

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: P834976

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834976
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-LD4-2LO-30-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

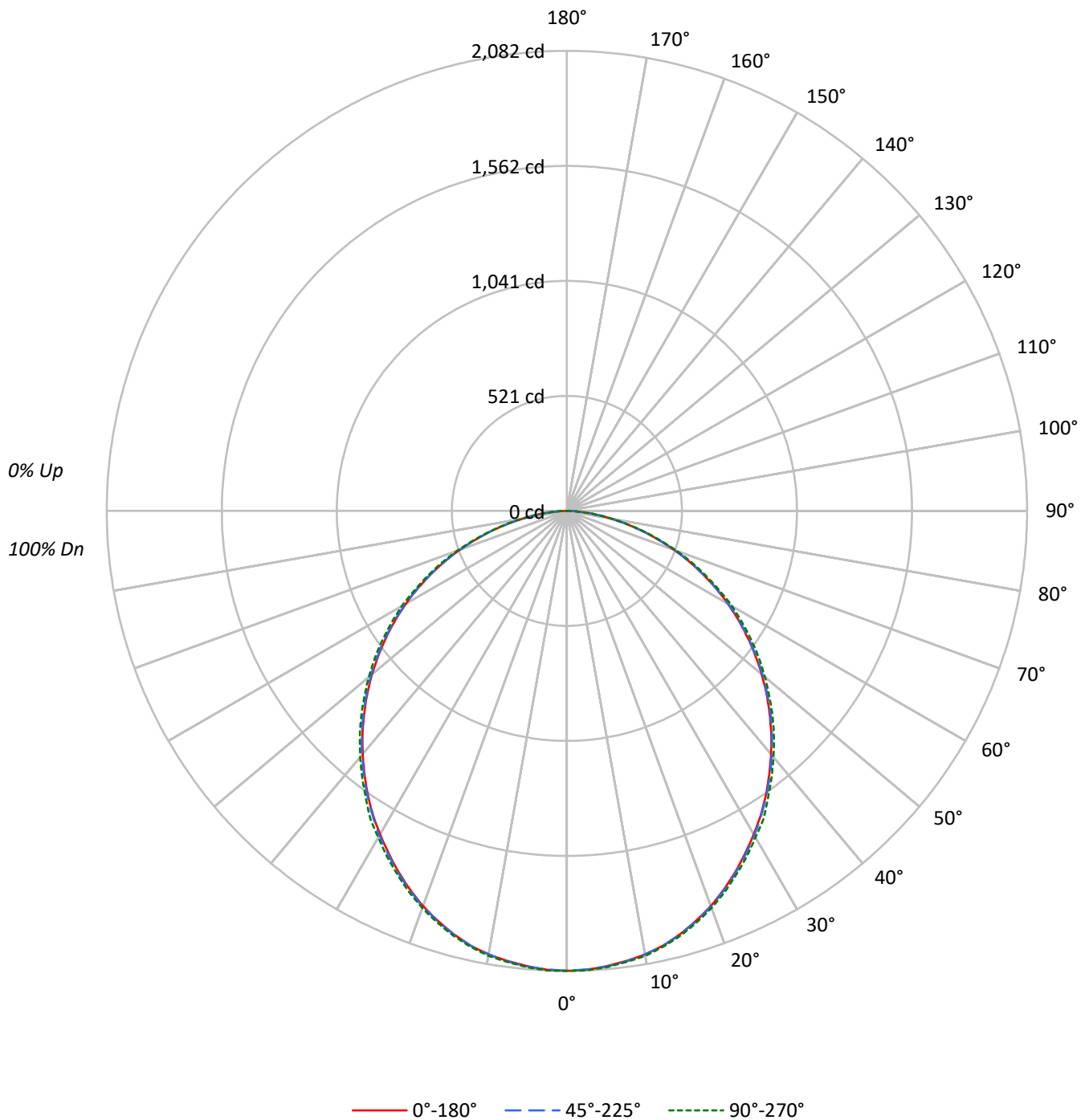
Lumens per Lamp: N/A
Luminaire Lumens: 5624.2 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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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		0
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	27		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2801	2801	2801
5°	2793	2796	2799
10°	2784	2785	2793
15°	2761	2763	2771
20°	2725	2729	2738
25°	2676	2682	2695
30°	2626	2635	2651
35°	2578	2584	2605
40°	2523	2532	2555
45°	2468	2479	2504
50°	2408	2419	2447
55°	2340	2351	2390
60°	2262	2272	2323
65°	2164	2170	2212
70°	2031	2033	2077
75°	1846	1839	1882
80°	1586	1579	1606
85°	1230	1210	1218



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.7	3.5
10°-20°	559.5	9.9
20°-30°	832.9	14.8
30°-40°	985.0	17.5
40°-50°	1005.5	17.9
50°-60°	897.4	16.0
60°-70°	675.9	12.0
70°-80°	376.9	6.7
80°-90°	94.4	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°	1589.1	28.3
0°-40°	2574.0	45.8
0°-60°	4476.9	79.6
0°-90°	5624.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5624.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2081	2081	2081	2081	2081	
5°	2068	2072	2070	2070	2072	196
15°	1982	1984	1984	1985	1989	559
25°	1803	1805	1807	1812	1815	830
35°	1570	1568	1573	1579	1586	981
45°	1297	1297	1303	1309	1316	1001
55°	998	996	1002	1009	1019	892
65°	680	677	682	688	695	672
75°	355	352	354	356	362	376
85°	80	78	78	78	79	96
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2081.4	2081.4	2081.4	2081.4	2081.4
2.5°	2078.0	2081.4	2077.1	2078.0	2081.8
5°	2068.0	2071.9	2069.8	2070.2	2072.4
7.5°	2054.3	2059.4	2056.4	2057.3	2059.4
10°	2037.9	2041.8	2038.3	2040.5	2044.3
12.5°	2014.6	2016.3	2014.6	2015.5	2019.8
15°	1982.3	1984.4	1983.6	1985.3	1989.2
17.5°	1944.4	1946.9	1946.5	1950.0	1953.0
20°	1903.4	1903.9	1905.6	1909.0	1912.5
22.5°	1855.2	1856.5	1858.2	1862.9	1866.4
25°	1802.6	1804.7	1806.9	1811.6	1815.1
27.5°	1747.0	1749.2	1752.2	1757.3	1762.9
30°	1690.1	1690.1	1695.7	1700.9	1706.1
32.5°	1632.8	1630.6	1635.8	1642.3	1654.8
35°	1569.5	1567.7	1573.3	1579.4	1585.8
37.5°	1503.5	1502.2	1508.7	1515.2	1521.2
40°	1436.7	1435.0	1441.5	1447.9	1454.4
42.5°	1368.2	1367.3	1373.4	1379.8	1386.7
45°	1297.1	1296.7	1302.7	1309.2	1316.1
47.5°	1224.7	1223.8	1229.9	1236.8	1242.8
50°	1150.6	1149.7	1155.8	1162.7	1169.1
52.5°	1074.3	1074.3	1079.9	1085.9	1095.9
55°	997.6	996.3	1002.3	1009.2	1018.7
57.5°	920.0	918.3	923.9	930.8	939.4
60°	840.7	839.0	844.2	851.1	863.2
62.5°	760.6	758.0	763.2	769.6	777.0
65°	679.6	677.0	681.7	687.8	694.7
67.5°	598.1	595.1	599.9	605.0	611.5
70°	516.3	513.2	516.7	521.9	527.9
72.5°	434.8	431.8	434.8	437.0	444.3
75°	355.1	352.1	353.8	355.5	362.0
77.5°	277.5	274.5	278.0	278.8	282.7
80°	204.7	201.7	203.8	204.3	207.3
82.5°	138.3	135.7	138.8	136.6	139.2
85°	79.7	77.6	78.4	77.6	78.9
87.5°	31.5	29.7	30.2	28.4	28.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)