

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: P835742

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-5STD-30-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835742
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-LD4-5STD-30-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

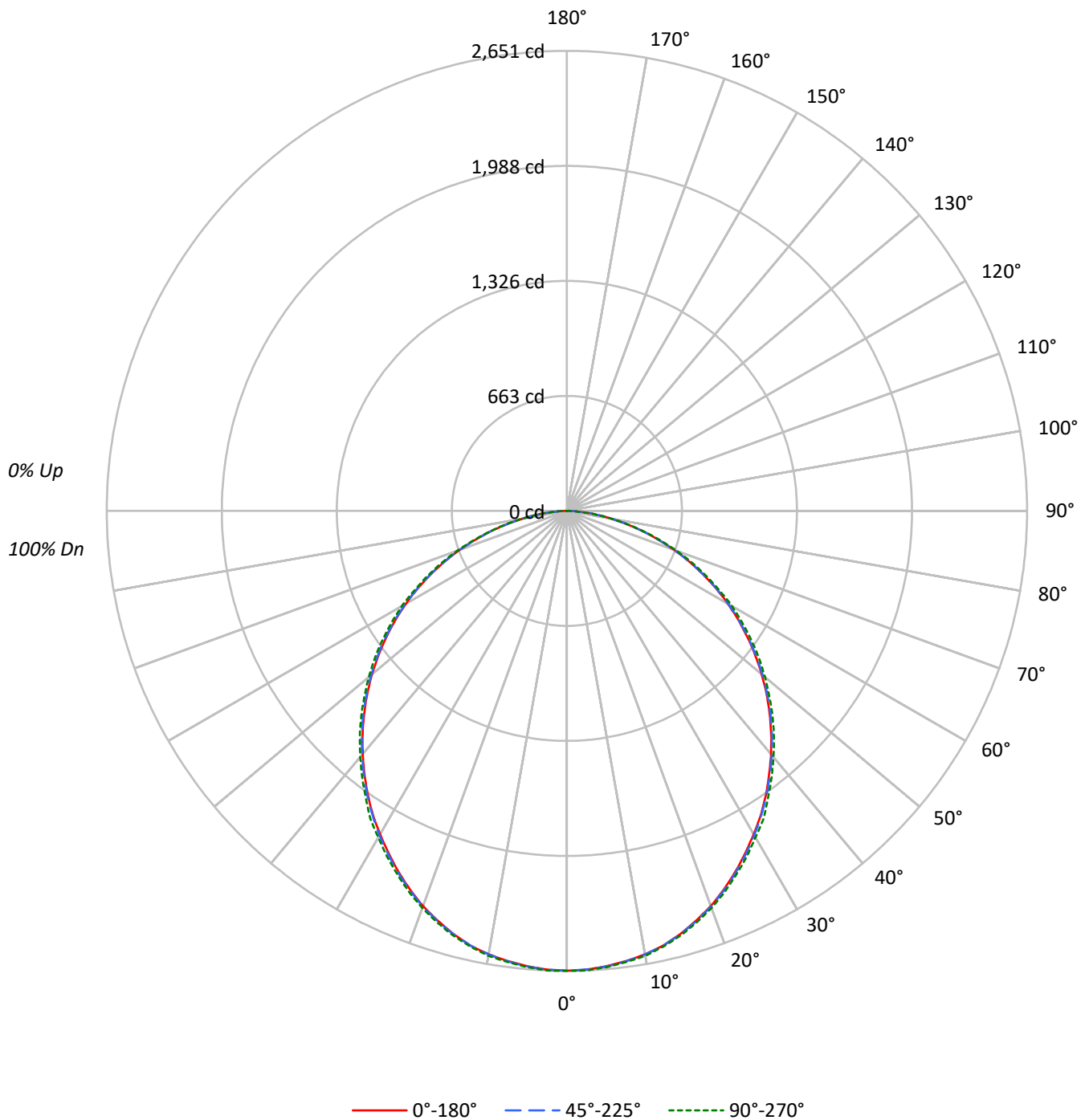
Lumens per Lamp: N/A
Luminaire Lumens: 7160.9 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 83.2
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°	7131	7131	7131
5°	7113	7119	7128
10°	7090	7091	7112
15°	7031	7036	7056
20°	6940	6948	6973
25°	6815	6831	6862
30°	6687	6709	6750
35°	6565	6581	6633
40°	6426	6447	6505
45°	6285	6312	6377
50°	6133	6160	6232
55°	5959	5987	6085
60°	5761	5785	5915
65°	5510	5527	5632
70°	5172	5176	5288
75°	4701	4684	4792
80°	4038	4021	4090
85°	3134	3084	3100

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.4	3.5
10°-20°	712.3	9.9
20°-30°	1060.5	14.8
30°-40°	1254.1	17.5
40°-50°	1280.3	17.9
50°-60°	1142.6	16.0
60°-70°	860.6	12.0
70°-80°	479.9	6.7
80°-90°	120.2	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°	2023.2	28.3
0°-40°	3277.3	45.8
0°-60°	5700.1	79.6
0°-90°	7160.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7160.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2650	2650	2650	2650	2650	
5°	2633	2638	2635	2636	2639	250
15°	2524	2527	2526	2528	2533	711
25°	2295	2298	2301	2307	2311	1057
35°	1998	1996	2003	2011	2019	1250
45°	1652	1651	1659	1667	1676	1274
55°	1270	1268	1276	1285	1297	1135
65°	865	862	868	876	884	856
75°	452	448	450	453	461	479
85°	102	99	100	99	100	122
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2650.1	2650.1	2650.1	2650.1	2650.1
2.5°	2645.7	2650.1	2644.6	2645.7	2650.6
5°	2633.1	2638.0	2635.3	2635.8	2638.6
7.5°	2615.5	2622.1	2618.3	2619.4	2622.1
10°	2594.7	2599.6	2595.2	2598.0	2602.9
12.5°	2565.1	2567.2	2565.1	2566.1	2571.6
15°	2523.9	2526.6	2525.5	2527.7	2532.7
17.5°	2475.6	2478.9	2478.4	2482.7	2486.6
20°	2423.5	2424.0	2426.2	2430.6	2435.0
22.5°	2362.0	2363.7	2365.9	2371.9	2376.3
25°	2295.1	2297.8	2300.6	2306.6	2311.0
27.5°	2224.3	2227.1	2230.9	2237.5	2244.6
30°	2151.9	2151.9	2159.0	2165.6	2172.2
32.5°	2078.9	2076.2	2082.8	2091.0	2106.9
35°	1998.3	1996.1	2003.2	2010.9	2019.1
37.5°	1914.3	1912.7	1920.9	1929.1	1936.8
40°	1829.3	1827.1	1835.3	1843.5	1851.8
42.5°	1742.0	1740.9	1748.6	1756.9	1765.6
45°	1651.5	1651.0	1658.6	1666.9	1675.7
47.5°	1559.3	1558.2	1565.9	1574.7	1582.4
50°	1465.0	1463.9	1471.5	1480.3	1488.6
52.5°	1367.8	1367.8	1375.0	1382.7	1395.3
55°	1270.2	1268.5	1276.2	1285.0	1297.1
57.5°	1171.4	1169.2	1176.4	1185.1	1196.1
60°	1070.5	1068.3	1074.9	1083.6	1099.0
62.5°	968.4	965.1	971.7	979.9	989.3
65°	865.3	862.0	868.0	875.7	884.5
67.5°	761.6	757.7	763.8	770.3	778.6
70°	657.3	653.5	657.9	664.4	672.1
72.5°	553.6	549.8	553.6	556.4	565.7
75°	452.1	448.3	450.5	452.7	460.9
77.5°	353.3	349.5	353.9	355.0	359.9
80°	260.6	256.8	259.5	260.1	263.9
82.5°	176.1	172.8	176.7	173.9	177.2
85°	101.5	98.8	99.9	98.8	100.4
87.5°	40.1	37.9	38.4	36.2	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)