

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: P835085

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-2STD-30-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835085
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-LD4-2STD-30-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

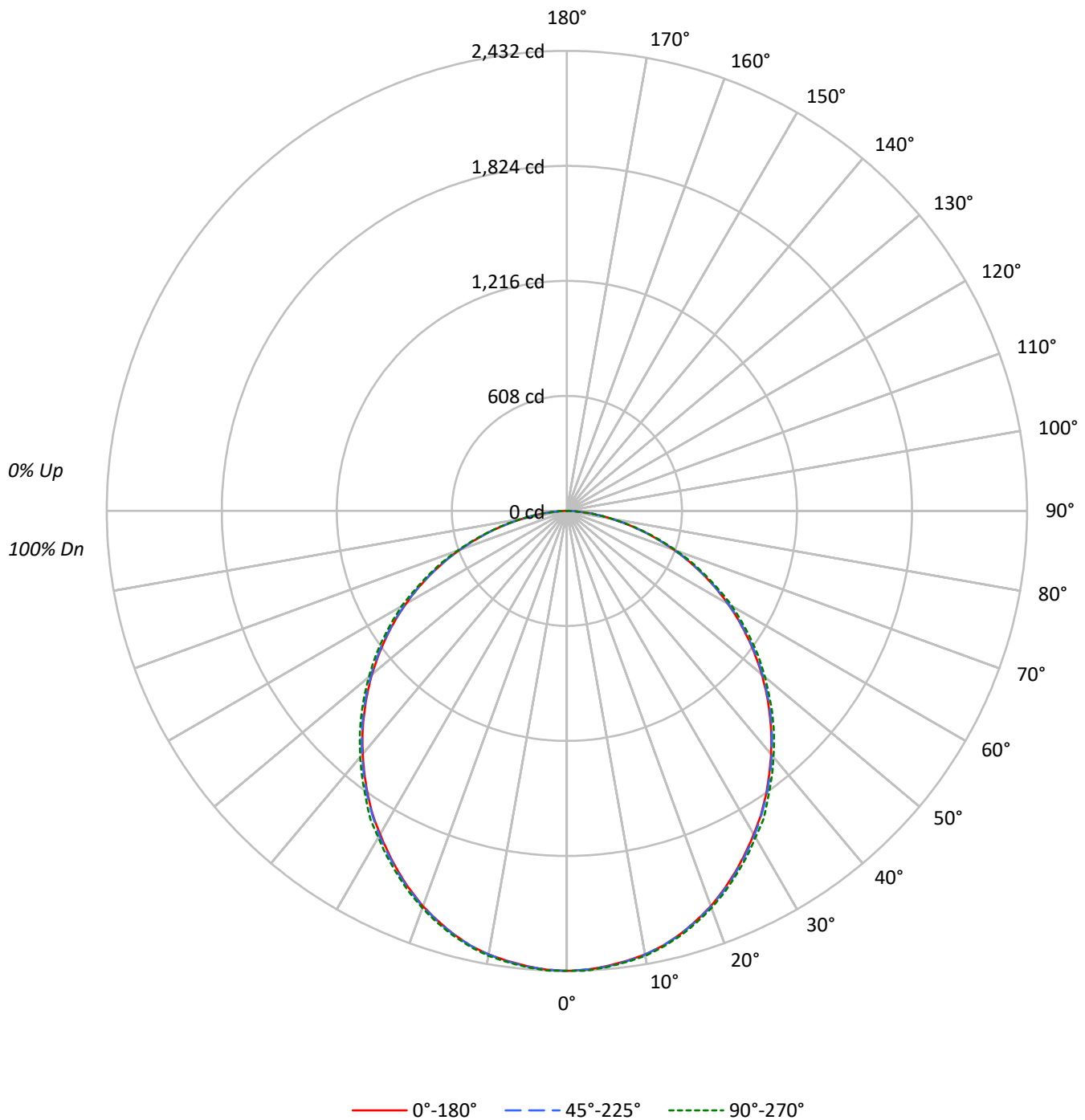
Lumens per Lamp: N/A
Luminaire Lumens: 6570.3 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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: P835085

CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-2STD-30-120-EDD-90

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835085

CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-2STD-30-120-EDD-90

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	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3272	3272	3272
5°	3263	3266	3270
10°	3253	3253	3263
15°	3226	3228	3237
20°	3184	3187	3199
25°	3126	3134	3148
30°	3068	3078	3097
35°	3012	3019	3043
40°	2948	2958	2984
45°	2883	2896	2926
50°	2813	2826	2859
55°	2734	2747	2792
60°	2643	2654	2714
65°	2528	2535	2584
70°	2373	2375	2426
75°	2156	2149	2198
80°	1853	1845	1876
85°	1437	1414	1422

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835085

CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-2STD-30-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.8	3.5
10°-20°	653.6	9.9
20°-30°	973.0	14.8
30°-40°	1150.7	17.5
40°-50°	1174.7	17.9
50°-60°	1048.3	16.0
60°-70°	789.6	12.0
70°-80°	440.3	6.7
80°-90°	110.3	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°	1856.4	28.3
0°-40°	3007.0	45.8
0°-60°	5230.0	79.6
0°-90°	6570.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6570.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2432	2432	2432	2432	2432	
5°	2416	2420	2418	2418	2421	229
15°	2316	2318	2317	2319	2324	653
25°	2106	2108	2111	2116	2120	970
35°	1834	1832	1838	1845	1853	1147
45°	1515	1515	1522	1529	1538	1169
55°	1165	1164	1171	1179	1190	1042
65°	794	791	796	804	812	785
75°	415	411	413	415	423	440
85°	93	91	92	91	92	112
90°	0	0	0	0	0	

TEST NUMBER: P835085

CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-2STD-30-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2431.5	2431.5	2431.5	2431.5	2431.5
2.5°	2427.5	2431.5	2426.5	2427.5	2432.0
5°	2415.9	2420.5	2418.0	2418.5	2421.0
7.5°	2399.8	2405.9	2402.3	2403.4	2405.9
10°	2380.7	2385.2	2381.2	2383.7	2388.3
12.5°	2353.5	2355.5	2353.5	2354.5	2359.6
15°	2315.8	2318.3	2317.3	2319.3	2323.8
17.5°	2271.5	2274.5	2274.0	2278.0	2281.5
20°	2223.6	2224.1	2226.1	2230.2	2234.2
22.5°	2167.2	2168.8	2170.8	2176.3	2180.3
25°	2105.8	2108.3	2110.9	2116.4	2120.4
27.5°	2040.9	2043.4	2046.9	2053.0	2059.5
30°	1974.4	1974.4	1981.0	1987.0	1993.1
32.5°	1907.5	1905.0	1911.0	1918.6	1933.2
35°	1833.5	1831.5	1838.0	1845.1	1852.6
37.5°	1756.5	1754.9	1762.5	1770.0	1777.1
40°	1678.4	1676.4	1684.0	1691.5	1699.1
42.5°	1598.4	1597.4	1604.4	1612.0	1620.0
45°	1515.3	1514.8	1521.9	1529.4	1537.5
47.5°	1430.7	1429.7	1436.8	1444.8	1451.9
50°	1344.1	1343.1	1350.2	1358.2	1365.8
52.5°	1255.0	1255.0	1261.6	1268.6	1280.2
55°	1165.4	1163.9	1171.0	1179.0	1190.1
57.5°	1074.8	1072.8	1079.3	1087.4	1097.5
60°	982.2	980.2	986.2	994.3	1008.4
62.5°	888.5	885.5	891.6	899.1	907.7
65°	793.9	790.9	796.4	803.5	811.5
67.5°	698.8	695.2	700.8	706.8	714.4
70°	603.1	599.6	603.6	609.6	616.7
72.5°	508.0	504.4	508.0	510.5	519.0
75°	414.8	411.3	413.3	415.3	422.9
77.5°	324.2	320.7	324.7	325.7	330.2
80°	239.1	235.6	238.1	238.6	242.1
82.5°	161.6	158.6	162.1	159.6	162.6
85°	93.1	90.6	91.6	90.6	92.1
87.5°	36.8	34.7	35.2	33.2	33.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)