

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: P835025

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-6STD-40-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835025
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-LD4-6STD-40-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

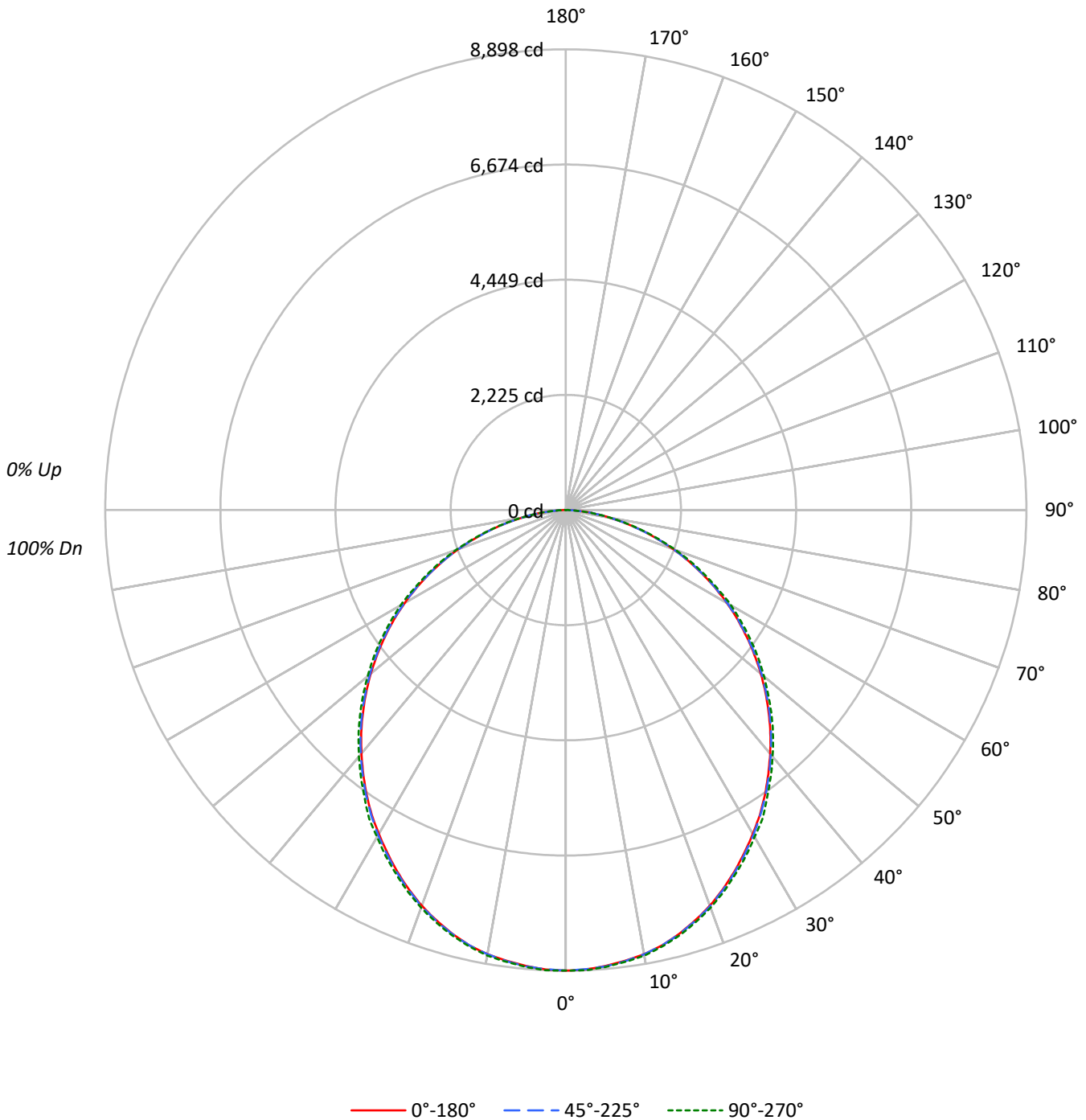
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24037.7 lumens
Efficiency: N/A
Efficacy: 120.3 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): 199.8
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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	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	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11969	11969	11969
5°	11938	11948	11963
10°	11900	11902	11938
15°	11802	11809	11843
20°	11648	11661	11704
25°	11438	11465	11517
30°	11223	11260	11329
35°	11018	11045	11133
40°	10785	10821	10918
45°	10549	10594	10703
50°	10294	10340	10459
55°	10002	10049	10214
60°	9670	9709	9927
65°	9247	9276	9452
70°	8680	8687	8876
75°	7889	7861	8043
80°	6779	6750	6864
85°	5260	5175	5203



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	840.6	3.5
10°-20°	2391.2	9.9
20°-30°	3559.8	14.8
30°-40°	4209.8	17.5
40°-50°	4297.6	17.9
50°-60°	3835.4	16.0
60°-70°	2888.8	12.0
70°-80°	1611.0	6.7
80°-90°	403.6	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°	6791.6	28.3
0°-40°	11001.4	45.8
0°-60°	19134.3	79.6
0°-90°	24037.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24037.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8896	8896	8896	8896	8896	
5°	8839	8855	8846	8848	8857	840
15°	8472	8482	8478	8485	8502	2388
25°	7704	7714	7723	7743	7758	3549
35°	6708	6700	6724	6750	6778	4195
45°	5544	5542	5568	5595	5625	4277
55°	4264	4258	4284	4314	4354	3811
65°	2904	2894	2914	2940	2969	2873
75°	1518	1505	1512	1520	1547	1609
85°	341	332	335	332	337	409
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8895.9	8895.9	8895.9	8895.9	<i>8895.9</i>
2.5°	<i>8881.2</i>	<i>8895.9</i>	<i>8877.5</i>	<i>8881.2</i>	<i>8897.7</i>
5°	8838.8	8855.4	8846.2	8848.0	<i>8857.2</i>
7.5°	8779.9	8802.0	8789.1	8792.8	<i>8802.0</i>
10°	8709.9	8726.5	8711.7	8720.9	<i>8737.5</i>
12.5°	8610.4	8617.8	8610.4	8614.1	<i>8632.5</i>
15°	8472.3	8481.5	8477.8	8485.2	<i>8501.8</i>
17.5°	8310.2	8321.3	8319.4	8334.2	<i>8347.0</i>
20°	8135.2	8137.1	8144.4	8159.2	<i>8173.9</i>
22.5°	7929.0	7934.5	7941.8	7962.1	<i>7976.8</i>
25°	7704.3	7713.5	7722.7	7742.9	<i>7757.7</i>
27.5°	7466.7	7475.9	7488.8	7510.9	<i>7534.8</i>
30°	7223.5	7223.5	7247.5	7269.6	<i>7291.7</i>
32.5°	6978.6	6969.4	6991.5	7019.1	<i>7072.5</i>
35°	6707.8	6700.5	6724.4	6750.2	<i>6777.8</i>
37.5°	6426.0	6420.5	6448.1	6475.8	<i>6501.6</i>
40°	6140.6	6133.2	6160.8	6188.5	<i>6216.1</i>
42.5°	5847.7	5844.0	5869.8	5897.4	<i>5926.9</i>
45°	5543.8	5542.0	5567.8	5595.4	<i>5624.9</i>
47.5°	5234.4	5230.7	5256.5	5286.0	<i>5311.8</i>
50°	4917.6	4913.9	4939.7	4969.2	<i>4996.8</i>
52.5°	4591.6	4591.6	4615.6	4641.3	<i>4683.7</i>
55°	4263.8	4258.2	4284.0	4313.5	<i>4354.0</i>
57.5°	3932.2	3924.9	3948.8	3978.3	<i>4015.1</i>
60°	3593.4	3586.0	3608.1	3637.6	<i>3689.1</i>
62.5°	3250.8	3239.7	3261.8	3289.5	<i>3320.8</i>
65°	2904.5	2893.5	2913.7	2939.5	<i>2969.0</i>
67.5°	2556.4	2543.5	2563.8	2585.9	<i>2613.5</i>
70°	2206.5	2193.6	2208.3	2230.4	<i>2256.2</i>
72.5°	1858.4	1845.5	1858.4	1867.6	<i>1898.9</i>
75°	1517.6	1504.8	1512.1	1519.5	<i>1547.1</i>
77.5°	1186.1	1173.2	1188.0	1191.6	<i>1208.2</i>
80°	874.9	862.0	871.2	873.0	<i>885.9</i>
82.5°	591.2	580.2	593.1	583.9	<i>594.9</i>
85°	340.7	331.5	335.2	331.5	<i>337.0</i>
87.5°	134.5	127.1	128.9	121.6	<i>121.6</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)