

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: P835795

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-5LO-50-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835795
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-50-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

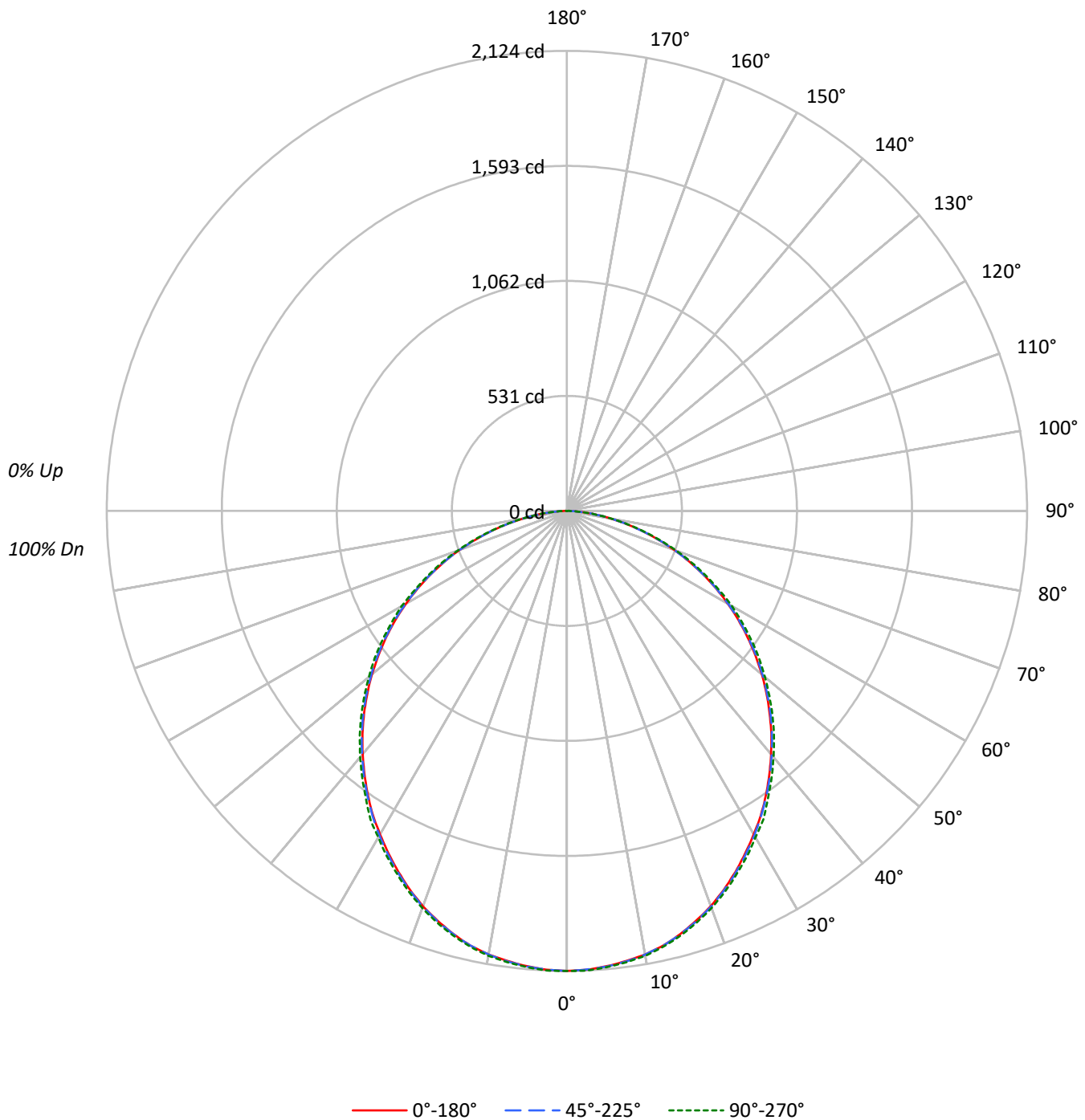
Lumens per Lamp: N/A
Luminaire Lumens: 5739.1 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	5715	5715	5715
5°	5700	5705	5712
10°	5682	5684	5700
15°	5635	5639	5655
20°	5562	5568	5589
25°	5461	5475	5499
30°	5359	5377	5409
35°	5261	5274	5316
40°	5150	5167	5213
45°	5037	5059	5111
50°	4915	4937	4994
55°	4776	4799	4877
60°	4617	4636	4740
65°	4416	4430	4514
70°	4145	4148	4238
75°	3767	3753	3841
80°	3237	3223	3278
85°	2513	2470	2485

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.7	3.5
10°-20°	570.9	9.9
20°-30°	849.9	14.8
30°-40°	1005.1	17.5
40°-50°	1026.1	17.9
50°-60°	915.7	16.0
60°-70°	689.7	12.0
70°-80°	384.6	6.7
80°-90°	96.4	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°	1621.5	28.3
0°-40°	2626.6	45.8
0°-60°	4568.4	79.6
0°-90°	5739.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5739.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2124	2124	2124	2124	2124	
5°	2110	2114	2112	2112	2115	200
15°	2023	2025	2024	2026	2030	570
25°	1839	1842	1844	1849	1852	847
35°	1602	1600	1606	1612	1618	1001
45°	1324	1323	1329	1336	1343	1021
55°	1018	1017	1023	1030	1040	910
65°	694	691	696	702	709	686
75°	362	359	361	363	369	384
85°	81	79	80	79	80	98
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2123.9	2123.9	2123.9	2123.9	2123.9
2.5°	2120.4	2123.9	2119.5	2120.4	2124.4
5°	2110.3	2114.3	2112.1	2112.5	2114.7
7.5°	2096.2	2101.5	2098.4	2099.3	2101.5
10°	2079.5	2083.5	2080.0	2082.2	2086.1
12.5°	2055.8	2057.5	2055.8	2056.6	2061.0
15°	2022.8	2025.0	2024.1	2025.9	2029.8
17.5°	1984.1	1986.7	1986.3	1989.8	1992.9
20°	1942.3	1942.8	1944.5	1948.0	1951.6
22.5°	1893.1	1894.4	1896.1	1901.0	1904.5
25°	1839.4	1841.6	1843.8	1848.7	1852.2
27.5°	1782.7	1784.9	1788.0	1793.2	1799.0
30°	1724.6	1724.6	1730.4	1735.6	1740.9
32.5°	1666.2	1664.0	1669.2	1675.8	1688.6
35°	1601.5	1599.8	1605.5	1611.6	1618.2
37.5°	1534.2	1532.9	1539.5	1546.1	1552.3
40°	1466.1	1464.3	1470.9	1477.5	1484.1
42.5°	1396.2	1395.3	1401.4	1408.0	1415.1
45°	1323.6	1323.2	1329.3	1335.9	1343.0
47.5°	1249.7	1248.9	1255.0	1262.0	1268.2
50°	1174.1	1173.2	1179.4	1186.4	1193.0
52.5°	1096.3	1096.3	1102.0	1108.1	1118.3
55°	1018.0	1016.7	1022.8	1029.9	1039.5
57.5°	938.8	937.1	942.8	949.8	958.6
60°	857.9	856.2	861.4	868.5	880.8
62.5°	776.1	773.5	778.8	785.4	792.8
65°	693.5	690.8	695.7	701.8	708.9
67.5°	610.4	607.3	612.1	617.4	624.0
70°	526.8	523.7	527.2	532.5	538.7
72.5°	443.7	440.6	443.7	445.9	453.4
75°	362.3	359.3	361.0	362.8	369.4
77.5°	283.2	280.1	283.6	284.5	288.5
80°	208.9	205.8	208.0	208.4	211.5
82.5°	141.2	138.5	141.6	139.4	142.0
85°	81.4	79.2	80.0	79.2	80.5
87.5°	32.1	30.3	30.8	29.0	29.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)