

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: P835777

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-5LO-40-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835777
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-40-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

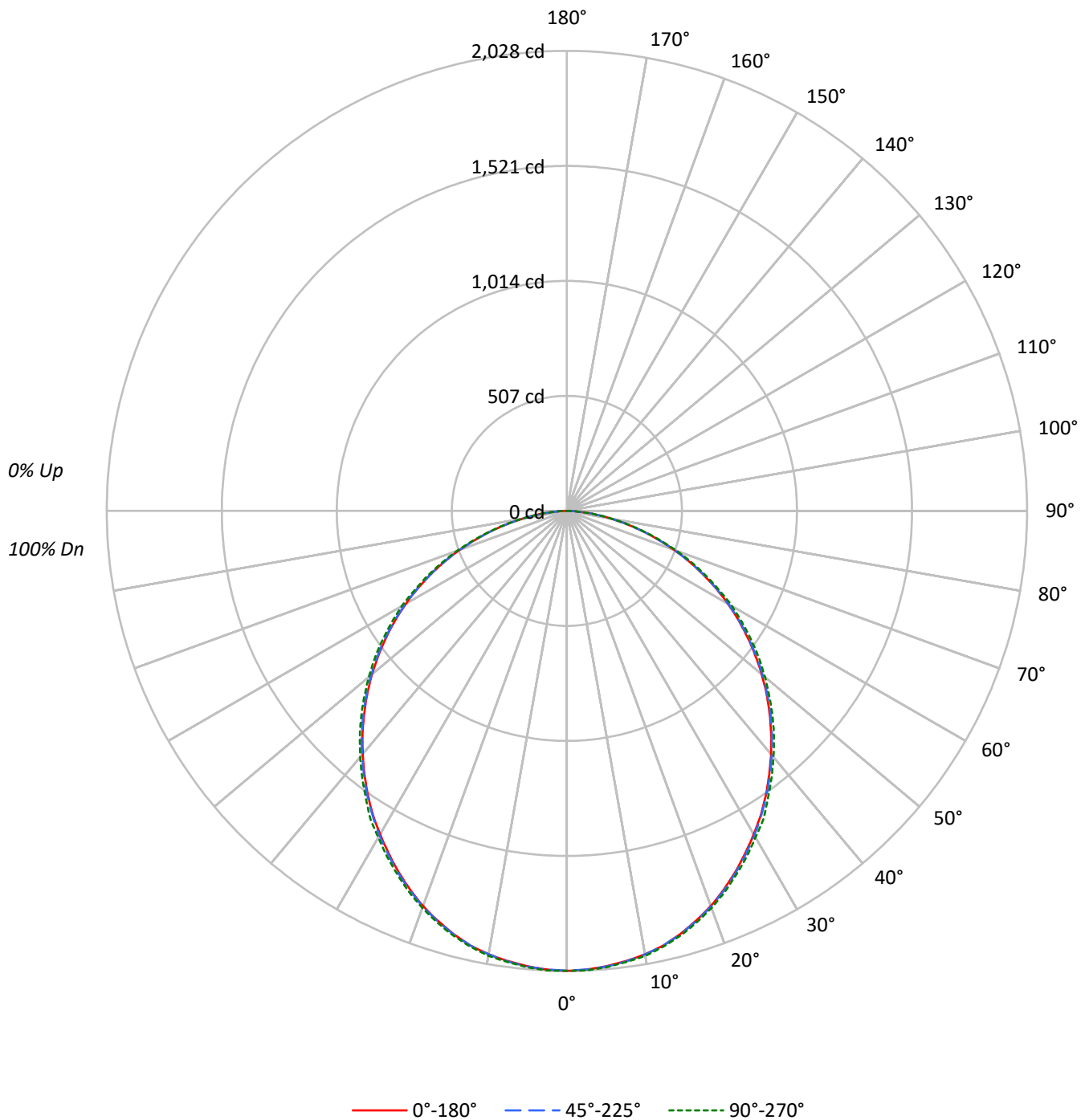
Lumens per Lamp: N/A
Luminaire Lumens: 5478.2 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5456	5456	5456
5°	5441	5446	5453
10°	5424	5425	5441
15°	5379	5383	5398
20°	5309	5315	5334
25°	5213	5226	5249
30°	5116	5132	5164
35°	5022	5034	5074
40°	4916	4932	4977
45°	4808	4829	4878
50°	4692	4713	4767
55°	4559	4580	4655
60°	4407	4426	4525
65°	4215	4228	4308
70°	3957	3960	4046
75°	3596	3583	3666
80°	3090	3076	3129
85°	2399	2359	2371

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.6	3.5
10°-20°	545.0	9.9
20°-30°	811.3	14.8
30°-40°	959.4	17.5
40°-50°	979.4	17.9
50°-60°	874.1	16.0
60°-70°	658.3	12.0
70°-80°	367.1	6.7
80°-90°	92.0	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°	1547.8	28.3
0°-40°	2507.2	45.8
0°-60°	4360.8	79.6
0°-90°	5478.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5478.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2027	2027	2027	2027	2027	
5°	2014	2018	2016	2016	2019	191
15°	1931	1933	1932	1934	1938	544
25°	1756	1758	1760	1765	1768	809
35°	1529	1527	1532	1538	1545	956
45°	1263	1263	1269	1275	1282	975
55°	972	970	976	983	992	869
65°	662	659	664	670	677	655
75°	346	343	345	346	353	367
85°	78	76	76	76	77	93
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2027.4	2027.4	2027.4	2027.4	2027.4
2.5°	2024.0	2027.4	2023.2	2024.0	2027.8
5°	2014.4	2018.2	2016.1	2016.5	2018.6
7.5°	2000.9	2006.0	2003.0	2003.9	2006.0
10°	1985.0	1988.8	1985.4	1987.5	1991.3
12.5°	1962.3	1964.0	1962.3	1963.2	1967.4
15°	1930.8	1932.9	1932.1	1933.8	1937.6
17.5°	1893.9	1896.4	1896.0	1899.4	1902.3
20°	1854.0	1854.5	1856.1	1859.5	1862.8
22.5°	1807.0	1808.3	1810.0	1814.6	1817.9
25°	1755.8	1757.9	1760.0	1764.6	1768.0
27.5°	1701.7	1703.8	1706.7	1711.7	1717.2
30°	1646.3	1646.3	1651.7	1656.7	1661.8
32.5°	1590.4	1588.3	1593.4	1599.7	1611.8
35°	1528.7	1527.0	1532.5	1538.4	1544.7
37.5°	1464.5	1463.2	1469.5	1475.8	1481.7
40°	1399.4	1397.8	1404.1	1410.4	1416.7
42.5°	1332.7	1331.9	1337.7	1344.0	1350.8
45°	1263.4	1263.0	1268.9	1275.2	1281.9
47.5°	1192.9	1192.1	1198.0	1204.7	1210.6
50°	1120.7	1119.9	1125.8	1132.5	1138.8
52.5°	1046.4	1046.4	1051.9	1057.8	1067.4
55°	971.7	970.5	976.3	983.1	992.3
57.5°	896.2	894.5	899.9	906.7	915.1
60°	818.9	817.3	822.3	829.0	840.8
62.5°	740.9	738.3	743.4	749.7	756.8
65°	661.9	659.4	664.0	669.9	676.6
67.5°	582.6	579.7	584.3	589.3	595.6
70°	502.9	499.9	503.3	508.3	514.2
72.5°	423.5	420.6	423.5	425.6	432.8
75°	345.9	342.9	344.6	346.3	352.6
77.5°	270.3	267.4	270.7	271.6	275.4
80°	199.4	196.4	198.5	199.0	201.9
82.5°	134.7	132.2	135.2	133.1	135.6
85°	77.7	75.6	76.4	75.6	76.8
87.5°	30.6	29.0	29.4	27.7	27.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)