

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: P835030

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835030
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-OPL-LD4-2LO-50-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

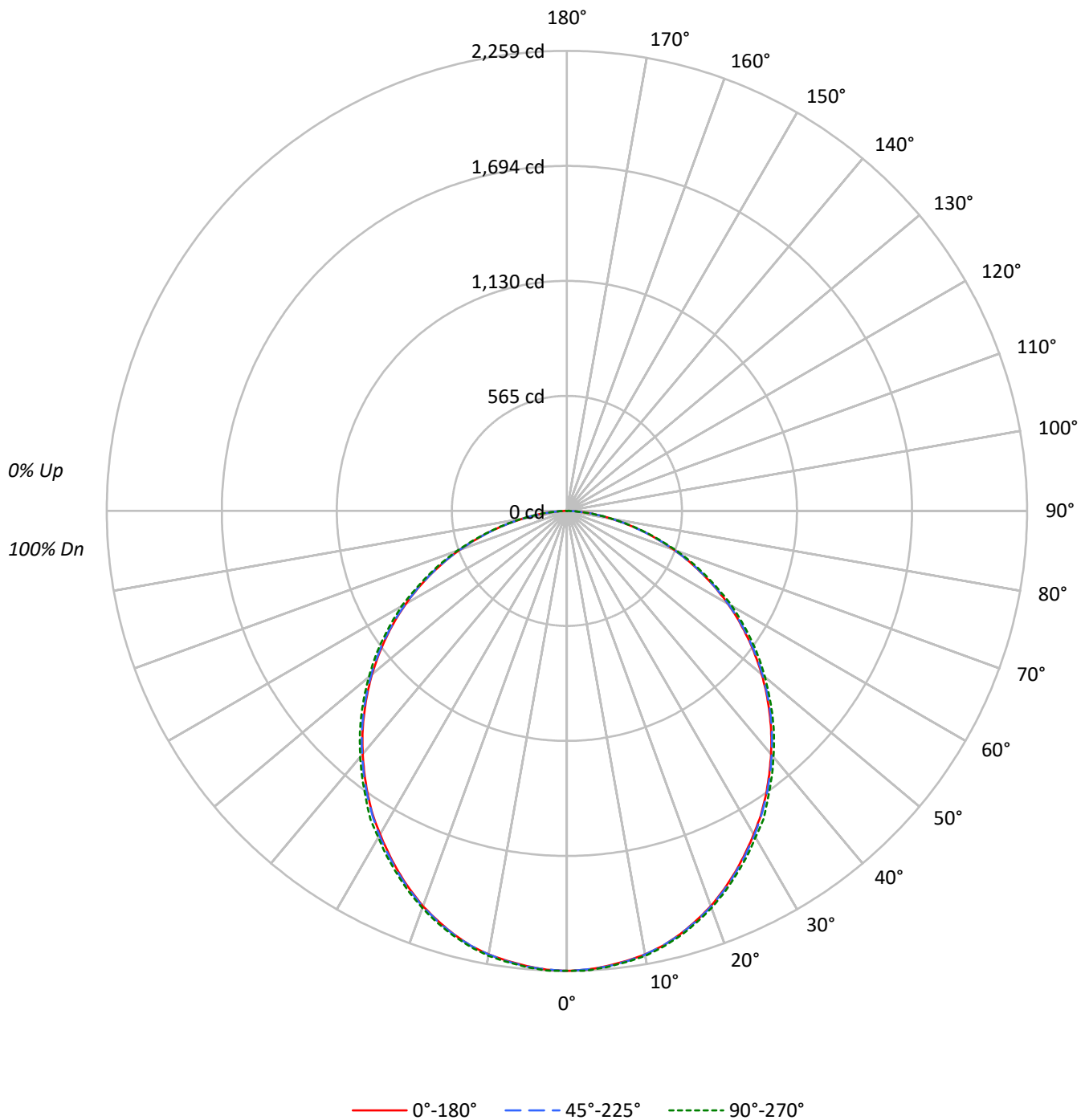
Lumens per Lamp: N/A
Luminaire Lumens: 6102.8 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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°	3039	3039	3039
5°	3031	3033	3037
10°	3021	3022	3031
15°	2996	2998	3007
20°	2957	2961	2971
25°	2904	2911	2924
30°	2849	2859	2876
35°	2797	2804	2826
40°	2738	2747	2772
45°	2678	2690	2717
50°	2613	2625	2655
55°	2539	2552	2593
60°	2455	2465	2520
65°	2348	2355	2400
70°	2204	2206	2253
75°	2003	1996	2042
80°	1721	1714	1743
85°	1335	1314	1321

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.4	3.5
10°-20°	607.1	9.9
20°-30°	903.8	14.8
30°-40°	1068.8	17.5
40°-50°	1091.1	17.9
50°-60°	973.7	16.0
60°-70°	733.4	12.0
70°-80°	409.0	6.7
80°-90°	102.5	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°	1724.3	28.3
0°-40°	2793.1	45.8
0°-60°	4857.9	79.6
0°-90°	6102.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6102.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2258	2258	2258	2258	2258	
5°	2244	2248	2246	2246	2249	213
15°	2151	2153	2152	2154	2158	606
25°	1956	1958	1961	1966	1970	901
35°	1703	1701	1707	1714	1721	1065
45°	1408	1407	1414	1421	1428	1086
55°	1082	1081	1088	1095	1105	968
65°	737	735	740	746	754	729
75°	385	382	384	386	393	408
85°	86	84	85	84	86	104
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2258.5	2258.5	2258.5	2258.5	2258.5
2.5°	2254.8	2258.5	2253.9	2254.8	2259.0
5°	2244.0	2248.3	2245.9	2246.4	2248.7
7.5°	2229.1	2234.7	2231.4	2232.4	2234.7
10°	2211.3	2215.5	2211.8	2214.1	2218.3
12.5°	2186.1	2187.9	2186.1	2187.0	2191.7
15°	2151.0	2153.3	2152.4	2154.3	2158.5
17.5°	2109.8	2112.6	2112.2	2115.9	2119.2
20°	2065.4	2065.9	2067.8	2071.5	2075.2
22.5°	2013.0	2014.5	2016.3	2021.5	2025.2
25°	1956.0	1958.3	1960.7	1965.8	1969.6
27.5°	1895.7	1898.0	1901.3	1906.9	1913.0
30°	1834.0	1834.0	1840.0	1845.6	1851.3
32.5°	1771.8	1769.4	1775.0	1782.0	1795.6
35°	1703.0	1701.2	1707.2	1713.8	1720.8
37.5°	1631.5	1630.1	1637.1	1644.1	1650.7
40°	1559.0	1557.1	1564.1	1571.2	1578.2
42.5°	1484.7	1483.7	1490.3	1497.3	1504.8
45°	1407.5	1407.0	1413.6	1420.6	1428.1
47.5°	1328.9	1328.0	1334.5	1342.0	1348.6
50°	1248.5	1247.6	1254.1	1261.6	1268.6
52.5°	1165.7	1165.7	1171.8	1178.4	1189.1
55°	1082.5	1081.1	1087.7	1095.1	1105.4
57.5°	998.3	996.5	1002.5	1010.0	1019.4
60°	912.3	910.4	916.0	923.5	936.6
62.5°	825.3	822.5	828.1	835.1	843.1
65°	737.4	734.6	739.8	746.3	753.8
67.5°	649.0	645.8	650.9	656.5	663.5
70°	560.2	556.9	560.7	566.3	572.8
72.5°	471.8	468.5	471.8	474.2	482.1
75°	385.3	382.0	383.9	385.8	392.8
77.5°	301.1	297.9	301.6	302.5	306.8
80°	222.1	218.8	221.2	221.6	224.9
82.5°	150.1	147.3	150.6	148.2	151.0
85°	86.5	84.2	85.1	84.2	85.6
87.5°	34.1	32.3	32.7	30.9	30.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)