

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: P834958

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-2LO-27-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834958
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-27-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

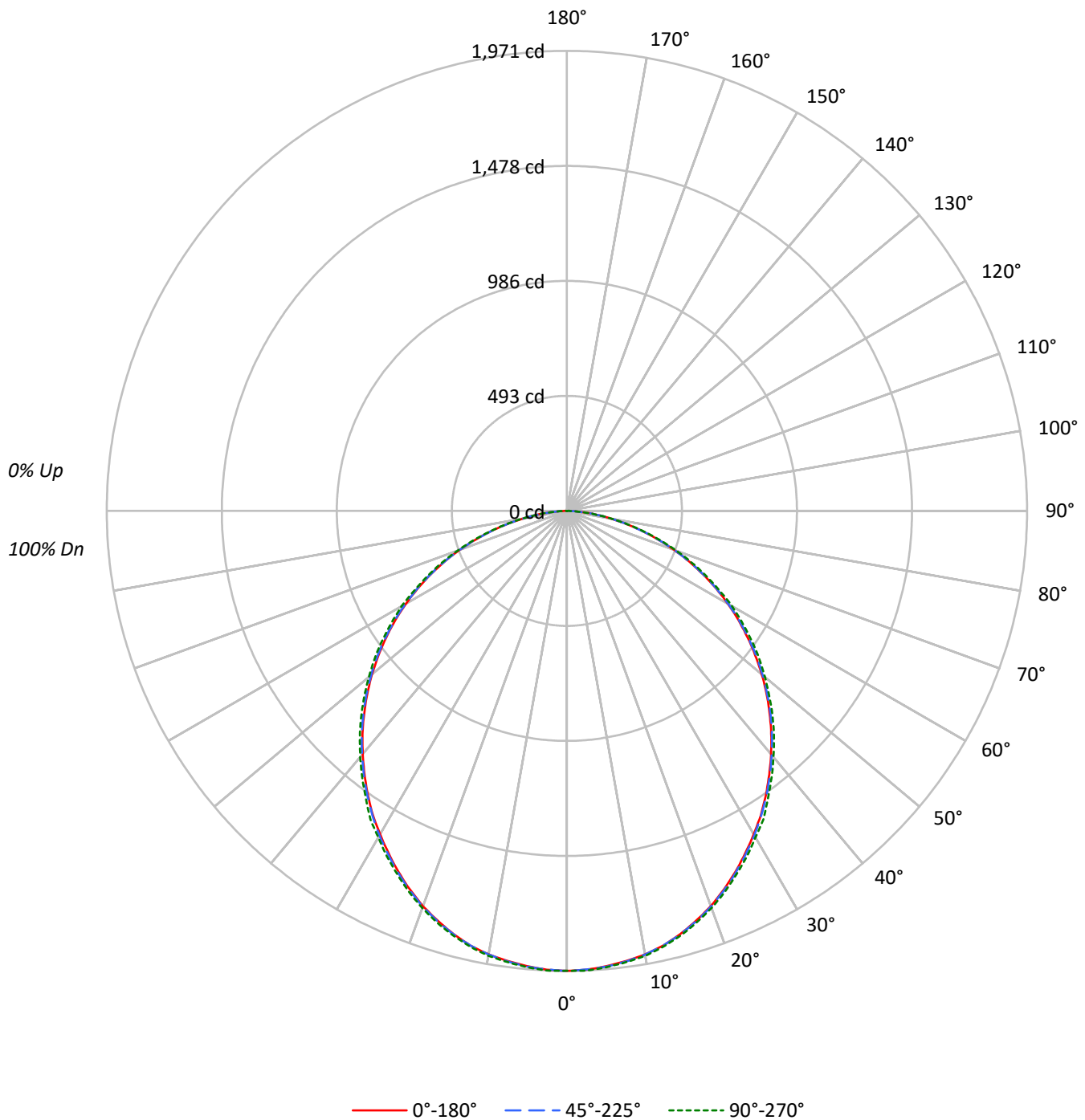
Lumens per Lamp: N/A
Luminaire Lumens: 5325.0 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		90
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51
7	65	52	43	37	64	51	43	37	49	42	36		48	41	36		47
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		40
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2652	2652	2652
5°	2645	2647	2650
10°	2636	2637	2645
15°	2614	2616	2623
20°	2580	2583	2593
25°	2534	2540	2551
30°	2486	2494	2510
35°	2441	2447	2466
40°	2389	2397	2419
45°	2337	2347	2371
50°	2280	2291	2317
55°	2216	2226	2263
60°	2142	2151	2199
65°	2048	2055	2094
70°	1923	1924	1966
75°	1748	1742	1782
80°	1502	1495	1521
85°	1166	1147	1153

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.2	3.5
10°-20°	529.7	9.9
20°-30°	788.6	14.8
30°-40°	932.6	17.5
40°-50°	952.0	17.9
50°-60°	849.6	16.0
60°-70°	639.9	12.0
70°-80°	356.9	6.7
80°-90°	89.4	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°	1504.5	28.3
0°-40°	2437.1	45.8
0°-60°	4238.8	79.6
0°-90°	5325.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5325.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1971	1971	1971	1971	1971	
5°	1958	1962	1960	1960	1962	186
15°	1877	1879	1878	1880	1883	529
25°	1707	1709	1711	1715	1718	786
35°	1486	1484	1490	1495	1502	929
45°	1228	1228	1233	1240	1246	947
55°	944	943	949	956	964	844
65°	643	641	646	651	658	636
75°	336	333	335	337	343	356
85°	76	73	74	73	75	91
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1970.7	1970.7	1970.7	1970.7	1970.7
2.5°	1967.4	1970.7	1966.6	1967.4	1971.1
5°	1958.0	1961.7	1959.7	1960.1	1962.1
7.5°	1945.0	1949.9	1947.0	1947.8	1949.9
10°	1929.5	1933.2	1929.9	1931.9	1935.6
12.5°	1907.4	1909.1	1907.4	1908.3	1912.3
15°	1876.8	1878.9	1878.1	1879.7	1883.4
17.5°	1840.9	1843.4	1843.0	1846.2	1849.1
20°	1802.2	1802.6	1804.2	1807.5	1810.7
22.5°	1756.5	1757.7	1759.3	1763.8	1767.1
25°	1706.7	1708.7	1710.8	1715.3	1718.5
27.5°	1654.1	1656.1	1659.0	1663.9	1669.2
30°	1600.2	1600.2	1605.5	1610.4	1615.3
32.5°	1545.9	1543.9	1548.8	1554.9	1566.8
35°	1486.0	1484.3	1489.6	1495.4	1501.5
37.5°	1423.5	1422.3	1428.4	1434.6	1440.3
40°	1360.3	1358.7	1364.8	1370.9	1377.0
42.5°	1295.4	1294.6	1300.3	1306.4	1313.0
45°	1228.1	1227.7	1233.4	1239.5	1246.1
47.5°	1159.6	1158.7	1164.5	1171.0	1176.7
50°	1089.4	1088.6	1094.3	1100.8	1106.9
52.5°	1017.2	1017.2	1022.5	1028.2	1037.6
55°	944.5	943.3	949.0	955.6	964.5
57.5°	871.1	869.5	874.8	881.3	889.5
60°	796.0	794.4	799.3	805.8	817.2
62.5°	720.1	717.7	722.6	728.7	735.6
65°	643.4	641.0	645.5	651.2	657.7
67.5°	566.3	563.5	567.9	572.8	579.0
70°	488.8	485.9	489.2	494.1	499.8
72.5°	411.7	408.8	411.7	413.7	420.7
75°	336.2	333.3	335.0	336.6	342.7
77.5°	262.8	259.9	263.2	264.0	267.7
80°	193.8	190.9	193.0	193.4	196.3
82.5°	131.0	128.5	131.4	129.3	131.8
85°	75.5	73.4	74.3	73.4	74.7
87.5°	29.8	28.2	28.6	26.9	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)