

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: P835602

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-6HI-20-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835602
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-LD4-6HI-20-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

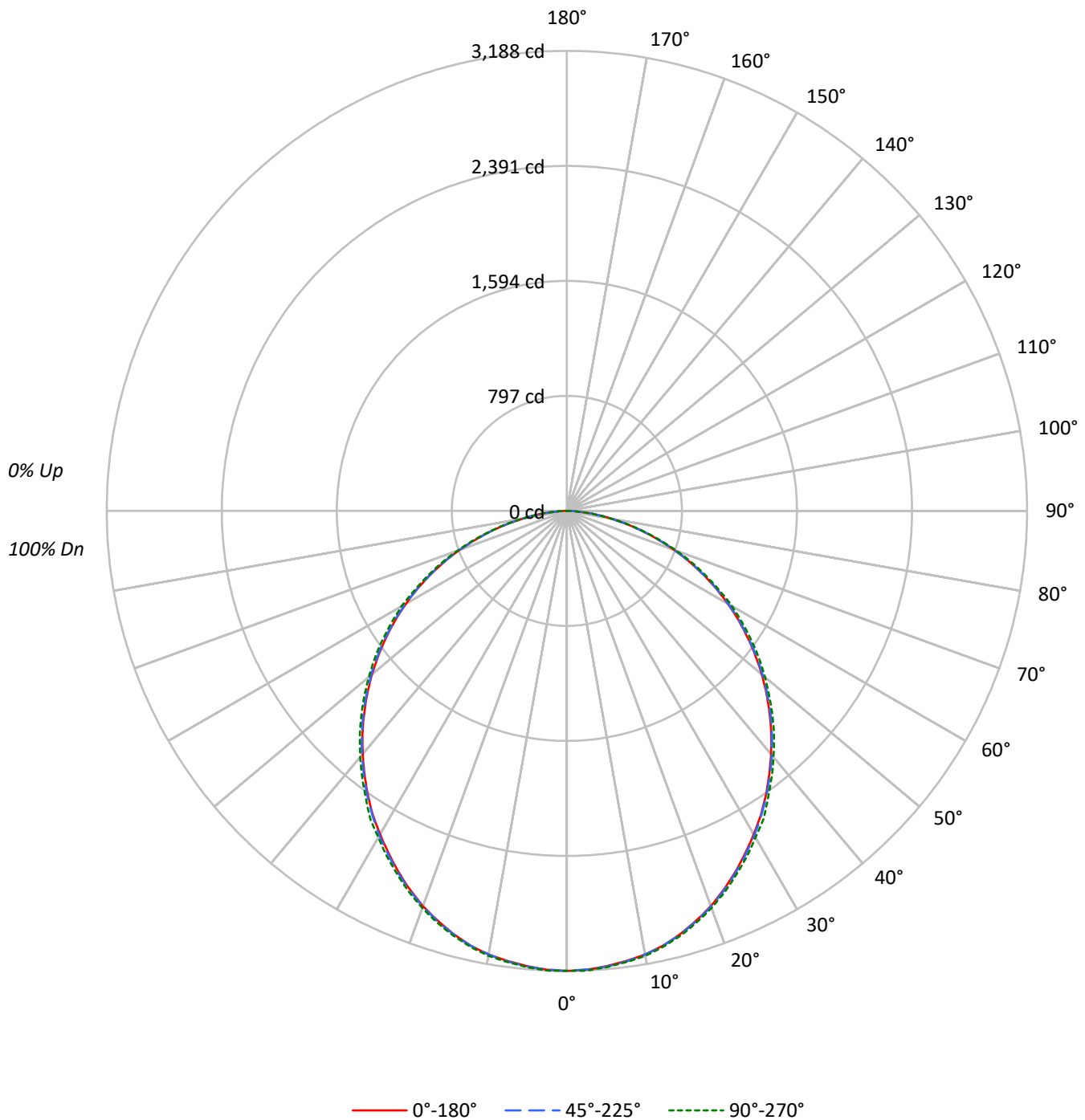
Lumens per Lamp: N/A
Luminaire Lumens: 8612.5 lumens
Efficiency: N/A
Efficacy: 65.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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°	8577	8577	8577
5°	8555	8562	8572
10°	8527	8529	8554
15°	8457	8462	8486
20°	8347	8357	8387
25°	8196	8216	8253
30°	8042	8069	8118
35°	7895	7915	7977
40°	7729	7754	7824
45°	7559	7592	7669
50°	7376	7410	7495
55°	7167	7201	7319
60°	6929	6957	7114
65°	6627	6648	6774
70°	6220	6225	6360
75°	5654	5633	5763
80°	4858	4837	4919
85°	3770	3708	3730

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.2	3.5
10°-20°	856.7	9.9
20°-30°	1275.4	14.8
30°-40°	1508.3	17.5
40°-50°	1539.8	17.9
50°-60°	1374.2	16.0
60°-70°	1035.0	12.0
70°-80°	577.2	6.7
80°-90°	144.6	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°	2433.4	28.3
0°-40°	3941.7	45.8
0°-60°	6855.7	79.6
0°-90°	8612.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8612.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3187	3187	3187	3187	3187	
5°	3167	3173	3170	3170	3174	301
15°	3036	3039	3038	3040	3046	856
25°	2760	2764	2767	2774	2780	1272
35°	2403	2401	2409	2418	2428	1503
45°	1986	1986	1995	2005	2015	1532
55°	1528	1526	1535	1546	1560	1366
65°	1041	1037	1044	1053	1064	1029
75°	544	539	542	544	554	576
85°	122	119	120	119	121	147
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3187.3	3187.3	3187.3	3187.3	3187.3
2.5°	3182.0	3187.3	3180.7	3182.0	3188.0
5°	3166.9	3172.8	3169.5	3170.2	3173.5
7.5°	3145.8	3153.7	3149.1	3150.4	3153.7
10°	3120.7	3126.6	3121.3	3124.6	3130.6
12.5°	3085.0	3087.7	3085.0	3086.4	3093.0
15°	3035.5	3038.8	3037.5	3040.2	3046.1
17.5°	2977.5	2981.4	2980.8	2986.1	2990.7
20°	2914.8	2915.4	2918.1	2923.4	2928.6
22.5°	2840.9	2842.9	2845.5	2852.8	2858.0
25°	2760.4	2763.7	2767.0	2774.2	2779.5
27.5°	2675.2	2678.5	2683.2	2691.1	2699.7
30°	2588.1	2588.1	2596.7	2604.6	2612.6
32.5°	2500.4	2497.1	2505.0	2514.9	2534.0
35°	2403.4	2400.7	2409.3	2418.5	2428.4
37.5°	2302.4	2300.4	2310.3	2320.2	2329.5
40°	2200.1	2197.5	2207.4	2217.3	2227.2
42.5°	2095.2	2093.9	2103.1	2113.0	2123.6
45°	1986.3	1985.6	1994.9	2004.8	2015.3
47.5°	1875.4	1874.1	1883.4	1893.9	1903.2
50°	1761.9	1760.6	1769.9	1780.4	1790.3
52.5°	1645.1	1645.1	1653.7	1663.0	1678.1
55°	1527.7	1525.7	1534.9	1545.5	1560.0
57.5°	1408.9	1406.3	1414.8	1425.4	1438.6
60°	1287.5	1284.8	1292.7	1303.3	1321.8
62.5°	1164.7	1160.8	1168.7	1178.6	1189.8
65°	1040.7	1036.7	1044.0	1053.2	1063.8
67.5°	915.9	911.3	918.6	926.5	936.4
70°	790.6	785.9	791.2	799.1	808.4
72.5°	665.8	661.2	665.8	669.1	680.4
75°	543.8	539.1	541.8	544.4	554.3
77.5°	425.0	420.4	425.6	427.0	432.9
80°	313.5	308.8	312.1	312.8	317.4
82.5°	211.8	207.9	212.5	209.2	213.1
85°	122.1	118.8	120.1	118.8	120.8
87.5°	48.2	45.5	46.2	43.6	43.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)