

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: P835636

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-6LO-30-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835636
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-LD4-6LO-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

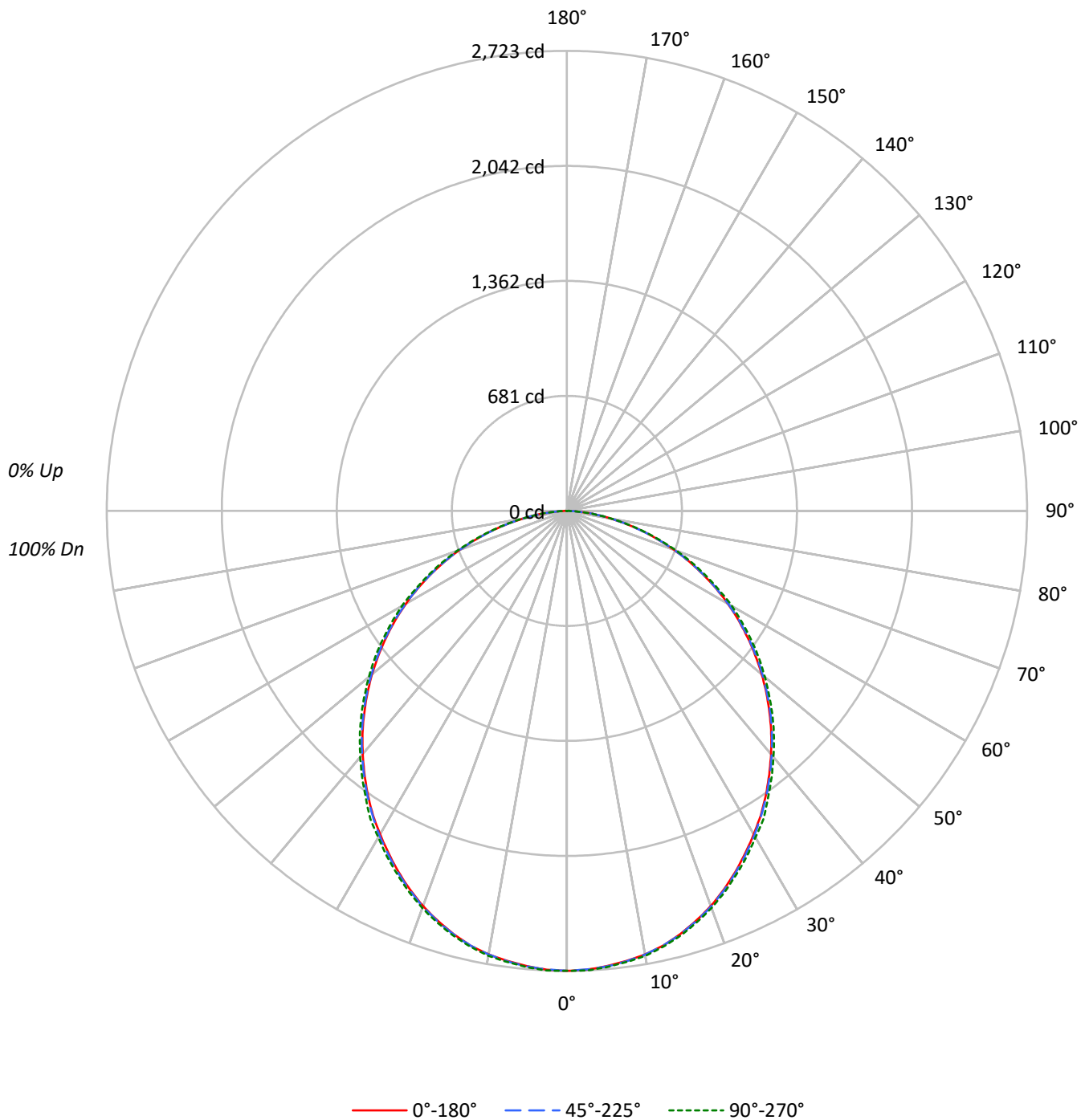
Lumens per Lamp: N/A
Luminaire Lumens: 7356.0 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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

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°	7326	7326	7326
5°	7306	7313	7322
10°	7283	7285	7306
15°	7223	7228	7248
20°	7129	7137	7163
25°	7000	7017	7049
30°	6869	6892	6934
35°	6743	6760	6814
40°	6601	6623	6682
45°	6456	6484	6551
50°	6300	6328	6401
55°	6122	6151	6251
60°	5918	5942	6076
65°	5659	5678	5785
70°	5312	5317	5432
75°	4828	4811	4922
80°	4148	4131	4201
85°	3220	3168	3183

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.2	3.5
10°-20°	731.8	9.9
20°-30°	1089.4	14.8
30°-40°	1288.3	17.5
40°-50°	1315.1	17.9
50°-60°	1173.7	16.0
60°-70°	884.0	12.0
70°-80°	493.0	6.7
80°-90°	123.5	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°	2078.4	28.3
0°-40°	3366.6	45.8
0°-60°	5855.4	79.6
0°-90°	7356.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7356.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2722	2722	2722	2722	2722	
5°	2705	2710	2707	2708	2710	257
15°	2593	2596	2594	2597	2602	731
25°	2358	2360	2363	2370	2374	1086
35°	2053	2050	2058	2066	2074	1284
45°	1696	1696	1704	1712	1721	1309
55°	1305	1303	1311	1320	1332	1166
65°	889	886	892	900	909	879
75°	464	460	463	465	473	492
85°	104	102	103	102	103	125
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2722.3	2722.3	2722.3	2722.3	2722.3
2.5°	2717.8	2722.3	2716.7	2717.8	2722.9
5°	2704.8	2709.9	2707.1	2707.6	2710.5
7.5°	2686.8	2693.6	2689.6	2690.7	2693.6
10°	2665.4	2670.4	2665.9	2668.8	2673.8
12.5°	2634.9	2637.2	2634.9	2636.1	2641.7
15°	2592.7	2595.5	2594.4	2596.6	2601.7
17.5°	2543.1	2546.4	2545.9	2550.4	2554.3
20°	2489.5	2490.1	2492.3	2496.8	2501.4
22.5°	2426.4	2428.1	2430.3	2436.5	2441.1
25°	2357.6	2360.5	2363.3	2369.5	2374.0
27.5°	2284.9	2287.7	2291.7	2298.5	2305.8
30°	2210.5	2210.5	2217.9	2224.6	2231.4
32.5°	2135.6	2132.7	2139.5	2148.0	2164.3
35°	2052.7	2050.5	2057.8	2065.7	2074.1
37.5°	1966.5	1964.8	1973.2	1981.7	1989.6
40°	1879.1	1876.9	1885.3	1893.8	1902.2
42.5°	1789.5	1788.4	1796.3	1804.7	1813.7
45°	1696.5	1695.9	1703.8	1712.3	1721.3
47.5°	1601.8	1600.7	1608.6	1617.6	1625.5
50°	1504.9	1503.7	1511.6	1520.7	1529.1
52.5°	1405.1	1405.1	1412.4	1420.3	1433.3
55°	1304.8	1303.1	1311.0	1320.0	1332.4
57.5°	1203.3	1201.1	1208.4	1217.4	1228.7
60°	1099.6	1097.4	1104.1	1113.2	1128.9
62.5°	994.8	991.4	998.2	1006.6	1016.2
65°	888.8	885.5	891.7	899.5	908.6
67.5°	782.3	778.4	784.6	791.3	799.8
70°	675.2	671.3	675.8	682.5	690.4
72.5°	568.7	564.8	568.7	571.5	581.1
75°	464.4	460.5	462.7	465.0	473.4
77.5°	363.0	359.0	363.5	364.7	369.7
80°	267.7	263.8	266.6	267.2	271.1
82.5°	180.9	177.5	181.5	178.7	182.1
85°	104.3	101.5	102.6	101.5	103.1
87.5°	41.1	38.9	39.5	37.2	37.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)