

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: P835067

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-2STD-27-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835067
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-27-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

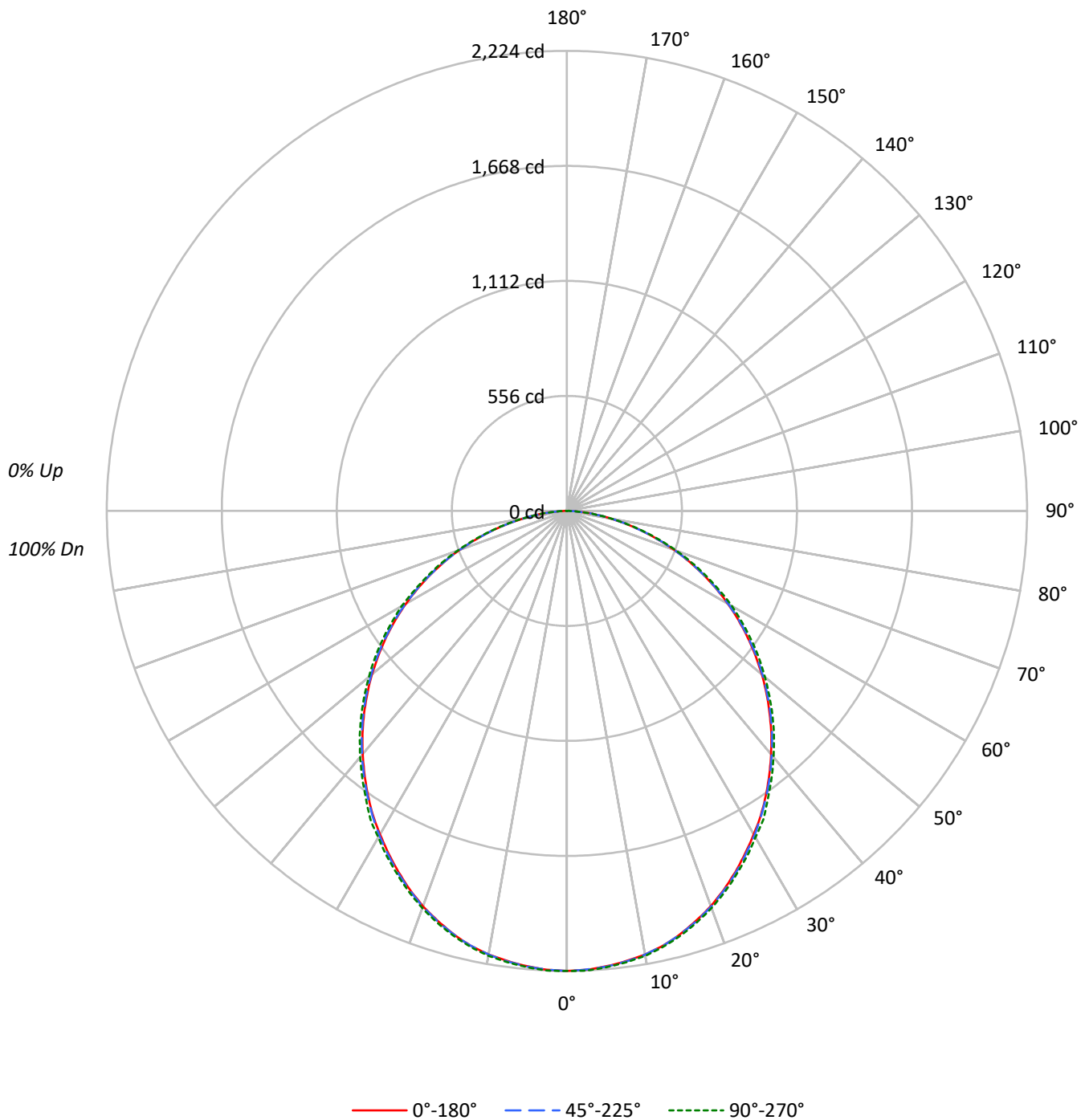
Lumens per Lamp: N/A
Luminaire Lumens: 6009.4 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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	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	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2992	2992	2992
5°	2984	2987	2991
10°	2975	2976	2984
15°	2950	2952	2961
20°	2912	2915	2926
25°	2859	2866	2879
30°	2806	2815	2832
35°	2755	2761	2783
40°	2696	2705	2729
45°	2637	2649	2676
50°	2573	2585	2615
55°	2500	2512	2553
60°	2417	2427	2482
65°	2312	2319	2363
70°	2170	2172	2219
75°	1972	1965	2011
80°	1695	1688	1716
85°	1315	1294	1301



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.2	3.5
10°-20°	597.8	9.9
20°-30°	889.9	14.8
30°-40°	1052.4	17.5
40°-50°	1074.4	17.9
50°-60°	958.8	16.0
60°-70°	722.2	12.0
70°-80°	402.8	6.7
80°-90°	100.9	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°	1697.9	28.3
0°-40°	2750.3	45.8
0°-60°	4783.6	79.6
0°-90°	6009.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6009.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2224	2224	2224	2224	2224	
5°	2210	2214	2212	2212	2214	210
15°	2118	2120	2120	2121	2125	597
25°	1926	1928	1931	1936	1939	887
35°	1677	1675	1681	1688	1694	1049
45°	1386	1386	1392	1399	1406	1069
55°	1066	1065	1071	1078	1088	953
65°	726	723	728	735	742	718
75°	379	376	378	380	387	402
85°	85	83	84	83	84	102
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2224.0	2224.0	2224.0	2224.0	2224.0
2.5°	2220.3	2224.0	2219.4	2220.3	2224.4
5°	2209.7	2213.8	2211.5	2212.0	2214.3
7.5°	2195.0	2200.5	2197.3	2198.2	2200.5
10°	2177.5	2181.6	2177.9	2180.2	2184.4
12.5°	2152.6	2154.4	2152.6	2153.5	2158.1
15°	2118.1	2120.4	2119.5	2121.3	2125.4
17.5°	2077.6	2080.3	2079.9	2083.5	2086.8
20°	2033.8	2034.3	2036.1	2039.8	2043.5
22.5°	1982.2	1983.6	1985.5	1990.5	1994.2
25°	1926.1	1928.4	1930.7	1935.7	1939.4
27.5°	1866.7	1869.0	1872.2	1877.7	1883.7
30°	1805.9	1805.9	1811.9	1817.4	1822.9
32.5°	1744.6	1742.3	1747.9	1754.8	1768.1
35°	1677.0	1675.1	1681.1	1687.6	1694.5
37.5°	1606.5	1605.1	1612.0	1618.9	1625.4
40°	1535.1	1533.3	1540.2	1547.1	1554.0
42.5°	1461.9	1461.0	1467.5	1474.4	1481.7
45°	1386.0	1385.5	1391.9	1398.8	1406.2
47.5°	1308.6	1307.7	1314.1	1321.5	1327.9
50°	1229.4	1228.5	1234.9	1242.3	1249.2
52.5°	1147.9	1147.9	1153.9	1160.3	1170.9
55°	1065.9	1064.6	1071.0	1078.4	1088.5
57.5°	983.1	981.2	987.2	994.6	1003.8
60°	898.3	896.5	902.0	909.4	922.3
62.5°	812.7	809.9	815.5	822.4	830.2
65°	726.1	723.4	728.4	734.9	742.2
67.5°	639.1	635.9	640.9	646.5	653.4
70°	551.6	548.4	552.1	557.6	564.1
72.5°	464.6	461.4	464.6	466.9	474.7
75°	379.4	376.2	378.0	379.9	386.8
77.5°	296.5	293.3	297.0	297.9	302.1
80°	218.7	215.5	217.8	218.3	221.5
82.5°	147.8	145.0	148.3	146.0	148.7
85°	85.2	82.9	83.8	82.9	84.3
87.5°	33.6	31.8	32.2	30.4	30.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)