

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: P834458

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-3STD-20-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834458
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-OPL-LD4-3STD-20-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

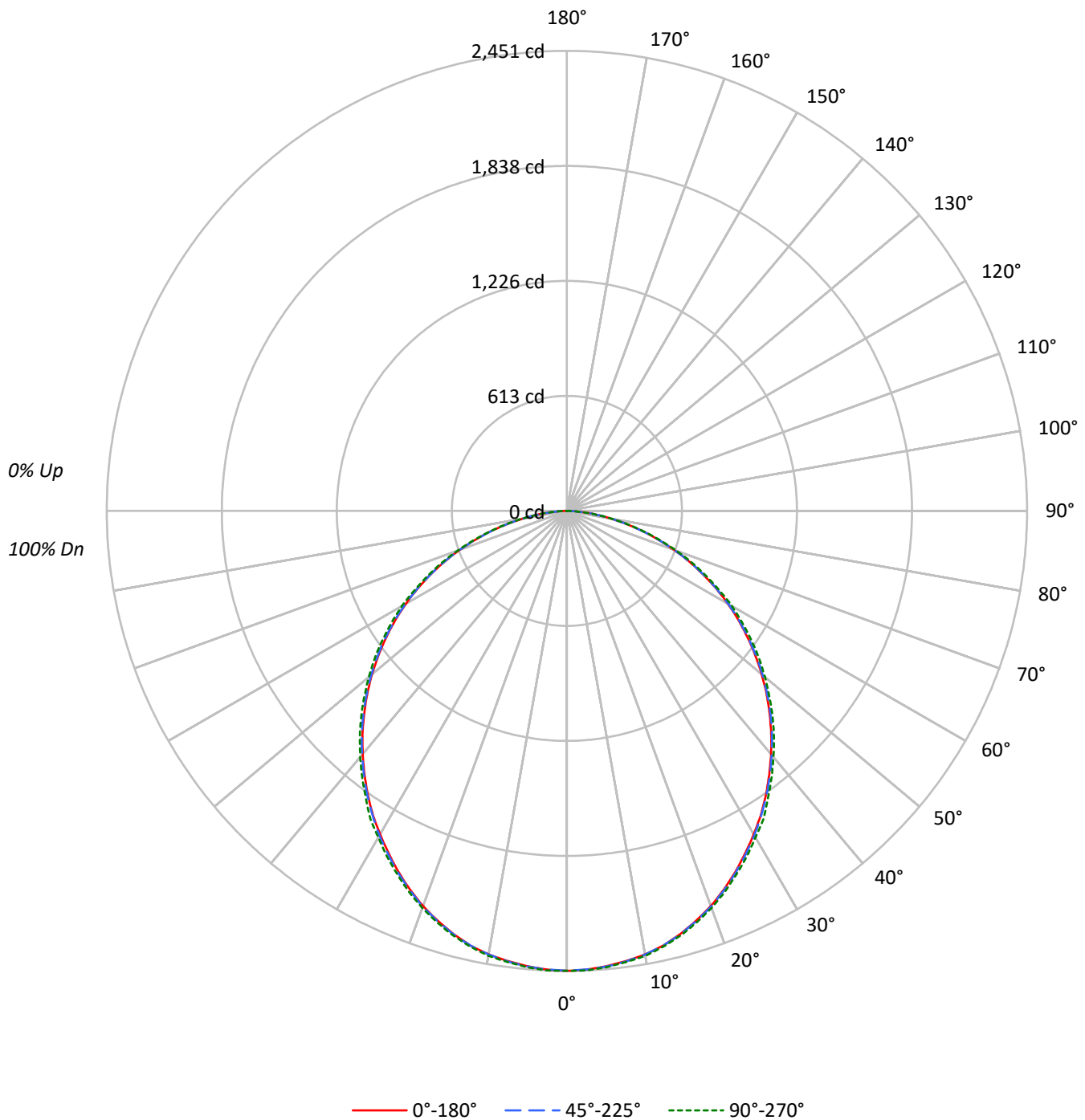
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6621.0 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	6594	6594	6594
5°	6576	6582	6590
10°	6556	6557	6576
15°	6501	6505	6524
20°	6417	6424	6447
25°	6301	6316	6345
30°	6183	6203	6241
35°	6070	6085	6133
40°	5942	5961	6015
45°	5811	5836	5896
50°	5671	5696	5762
55°	5510	5536	5627
60°	5327	5349	5469
65°	5094	5110	5207
70°	4782	4786	4890
75°	4346	4330	4430
80°	3735	3719	3781
85°	2899	2850	2865

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.5	3.5
10°-20°	658.6	9.9
20°-30°	980.5	14.8
30°-40°	1159.6	17.5
40°-50°	1183.7	17.9
50°-60°	1056.4	16.0
60°-70°	795.7	12.0
70°-80°	443.7	6.7
80°-90°	111.2	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°	1870.7	28.3
0°-40°	3030.2	45.8
0°-60°	5270.4	79.6
0°-90°	6621.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6621.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2450	2450	2450	2450	2450	
5°	2435	2439	2437	2437	2440	231
15°	2334	2336	2335	2337	2342	658
25°	2122	2125	2127	2133	2137	978
35°	1848	1846	1852	1859	1867	1155
45°	1527	1526	1534	1541	1549	1178
55°	1174	1173	1180	1188	1199	1050
65°	800	797	803	810	818	791
75°	418	414	416	418	426	443
85°	94	91	92	91	93	113
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2450.3	2450.3	2450.3	2450.3	2450.3
2.5°	2446.2	2450.3	2445.2	2446.2	2450.8
5°	2434.6	2439.1	2436.6	2437.1	2439.6
7.5°	2418.3	2424.4	2420.9	2421.9	2424.4
10°	2399.1	2403.6	2399.6	2402.1	2406.7
12.5°	2371.7	2373.7	2371.7	2372.7	2377.8
15°	2333.6	2336.2	2335.1	2337.2	2341.7
17.5°	2289.0	2292.0	2291.5	2295.6	2299.1
20°	2240.8	2241.3	2243.3	2247.4	2251.4
22.5°	2184.0	2185.5	2187.5	2193.1	2197.2
25°	2122.1	2124.6	2127.1	2132.7	2136.8
27.5°	2056.6	2059.2	2062.7	2068.8	2075.4
30°	1989.7	1989.7	1996.3	2002.3	2008.4
32.5°	1922.2	1919.7	1925.7	1933.4	1948.1
35°	1847.6	1845.6	1852.2	1859.3	1866.9
37.5°	1770.0	1768.5	1776.1	1783.7	1790.8
40°	1691.4	1689.3	1696.9	1704.6	1712.2
42.5°	1610.7	1609.7	1616.8	1624.4	1632.5
45°	1527.0	1526.5	1533.6	1541.2	1549.3
47.5°	1441.8	1440.8	1447.9	1456.0	1463.1
50°	1354.5	1353.5	1360.6	1368.7	1376.3
52.5°	1264.7	1264.7	1271.3	1278.4	1290.1
55°	1174.4	1172.9	1180.0	1188.1	1199.3
57.5°	1083.1	1081.1	1087.7	1095.8	1105.9
60°	989.8	987.7	993.8	1001.9	1016.1
62.5°	895.4	892.4	898.4	906.1	914.7
65°	800.0	797.0	802.6	809.7	817.8
67.5°	704.1	700.6	706.2	712.3	719.9
70°	607.8	604.2	608.3	614.4	621.5
72.5°	511.9	508.3	511.9	514.4	523.0
75°	418.0	414.5	416.5	418.5	426.1
77.5°	326.7	323.2	327.2	328.2	332.8
80°	241.0	237.4	240.0	240.5	244.0
82.5°	162.8	159.8	163.4	160.8	163.9
85°	93.9	91.3	92.3	91.3	92.8
87.5°	37.0	35.0	35.5	33.5	33.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)