

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: P835059

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-5HI-20-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835059
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-LD4-5HI-20-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

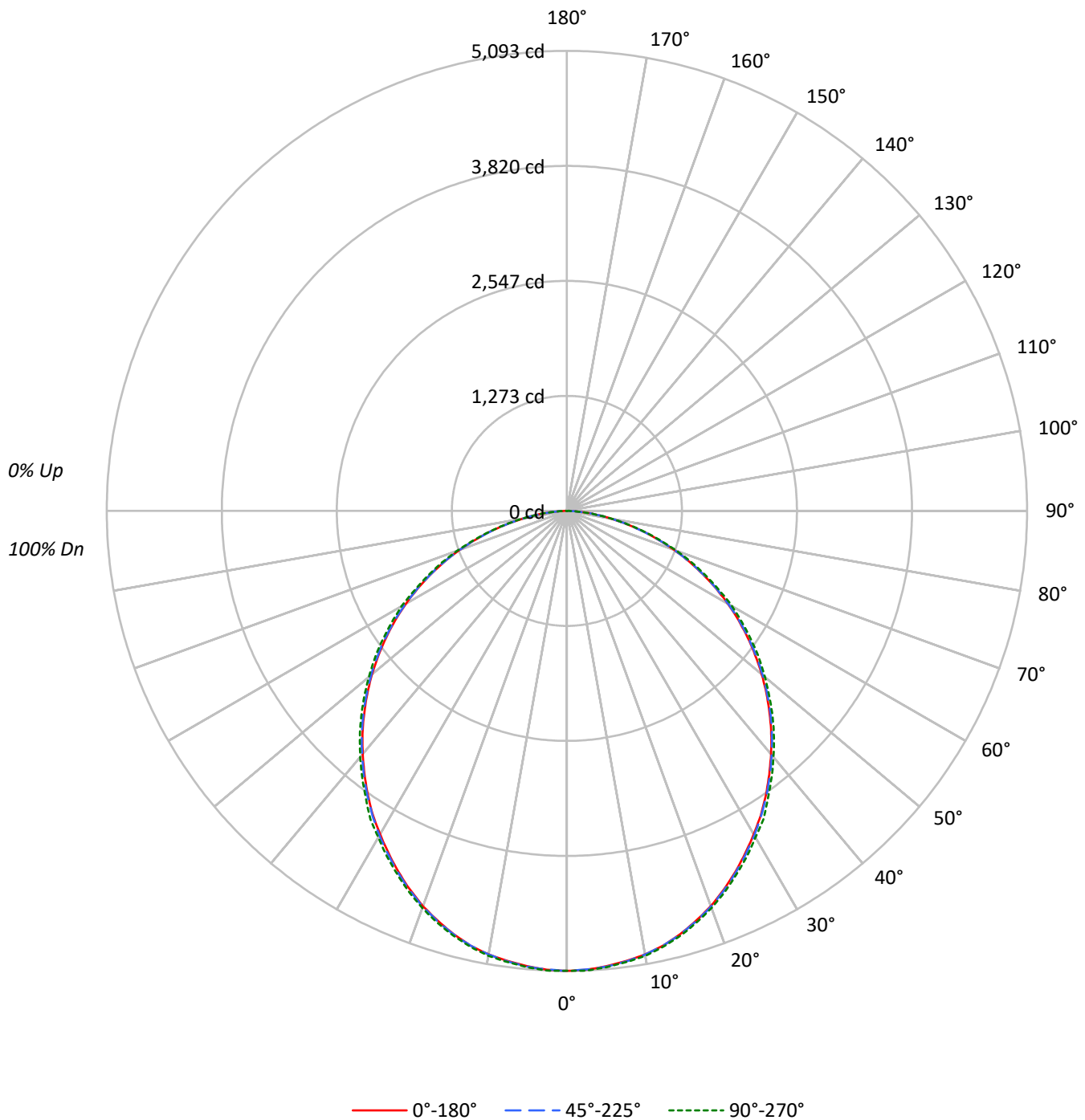
Lumens per Lamp: N/A
Luminaire Lumens: 13759.0 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 220
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°	6851	6851	6851
5°	6833	6839	6847
10°	6811	6813	6833
15°	6755	6759	6779
20°	6667	6675	6699
25°	6547	6562	6592
30°	6424	6445	6484
35°	6307	6322	6372
40°	6173	6194	6249
45°	6038	6064	6126
50°	5892	5919	5987
55°	5725	5752	5846
60°	5535	5557	5682
65°	5293	5310	5410
70°	4969	4973	5080
75°	4516	4499	4604
80°	3880	3864	3929
85°	3010	2963	2978

Classified

Scaled Data Report

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CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-5HI-20-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.2	3.5
10°-20°	1368.7	9.9
20°-30°	2037.6	14.8
30°-40°	2409.6	17.5
40°-50°	2459.9	17.9
50°-60°	2195.3	16.0
60°-70°	1653.5	12.0
70°-80°	922.1	6.7
80°-90°	231.0	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°	3887.5	28.3
0°-40°	6297.1	45.8
0°-60°	10952.4	79.6
0°-90°	13759.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13759.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5092	5092	5092	5092	5092	
5°	5059	5069	5064	5064	5070	481
15°	4850	4855	4853	4857	4866	1367
25°	4410	4415	4420	4432	4440	2032
35°	3840	3835	3849	3864	3880	2401
45°	3173	3172	3187	3203	3220	2448
55°	2441	2437	2452	2469	2492	2182
65°	1662	1656	1668	1683	1699	1644
75°	869	861	866	870	886	921
85°	195	190	192	190	193	234
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5091.9	5091.9	5091.9	5091.9	5091.9
2.5°	5083.5	5091.9	5081.4	5083.5	5093.0
5°	5059.3	5068.8	5063.5	5064.5	5069.8
7.5°	5025.5	5038.2	5030.8	5032.9	5038.2
10°	4985.5	4995.0	4986.5	4991.8	5001.3
12.5°	4928.5	4932.8	4928.5	4930.6	4941.2
15°	4849.5	4854.7	4852.6	4856.9	4866.3
17.5°	4756.7	4763.0	4762.0	4770.4	4777.8
20°	4656.5	4657.6	4661.8	4670.3	4678.7
22.5°	4538.5	4541.6	4545.9	4557.5	4565.9
25°	4409.9	4415.1	4420.4	4432.0	4440.4
27.5°	4273.9	4279.1	4286.5	4299.2	4312.9
30°	4134.7	4134.7	4148.4	4161.1	4173.7
32.5°	3994.5	3989.2	4001.9	4017.7	4048.3
35°	3839.5	3835.3	3849.0	3863.8	3879.6
37.5°	3678.2	3675.1	3690.9	3706.7	3721.4
40°	3514.8	3510.6	3526.4	3542.2	3558.0
42.5°	3347.2	3345.1	3359.8	3375.7	3392.5
45°	3173.2	3172.2	3186.9	3202.8	3219.6
47.5°	2996.1	2994.0	3008.8	3025.6	3040.4
50°	2814.8	2812.7	2827.5	2844.3	2860.1
52.5°	2628.2	2628.2	2641.9	2656.7	2680.9
55°	2440.6	2437.4	2452.1	2469.0	2492.2
57.5°	2250.8	2246.6	2260.3	2277.1	2298.2
60°	2056.8	2052.6	2065.2	2082.1	2111.6
62.5°	1860.7	1854.4	1867.0	1882.9	1900.8
65°	1662.5	1656.2	1667.8	1682.6	1699.4
67.5°	1463.3	1455.9	1467.5	1480.1	1496.0
70°	1263.0	1255.6	1264.0	1276.7	1291.4
72.5°	1063.7	1056.3	1063.7	1069.0	1086.9
75°	868.7	861.3	865.5	869.7	885.6
77.5°	678.9	671.5	680.0	682.1	691.6
80°	500.8	493.4	498.7	499.7	507.1
82.5°	338.4	332.1	339.5	334.2	340.5
85°	195.0	189.8	191.9	189.8	192.9
87.5°	77.0	72.7	73.8	69.6	69.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)