

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: P834450

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-3HI-50-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834450
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-OPL-LD4-3HI-50-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

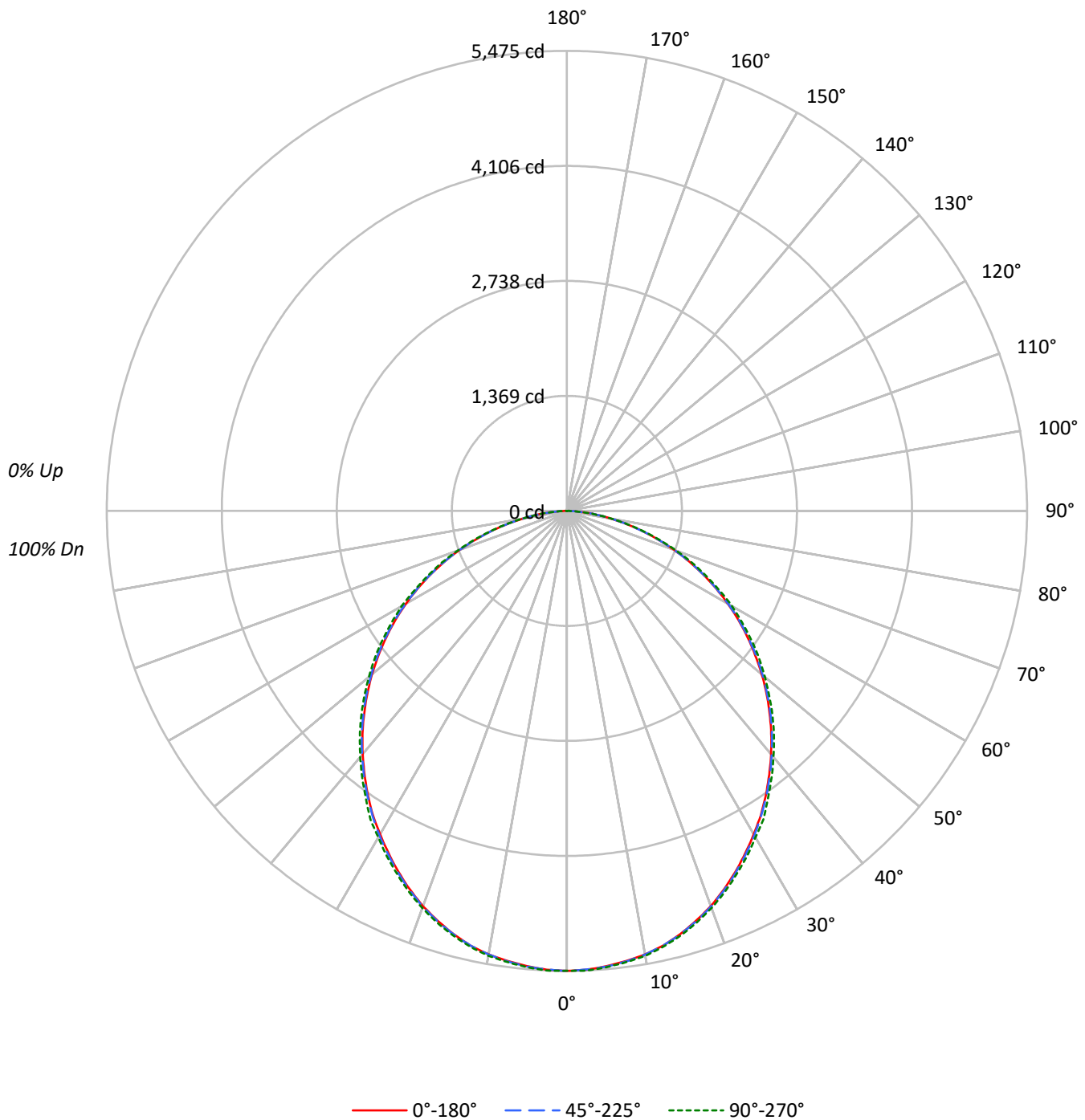
Lumens per Lamp: N/A
Luminaire Lumens: 14791.8 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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°	14731	14731	14731
5°	14692	14705	14723
10°	14645	14648	14692
15°	14524	14534	14575
20°	14336	14352	14404
25°	14077	14110	14174
30°	13812	13858	13942
35°	13560	13593	13701
40°	13274	13317	13437
45°	12982	13039	13172
50°	12669	12725	12872
55°	12310	12368	12570
60°	11901	11950	12218
65°	11380	11417	11633
70°	10683	10692	10924
75°	9710	9675	9898
80°	8343	8308	8449
85°	6475	6370	6404

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.3	3.5
10°-20°	1471.5	9.9
20°-30°	2190.5	14.8
30°-40°	2590.5	17.5
40°-50°	2644.6	17.9
50°-60°	2360.1	16.0
60°-70°	1777.6	12.0
70°-80°	991.3	6.7
80°-90°	248.4	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°	4179.3	28.3
0°-40°	6769.8	45.8
0°-60°	11774.5	79.6
0°-90°	14791.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14791.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5474	5474	5474	5474	5474	
5°	5439	5449	5444	5445	5450	517
15°	5214	5219	5217	5221	5232	1469
25°	4741	4747	4752	4765	4774	2184
35°	4128	4123	4138	4154	4171	2581
45°	3411	3410	3426	3443	3461	2632
55°	2624	2620	2636	2654	2679	2345
65°	1787	1780	1793	1809	1827	1768
75°	934	926	930	935	952	990
85°	210	204	206	204	207	252
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5474.2	5474.2	5474.2	5474.2	5474.2
2.5°	5465.1	5474.2	5462.8	5465.1	5475.3
5°	5439.0	5449.2	5443.6	5444.7	5450.4
7.5°	5402.8	5416.4	5408.4	5410.7	5416.4
10°	5359.7	5369.9	5360.8	5366.5	5376.7
12.5°	5298.5	5303.0	5298.5	5300.8	5312.1
15°	5213.5	5219.2	5216.9	5221.4	5231.6
17.5°	5113.8	5120.6	5119.4	5128.5	5136.4
20°	5006.1	5007.2	5011.8	5020.8	5029.9
22.5°	4879.2	4882.6	4887.1	4899.6	4908.6
25°	4740.9	4746.6	4752.2	4764.7	4773.8
27.5°	4594.7	4600.3	4608.3	4621.9	4636.6
30°	4445.1	4445.1	4459.8	4473.4	4487.0
32.5°	4294.3	4288.7	4302.3	4319.3	4352.1
35°	4127.7	4123.2	4137.9	4153.8	4170.8
37.5°	3954.3	3950.9	3967.9	3984.9	4000.8
40°	3778.7	3774.1	3791.1	3808.1	3825.1
42.5°	3598.4	3596.2	3612.0	3629.1	3647.2
45°	3411.4	3410.3	3426.2	3443.2	3461.3
47.5°	3221.0	3218.8	3234.6	3252.8	3268.6
50°	3026.1	3023.8	3039.7	3057.8	3074.8
52.5°	2825.5	2825.5	2840.2	2856.1	2882.2
55°	2623.8	2620.4	2636.2	2654.4	2679.3
57.5°	2419.7	2415.2	2429.9	2448.1	2470.7
60°	2211.2	2206.7	2220.3	2238.4	2270.1
62.5°	2000.4	1993.6	2007.2	2024.2	2043.5
65°	1787.3	1780.5	1793.0	1808.9	1827.0
67.5°	1573.1	1565.2	1577.7	1591.3	1608.3
70°	1357.8	1349.8	1358.9	1372.5	1388.4
72.5°	1143.6	1135.6	1143.6	1149.2	1168.5
75°	933.9	926.0	930.5	935.0	952.0
77.5°	729.9	722.0	731.0	733.3	743.5
80°	538.4	530.4	536.1	537.2	545.2
82.5°	363.8	357.0	364.9	359.3	366.1
85°	209.7	204.0	206.3	204.0	207.4
87.5°	82.7	78.2	79.3	74.8	74.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)