

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: P835682

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-3STD-50-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835682
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-50-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

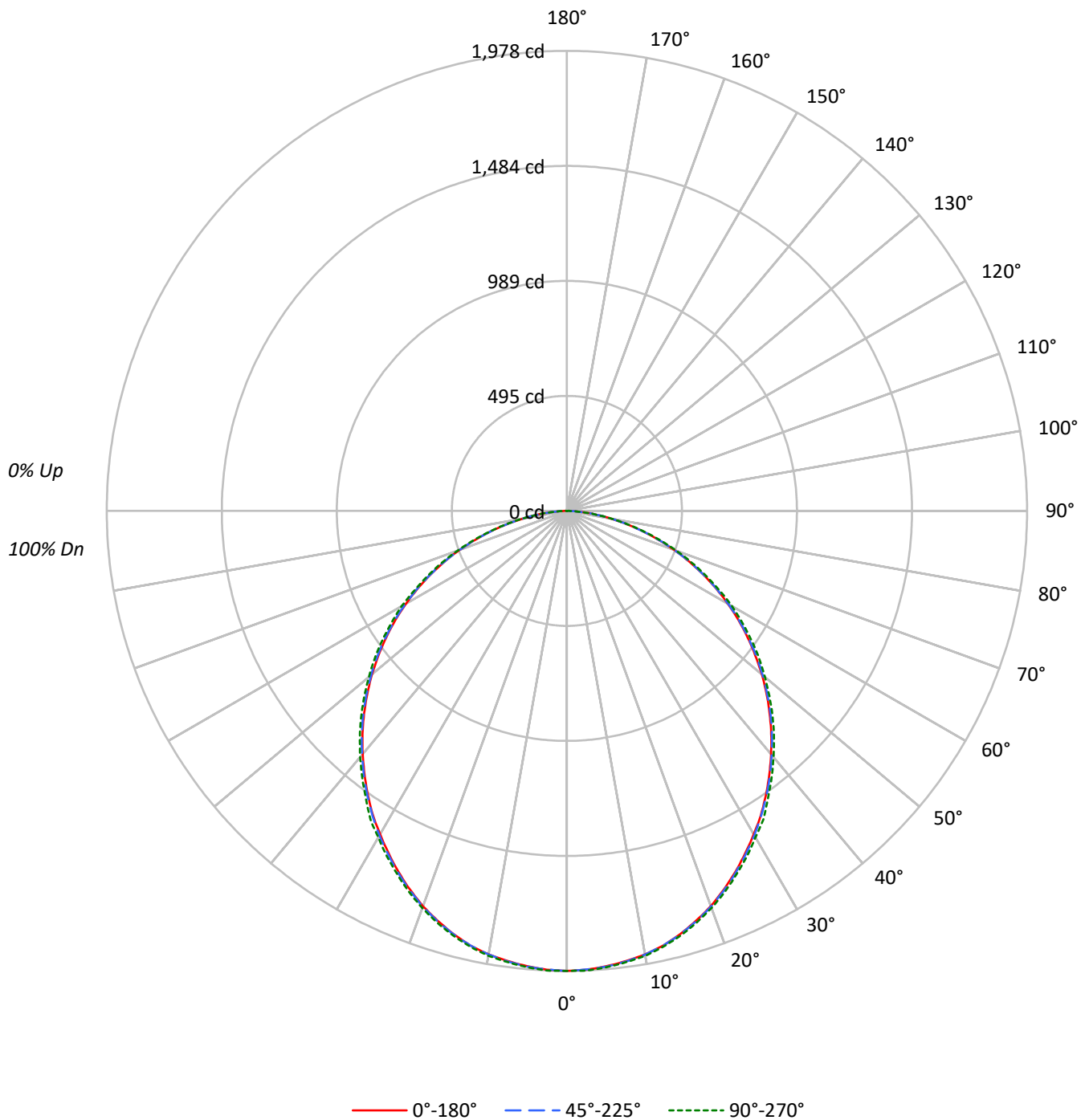
Lumens per Lamp: N/A
Luminaire Lumens: 5344.2 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	5322	5322	5322
5°	5308	5313	5319
10°	5291	5292	5308
15°	5248	5251	5266
20°	5180	5185	5204
25°	5086	5098	5121
30°	4990	5007	5037
35°	4899	4911	4950
40°	4796	4812	4855
45°	4690	4711	4759
50°	4577	4598	4651
55°	4447	4468	4541
60°	4300	4317	4414
65°	4111	4125	4203
70°	3860	3863	3947
75°	3508	3496	3577
80°	3014	3002	3053
85°	2340	2300	2313

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.9	3.5
10°-20°	531.6	9.9
20°-30°	791.4	14.8
30°-40°	935.9	17.5
40°-50°	955.5	17.9
50°-60°	852.7	16.0
60°-70°	642.3	12.0
70°-80°	358.2	6.7
80°-90°	89.7	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°	1509.9	28.3
0°-40°	2445.9	45.8
0°-60°	4254.0	79.6
0°-90°	5344.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5344.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1978	1978	1978	1978	1978	
5°	1965	1969	1967	1967	1969	187
15°	1884	1886	1885	1886	1890	531
25°	1713	1715	1717	1721	1725	789
35°	1491	1490	1495	1501	1507	933
45°	1232	1232	1238	1244	1250	951
55°	948	947	952	959	968	847
65°	646	643	648	654	660	639
75°	337	334	336	338	344	358
85°	76	74	74	74	75	91
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1977.8	1977.8	1977.8	1977.8	1977.8
2.5°	1974.5	1977.8	1973.7	1974.5	1978.2
5°	1965.1	1968.8	1966.7	1967.1	1969.2
7.5°	1952.0	1956.9	1954.0	1954.9	1956.9
10°	1936.4	1940.1	1936.8	1938.9	1942.6
12.5°	1914.3	1916.0	1914.3	1915.1	1919.2
15°	1883.6	1885.6	1884.8	1886.5	1890.2
17.5°	1847.6	1850.0	1849.6	1852.9	1855.8
20°	1808.7	1809.1	1810.7	1814.0	1817.3
22.5°	1762.8	1764.0	1765.7	1770.2	1773.5
25°	1712.8	1714.9	1716.9	1721.4	1724.7
27.5°	1660.0	1662.1	1664.9	1669.9	1675.2
30°	1606.0	1606.0	1611.3	1616.2	1621.1
32.5°	1551.5	1549.5	1554.4	1560.5	1572.4
35°	1491.3	1489.7	1495.0	1500.7	1506.9
37.5°	1428.7	1427.4	1433.6	1439.7	1445.5
40°	1365.2	1363.6	1369.7	1375.8	1382.0
42.5°	1300.1	1299.3	1305.0	1311.2	1317.7
45°	1232.5	1232.1	1237.9	1244.0	1250.5
47.5°	1163.7	1162.9	1168.7	1175.2	1180.9
50°	1093.3	1092.5	1098.2	1104.8	1110.9
52.5°	1020.8	1020.8	1026.2	1031.9	1041.3
55°	947.9	946.7	952.4	959.0	968.0
57.5°	874.2	872.6	877.9	884.5	892.7
60°	798.9	797.3	802.2	808.7	820.2
62.5°	722.7	720.3	725.2	731.3	738.3
65°	645.7	643.3	647.8	653.5	660.1
67.5°	568.4	565.5	570.0	574.9	581.1
70°	490.6	487.7	491.0	495.9	501.6
72.5°	413.2	410.3	413.2	415.2	422.2
75°	337.4	334.5	336.2	337.8	344.0
77.5°	263.7	260.8	264.1	264.9	268.6
80°	194.5	191.6	193.7	194.1	197.0
82.5°	131.4	129.0	131.9	129.8	132.3
85°	75.8	73.7	74.5	73.7	74.9
87.5°	29.9	28.3	28.7	27.0	27.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)