

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: P835084

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835084
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-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

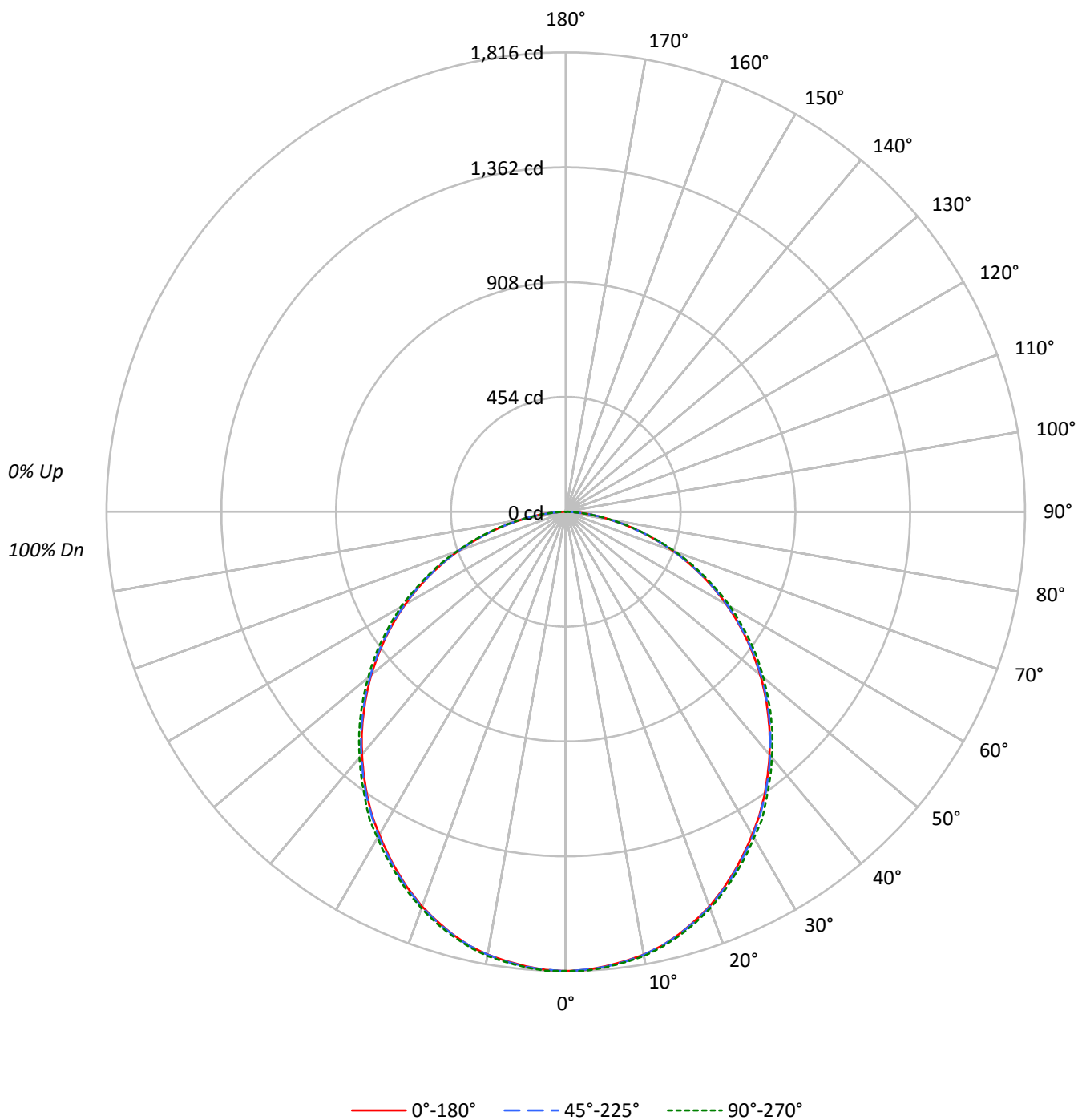
Lumens per Lamp: N/A
Luminaire Lumens: 4906.2 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2443	2443	2443
5°	2437	2439	2442
10°	2429	2429	2437
15°	2409	2410	2417
20°	2377	2380	2389
25°	2335	2340	2351
30°	2291	2298	2312
35°	2249	2254	2272
40°	2201	2209	2228
45°	2153	2162	2185
50°	2101	2110	2135
55°	2042	2051	2085
60°	1974	1982	2026
65°	1887	1893	1929
70°	1772	1773	1812
75°	1611	1604	1642
80°	1384	1378	1401
85°	1073	1056	1062

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.6	3.5
10°-20°	488.1	9.9
20°-30°	726.6	14.8
30°-40°	859.2	17.5
40°-50°	877.2	17.9
50°-60°	782.8	16.0
60°-70°	589.6	12.0
70°-80°	328.8	6.7
80°-90°	82.4	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°	1386.2	28.3
0°-40°	2245.4	45.8
0°-60°	3905.4	79.6
0°-90°	4906.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4906.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1816	1816	1816	1816	1816	
5°	1804	1807	1806	1806	1808	171
15°	1729	1731	1730	1732	1735	487
25°	1572	1574	1576	1580	1583	724
35°	1369	1368	1372	1378	1383	856
45°	1132	1131	1136	1142	1148	873
55°	870	869	874	880	889	778
65°	593	591	595	600	606	586
75°	310	307	309	310	316	328
85°	70	68	68	68	69	83
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1815.7	1815.7	1815.7	1815.7	1815.7
2.5°	1812.7	1815.7	1811.9	1812.7	1816.1
5°	1804.0	1807.4	1805.5	1805.9	1807.8
7.5°	1792.0	1796.5	1793.9	1794.6	1796.5
10°	1777.7	1781.1	1778.1	1780.0	1783.4
12.5°	1757.4	1758.9	1757.4	1758.2	1761.9
15°	1729.2	1731.1	1730.4	1731.9	1735.2
17.5°	1696.1	1698.4	1698.0	1701.0	1703.7
20°	1660.4	1660.8	1662.3	1665.3	1668.3
22.5°	1618.3	1619.5	1621.0	1625.1	1628.1
25°	1572.5	1574.3	1576.2	1580.4	1583.4
27.5°	1524.0	1525.9	1528.5	1533.0	1537.9
30°	1474.4	1474.4	1479.2	1483.8	1488.3
32.5°	1424.4	1422.5	1427.0	1432.6	1443.5
35°	1369.1	1367.6	1372.5	1377.7	1383.4
37.5°	1311.6	1310.5	1316.1	1321.7	1327.0
40°	1253.3	1251.8	1257.4	1263.1	1268.7
42.5°	1193.5	1192.8	1198.1	1203.7	1209.7
45°	1131.5	1131.1	1136.4	1142.0	1148.1
47.5°	1068.4	1067.6	1072.9	1078.9	1084.2
50°	1003.7	1003.0	1008.2	1014.2	1019.9
52.5°	937.2	937.2	942.1	947.3	956.0
55°	870.3	869.1	874.4	880.4	888.7
57.5°	802.6	801.1	806.0	812.0	819.5
60°	733.4	731.9	736.4	742.4	753.0
62.5°	663.5	661.2	665.8	671.4	677.8
65°	592.8	590.6	594.7	600.0	606.0
67.5°	521.8	519.1	523.3	527.8	533.4
70°	450.4	447.7	450.7	455.2	460.5
72.5°	379.3	376.7	379.3	381.2	387.6
75°	309.8	307.1	308.6	310.1	315.8
77.5°	242.1	239.5	242.5	243.2	246.6
80°	178.6	175.9	177.8	178.2	180.8
82.5°	120.7	118.4	121.0	119.2	121.4
85°	69.5	67.7	68.4	67.7	68.8
87.5°	27.4	25.9	26.3	24.8	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)