

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: P834418

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-2LO-30-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834418
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-OPL-LD4-2LO-30-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

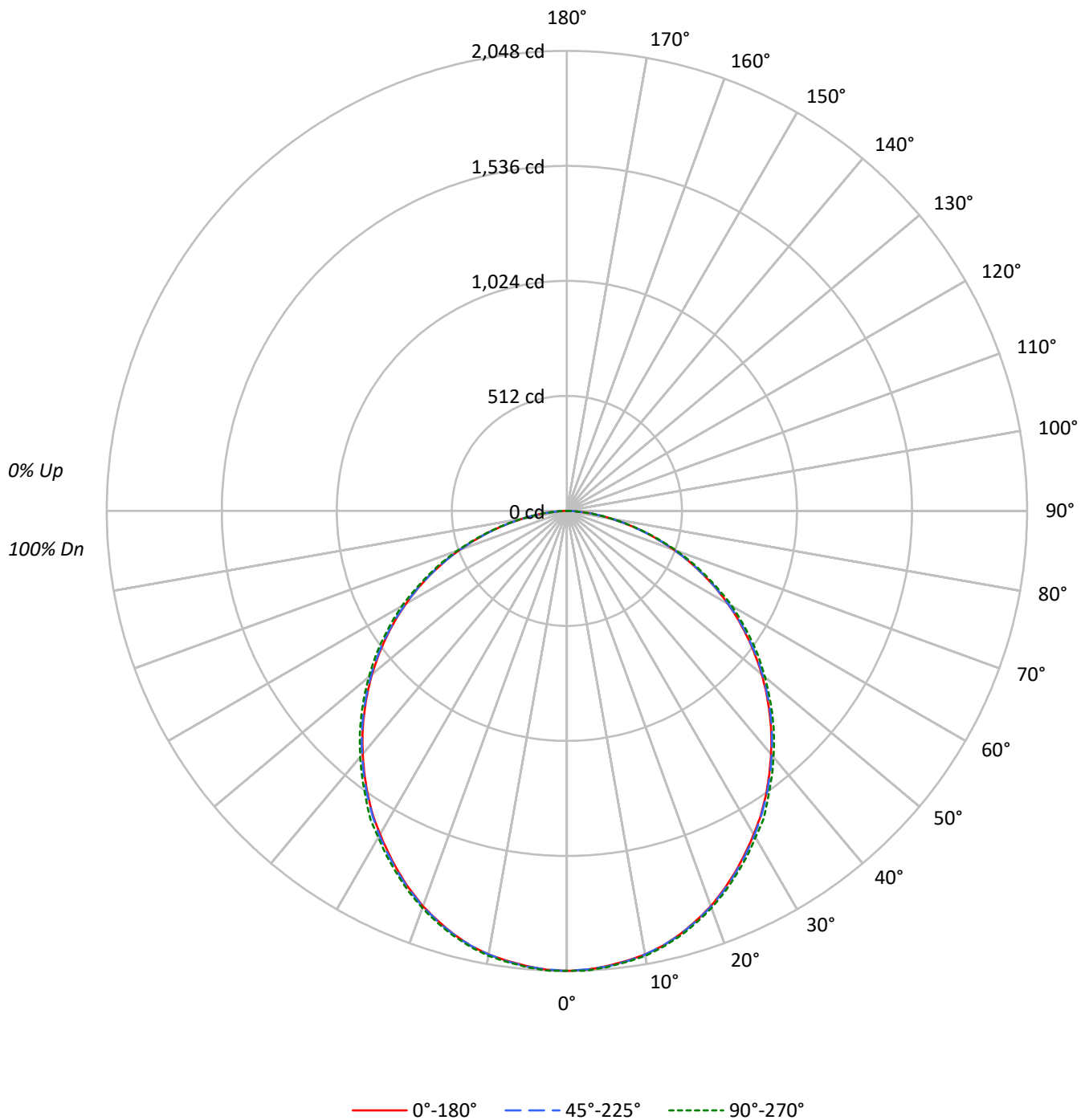
Lumens per Lamp: N/A
Luminaire Lumens: 5532.8 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	5510	5510	5510
5°	5495	5500	5507
10°	5478	5479	5495
15°	5433	5436	5452
20°	5362	5368	5388
25°	5265	5278	5302
30°	5166	5184	5215
35°	5072	5085	5125
40°	4965	4981	5026
45°	4856	4877	4927
50°	4739	4760	4815
55°	4604	4626	4702
60°	4451	4470	4570
65°	4257	4271	4351
70°	3996	3999	4086
75°	3632	3618	3702
80°	3121	3107	3160
85°	2421	2384	2396

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.5	3.5
10°-20°	550.4	9.9
20°-30°	819.4	14.8
30°-40°	969.0	17.5
40°-50°	989.2	17.9
50°-60°	882.8	16.0
60°-70°	664.9	12.0
70°-80°	370.8	6.7
80°-90°	92.9	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°	1563.2	28.3
0°-40°	2532.2	45.8
0°-60°	4404.2	79.6
0°-90°	5532.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5532.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2048	2048	2048	2048	2048	
5°	2034	2038	2036	2037	2039	193
15°	1950	1952	1951	1953	1957	550
25°	1773	1775	1778	1782	1786	817
35°	1544	1542	1548	1554	1560	966
45°	1276	1276	1282	1288	1295	984
55°	981	980	986	993	1002	877
65°	668	666	671	677	683	661
75°	349	346	348	350	356	370
85°	78	76	77	76	78	94
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2047.6	2047.6	2047.6	2047.6	2047.6
2.5°	2044.2	2047.6	2043.3	2044.2	2048.0
5°	2034.4	2038.3	2036.1	2036.6	2038.7
7.5°	2020.9	2026.0	2023.0	2023.8	2026.0
10°	2004.8	2008.6	2005.2	2007.3	2011.1
12.5°	1981.9	1983.6	1981.9	1982.7	1987.0
15°	1950.1	1952.2	1951.3	1953.0	1956.9
17.5°	1912.8	1915.3	1914.9	1918.3	1921.2
20°	1872.5	1872.9	1874.6	1878.0	1881.4
22.5°	1825.0	1826.3	1828.0	1832.6	1836.0
25°	1773.3	1775.4	1777.5	1782.2	1785.6
27.5°	1718.6	1720.7	1723.7	1728.8	1734.3
30°	1662.7	1662.7	1668.2	1673.2	1678.3
32.5°	1606.3	1604.1	1609.2	1615.6	1627.9
35°	1544.0	1542.3	1547.8	1553.7	1560.1
37.5°	1479.1	1477.8	1484.2	1490.5	1496.5
40°	1413.4	1411.7	1418.0	1424.4	1430.8
42.5°	1346.0	1345.1	1351.1	1357.4	1364.2
45°	1276.0	1275.6	1281.5	1287.9	1294.7
47.5°	1204.8	1204.0	1209.9	1216.7	1222.6
50°	1131.9	1131.0	1137.0	1143.8	1150.1
52.5°	1056.9	1056.9	1062.4	1068.3	1078.1
55°	981.4	980.1	986.1	992.8	1002.2
57.5°	905.1	903.4	908.9	915.7	924.2
60°	827.1	825.4	830.5	837.3	849.1
62.5°	748.2	745.7	750.8	757.1	764.3
65°	668.5	666.0	670.7	676.6	683.4
67.5°	588.4	585.4	590.1	595.2	601.6
70°	507.9	504.9	508.3	513.4	519.3
72.5°	427.7	424.8	427.7	429.9	437.1
75°	349.3	346.4	348.0	349.7	356.1
77.5°	273.0	270.0	273.4	274.3	278.1
80°	201.4	198.4	200.5	200.9	203.9
82.5°	136.1	133.5	136.5	134.4	136.9
85°	78.4	76.3	77.2	76.3	77.6
87.5°	30.9	29.3	29.7	28.0	28.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)