

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: P835648

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-4LO-35-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835648
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-LD4-4LO-35-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

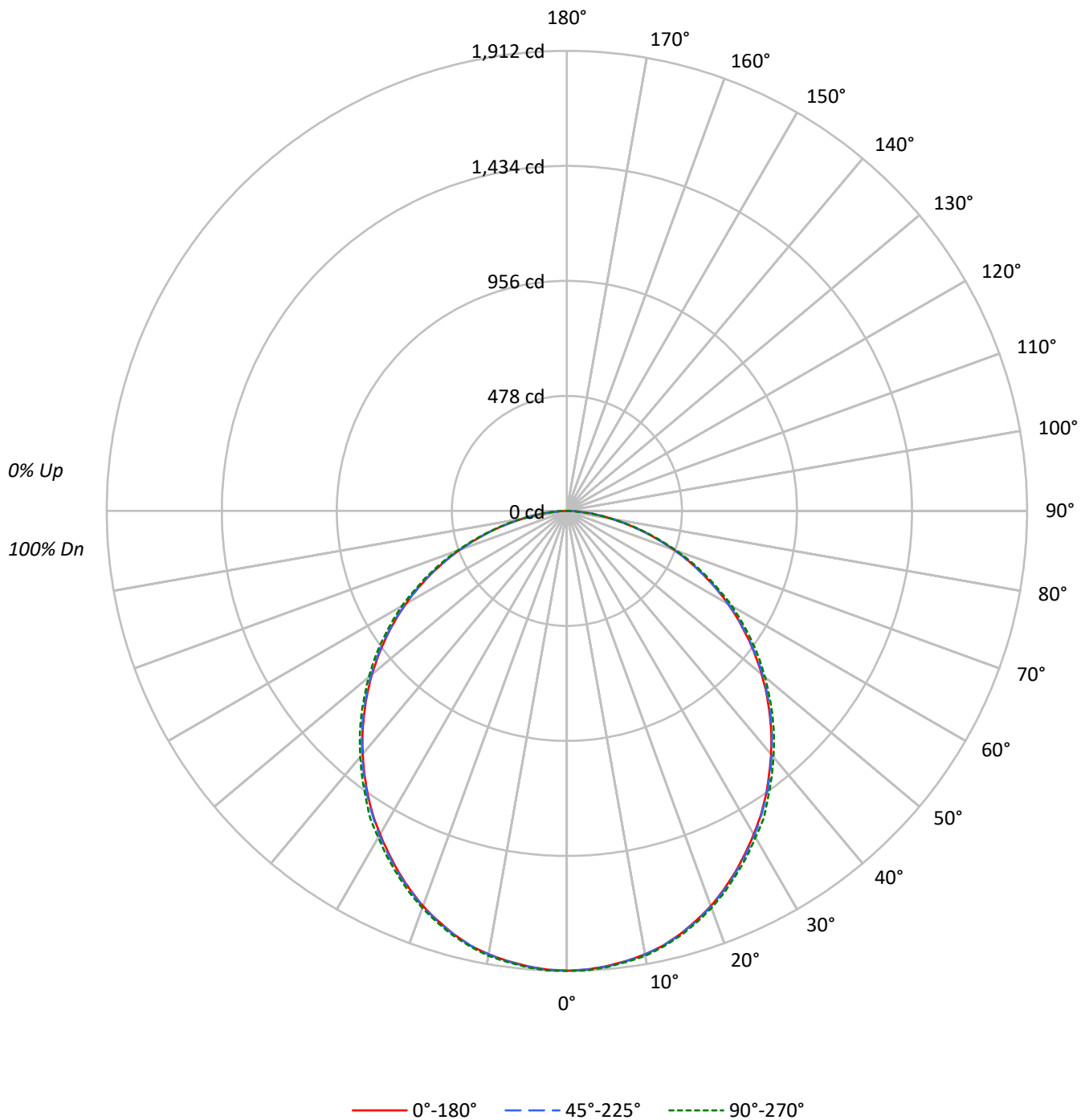
Lumens per Lamp: N/A
Luminaire Lumens: 5164.8 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	5144	5144	5144
5°	5130	5134	5141
10°	5114	5115	5130
15°	5071	5075	5089
20°	5006	5011	5029
25°	4915	4927	4949
30°	4823	4839	4868
35°	4735	4746	4784
40°	4635	4650	4692
45°	4533	4553	4599
50°	4423	4443	4495
55°	4298	4319	4389
60°	4155	4172	4266
65°	3974	3986	4062
70°	3730	3733	3814
75°	3391	3378	3456
80°	2913	2901	2949
85°	2260	2223	2235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	3.5
10°-20°	513.8	9.9
20°-30°	764.9	14.8
30°-40°	904.5	17.5
40°-50°	923.4	17.9
50°-60°	824.1	16.0
60°-70°	620.7	12.0
70°-80°	346.1	6.7
80°-90°	86.7	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°	1459.3	28.3
0°-40°	2363.8	45.8
0°-60°	4111.3	79.6
0°-90°	5164.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5164.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1911	1911	1911	1911	1911	
5°	1899	1903	1901	1901	1903	180
15°	1820	1822	1822	1823	1827	513
25°	1655	1657	1659	1664	1667	763
35°	1441	1440	1445	1450	1456	901
45°	1191	1191	1196	1202	1209	919
55°	916	915	920	927	936	819
65°	624	622	626	632	638	617
75°	326	323	325	326	332	346
85°	73	71	72	71	72	88
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1911.4	1911.4	1911.4	1911.4	1911.4
2.5°	1908.2	1911.4	1907.4	1908.2	1911.8
5°	1899.1	1902.7	1900.7	1901.1	1903.1
7.5°	1886.5	1891.2	1888.4	1889.2	1891.2
10°	1871.4	1875.0	1871.8	1873.8	1877.4
12.5°	1850.1	1851.6	1850.1	1850.8	1854.8
15°	1820.4	1822.3	1821.6	1823.1	1826.7
17.5°	1785.5	1787.9	1787.5	1790.7	1793.5
20°	1748.0	1748.3	1749.9	1753.1	1756.3
22.5°	1703.6	1704.8	1706.4	1710.8	1713.9
25°	1655.4	1657.3	1659.3	1663.7	1666.8
27.5°	1604.3	1606.3	1609.0	1613.8	1618.9
30°	1552.1	1552.1	1557.2	1562.0	1566.7
32.5°	1499.4	1497.5	1502.2	1508.1	1519.6
35°	1441.3	1439.7	1444.8	1450.4	1456.3
37.5°	1380.7	1379.5	1385.5	1391.4	1396.9
40°	1319.4	1317.8	1323.7	1329.7	1335.6
42.5°	1256.5	1255.7	1261.2	1267.1	1273.5
45°	1191.2	1190.8	1196.3	1202.2	1208.6
47.5°	1124.7	1123.9	1129.4	1135.8	1141.3
50°	1056.6	1055.8	1061.4	1067.7	1073.6
52.5°	986.6	986.6	991.7	997.2	1006.3
55°	916.1	914.9	920.5	926.8	935.5
57.5°	844.9	843.3	848.5	854.8	862.7
60°	772.1	770.5	775.2	781.6	792.7
62.5°	698.5	696.1	700.8	706.8	713.5
65°	624.1	621.7	626.0	631.6	637.9
67.5°	549.3	546.5	550.9	555.6	561.5
70°	474.1	471.3	474.5	479.2	484.8
72.5°	399.3	396.5	399.3	401.3	408.0
75°	326.1	323.3	324.9	326.5	332.4
77.5°	254.9	252.1	255.2	256.0	259.6
80°	188.0	185.2	187.2	187.6	190.3
82.5°	127.0	124.7	127.4	125.4	127.8
85°	73.2	71.2	72.0	71.2	72.4
87.5°	28.9	27.3	27.7	26.1	26.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)