

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: P835121

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-2STD-40-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835121
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-OPL-LD4-2STD-40-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

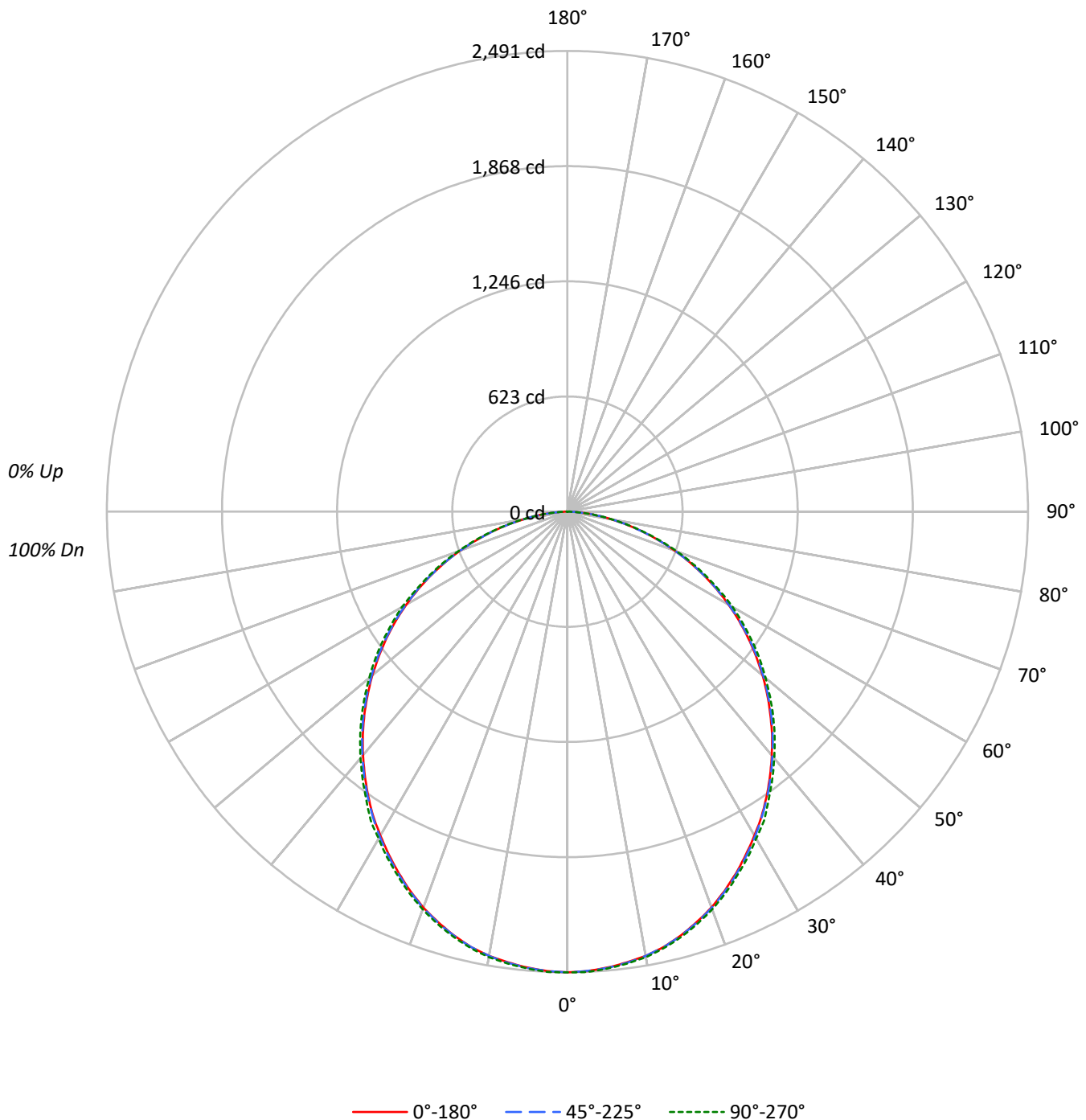
Lumens per Lamp: N/A
Luminaire Lumens: 6730.5 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		90
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51
7	65	52	43	37	64	51	43	37	49	42	36		48	41	36		47
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		40
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3351	3351	3351
5°	3343	3345	3350
10°	3332	3333	3343
15°	3304	3307	3316
20°	3262	3265	3277
25°	3203	3210	3225
30°	3142	3153	3172
35°	3085	3093	3117
40°	3020	3030	3057
45°	2954	2966	2997
50°	2882	2895	2929
55°	2801	2814	2860
60°	2707	2719	2780
65°	2589	2597	2647
70°	2430	2432	2485
75°	2209	2201	2252
80°	1898	1890	1922
85°	1473	1450	1457

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.4	3.5
10°-20°	669.5	9.9
20°-30°	996.7	14.8
30°-40°	1178.7	17.5
40°-50°	1203.3	17.9
50°-60°	1073.9	16.0
60°-70°	808.9	12.0
70°-80°	451.1	6.7
80°-90°	113.0	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°	1901.7	28.3
0°-40°	3080.4	45.8
0°-60°	5357.6	79.6
0°-90°	6730.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6730.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2491	2491	2491	2491	2491	
5°	2475	2480	2477	2477	2480	235
15°	2372	2375	2374	2376	2380	669
25°	2157	2160	2162	2168	2172	994
35°	1878	1876	1883	1890	1898	1175
45°	1552	1552	1559	1567	1575	1197
55°	1194	1192	1200	1208	1219	1067
65°	813	810	816	823	831	804
75°	425	421	423	426	433	450
85°	95	93	94	93	94	115
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2490.9	2490.9	2490.9	2490.9	2490.9
2.5°	2486.7	2490.9	2485.7	2486.7	2491.4
5°	2474.9	2479.5	2476.9	2477.4	2480.0
7.5°	2458.4	2464.6	2460.9	2462.0	2464.6
10°	2438.8	2443.4	2439.3	2441.9	2446.5
12.5°	2410.9	2413.0	2410.9	2411.9	2417.1
15°	2372.2	2374.8	2373.8	2375.9	2380.5
17.5°	2326.9	2330.0	2329.4	2333.6	2337.2
20°	2277.9	2278.4	2280.4	2284.6	2288.7
22.5°	2220.1	2221.7	2223.7	2229.4	2233.5
25°	2157.2	2159.8	2162.3	2168.0	2172.1
27.5°	2090.7	2093.2	2096.9	2103.0	2109.7
30°	2022.6	2022.6	2029.3	2035.5	2041.7
32.5°	1954.0	1951.4	1957.6	1965.3	1980.3
35°	1878.2	1876.1	1882.8	1890.1	1897.8
37.5°	1799.3	1797.7	1805.5	1813.2	1820.4
40°	1719.4	1717.3	1725.0	1732.8	1740.5
42.5°	1637.4	1636.3	1643.5	1651.3	1659.5
45°	1552.3	1551.8	1559.0	1566.7	1575.0
47.5°	1465.6	1464.6	1471.8	1480.1	1487.3
50°	1376.9	1375.9	1383.1	1391.4	1399.1
52.5°	1285.7	1285.7	1292.4	1299.6	1311.4
55°	1193.9	1192.3	1199.5	1207.8	1219.1
57.5°	1101.0	1099.0	1105.7	1113.9	1124.2
60°	1006.1	1004.1	1010.3	1018.5	1033.0
62.5°	910.2	907.1	913.3	921.0	929.8
65°	813.3	810.2	815.8	823.1	831.3
67.5°	715.8	712.2	717.9	724.0	731.8
70°	617.8	614.2	618.3	624.5	631.7
72.5°	520.3	516.7	520.3	522.9	531.7
75°	424.9	421.3	423.4	425.5	433.2
77.5°	332.1	328.5	332.6	333.7	338.3
80°	245.0	241.3	243.9	244.4	248.1
82.5°	165.5	162.4	166.1	163.5	166.6
85°	95.4	92.8	93.9	92.8	94.4
87.5°	37.6	35.6	36.1	34.0	34.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)