

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: P835740

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-4HI-30-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835740
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-LD4-4HI-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

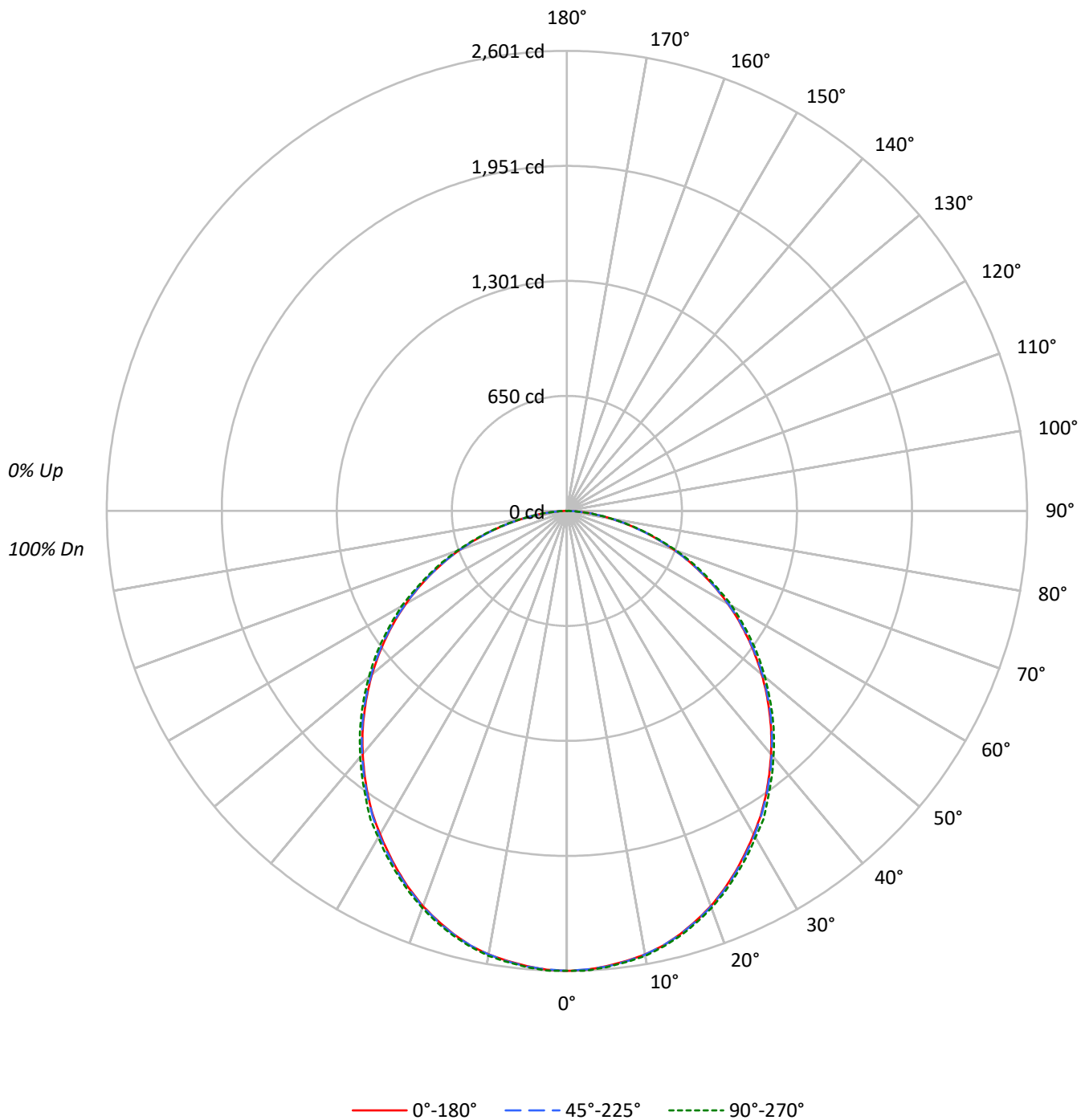
Lumens per Lamp: N/A
Luminaire Lumens: 7026.6 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 88
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	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6998	6998	6998
5°	6979	6985	6994
10°	6957	6959	6979
15°	6900	6904	6924
20°	6810	6818	6842
25°	6687	6703	6733
30°	6561	6583	6623
35°	6441	6457	6509
40°	6306	6326	6383
45°	6167	6194	6257
50°	6018	6045	6115
55°	5848	5875	5971
60°	5653	5676	5804
65°	5406	5423	5526
70°	5075	5079	5189
75°	4612	4596	4702
80°	3963	3947	4014
85°	3075	3026	3041

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.7	3.5
10°-20°	699.0	9.9
20°-30°	1040.6	14.8
30°-40°	1230.6	17.5
40°-50°	1256.3	17.9
50°-60°	1121.1	16.0
60°-70°	844.4	12.0
70°-80°	470.9	6.7
80°-90°	118.0	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°	1985.3	28.3
0°-40°	3215.9	45.8
0°-60°	5593.3	79.6
0°-90°	7026.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7026.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2600	2600	2600	2600	2600	
5°	2584	2589	2586	2586	2589	245
15°	2477	2479	2478	2480	2485	698
25°	2252	2255	2258	2263	2268	1038
35°	1961	1959	1966	1973	1981	1226
45°	1621	1620	1628	1636	1644	1250
55°	1246	1245	1252	1261	1273	1114
65°	849	846	852	859	868	840
75°	444	440	442	444	452	470
85°	100	97	98	97	98	120
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2600.4	2600.4	2600.4	2600.4	2600.4
2.5°	2596.1	2600.4	2595.0	2596.1	2601.0
5°	2583.7	2588.6	2585.9	2586.4	2589.1
7.5°	2566.5	2573.0	2569.2	2570.3	2573.0
10°	2546.0	2550.9	2546.6	2549.3	2554.1
12.5°	2517.0	2519.1	2517.0	2518.0	2523.4
15°	2476.6	2479.3	2478.2	2480.4	2485.2
17.5°	2429.2	2432.4	2431.9	2436.2	2440.0
20°	2378.1	2378.6	2380.8	2385.1	2389.4
22.5°	2317.8	2319.4	2321.5	2327.5	2331.8
25°	2252.1	2254.8	2257.5	2263.4	2267.7
27.5°	2182.6	2185.3	2189.1	2195.6	2202.6
30°	2111.6	2111.6	2118.6	2125.0	2131.5
32.5°	2040.0	2037.3	2043.7	2051.8	2067.4
35°	1960.8	1958.7	1965.7	1973.2	1981.3
37.5°	1878.4	1876.8	1884.9	1893.0	1900.5
40°	1795.0	1792.8	1800.9	1809.0	1817.1
42.5°	1709.4	1708.3	1715.8	1723.9	1732.5
45°	1620.6	1620.0	1627.6	1635.6	1644.2
47.5°	1530.1	1529.0	1536.6	1545.2	1552.7
50°	1437.5	1436.4	1444.0	1452.6	1460.7
52.5°	1342.2	1342.2	1349.2	1356.7	1369.1
55°	1246.4	1244.8	1252.3	1260.9	1272.8
57.5°	1149.5	1147.3	1154.3	1162.9	1173.7
60°	1050.4	1048.2	1054.7	1063.3	1078.4
62.5°	950.3	947.0	953.5	961.6	970.7
65°	849.0	845.8	851.7	859.3	867.9
67.5°	747.3	743.5	749.4	755.9	764.0
70°	645.0	641.2	645.5	652.0	659.5
72.5°	543.2	539.5	543.2	545.9	555.1
75°	443.6	439.9	442.0	444.2	452.2
77.5°	346.7	343.0	347.3	348.3	353.2
80°	255.7	252.0	254.7	255.2	259.0
82.5°	172.8	169.6	173.4	170.7	173.9
85°	99.6	96.9	98.0	96.9	98.5
87.5°	39.3	37.1	37.7	35.5	35.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)