

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P835688

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-5STD-50-120-EDD**

Issue Date: 5/16/2024

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**Test Information**

Test Method: LM-79-08
Report Number: P835688
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-OPL-LD4-5STD-50-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

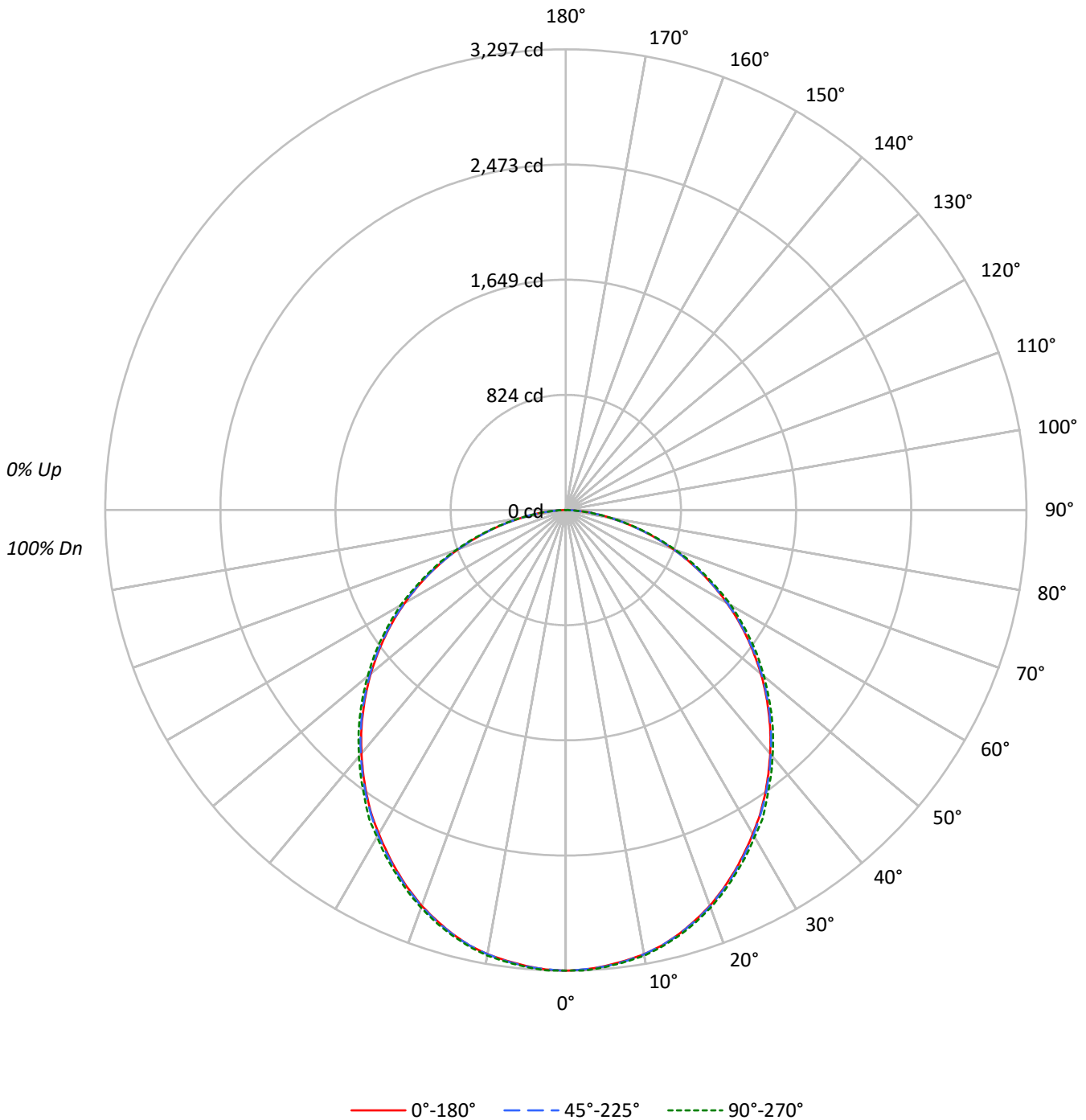
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8907.4 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 83.2
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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
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°	8871	8871	8871
5°	8847	8855	8866
10°	8819	8821	8847
15°	8746	8752	8777
20°	8633	8643	8674
25°	8477	8497	8535
30°	8318	8345	8396
35°	8166	8186	8251
40°	7993	8020	8091
45°	7818	7852	7932
50°	7629	7663	7752
55°	7413	7448	7569
60°	7167	7196	7357
65°	6853	6875	7005
70°	6433	6438	6578
75°	5847	5826	5961
80°	5024	5002	5088
85°	3900	3835	3856



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.5	3.5
10°-20°	886.1	9.9
20°-30°	1319.1	14.8
30°-40°	1560.0	17.5
40°-50°	1592.5	17.9
50°-60°	1421.2	16.0
60°-70°	1070.5	12.0
70°-80°	597.0	6.7
80°-90°	149.6	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°	2516.7	28.3
0°-40°	4076.7	45.8
0°-60°	7090.4	79.6
0°-90°	8907.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8907.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3296	3296	3296	3296	3296	
5°	3275	3281	3278	3279	3282	311
15°	3140	3143	3142	3144	3150	885
25°	2855	2858	2862	2869	2875	1315
35°	2486	2483	2492	2501	2512	1554
45°	2054	2054	2063	2073	2084	1585
55°	1580	1578	1588	1598	1613	1412
65°	1076	1072	1080	1089	1100	1065
75°	562	558	560	563	573	596
85°	126	123	124	123	125	152
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3296.5	3296.5	3296.5	3296.5	3296.5
2.5°	3291.0	3296.5	3289.6	3291.0	3297.1
5°	3275.3	3281.4	3278.0	3278.7	3282.1
7.5°	3253.5	3261.7	3256.9	3258.2	3261.7
10°	3227.5	3233.7	3228.2	3231.6	3237.8
12.5°	3190.7	3193.4	3190.7	3192.0	3198.9
15°	3139.5	3142.9	3141.5	3144.3	3150.4
17.5°	3079.4	3083.5	3082.8	3088.3	3093.1
20°	3014.6	3015.3	3018.0	3023.5	3028.9
22.5°	2938.1	2940.2	2942.9	2950.4	2955.9
25°	2854.9	2858.3	2861.7	2869.2	2874.7
27.5°	2766.8	2770.3	2775.0	2783.2	2792.1
30°	2676.8	2676.8	2685.6	2693.8	2702.0
32.5°	2586.0	2582.6	2590.8	2601.0	2620.8
35°	2485.7	2482.9	2491.8	2501.4	2511.6
37.5°	2381.2	2379.2	2389.4	2399.7	2409.2
40°	2275.4	2272.7	2283.0	2293.2	2303.4
42.5°	2166.9	2165.6	2175.1	2185.4	2196.3
45°	2054.3	2053.6	2063.2	2073.4	2084.3
47.5°	1939.7	1938.3	1947.8	1958.8	1968.3
50°	1822.3	1820.9	1830.5	1841.4	1851.6
52.5°	1701.5	1701.5	1710.3	1719.9	1735.6
55°	1580.0	1577.9	1587.5	1598.4	1613.4
57.5°	1457.1	1454.4	1463.3	1474.2	1487.8
60°	1331.6	1328.8	1337.0	1347.9	1367.0
62.5°	1204.6	1200.5	1208.7	1218.9	1230.5
65°	1076.3	1072.2	1079.7	1089.3	1100.2
67.5°	947.3	942.5	950.0	958.2	968.5
70°	817.6	812.9	818.3	826.5	836.1
72.5°	688.6	683.9	688.6	692.1	703.7
75°	562.4	557.6	560.3	563.1	573.3
77.5°	439.5	434.8	440.2	441.6	447.7
80°	324.2	319.4	322.8	323.5	328.3
82.5°	219.1	215.0	219.8	216.4	220.4
85°	126.3	122.8	124.2	122.8	124.9
87.5°	49.8	47.1	47.8	45.0	45.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)