

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: P834994

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-2LO-35-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834994
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-35-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

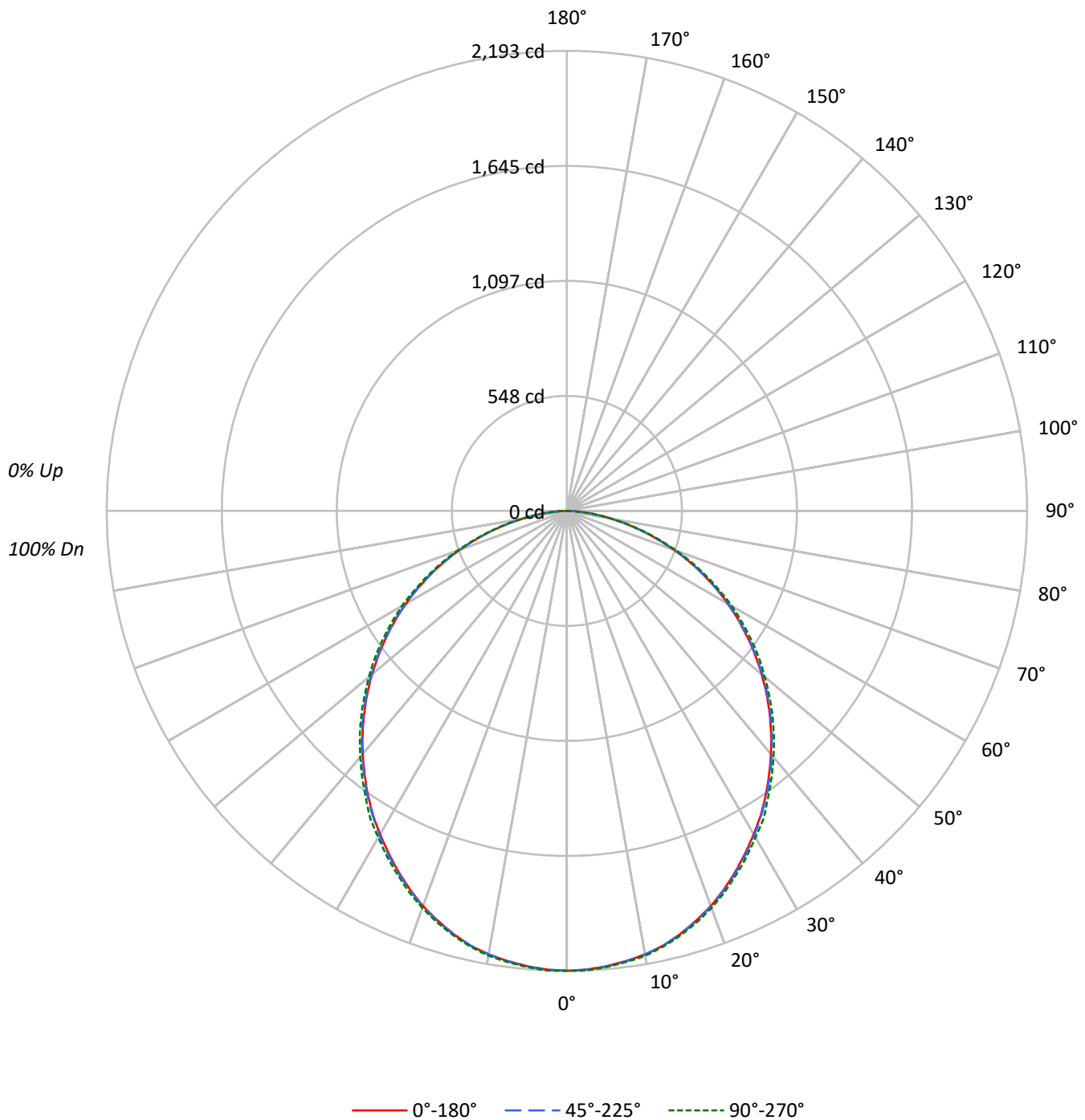
Lumens per Lamp: N/A
Luminaire Lumens: 5923.3 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2949	2949	2949
5°	2942	2944	2948
10°	2932	2933	2942
15°	2908	2910	2918
20°	2870	2874	2884
25°	2818	2825	2838
30°	2765	2775	2792
35°	2715	2722	2743
40°	2658	2666	2690
45°	2599	2611	2637
50°	2537	2548	2577
55°	2465	2476	2517
60°	2383	2393	2446
65°	2279	2286	2329
70°	2139	2141	2187
75°	1944	1937	1982
80°	1671	1664	1691
85°	1297	1275	1283

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.1	3.5
10°-20°	589.2	9.9
20°-30°	877.2	14.8
30°-40°	1037.4	17.5
40°-50°	1059.0	17.9
50°-60°	945.1	16.0
60°-70°	711.9	12.0
70°-80°	397.0	6.7
80°-90°	99.5	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°	1673.6	28.3
0°-40°	2710.9	45.8
0°-60°	4715.0	79.6
0°-90°	5923.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5923.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2192	2192	2192	2192	2192	
5°	2178	2182	2180	2180	2183	207
15°	2088	2090	2089	2091	2095	588
25°	1898	1901	1903	1908	1912	875
35°	1653	1651	1657	1663	1670	1034
45°	1366	1366	1372	1379	1386	1054
55°	1051	1049	1056	1063	1073	939
65°	716	713	718	724	732	708
75°	374	371	373	374	381	396
85°	84	82	83	82	83	101
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2192.1	2192.1	2192.1	2192.1	2192.1
2.5°	2188.5	2192.1	2187.6	2188.5	2192.6
5°	2178.0	2182.1	2179.9	2180.3	2182.6
7.5°	2163.5	2169.0	2165.8	2166.7	2169.0
10°	2146.3	2150.4	2146.7	2149.0	2153.1
12.5°	2121.8	2123.6	2121.8	2122.7	2127.2
15°	2087.7	2090.0	2089.1	2090.9	2095.0
17.5°	2047.8	2050.5	2050.1	2053.7	2056.9
20°	2004.7	2005.1	2006.9	2010.6	2014.2
22.5°	1953.8	1955.2	1957.0	1962.0	1965.6
25°	1898.5	1900.7	1903.0	1908.0	1911.6
27.5°	1839.9	1842.2	1845.4	1850.8	1856.7
30°	1780.0	1780.0	1785.9	1791.4	1796.8
32.5°	1719.7	1717.4	1722.8	1729.6	1742.8
35°	1652.9	1651.1	1657.0	1663.4	1670.2
37.5°	1583.5	1582.1	1588.9	1595.7	1602.1
40°	1513.1	1511.3	1518.1	1524.9	1531.8
42.5°	1441.0	1440.1	1446.4	1453.2	1460.5
45°	1366.1	1365.6	1372.0	1378.8	1386.1
47.5°	1289.9	1288.9	1295.3	1302.6	1308.9
50°	1211.8	1210.9	1217.2	1224.5	1231.3
52.5°	1131.5	1131.5	1137.4	1143.7	1154.1
55°	1050.7	1049.3	1055.7	1062.9	1072.9
57.5°	969.0	967.2	973.1	980.3	989.4
60°	885.5	883.7	889.1	896.4	909.1
62.5°	801.1	798.3	803.8	810.6	818.3
65°	715.7	713.0	718.0	724.4	731.6
67.5°	629.9	626.8	631.8	637.2	644.0
70°	543.7	540.5	544.2	549.6	556.0
72.5°	457.9	454.8	457.9	460.2	467.9
75°	374.0	370.8	372.6	374.4	381.2
77.5°	292.3	289.1	292.7	293.6	297.7
80°	215.6	212.4	214.7	215.1	218.3
82.5°	145.7	143.0	146.1	143.9	146.6
85°	84.0	81.7	82.6	81.7	83.1
87.5°	33.1	31.3	31.8	30.0	30.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)