

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: P835095

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-5HI-30-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835095
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-30-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

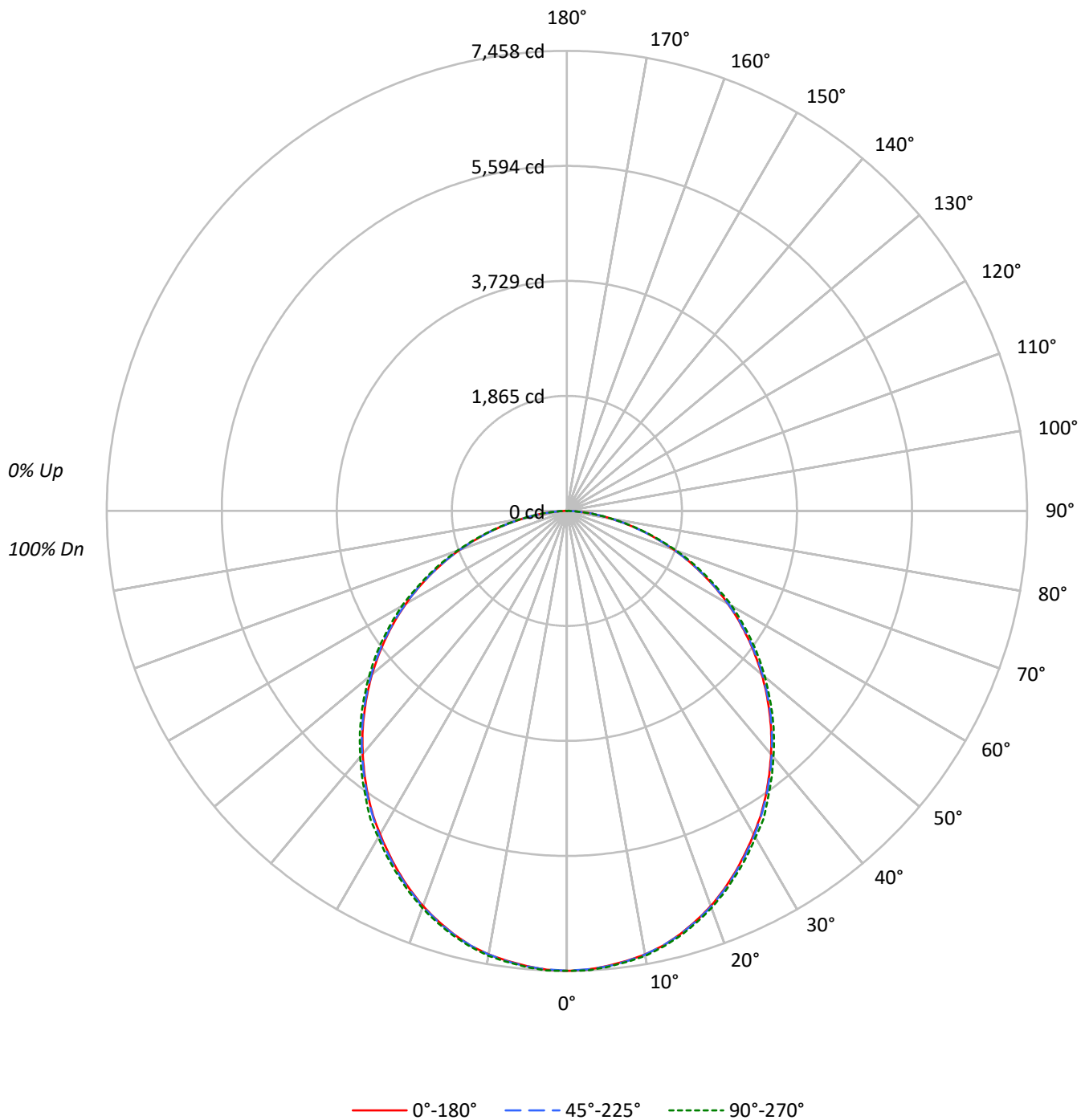
Lumens per Lamp: N/A
Luminaire Lumens: 20147.1 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

1121 Highway 74 South

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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	100		
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59		
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51		
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44		
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38		
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10032	10032	10032
5°	10006	10014	10027
10°	9974	9976	10005
15°	9891	9898	9926
20°	9763	9774	9809
25°	9586	9609	9653
30°	9406	9438	9495
35°	9235	9257	9331
40°	9040	9070	9151
45°	8841	8880	8971
50°	8628	8666	8767
55°	8383	8423	8560
60°	8105	8138	8321
65°	7750	7775	7922
70°	7275	7281	7439
75°	6613	6589	6741
80°	5682	5658	5753
85°	4409	4338	4361

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	704.6	3.5
10°-20°	2004.2	9.9
20°-30°	2983.6	14.8
30°-40°	3528.4	17.5
40°-50°	3602.0	17.9
50°-60°	3214.6	16.0
60°-70°	2421.2	12.0
70°-80°	1350.3	6.7
80°-90°	338.3	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°	5692.4	28.3
0°-40°	9220.8	45.8
0°-60°	16037.4	79.6
0°-90°	20147.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20147.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7456	7456	7456	7456	7456	
5°	7408	7422	7414	7416	7424	704
15°	7101	7109	7106	7112	7126	2001
25°	6457	6465	6473	6490	6502	2975
35°	5622	5616	5636	5658	5681	3516
45°	4646	4645	4667	4690	4714	3584
55°	3574	3569	3591	3615	3649	3194
65°	2434	2425	2442	2464	2488	2408
75°	1272	1261	1267	1274	1297	1348
85°	286	278	281	278	282	343
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7456.1	7456.1	7456.1	7456.1	7456.1
2.5°	7443.7	7456.1	7440.6	7443.7	7457.6
5°	7408.2	7422.1	7414.4	7415.9	7423.6
7.5°	7358.8	7377.3	7366.5	7369.6	7377.3
10°	7300.2	7314.0	7301.7	7309.4	7323.3
12.5°	7216.8	7223.0	7216.8	7219.9	7235.3
15°	7101.0	7108.7	7105.6	7111.8	7125.7
17.5°	6965.2	6974.4	6972.9	6985.2	6996.0
20°	6818.5	6820.1	6826.2	6838.6	6850.9
22.5°	6645.6	6650.3	6656.4	6673.4	6685.8
25°	6457.3	6465.0	6472.7	6489.7	6502.1
27.5°	6258.2	6265.9	6276.7	6295.2	6315.3
30°	6054.4	6054.4	6074.5	6093.0	6111.5
32.5°	5849.1	5841.4	5859.9	5883.0	5927.8
35°	5622.2	5616.0	5636.0	5657.7	5680.8
37.5°	5386.0	5381.3	5404.5	5427.6	5449.3
40°	5146.7	5140.5	5163.7	5186.8	5210.0
42.5°	4901.2	4898.2	4919.8	4942.9	4967.6
45°	4646.5	4645.0	4666.6	4689.8	4714.5
47.5°	4387.2	4384.1	4405.7	4430.4	4452.0
50°	4121.7	4118.6	4140.2	4164.9	4188.1
52.5°	3848.4	3848.4	3868.5	3890.1	3925.6
55°	3573.7	3569.0	3590.6	3615.3	3649.3
57.5°	3295.8	3289.6	3309.7	3334.4	3365.3
60°	3011.8	3005.6	3024.1	3048.8	3092.0
62.5°	2724.6	2715.4	2733.9	2757.0	2783.3
65°	2434.4	2425.2	2442.1	2463.7	2488.4
67.5°	2142.7	2131.8	2148.8	2167.4	2190.5
70°	1849.4	1838.5	1850.9	1869.4	1891.0
72.5°	1557.6	1546.8	1557.6	1565.3	1591.6
75°	1272.0	1261.2	1267.4	1273.6	1296.7
77.5°	994.1	983.3	995.7	998.8	1012.7
80°	733.3	722.5	730.2	731.7	742.5
82.5°	495.5	486.3	497.1	489.4	498.6
85°	285.6	277.9	281.0	277.9	282.5
87.5°	112.7	106.5	108.1	101.9	101.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)