

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: P835629

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-3HI-30-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835629
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-LD4-3HI-30-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

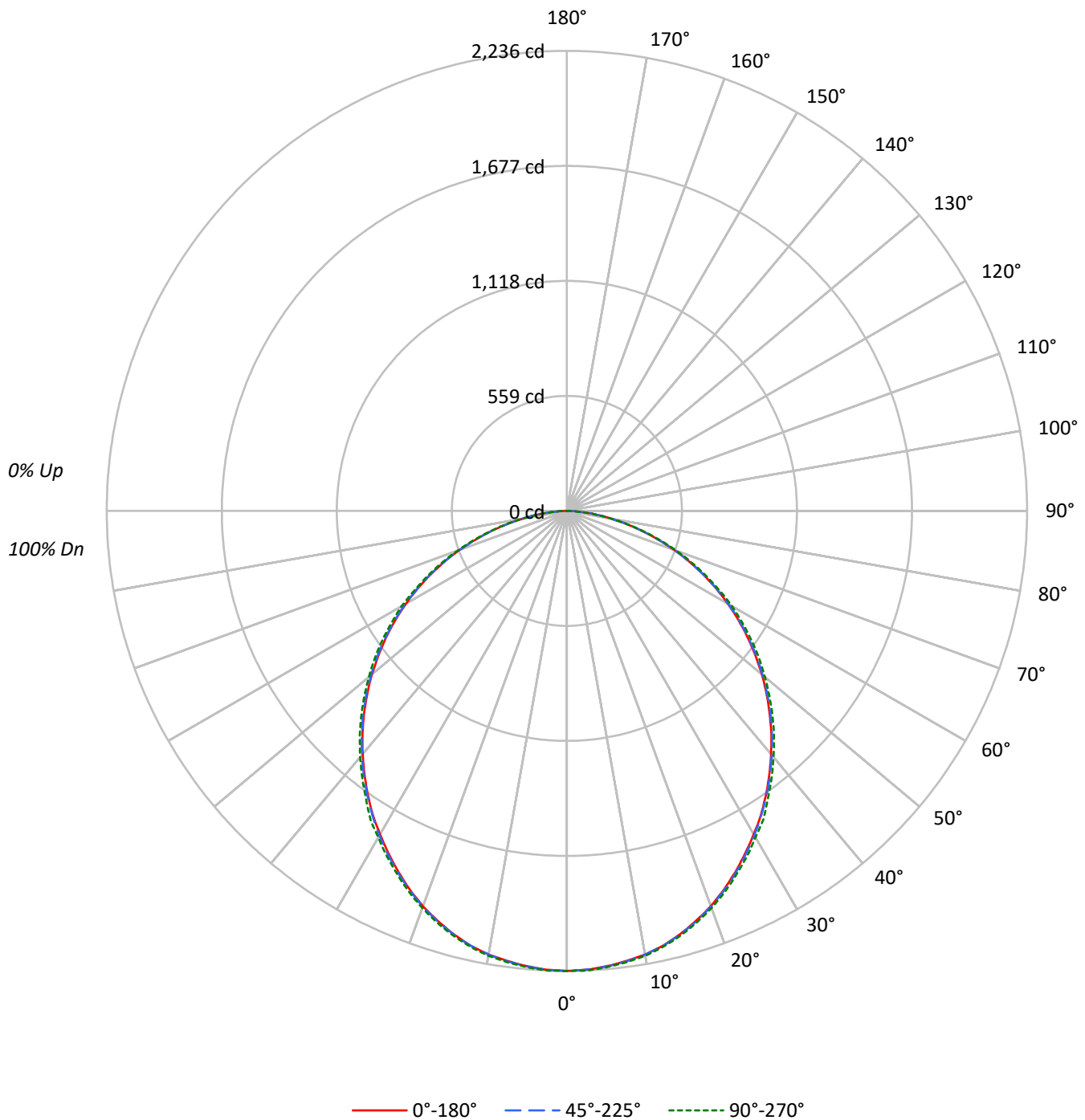
Lumens per Lamp: N/A
Luminaire Lumens: 6041.6 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66
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

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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	100		
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59		
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51		
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44		
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38		
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6017	6017	6017
5°	6001	6006	6014
10°	5982	5983	6001
15°	5932	5936	5953
20°	5855	5862	5883
25°	5749	5763	5789
30°	5642	5660	5695
35°	5538	5552	5596
40°	5422	5440	5488
45°	5303	5326	5380
50°	5174	5197	5258
55°	5028	5051	5134
60°	4860	4881	4990
65°	4648	4663	4751
70°	4364	4367	4462
75°	3965	3952	4042
80°	3408	3394	3451
85°	2643	2603	2615

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.3	3.5
10°-20°	601.0	9.9
20°-30°	894.7	14.8
30°-40°	1058.1	17.5
40°-50°	1080.2	17.9
50°-60°	964.0	16.0
60°-70°	726.1	12.0
70°-80°	404.9	6.7
80°-90°	101.4	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°	1707.0	28.3
0°-40°	2765.1	45.8
0°-60°	4809.2	79.6
0°-90°	6041.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6041.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2236	2236	2236	2236	2236	
5°	2222	2226	2223	2224	2226	211
15°	2129	2132	2131	2133	2137	600
25°	1936	1939	1941	1946	1950	892
35°	1686	1684	1690	1697	1704	1054
45°	1393	1393	1399	1406	1414	1075
55°	1072	1070	1077	1084	1094	958
65°	730	727	732	739	746	722
75°	381	378	380	382	389	404
85°	86	83	84	83	85	103
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2235.9	2235.9	2235.9	2235.9	2235.9
2.5°	2232.2	2235.9	2231.3	2232.2	2236.3
5°	2221.5	2225.7	2223.4	2223.9	2226.2
7.5°	2206.7	2212.3	2209.0	2210.0	2212.3
10°	2189.1	2193.3	2189.6	2191.9	2196.1
12.5°	2164.1	2166.0	2164.1	2165.1	2169.7
15°	2129.4	2131.7	2130.8	2132.7	2136.8
17.5°	2088.7	2091.5	2091.0	2094.7	2097.9
20°	2044.7	2045.2	2047.0	2050.7	2054.4
22.5°	1992.9	1994.2	1996.1	2001.2	2004.9
25°	1936.4	1938.7	1941.0	1946.1	1949.8
27.5°	1876.7	1879.0	1882.2	1887.8	1893.8
30°	1815.6	1815.6	1821.6	1827.1	1832.7
32.5°	1754.0	1751.7	1757.2	1764.2	1777.6
35°	1685.9	1684.1	1690.1	1696.6	1703.5
37.5°	1615.1	1613.7	1620.7	1627.6	1634.1
40°	1543.4	1541.5	1548.5	1555.4	1562.3
42.5°	1469.8	1468.8	1475.3	1482.3	1489.7
45°	1393.4	1392.9	1399.4	1406.3	1413.7
47.5°	1315.6	1314.7	1321.2	1328.6	1335.1
50°	1236.0	1235.1	1241.5	1248.9	1255.9
52.5°	1154.1	1154.1	1160.1	1166.5	1177.2
55°	1071.7	1070.3	1076.7	1084.2	1094.3
57.5°	988.3	986.5	992.5	999.9	1009.2
60°	903.1	901.3	906.9	914.3	927.2
62.5°	817.0	814.3	819.8	826.8	834.6
65°	730.0	727.2	732.3	738.8	746.2
67.5°	642.5	639.3	644.4	649.9	656.9
70°	554.6	551.3	555.0	560.6	567.1
72.5°	467.1	463.8	467.1	469.4	477.3
75°	381.4	378.2	380.1	381.9	388.8
77.5°	298.1	294.9	298.6	299.5	303.7
80°	219.9	216.6	219.0	219.4	222.7
82.5°	148.6	145.8	149.1	146.7	149.5
85°	85.6	83.3	84.3	83.3	84.7
87.5°	33.8	31.9	32.4	30.6	30.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)