	3880.5	3879.2	3897.3	3916.6	3937.2
47.5°	3663.9	3661.3	3679.4	3700.0	3718.1
50°	3442.2	3439.6	3457.6	3478.3	3497.6
52.5°	3214.0	3214.0	3230.7	3248.8	3278.4
55°	2984.5	2980.6	2998.7	3019.3	3047.7
57.5°	2752.4	2747.3	2764.0	2784.7	2810.5
60°	2515.2	2510.1	2525.5	2546.2	2582.3
62.5°	2275.4	2267.7	2283.2	2302.5	2324.4
65°	2033.1	2025.3	2039.5	2057.6	2078.2
67.5°	1789.4	1780.4	1794.6	1810.0	1829.4
70°	1544.5	1535.4	1545.8	1561.2	1579.3
72.5°	1300.8	1291.8	1300.8	1307.2	1329.2
75°	1062.3	1053.3	1058.4	1063.6	1082.9
77.5°	830.2	821.2	831.5	834.1	845.7
80°	612.4	603.3	609.8	611.1	620.1
82.5°	413.8	406.1	415.1	408.7	416.4
85°	238.5	232.1	234.6	232.1	235.9
87.5°	94.1	89.0	90.2	85.1	85.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)