

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: P835687

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835687
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
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

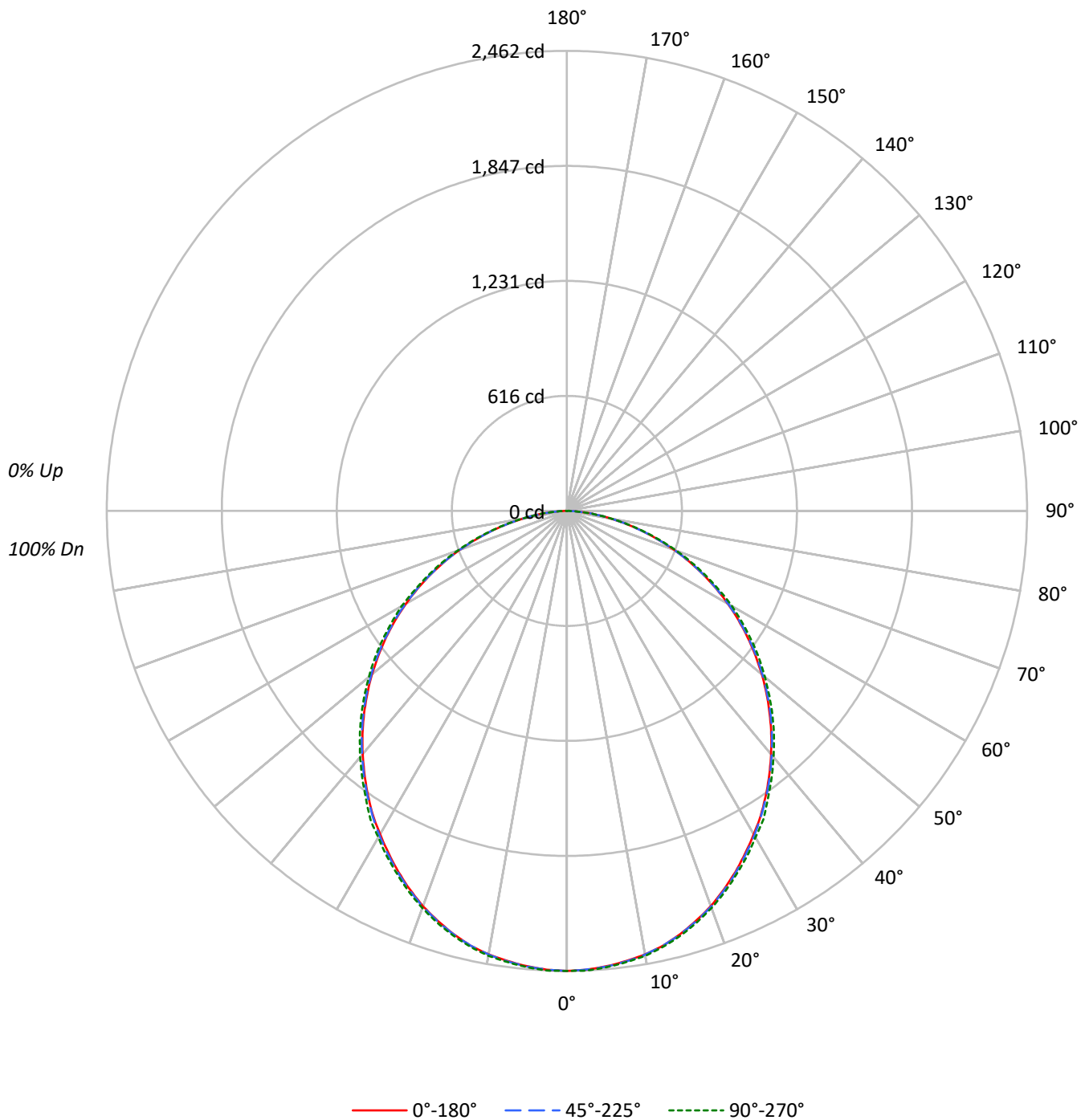
Lumens per Lamp: N/A
Luminaire Lumens: 6652.1 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6625	6625	6625
5°	6607	6613	6621
10°	6586	6588	6607
15°	6532	6536	6555
20°	6447	6454	6478
25°	6331	6346	6374
30°	6211	6232	6270
35°	6098	6113	6162
40°	5969	5989	6043
45°	5839	5864	5924
50°	5697	5723	5789
55°	5536	5562	5653
60°	5352	5374	5494
65°	5118	5134	5231
70°	4804	4808	4913
75°	4367	4351	4451
80°	3752	3736	3800
85°	2912	2865	2881



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.6	3.5
10°-20°	661.7	9.9
20°-30°	985.1	14.8
30°-40°	1165.0	17.5
40°-50°	1189.3	17.9
50°-60°	1061.4	16.0
60°-70°	799.4	12.0
70°-80°	445.8	6.7
80°-90°	111.7	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°	1879.5	28.3
0°-40°	3044.5	45.8
0°-60°	5295.2	79.6
0°-90°	6652.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6652.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2462	2462	2462	2462	2462	
5°	2446	2451	2448	2449	2451	232
15°	2345	2347	2346	2348	2353	661
25°	2132	2135	2137	2143	2147	982
35°	1856	1854	1861	1868	1876	1161
45°	1534	1534	1541	1548	1557	1183
55°	1180	1178	1186	1194	1205	1055
65°	804	801	806	814	822	795
75°	420	416	418	420	428	445
85°	94	92	93	92	93	113
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2461.8	2461.8	2461.8	2461.8	2461.8
2.5°	2457.8	2461.8	2456.7	2457.8	2462.3
5°	2446.0	2450.6	2448.1	2448.6	2451.1
7.5°	2429.7	2435.8	2432.3	2433.3	2435.8
10°	2410.3	2414.9	2410.9	2413.4	2418.0
12.5°	2382.8	2384.9	2382.8	2383.8	2388.9
15°	2344.6	2347.1	2346.1	2348.2	2352.8
17.5°	2299.7	2302.8	2302.3	2306.4	2309.9
20°	2251.3	2251.8	2253.9	2257.9	2262.0
22.5°	2194.2	2195.8	2197.8	2203.4	2207.5
25°	2132.1	2134.6	2137.2	2142.8	2146.8
27.5°	2066.3	2068.9	2072.4	2078.5	2085.2
30°	1999.0	1999.0	2005.7	2011.8	2017.9
32.5°	1931.2	1928.7	1934.8	1942.4	1957.2
35°	1856.3	1854.3	1860.9	1868.0	1875.7
37.5°	1778.3	1776.8	1784.4	1792.1	1799.2
40°	1699.3	1697.3	1704.9	1712.6	1720.2
42.5°	1618.3	1617.3	1624.4	1632.0	1640.2
45°	1534.2	1533.7	1540.8	1548.5	1556.6
47.5°	1448.6	1447.5	1454.7	1462.8	1470.0
50°	1360.9	1359.9	1367.0	1375.2	1382.8
52.5°	1270.7	1270.7	1277.3	1284.4	1296.2
55°	1179.9	1178.4	1185.6	1193.7	1204.9
57.5°	1088.2	1086.2	1092.8	1100.9	1111.1
60°	994.4	992.4	998.5	1006.6	1020.9
62.5°	899.6	896.6	902.7	910.3	919.0
65°	803.8	800.7	806.3	813.5	821.6
67.5°	707.5	703.9	709.5	715.6	723.3
70°	610.6	607.0	611.1	617.2	624.4
72.5°	514.3	510.7	514.3	516.8	525.5
75°	420.0	416.4	418.5	420.5	428.1
77.5°	328.2	324.7	328.8	329.8	334.4
80°	242.1	238.5	241.1	241.6	245.2
82.5°	163.6	160.6	164.1	161.6	164.6
85°	94.3	91.7	92.8	91.7	93.3
87.5°	37.2	35.2	35.7	33.6	33.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)