

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: P835650

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-4HI-35-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835650
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-LD4-4HI-35-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

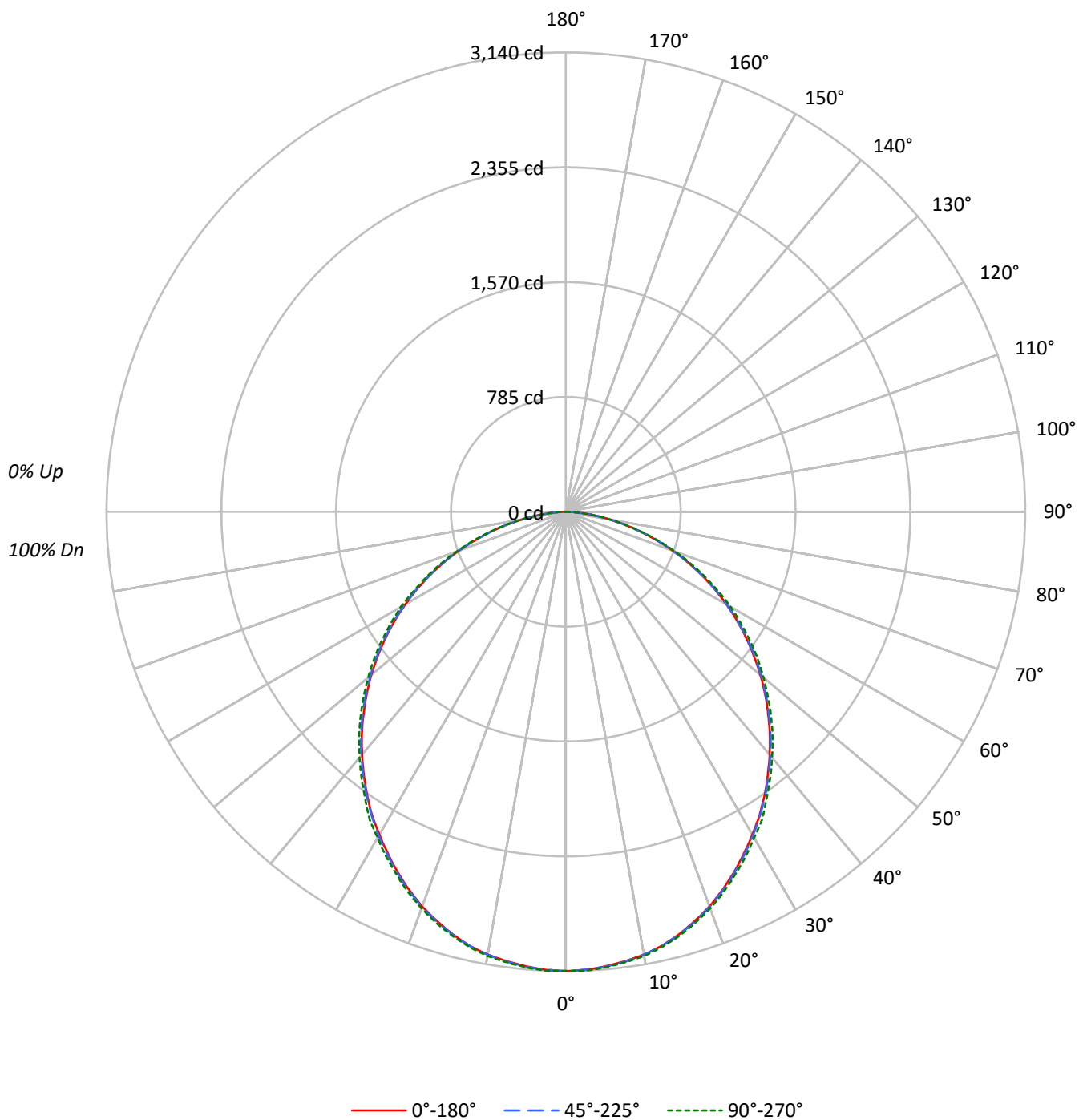
Lumens per Lamp: N/A
Luminaire Lumens: 8483.4 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P835650

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-4HI-35-120-EDD

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835650

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-4HI-35-120-EDD

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°	8448	8448	8448
5°	8426	8433	8444
10°	8399	8401	8426
15°	8330	8335	8359
20°	8222	8231	8261
25°	8073	8092	8129
30°	7921	7948	7996
35°	7777	7796	7858
40°	7613	7638	7706
45°	7446	7478	7555
50°	7266	7298	7383
55°	7060	7093	7209
60°	6825	6853	7007
65°	6527	6548	6672
70°	6127	6132	6265
75°	5569	5549	5677
80°	4785	4765	4846
85°	3714	3653	3674

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835650

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-4HI-35-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.7	3.5
10°-20°	843.9	9.9
20°-30°	1256.3	14.8
30°-40°	1485.7	17.5
40°-50°	1516.7	17.9
50°-60°	1353.6	16.0
60°-70°	1019.5	12.0
70°-80°	568.6	6.7
80°-90°	142.5	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°	2396.9	28.3
0°-40°	3882.6	45.8
0°-60°	6752.9	79.6
0°-90°	8483.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8483.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3140	3140	3140	3140	3140	
5°	3119	3125	3122	3123	3126	296
15°	2990	2993	2992	2995	3000	843
25°	2719	2722	2726	2733	2738	1253
35°	2367	2365	2373	2382	2392	1480
45°	1956	1956	1965	1975	1985	1509
55°	1505	1503	1512	1522	1537	1345
65°	1025	1021	1028	1037	1048	1014
75°	536	531	534	536	546	568
85°	120	117	118	117	119	144
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835650

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-4HI-35-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3139.5	3139.5	3139.5	3139.5	3139.5
2.5°	3134.3	3139.5	3133.0	3134.3	3140.2
5°	3119.4	3125.2	3122.0	3122.6	3125.9
7.5°	3098.6	3106.4	3101.8	3103.1	3106.4
10°	3073.9	3079.7	3074.5	3077.8	3083.6
12.5°	3038.8	3041.4	3038.8	3040.1	3046.6
15°	2990.0	2993.3	2992.0	2994.6	3000.4
17.5°	2932.8	2936.7	2936.1	2941.3	2945.8
20°	2871.1	2871.7	2874.3	2879.5	2884.7
22.5°	2798.3	2800.2	2802.8	2810.0	2815.2
25°	2719.0	2722.2	2725.5	2732.6	2737.8
27.5°	2635.1	2638.4	2642.9	2650.7	2659.2
30°	2549.3	2549.3	2557.8	2565.6	2573.4
32.5°	2462.9	2459.6	2467.4	2477.2	2496.0
35°	2367.3	2364.7	2373.2	2382.3	2392.0
37.5°	2267.9	2265.9	2275.7	2285.4	2294.5
40°	2167.1	2164.5	2174.3	2184.0	2193.8
42.5°	2063.8	2062.5	2071.6	2081.3	2091.7
45°	1956.5	1955.9	1965.0	1974.7	1985.1
47.5°	1847.3	1846.0	1855.1	1865.5	1874.6
50°	1735.5	1734.2	1743.3	1753.7	1763.5
52.5°	1620.5	1620.5	1628.9	1638.0	1653.0
55°	1504.8	1502.8	1511.9	1522.3	1536.6
57.5°	1387.8	1385.2	1393.6	1404.0	1417.0
60°	1268.2	1265.6	1273.4	1283.8	1302.0
62.5°	1147.3	1143.4	1151.2	1160.9	1172.0
65°	1025.1	1021.2	1028.3	1037.4	1047.8
67.5°	902.2	897.7	904.8	912.6	922.4
70°	778.7	774.2	779.4	787.2	796.3
72.5°	655.9	651.3	655.9	659.1	670.2
75°	535.6	531.1	533.7	536.3	546.0
77.5°	418.6	414.1	419.3	420.6	426.4
80°	308.8	304.2	307.5	308.1	312.7
82.5°	208.7	204.8	209.3	206.1	210.0
85°	120.3	117.0	118.3	117.0	119.0
87.5°	47.5	44.9	45.5	42.9	42.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)