

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: P835646

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-3STD-35-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835646
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-LD4-3STD-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

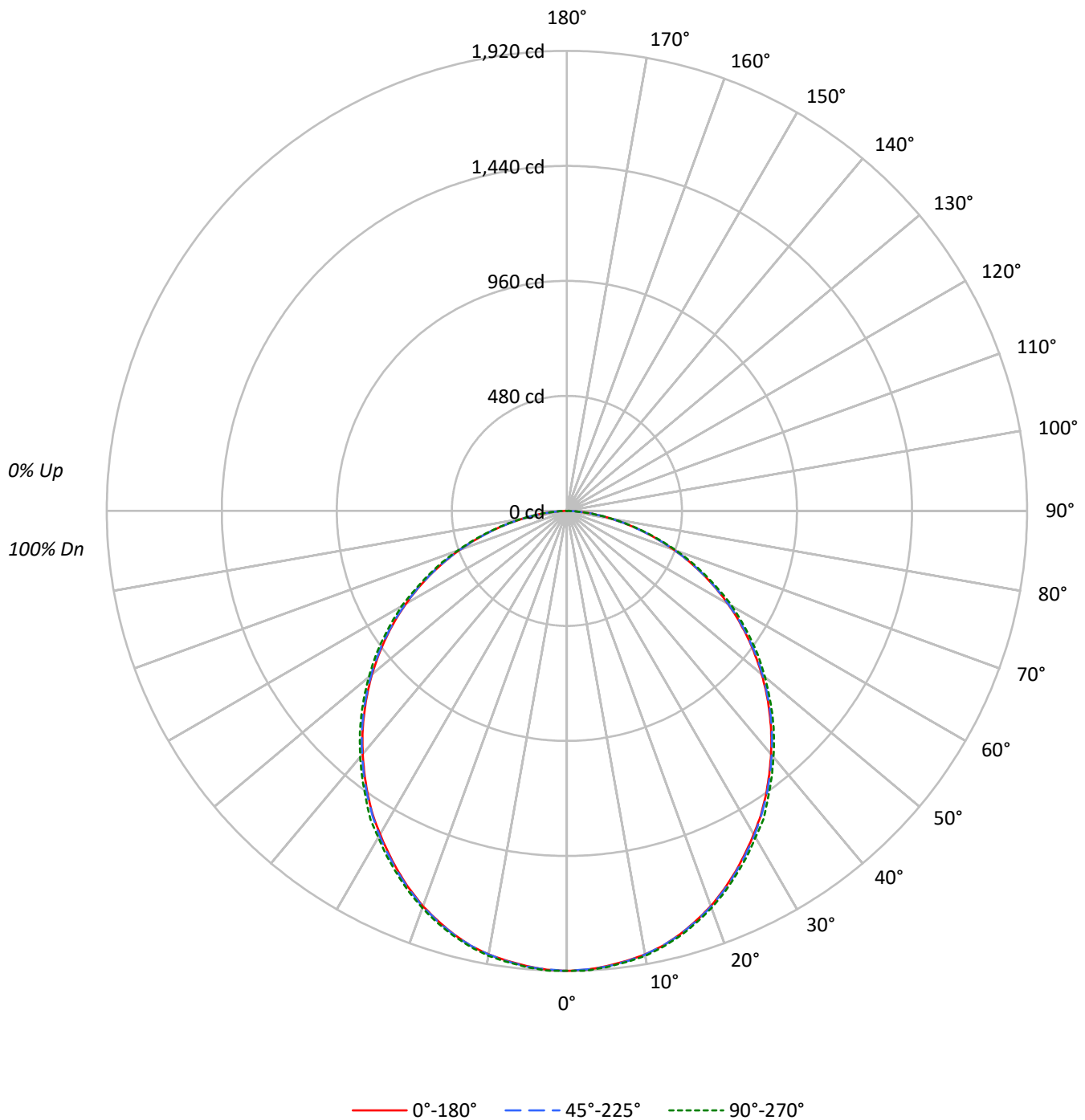
Lumens per Lamp: N/A
Luminaire Lumens: 5187.0 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	5166	5166	5166
5°	5152	5156	5163
10°	5136	5137	5152
15°	5093	5097	5111
20°	5027	5033	5051
25°	4936	4948	4970
30°	4843	4859	4889
35°	4755	4767	4805
40°	4654	4670	4712
45°	4553	4572	4619
50°	4443	4462	4514
55°	4317	4337	4408
60°	4173	4190	4285
65°	3991	4003	4080
70°	3746	3749	3831
75°	3405	3393	3471
80°	2926	2913	2963
85°	2269	2232	2245

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.4	3.5
10°-20°	516.0	9.9
20°-30°	768.1	14.8
30°-40°	908.4	17.5
40°-50°	927.4	17.9
50°-60°	827.6	16.0
60°-70°	623.4	12.0
70°-80°	347.6	6.7
80°-90°	87.1	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°	1465.5	28.3
0°-40°	2374.0	45.8
0°-60°	4128.9	79.6
0°-90°	5187.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5187.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1920	1920	1920	1920	1920	
5°	1907	1911	1909	1909	1911	181
15°	1828	1830	1829	1831	1835	515
25°	1662	1664	1666	1671	1674	766
35°	1448	1446	1451	1457	1463	905
45°	1196	1196	1201	1207	1214	923
55°	920	919	924	931	940	822
65°	627	624	629	634	641	620
75°	328	325	326	328	334	347
85°	74	72	72	72	73	88
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1919.6	1919.6	1919.6	1919.6	1919.6
2.5°	1916.4	1919.6	1915.6	1916.4	1920.0
5°	1907.3	1910.9	1908.9	1909.3	1911.3
7.5°	1894.6	1899.3	1896.6	1897.4	1899.3
10°	1879.5	1883.0	1879.9	1881.9	1885.4
12.5°	1858.0	1859.6	1858.0	1858.8	1862.8
15°	1828.2	1830.2	1829.4	1831.0	1834.6
17.5°	1793.2	1795.6	1795.2	1798.4	1801.2
20°	1755.5	1755.9	1757.5	1760.6	1763.8
22.5°	1711.0	1712.2	1713.7	1718.1	1721.3
25°	1662.5	1664.5	1666.4	1670.8	1674.0
27.5°	1611.2	1613.2	1616.0	1620.7	1625.9
30°	1558.7	1558.7	1563.9	1568.7	1573.4
32.5°	1505.9	1503.9	1508.7	1514.6	1526.2
35°	1447.5	1445.9	1451.0	1456.6	1462.6
37.5°	1386.7	1385.5	1391.4	1397.4	1402.9
40°	1325.0	1323.5	1329.4	1335.4	1341.3
42.5°	1261.9	1261.1	1266.6	1272.6	1278.9
45°	1196.3	1195.9	1201.4	1207.4	1213.8
47.5°	1129.5	1128.7	1134.3	1140.6	1146.2
50°	1061.2	1060.4	1065.9	1072.3	1078.2
52.5°	990.8	990.8	996.0	1001.5	1010.7
55°	920.1	918.9	924.4	930.8	939.5
57.5°	848.5	846.9	852.1	858.5	866.4
60°	775.4	773.8	778.6	784.9	796.1
62.5°	701.5	699.1	703.9	709.8	716.6
65°	626.8	624.4	628.7	634.3	640.7
67.5°	551.6	548.9	553.2	558.0	564.0
70°	476.1	473.3	476.5	481.3	486.9
72.5°	401.0	398.2	401.0	403.0	409.8
75°	327.5	324.7	326.3	327.9	333.8
77.5°	255.9	253.2	256.3	257.1	260.7
80°	188.8	186.0	188.0	188.4	191.2
82.5°	127.6	125.2	128.0	126.0	128.4
85°	73.5	71.5	72.3	71.5	72.7
87.5°	29.0	27.4	27.8	26.2	26.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)