

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: P835725

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-5HI-27-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835725
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-LD4-5HI-27-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

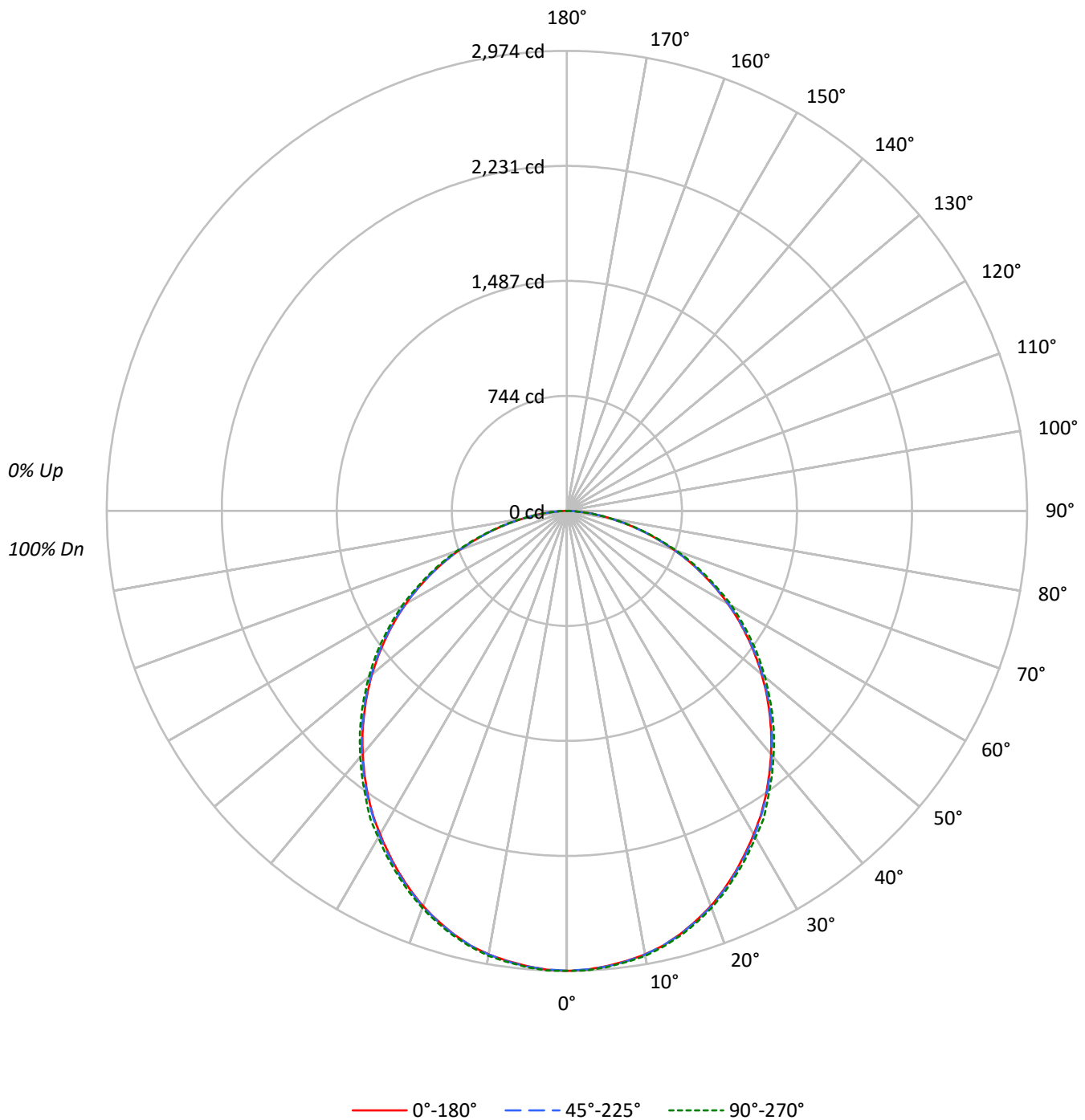
Lumens per Lamp: N/A
Luminaire Lumens: 8033.8 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 110
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°	8001	8001	8001
5°	7980	7986	7996
10°	7954	7956	7979
15°	7889	7894	7916
20°	7786	7795	7823
25°	7645	7663	7698
30°	7502	7526	7572
35°	7365	7383	7442
40°	7209	7233	7298
45°	7051	7081	7154
50°	6880	6911	6991
55°	6685	6717	6827
60°	6464	6490	6636
65°	6181	6201	6318
70°	5802	5807	5933
75°	5273	5255	5376
80°	4531	4513	4589
85°	3517	3458	3477

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.0	3.5
10°-20°	799.2	9.9
20°-30°	1189.7	14.8
30°-40°	1407.0	17.5
40°-50°	1436.3	17.9
50°-60°	1281.8	16.0
60°-70°	965.5	12.0
70°-80°	538.4	6.7
80°-90°	134.9	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°	2269.9	28.3
0°-40°	3676.8	45.8
0°-60°	6395.0	79.6
0°-90°	8033.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8033.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2973	2973	2973	2973	2973	
5°	2954	2960	2956	2957	2960	281
15°	2832	2835	2833	2836	2841	798
25°	2575	2578	2581	2588	2593	1186
35°	2242	2239	2247	2256	2265	1402
45°	1853	1852	1861	1870	1880	1429
55°	1425	1423	1432	1442	1455	1274
65°	971	967	974	982	992	960
75°	507	503	505	508	517	538
85°	114	111	112	111	113	137
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2973.2	2973.2	2973.2	2973.2	2973.2
2.5°	2968.2	2973.2	2967.0	2968.2	2973.8
5°	2954.1	2959.6	2956.5	2957.2	2960.2
7.5°	2934.4	2941.8	2937.5	2938.7	2941.8
10°	2911.0	2916.5	2911.6	2914.7	2920.2
12.5°	2877.7	2880.2	2877.7	2879.0	2885.1
15°	2831.6	2834.7	2833.4	2835.9	2841.4
17.5°	2777.4	2781.1	2780.5	2785.4	2789.7
20°	2718.9	2719.5	2722.0	2726.9	2731.9
22.5°	2650.0	2651.8	2654.3	2661.1	2666.0
25°	2574.9	2578.0	2581.0	2587.8	2592.7
27.5°	2495.5	2498.6	2502.9	2510.3	2518.3
30°	2414.2	2414.2	2422.2	2429.6	2437.0
32.5°	2332.4	2329.3	2336.7	2345.9	2363.8
35°	2241.9	2239.4	2247.4	2256.0	2265.3
37.5°	2147.7	2145.8	2155.1	2164.3	2172.9
40°	2052.3	2049.8	2059.0	2068.3	2077.5
42.5°	1954.4	1953.2	1961.8	1971.0	1980.9
45°	1852.8	1852.2	1860.8	1870.1	1879.9
47.5°	1749.4	1748.2	1756.8	1766.7	1775.3
50°	1643.5	1642.3	1650.9	1660.8	1670.0
52.5°	1534.6	1534.6	1542.6	1551.2	1565.4
55°	1425.0	1423.2	1431.8	1441.6	1455.2
57.5°	1314.2	1311.8	1319.8	1329.6	1341.9
60°	1201.0	1198.5	1205.9	1215.7	1233.0
62.5°	1086.5	1082.8	1090.2	1099.4	1109.9
65°	970.7	967.0	973.8	982.4	992.3
67.5°	854.4	850.1	856.9	864.2	873.5
70°	737.4	733.1	738.1	745.4	754.1
72.5°	621.1	616.8	621.1	624.2	634.6
75°	507.2	502.9	505.4	507.8	517.1
77.5°	396.4	392.1	397.0	398.3	403.8
80°	292.4	288.1	291.2	291.8	296.1
82.5°	197.6	193.9	198.2	195.1	198.8
85°	113.9	110.8	112.0	110.8	112.6
87.5°	44.9	42.5	43.1	40.6	40.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)