

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: P834445

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-2LO-50-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834445
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-50-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

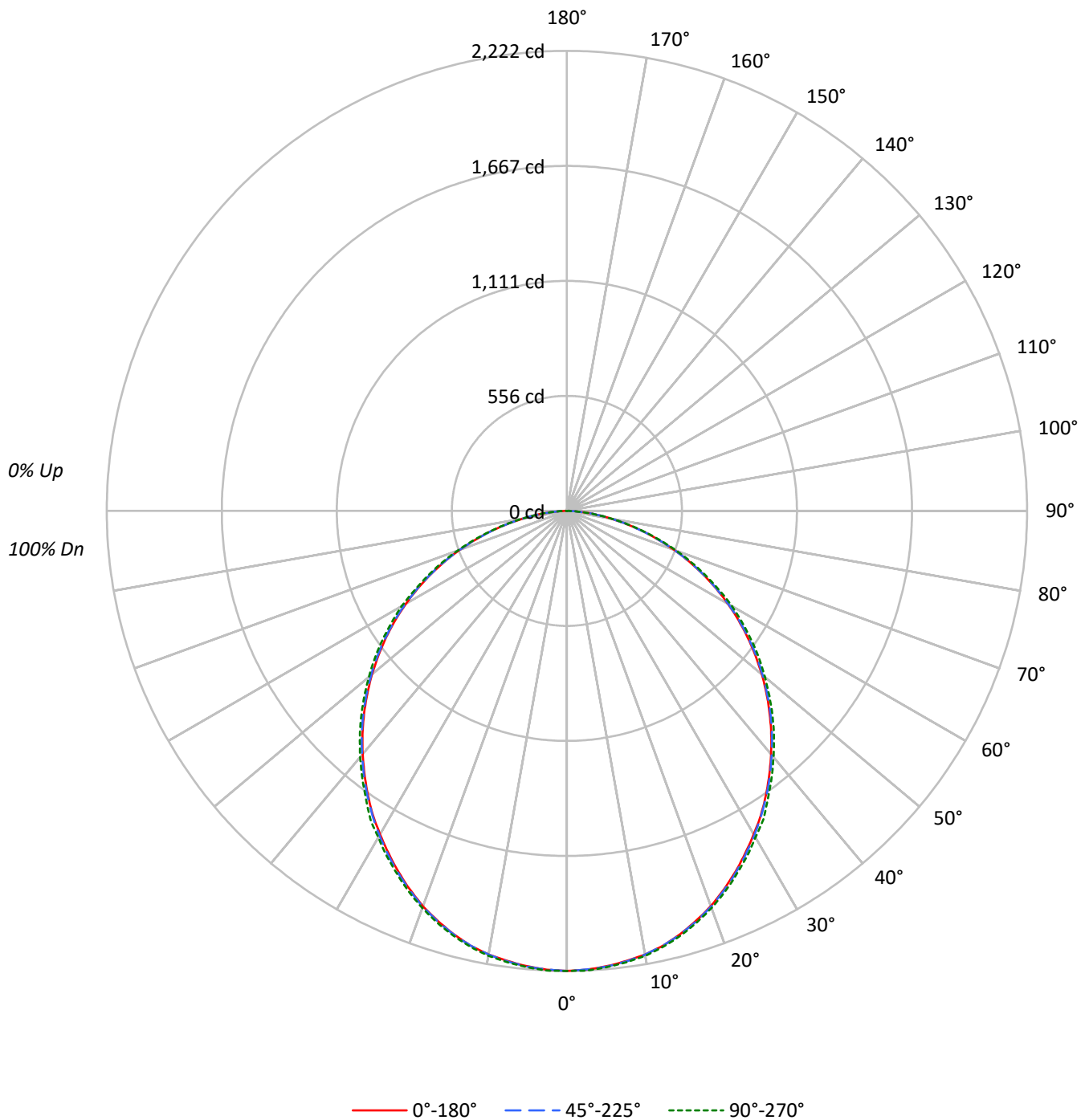
Lumens per Lamp: N/A
Luminaire Lumens: 6003.7 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	5979	5979	5979
5°	5963	5968	5976
10°	5944	5945	5963
15°	5895	5899	5916
20°	5819	5825	5846
25°	5713	5727	5753
30°	5606	5624	5659
35°	5504	5517	5561
40°	5388	5405	5454
45°	5269	5292	5347
50°	5142	5165	5225
55°	4996	5020	5102
60°	4830	4850	4959
65°	4619	4634	4721
70°	4336	4340	4434
75°	3941	3927	4017
80°	3386	3372	3429
85°	2628	2584	2600

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.0	3.5
10°-20°	597.2	9.9
20°-30°	889.1	14.8
30°-40°	1051.4	17.5
40°-50°	1073.4	17.9
50°-60°	957.9	16.0
60°-70°	721.5	12.0
70°-80°	402.4	6.7
80°-90°	100.8	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°	1696.3	28.3
0°-40°	2747.7	45.8
0°-60°	4779.0	79.6
0°-90°	6003.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6003.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2222	2222	2222	2222	2222	
5°	2208	2212	2209	2210	2212	210
15°	2116	2118	2117	2119	2123	596
25°	1924	1926	1929	1934	1938	886
35°	1675	1674	1680	1686	1693	1048
45°	1385	1384	1391	1398	1405	1068
55°	1065	1064	1070	1077	1088	952
65°	725	723	728	734	742	717
75°	379	376	378	380	386	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°	2221.8	2221.8	2221.8	2221.8	2221.8
2.5°	2218.2	2221.8	2217.2	2218.2	2222.3
5°	2207.6	2211.7	2209.4	2209.9	2212.2
7.5°	2192.9	2198.4	2195.2	2196.1	2198.4
10°	2175.4	2179.5	2175.8	2178.1	2182.3
12.5°	2150.5	2152.4	2150.5	2151.5	2156.1
15°	2116.0	2118.3	2117.4	2119.3	2123.4
17.5°	2075.6	2078.3	2077.9	2081.5	2084.8
20°	2031.9	2032.3	2034.2	2037.8	2041.5
22.5°	1980.3	1981.7	1983.6	1988.6	1992.3
25°	1924.2	1926.5	1928.8	1933.9	1937.6
27.5°	1864.9	1867.2	1870.4	1875.9	1881.9
30°	1804.2	1804.2	1810.1	1815.7	1821.2
32.5°	1743.0	1740.7	1746.2	1753.1	1766.4
35°	1675.4	1673.5	1679.5	1685.9	1692.8
37.5°	1605.0	1603.6	1610.5	1617.4	1623.8
40°	1533.7	1531.8	1538.7	1545.6	1552.5
42.5°	1460.5	1459.6	1466.0	1472.9	1480.3
45°	1384.6	1384.2	1390.6	1397.5	1404.9
47.5°	1307.3	1306.4	1312.9	1320.2	1326.7
50°	1228.2	1227.3	1233.7	1241.1	1248.0
52.5°	1146.8	1146.8	1152.8	1159.2	1169.8
55°	1064.9	1063.5	1070.0	1077.3	1087.5
57.5°	982.1	980.3	986.3	993.6	1002.8
60°	897.5	895.6	901.2	908.5	921.4
62.5°	811.9	809.2	814.7	821.6	829.4
65°	725.4	722.7	727.7	734.2	741.5
67.5°	638.5	635.3	640.3	645.9	652.8
70°	551.1	547.9	551.6	557.1	563.5
72.5°	464.1	460.9	464.1	466.4	474.3
75°	379.0	375.8	377.7	379.5	386.4
77.5°	296.2	293.0	296.7	297.6	301.8
80°	218.5	215.3	217.6	218.0	221.3
82.5°	147.7	144.9	148.1	145.8	148.6
85°	85.1	82.8	83.7	82.8	84.2
87.5°	33.6	31.7	32.2	30.4	30.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)