

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: P835759

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-5LO-35-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835759
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-OPL-LD4-5LO-35-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

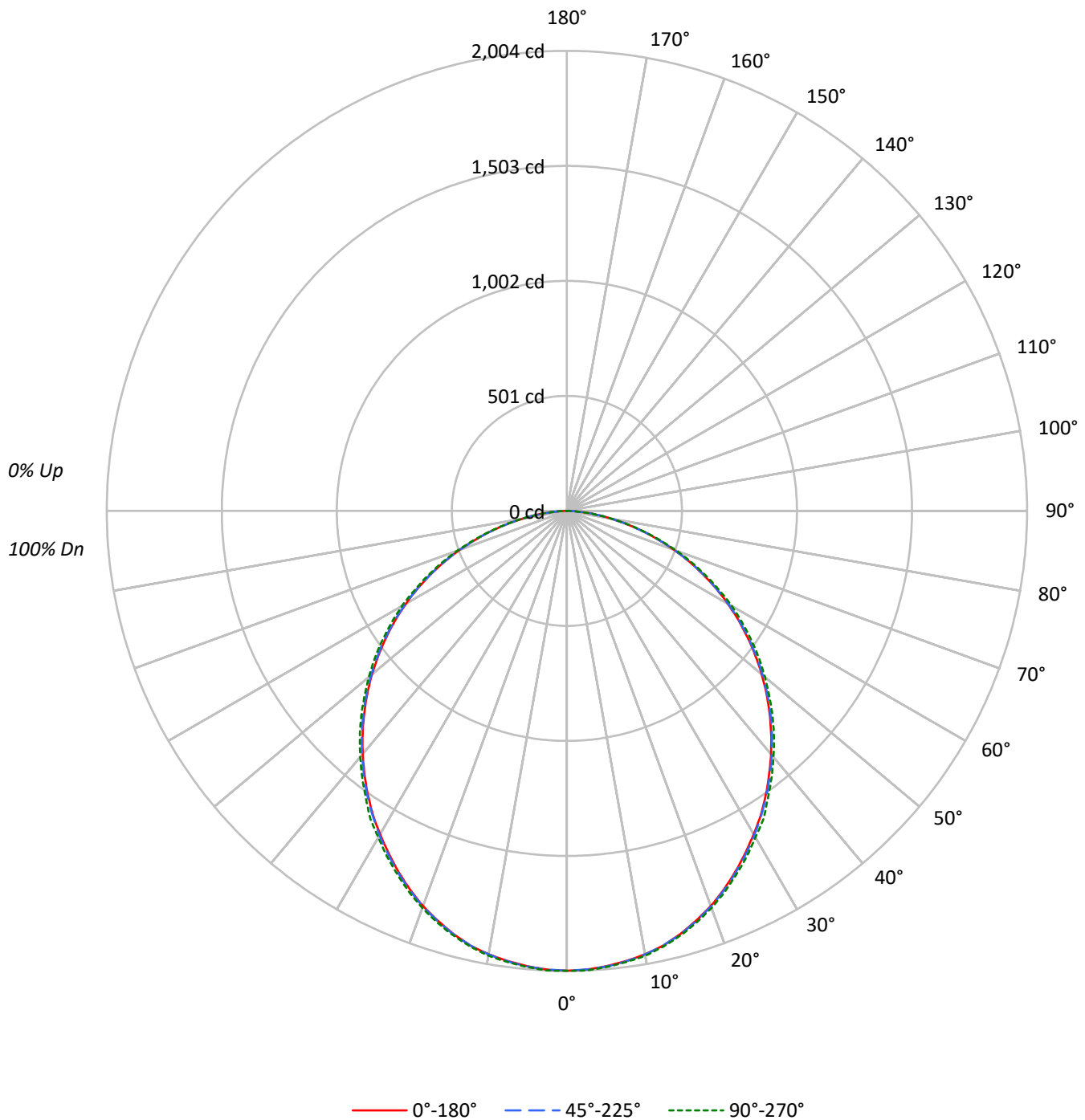
Lumens per Lamp: N/A
Luminaire Lumens: 5413.0 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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°	5391	5391	5391
5°	5377	5381	5388
10°	5360	5361	5376
15°	5315	5319	5334
20°	5246	5252	5271
25°	5151	5164	5187
30°	5055	5071	5102
35°	4962	4975	5014
40°	4858	4873	4917
45°	4751	4771	4821
50°	4636	4657	4711
55°	4505	4526	4600
60°	4355	4373	4471
65°	4165	4178	4257
70°	3910	3913	3998
75°	3554	3540	3622
80°	3053	3040	3092
85°	2368	2331	2343

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.3	3.5
10°-20°	538.5	9.9
20°-30°	801.6	14.8
30°-40°	948.0	17.5
40°-50°	967.8	17.9
50°-60°	863.7	16.0
60°-70°	650.5	12.0
70°-80°	362.8	6.7
80°-90°	90.9	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°	1529.4	28.3
0°-40°	2477.4	45.8
0°-60°	4308.8	79.6
0°-90°	5413.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5413.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2003	2003	2003	2003	2003	
5°	1990	1994	1992	1992	1994	189
15°	1908	1910	1909	1911	1914	538
25°	1735	1737	1739	1744	1747	799
35°	1510	1509	1514	1520	1526	945
45°	1248	1248	1254	1260	1267	963
55°	960	959	965	971	980	858
65°	654	652	656	662	669	647
75°	342	339	340	342	348	362
85°	77	75	76	75	76	92
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2003.3	2003.3	2003.3	2003.3	2003.3
2.5°	1999.9	2003.3	1999.1	1999.9	2003.7
5°	1990.4	1994.1	1992.1	1992.5	1994.5
7.5°	1977.1	1982.1	1979.2	1980.0	1982.1
10°	1961.4	1965.1	1961.8	1963.9	1967.6
12.5°	1939.0	1940.6	1939.0	1939.8	1943.9
15°	1907.9	1909.9	1909.1	1910.8	1914.5
17.5°	1871.4	1873.8	1873.4	1876.8	1879.7
20°	1832.0	1832.4	1834.0	1837.4	1840.7
22.5°	1785.5	1786.8	1788.4	1793.0	1796.3
25°	1734.9	1737.0	1739.1	1743.6	1746.9
27.5°	1681.4	1683.5	1686.4	1691.4	1696.8
30°	1626.7	1626.7	1632.0	1637.0	1642.0
32.5°	1571.5	1569.4	1574.4	1580.6	1592.6
35°	1510.5	1508.9	1514.3	1520.1	1526.3
37.5°	1447.1	1445.8	1452.0	1458.3	1464.1
40°	1382.8	1381.1	1387.3	1393.6	1399.8
42.5°	1316.8	1316.0	1321.8	1328.0	1334.7
45°	1248.4	1248.0	1253.8	1260.0	1266.7
47.5°	1178.7	1177.9	1183.7	1190.3	1196.1
50°	1107.4	1106.6	1112.4	1119.0	1125.2
52.5°	1034.0	1034.0	1039.4	1045.2	1054.7
55°	960.2	958.9	964.7	971.3	980.5
57.5°	885.5	883.8	889.2	895.9	904.2
60°	809.2	807.5	812.5	819.1	830.7
62.5°	732.0	729.5	734.5	740.7	747.8
65°	654.1	651.6	656.1	661.9	668.6
67.5°	575.7	572.8	577.3	582.3	588.5
70°	496.9	494.0	497.3	502.3	508.1
72.5°	418.5	415.6	418.5	420.6	427.6
75°	341.8	338.9	340.5	342.2	348.4
77.5°	267.1	264.2	267.5	268.3	272.1
80°	197.0	194.1	196.2	196.6	199.5
82.5°	133.1	130.6	133.6	131.5	134.0
85°	76.7	74.7	75.5	74.7	75.9
87.5°	30.3	28.6	29.0	27.4	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)