

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: P834439

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-3LO-40-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834439
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-LD4-3LO-40-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

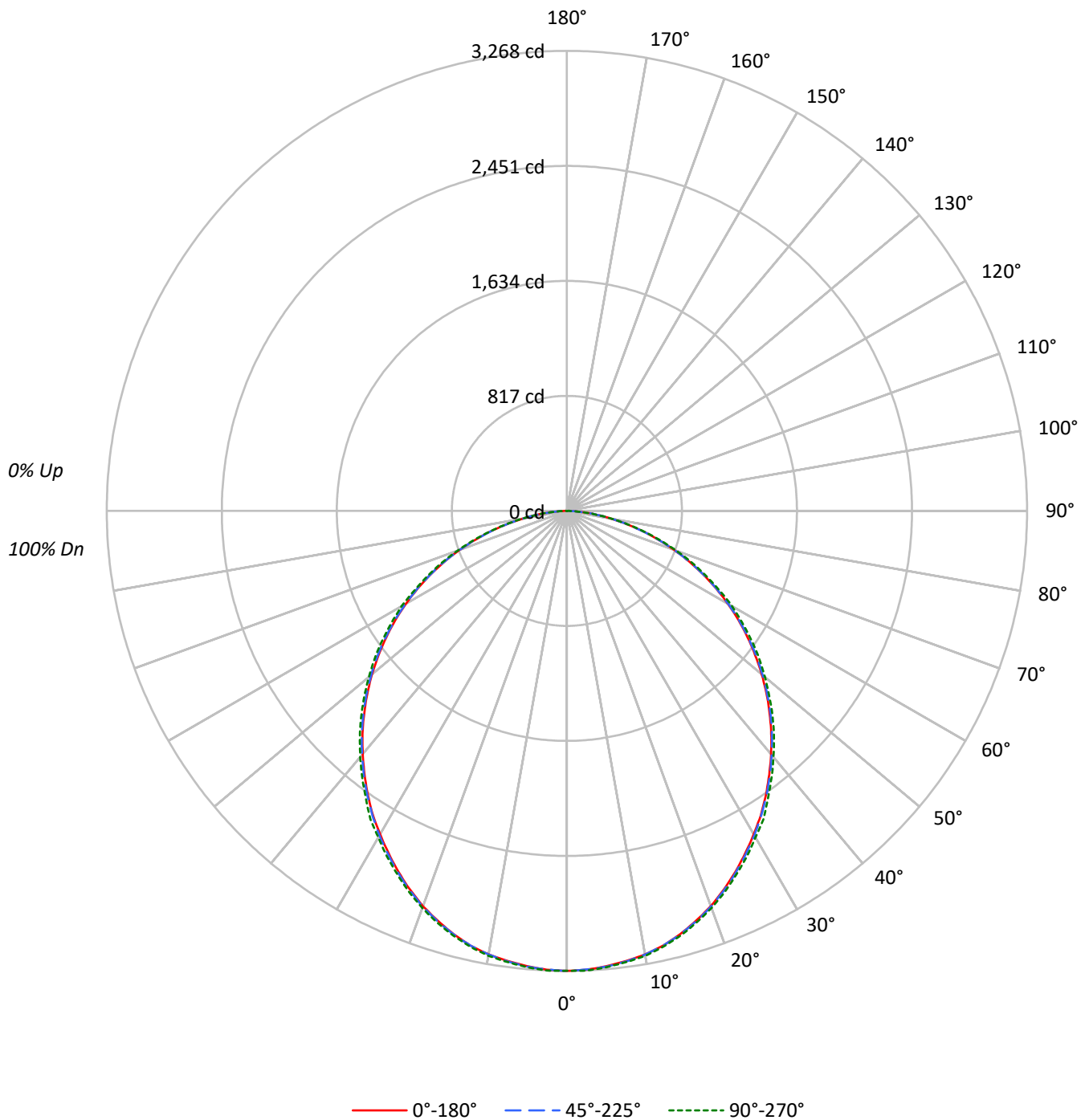
Lumens per Lamp: N/A
Luminaire Lumens: 8828.9 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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

TEST NUMBER: P834439

CATALOG NUMBER: ORLG-12-4-INS-OPL-LD4-3LO-40-120-EDD

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P834439

CATALOG NUMBER: ORLG-12-4-INS-OPL-LD4-3LO-40-120-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	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°	8793	8793	8793
5°	8769	8777	8788
10°	8742	8743	8769
15°	8669	8675	8699
20°	8557	8566	8597
25°	8402	8422	8460
30°	8244	8272	8322
35°	8094	8113	8178
40°	7923	7949	8020
45°	7749	7782	7862
50°	7562	7595	7683
55°	7347	7382	7503
60°	7103	7132	7293
65°	6793	6814	6944
70°	6376	6382	6520
75°	5795	5775	5908
80°	4979	4959	5043
85°	3863	3801	3822

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P834439

CATALOG NUMBER: ORLG-12-4-INS-OPL-LD4-3LO-40-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.8	3.5
10°-20°	878.3	9.9
20°-30°	1307.5	14.8
30°-40°	1546.2	17.5
40°-50°	1578.5	17.9
50°-60°	1408.7	16.0
60°-70°	1061.0	12.0
70°-80°	591.7	6.7
80°-90°	148.2	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°	2494.5	28.3
0°-40°	4040.7	45.8
0°-60°	7027.9	79.6
0°-90°	8828.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8828.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3267	3267	3267	3267	3267	
5°	3246	3252	3249	3250	3253	308
15°	3112	3115	3114	3117	3123	877
25°	2830	2833	2836	2844	2849	1304
35°	2464	2461	2470	2479	2490	1541
45°	2036	2036	2045	2055	2066	1571
55°	1566	1564	1574	1584	1599	1400
65°	1067	1063	1070	1080	1090	1055
75°	557	553	555	558	568	591
85°	125	122	123	122	124	150
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P834439

CATALOG NUMBER: ORLG-12-4-INS-OPL-LD4-3LO-40-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3267.4	3267.4	3267.4	3267.4	3267.4
2.5°	3262.0	3267.4	3260.6	3262.0	3268.1
5°	3246.4	3252.5	3249.1	3249.8	3253.2
7.5°	3224.8	3232.9	3228.2	3229.5	3232.9
10°	3199.1	3205.2	3199.8	3203.1	3209.2
12.5°	3162.6	3165.3	3162.6	3163.9	3170.7
15°	3111.8	3115.2	3113.9	3116.6	3122.6
17.5°	3052.3	3056.4	3055.7	3061.1	3065.8
20°	2988.0	2988.7	2991.4	2996.8	3002.2
22.5°	2912.3	2914.3	2917.0	2924.4	2929.8
25°	2829.7	2833.1	2836.5	2843.9	2849.3
27.5°	2742.5	2745.8	2750.6	2758.7	2767.5
30°	2653.2	2653.2	2662.0	2670.1	2678.2
32.5°	2563.2	2559.8	2567.9	2578.1	2597.7
35°	2463.8	2461.0	2469.8	2479.3	2489.5
37.5°	2360.3	2358.2	2368.4	2378.5	2388.0
40°	2255.4	2252.7	2262.8	2273.0	2283.1
42.5°	2147.8	2146.5	2156.0	2166.1	2176.9
45°	2036.2	2035.5	2045.0	2055.2	2066.0
47.5°	1922.6	1921.2	1930.7	1941.5	1951.0
50°	1806.2	1804.9	1814.3	1825.2	1835.3
52.5°	1686.5	1686.5	1695.3	1704.7	1720.3
55°	1566.1	1564.0	1573.5	1584.3	1599.2
57.5°	1444.3	1441.6	1450.4	1461.2	1474.7
60°	1319.8	1317.1	1325.2	1336.1	1355.0
62.5°	1194.0	1189.9	1198.1	1208.2	1219.7
65°	1066.8	1062.8	1070.2	1079.7	1090.5
67.5°	939.0	934.2	941.7	949.8	959.9
70°	810.4	805.7	811.1	819.2	828.7
72.5°	682.6	677.8	682.6	686.0	697.5
75°	557.4	552.7	555.4	558.1	568.2
77.5°	435.7	430.9	436.3	437.7	443.8
80°	321.3	316.6	320.0	320.7	325.4
82.5°	217.2	213.1	217.8	214.4	218.5
85°	125.1	121.8	123.1	121.8	123.8
87.5°	49.4	46.7	47.4	44.6	44.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)