

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: P835029

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-1HI-50-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835029
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-LD4-1HI-50-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

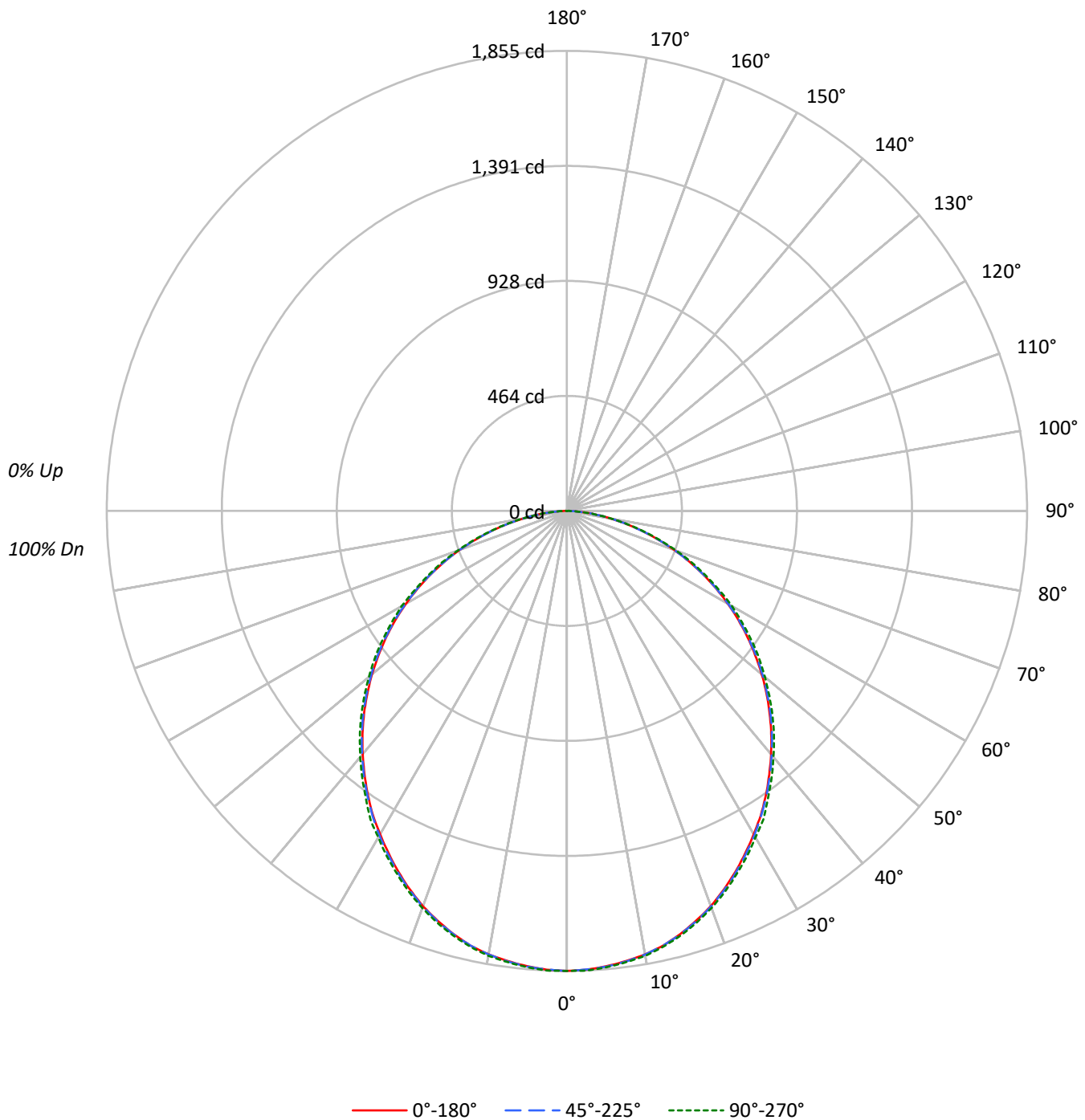
Lumens per Lamp: N/A
Luminaire Lumens: 5011.8 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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

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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	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2496	2496	2496
5°	2489	2491	2494
10°	2481	2482	2489
15°	2461	2462	2469
20°	2429	2431	2440
25°	2385	2390	2401
30°	2340	2348	2362
35°	2297	2303	2321
40°	2249	2256	2276
45°	2199	2209	2232
50°	2146	2156	2181
55°	2085	2095	2130
60°	2016	2024	2070
65°	1928	1934	1971
70°	1810	1811	1851
75°	1645	1639	1677
80°	1413	1407	1431
85°	1096	1079	1085

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.3	3.5
10°-20°	498.6	9.9
20°-30°	742.2	14.8
30°-40°	877.7	17.5
40°-50°	896.0	17.9
50°-60°	799.7	16.0
60°-70°	602.3	12.0
70°-80°	335.9	6.7
80°-90°	84.1	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°	1416.0	28.3
0°-40°	2293.8	45.8
0°-60°	3989.5	79.6
0°-90°	5011.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5011.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1855	1855	1855	1855	1855	
5°	1843	1846	1844	1845	1847	175
15°	1766	1768	1768	1769	1773	498
25°	1606	1608	1610	1614	1618	740
35°	1399	1397	1402	1407	1413	875
45°	1156	1156	1161	1167	1173	892
55°	889	888	893	899	908	795
65°	606	603	608	613	619	599
75°	316	314	315	317	323	335
85°	71	69	70	69	70	85
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1854.8	1854.8	1854.8	1854.8	1854.8
2.5°	1851.7	1854.8	1850.9	1851.7	1855.2
5°	1842.9	1846.3	1844.4	1844.8	1846.7
7.5°	1830.6	1835.2	1832.5	1833.3	1835.2
10°	1816.0	1819.5	1816.4	1818.3	1821.8
12.5°	1795.3	1796.8	1795.3	1796.0	1799.9
15°	1766.5	1768.4	1767.6	1769.1	1772.6
17.5°	1732.7	1735.0	1734.6	1737.7	1740.3
20°	1696.2	1696.6	1698.1	1701.2	1704.2
22.5°	1653.2	1654.3	1655.9	1660.1	1663.2
25°	1606.3	1608.2	1610.2	1614.4	1617.5
27.5°	1556.8	1558.7	1561.4	1566.0	1571.0
30°	1506.1	1506.1	1511.1	1515.7	1520.3
32.5°	1455.0	1453.1	1457.7	1463.5	1474.6
35°	1398.6	1397.0	1402.0	1407.4	1413.2
37.5°	1339.8	1338.7	1344.4	1350.2	1355.6
40°	1280.3	1278.8	1284.5	1290.3	1296.0
42.5°	1219.2	1218.5	1223.8	1229.6	1235.8
45°	1155.9	1155.5	1160.9	1166.6	1172.8
47.5°	1091.4	1090.6	1096.0	1102.1	1107.5
50°	1025.3	1024.5	1029.9	1036.1	1041.8
52.5°	957.3	957.3	962.3	967.7	976.5
55°	889.0	887.8	893.2	899.4	907.8
57.5°	819.9	818.3	823.3	829.5	837.1
60°	749.2	747.7	752.3	758.4	769.2
62.5°	677.8	675.5	680.1	685.8	692.4
65°	605.6	603.3	607.5	612.9	619.0
67.5°	533.0	530.3	534.5	539.2	544.9
70°	460.0	457.4	460.4	465.0	470.4
72.5°	387.5	384.8	387.5	389.4	395.9
75°	316.4	313.7	315.3	316.8	322.6
77.5°	247.3	244.6	247.7	248.5	251.9
80°	182.4	179.7	181.6	182.0	184.7
82.5°	123.3	121.0	123.7	121.7	124.0
85°	71.0	69.1	69.9	69.1	70.3
87.5°	28.0	26.5	26.9	25.3	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)