

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: P835778

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-5STD-40-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835778
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-40-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

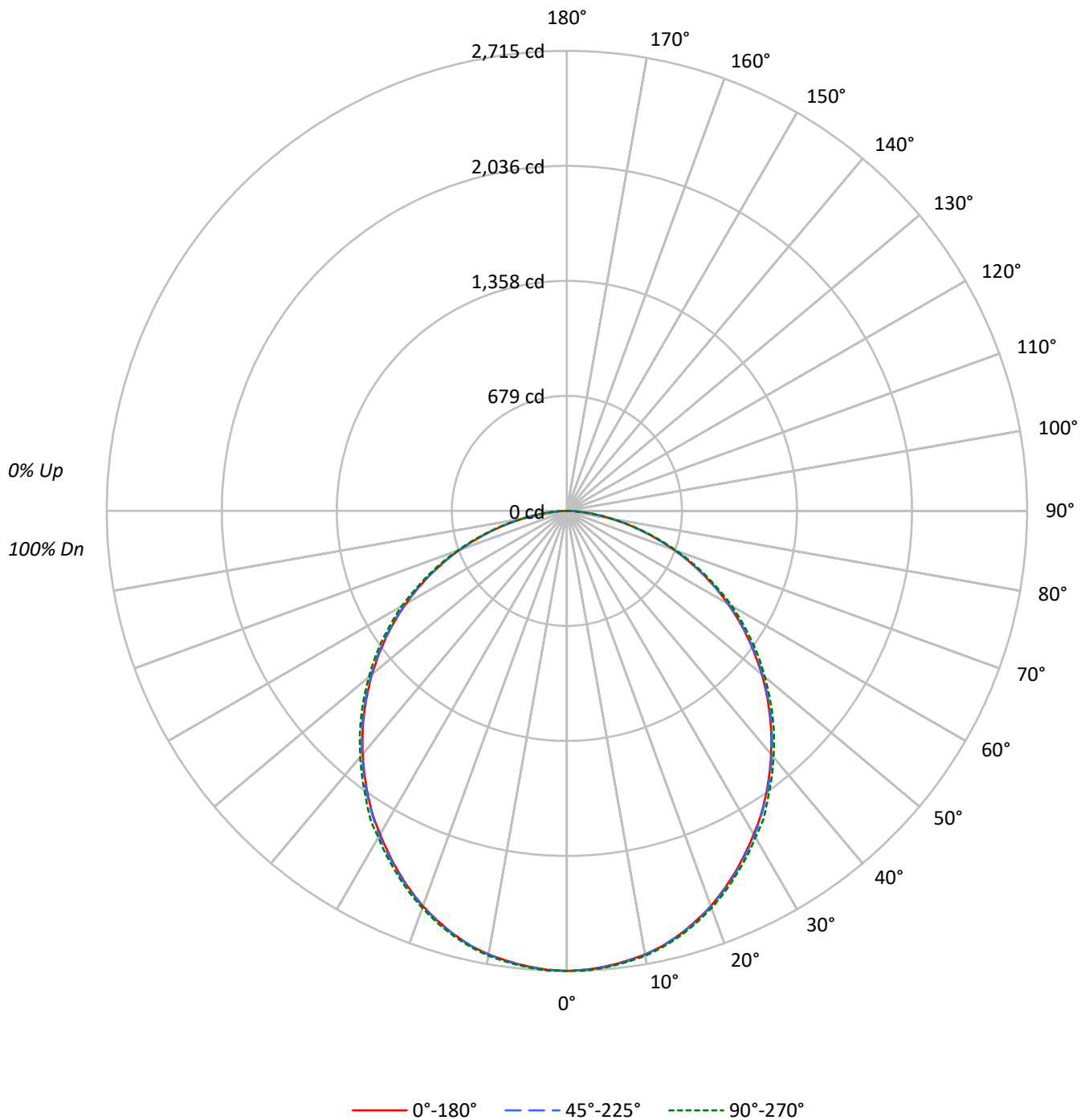
Lumens per Lamp: N/A
Luminaire Lumens: 7335.5 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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°	7305	7305	7305
5°	7286	7292	7301
10°	7263	7264	7286
15°	7203	7207	7228
20°	7109	7117	7143
25°	6981	6997	7029
30°	6850	6872	6914
35°	6725	6741	6795
40°	6583	6604	6663
45°	6438	6466	6532
50°	6283	6311	6384
55°	6105	6133	6234
60°	5902	5926	6059
65°	5644	5662	5769
70°	5297	5302	5417
75°	4815	4797	4908
80°	4138	4121	4189
85°	3211	3159	3177

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.5	3.5
10°-20°	729.7	9.9
20°-30°	1086.3	14.8
30°-40°	1284.7	17.5
40°-50°	1311.5	17.9
50°-60°	1170.4	16.0
60°-70°	881.6	12.0
70°-80°	491.6	6.7
80°-90°	123.2	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°	2072.6	28.3
0°-40°	3357.3	45.8
0°-60°	5839.2	79.6
0°-90°	7335.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7335.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2715	2715	2715	2715	2715	
5°	2697	2702	2700	2700	2703	256
15°	2586	2588	2587	2589	2594	729
25°	2351	2354	2357	2363	2367	1083
35°	2047	2045	2052	2060	2068	1280
45°	1692	1691	1699	1708	1716	1305
55°	1301	1300	1307	1316	1329	1163
65°	886	883	889	897	906	877
75°	463	459	461	464	472	491
85°	104	101	102	101	103	125
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2714.7	2714.7	2714.7	2714.7	2714.7
2.5°	2710.2	2714.7	2709.1	2710.2	2715.3
5°	2697.3	2702.4	2699.6	2700.1	2702.9
7.5°	2679.3	2686.1	2682.1	2683.3	2686.1
10°	2658.0	2663.0	2658.5	2661.3	2666.4
12.5°	2627.6	2629.9	2627.6	2628.7	2634.4
15°	2585.5	2588.3	2587.1	2589.4	2594.5
17.5°	2536.0	2539.4	2538.8	2543.3	2547.2
20°	2482.6	2483.2	2485.4	2489.9	2494.4
22.5°	2419.7	2421.3	2423.6	2429.8	2434.3
25°	2351.1	2353.9	2356.7	2362.9	2367.4
27.5°	2278.6	2281.4	2285.3	2292.1	2299.4
30°	2204.4	2204.4	2211.7	2218.4	2225.2
32.5°	2129.6	2126.8	2133.6	2142.0	2158.3
35°	2047.0	2044.8	2052.1	2059.9	2068.4
37.5°	1961.0	1959.3	1967.8	1976.2	1984.1
40°	1873.9	1871.6	1880.1	1888.5	1896.9
42.5°	1784.5	1783.4	1791.3	1799.7	1808.7
45°	1691.8	1691.2	1699.1	1707.5	1716.5
47.5°	1597.4	1596.2	1604.1	1613.1	1621.0
50°	1500.7	1499.6	1507.4	1516.4	1524.9
52.5°	1401.2	1401.2	1408.5	1416.4	1429.3
55°	1301.2	1299.5	1307.3	1316.3	1328.7
57.5°	1200.0	1197.7	1205.0	1214.0	1225.3
60°	1096.6	1094.3	1101.1	1110.1	1125.8
62.5°	992.0	988.7	995.4	1003.8	1013.4
65°	886.4	883.0	889.2	897.0	906.0
67.5°	780.1	776.2	782.4	789.1	797.6
70°	673.3	669.4	673.9	680.7	688.5
72.5°	567.1	563.2	567.1	569.9	579.5
75°	463.1	459.2	461.4	463.7	472.1
77.5°	362.0	358.0	362.5	363.7	368.7
80°	267.0	263.0	265.9	266.4	270.3
82.5°	180.4	177.0	181.0	178.2	181.5
85°	104.0	101.2	102.3	101.2	102.9
87.5°	41.0	38.8	39.3	37.1	37.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)