

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: P834402

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-2HI-20-120-EDD**

Issue Date: 5/16/2024

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

**Test Information**

Test Method: LM-79-08
Report Number: P834402
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-LD4-2HI-20-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

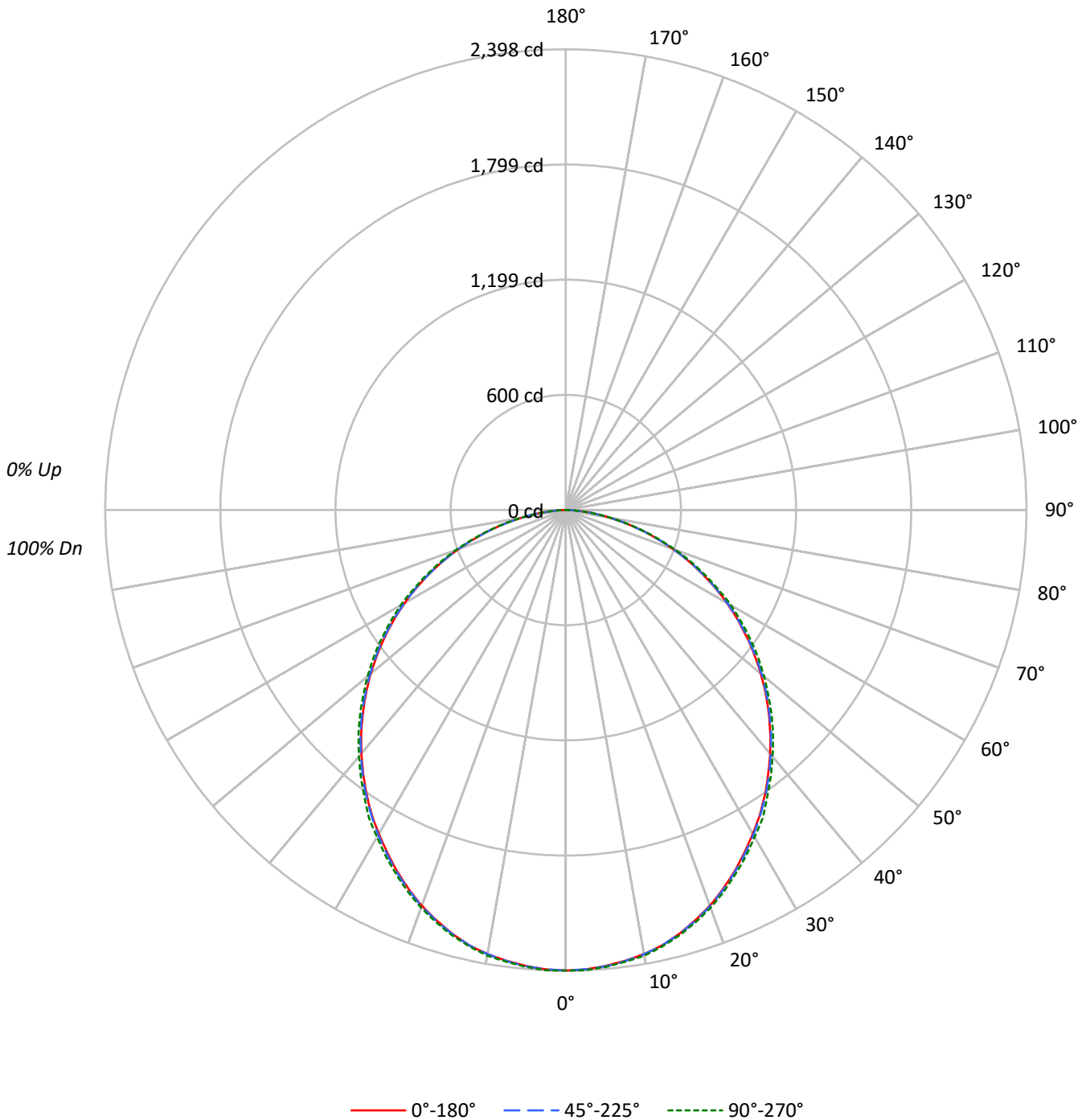
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6477.4 lumens
Efficiency: N/A
Efficacy: 73.6 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): 88
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

TEST NUMBER: P834402
CATALOG NUMBER: ORLG-12-4-INS-OPL-LD4-2HI-20-120-EDD

Luminous Intensity Polar Plot



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



TEST NUMBER: P834402

CATALOG NUMBER: ORLG-12-4-INS-OPL-LD4-2HI-20-120-EDD

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°	6451	6451	6451
5°	6434	6439	6447
10°	6413	6415	6434
15°	6360	6364	6383
20°	6278	6285	6308
25°	6164	6179	6207
30°	6048	6069	6105
35°	5938	5953	6000
40°	5813	5832	5884
45°	5685	5710	5768
50°	5547	5573	5637
55°	5391	5416	5505
60°	5211	5233	5350
65°	4984	5000	5095
70°	4678	4682	4784
75°	4252	4237	4335
80°	3653	3639	3699
85°	2834	2788	2803

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P834402

CATALOG NUMBER: ORLG-12-4-INS-OPL-LD4-2HI-20-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.5	3.5
10°-20°	644.4	9.9
20°-30°	959.2	14.8
30°-40°	1134.4	17.5
40°-50°	1158.1	17.9
50°-60°	1033.5	16.0
60°-70°	778.4	12.0
70°-80°	434.1	6.7
80°-90°	108.7	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°	1830.1	28.3
0°-40°	2964.5	45.8
0°-60°	5156.1	79.6
0°-90°	6477.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6477.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2397	2397	2397	2397	2397	
5°	2382	2386	2384	2384	2387	226
15°	2283	2286	2284	2286	2291	643
25°	2076	2078	2081	2086	2090	956
35°	1808	1806	1812	1819	1826	1130
45°	1494	1493	1500	1508	1516	1152
55°	1149	1148	1154	1162	1173	1027
65°	783	780	785	792	800	774
75°	409	406	408	410	417	434
85°	92	89	90	89	91	110
90°	0	0	0	0	0	

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



TEST NUMBER: P834402

CATALOG NUMBER: ORLG-12-4-INS-OPL-LD4-2HI-20-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2397.2	2397.2	2397.2	2397.2	2397.2
2.5°	2393.2	2397.2	2392.2	2393.2	2397.7
5°	2381.8	2386.3	2383.8	2384.3	2386.8
7.5°	2365.9	2371.9	2368.4	2369.4	2371.9
10°	2347.0	2351.5	2347.5	2350.0	2354.5
12.5°	2320.2	2322.2	2320.2	2321.2	2326.2
15°	2283.0	2285.5	2284.5	2286.5	2291.0
17.5°	2239.3	2242.3	2241.8	2245.8	2249.3
20°	2192.2	2192.7	2194.7	2198.6	2202.6
22.5°	2136.6	2138.1	2140.1	2145.5	2149.5
25°	2076.1	2078.5	2081.0	2086.5	2090.5
27.5°	2012.0	2014.5	2018.0	2023.9	2030.4
30°	1946.5	1946.5	1953.0	1958.9	1964.9
32.5°	1880.5	1878.0	1884.0	1891.4	1905.8
35°	1807.6	1805.6	1812.0	1819.0	1826.4
37.5°	1731.6	1730.1	1737.6	1745.0	1752.0
40°	1654.7	1652.7	1660.2	1667.6	1675.0
42.5°	1575.8	1574.8	1581.7	1589.2	1597.1
45°	1493.9	1493.4	1500.3	1507.8	1515.7
47.5°	1410.5	1409.5	1416.5	1424.4	1431.4
50°	1325.1	1324.2	1331.1	1339.0	1346.5
52.5°	1237.3	1237.3	1243.8	1250.7	1262.1
55°	1149.0	1147.5	1154.4	1162.4	1173.3
57.5°	1059.6	1057.6	1064.1	1072.0	1082.0
60°	968.3	966.3	972.3	980.2	994.1
62.5°	876.0	873.0	879.0	886.4	894.8
65°	782.7	779.7	785.2	792.1	800.1
67.5°	688.9	685.4	690.9	696.8	704.3
70°	594.6	591.1	595.1	601.0	608.0
72.5°	500.8	497.3	500.8	503.3	511.7
75°	409.0	405.5	407.5	409.5	416.9
77.5°	319.6	316.1	320.1	321.1	325.6
80°	235.7	232.3	234.8	235.3	238.7
82.5°	159.3	156.3	159.8	157.3	160.3
85°	91.8	89.3	90.3	89.3	90.8
87.5°	36.2	34.2	34.7	32.8	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)