

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: P835684

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-4LO-50-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835684
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-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

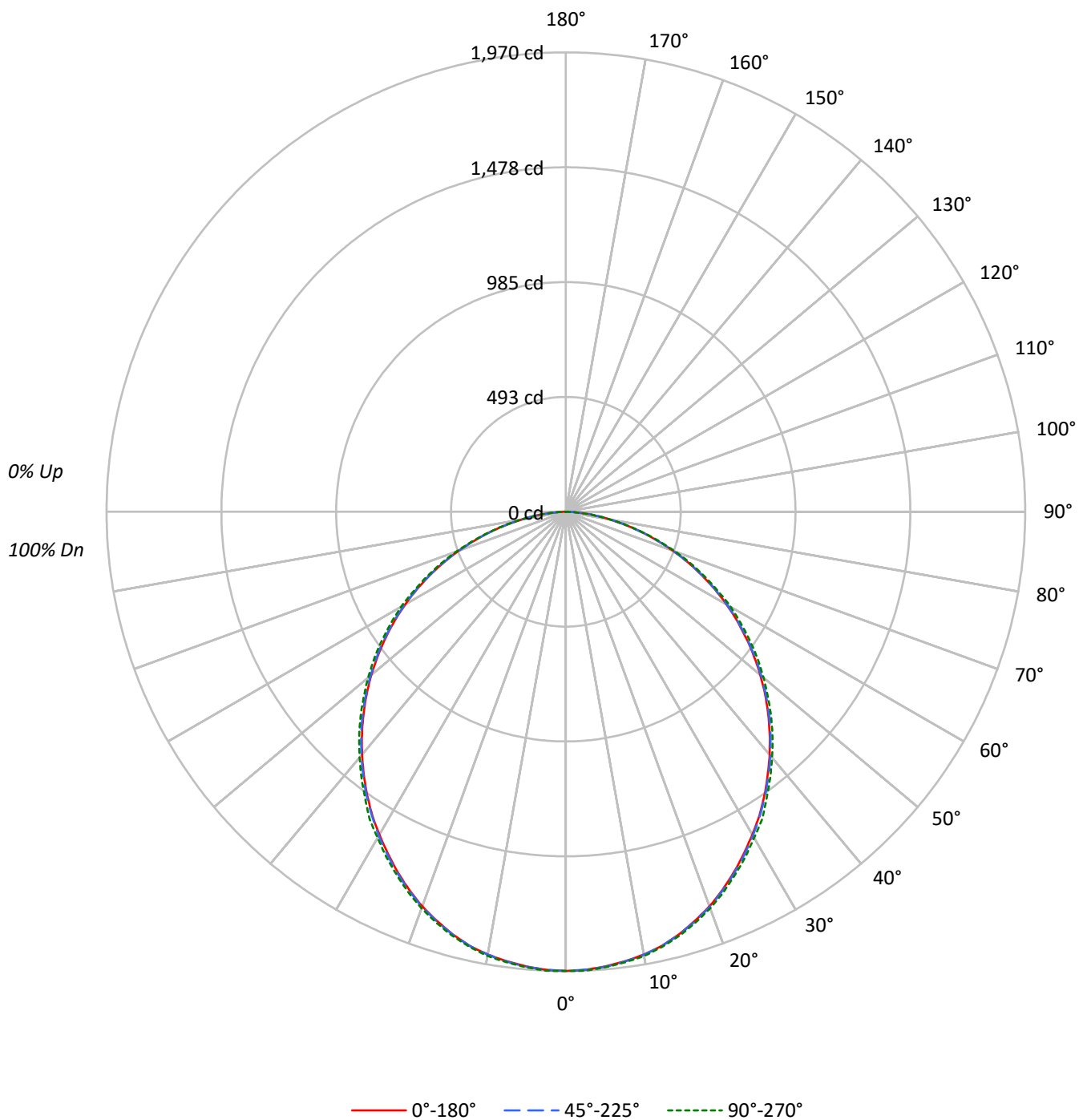
Lumens per Lamp: N/A
Luminaire Lumens: 5321.3 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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°	5299	5299	5299
5°	5286	5290	5296
10°	5269	5270	5285
15°	5225	5229	5243
20°	5157	5163	5182
25°	5064	5076	5099
30°	4969	4985	5016
35°	4878	4890	4929
40°	4775	4791	4834
45°	4671	4691	4739
50°	4557	4578	4631
55°	4428	4449	4522
60°	4281	4299	4395
65°	4094	4107	4185
70°	3843	3847	3930
75°	3493	3480	3561
80°	3002	2989	3039
85°	2328	2291	2303

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.1	3.5
10°-20°	529.3	9.9
20°-30°	788.0	14.8
30°-40°	931.9	17.5
40°-50°	951.4	17.9
50°-60°	849.1	16.0
60°-70°	639.5	12.0
70°-80°	356.6	6.7
80°-90°	89.3	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°	1503.5	28.3
0°-40°	2435.4	45.8
0°-60°	4235.8	79.6
0°-90°	5321.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5321.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1969	1969	1969	1969	1969	
5°	1957	1960	1958	1959	1961	186
15°	1876	1878	1877	1878	1882	529
25°	1706	1708	1710	1714	1717	786
35°	1485	1483	1489	1494	1500	929
45°	1227	1227	1233	1239	1245	947
55°	944	943	948	955	964	844
65°	643	640	645	651	657	636
75°	336	333	335	336	342	356
85°	75	73	74	73	75	91
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1969.3	1969.3	1969.3	1969.3	1969.3
2.5°	1966.0	1969.3	1965.2	1966.0	1969.7
5°	1956.7	1960.3	1958.3	1958.7	1960.7
7.5°	1943.6	1948.5	1945.7	1946.5	1948.5
10°	1928.1	1931.8	1928.5	1930.6	1934.2
12.5°	1906.1	1907.7	1906.1	1906.9	1911.0
15°	1875.5	1877.6	1876.8	1878.4	1882.1
17.5°	1839.7	1842.1	1841.7	1845.0	1847.8
20°	1800.9	1801.3	1803.0	1806.2	1809.5
22.5°	1755.3	1756.5	1758.1	1762.6	1765.9
25°	1705.5	1707.6	1709.6	1714.1	1717.3
27.5°	1652.9	1655.0	1657.8	1662.7	1668.0
30°	1599.1	1599.1	1604.4	1609.3	1614.2
32.5°	1544.9	1542.8	1547.7	1553.8	1565.7
35°	1484.9	1483.3	1488.6	1494.3	1500.4
37.5°	1422.6	1421.3	1427.4	1433.6	1439.3
40°	1359.4	1357.7	1363.8	1370.0	1376.1
42.5°	1294.5	1293.7	1299.4	1305.5	1312.1
45°	1227.3	1226.8	1232.6	1238.7	1245.2
47.5°	1158.8	1157.9	1163.6	1170.2	1175.9
50°	1088.6	1087.8	1093.5	1100.0	1106.2
52.5°	1016.5	1016.5	1021.8	1027.5	1036.8
55°	943.9	942.7	948.4	954.9	963.9
57.5°	870.5	868.9	874.2	880.7	888.8
60°	795.5	793.8	798.7	805.3	816.7
62.5°	719.6	717.2	722.1	728.2	735.1
65°	643.0	640.5	645.0	650.7	657.3
67.5°	565.9	563.1	567.6	572.4	578.6
70°	488.5	485.6	488.9	493.8	499.5
72.5°	411.4	408.5	411.4	413.4	420.4
75°	336.0	333.1	334.7	336.4	342.5
77.5°	262.6	259.7	263.0	263.8	267.5
80°	193.7	190.8	192.9	193.3	196.1
82.5°	130.9	128.4	131.3	129.2	131.7
85°	75.4	73.4	74.2	73.4	74.6
87.5°	29.8	28.1	28.5	26.9	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)