

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: P835141

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-3LO-50-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835141
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-LD4-3LO-50-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

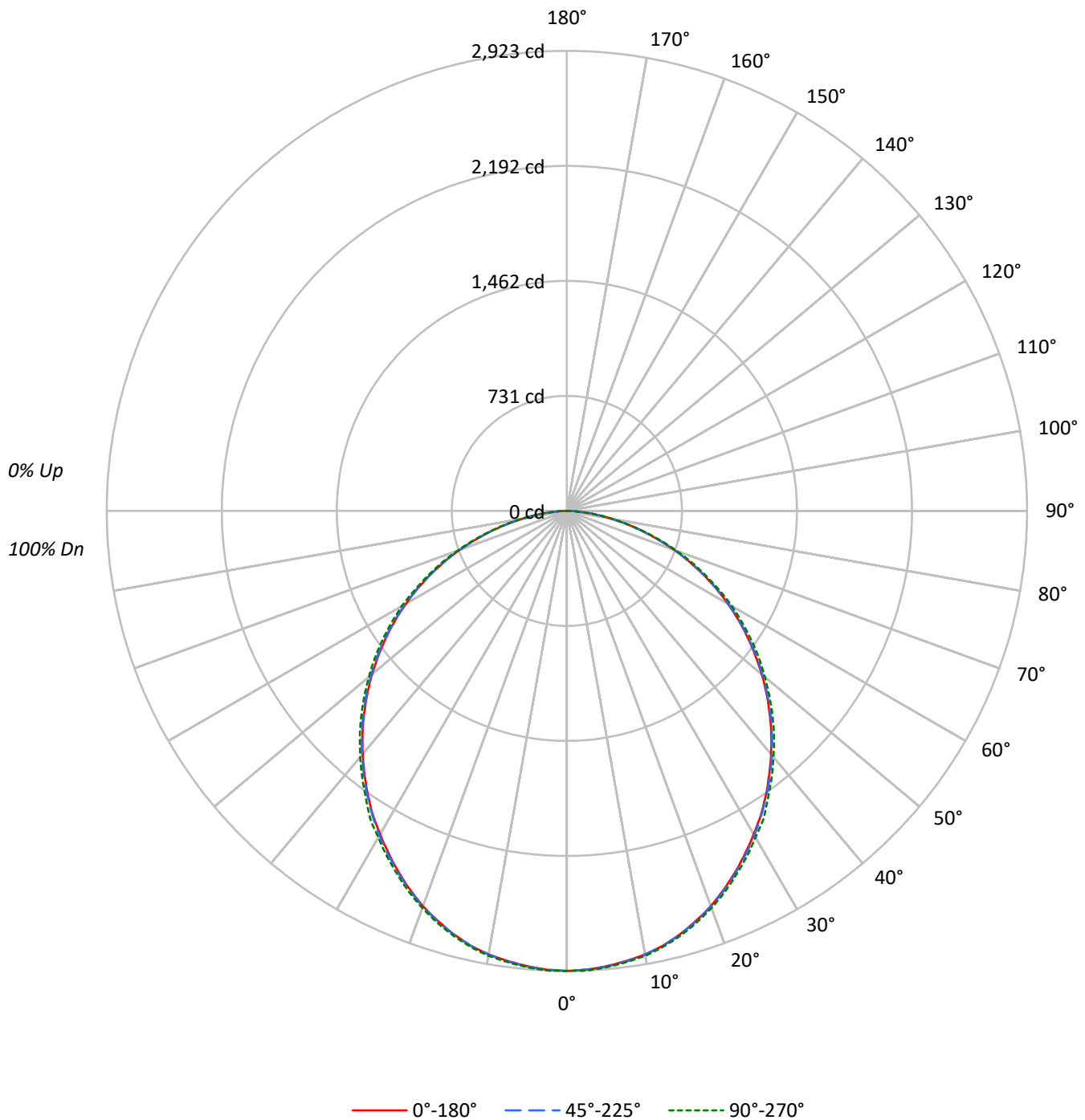
Lumens per Lamp: N/A
Luminaire Lumens: 7897.4 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59		
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51		
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44		
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38		
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3932	3932	3932
5°	3922	3925	3930
10°	3910	3910	3922
15°	3877	3880	3891
20°	3827	3831	3845
25°	3758	3767	3784
30°	3687	3699	3722
35°	3620	3629	3658
40°	3543	3555	3587
45°	3466	3481	3516
50°	3382	3397	3436
55°	3286	3302	3356
60°	3177	3190	3261
65°	3038	3048	3105
70°	2852	2854	2916
75°	2592	2583	2642
80°	2227	2218	2256
85°	1727	1700	1709

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.2	3.5
10°-20°	785.6	9.9
20°-30°	1169.5	14.8
30°-40°	1383.1	17.5
40°-50°	1411.9	17.9
50°-60°	1260.1	16.0
60°-70°	949.1	12.0
70°-80°	529.3	6.7
80°-90°	132.6	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°	2231.3	28.3
0°-40°	3614.4	45.8
0°-60°	6286.4	79.6
0°-90°	7897.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7897.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2923	2923	2923	2923	2923	
5°	2904	2909	2906	2907	2910	276
15°	2784	2786	2785	2788	2793	785
25°	2531	2534	2537	2544	2549	1166
35°	2204	2201	2209	2218	2227	1378
45°	1821	1821	1829	1838	1848	1405
55°	1401	1399	1408	1417	1430	1252
65°	954	951	957	966	975	944
75°	499	494	497	499	508	529
85°	112	109	110	109	111	134
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2922.7	2922.7	2922.7	2922.7	2922.7
2.5°	2917.8	2922.7	2916.6	2917.8	2923.3
5°	2903.9	2909.3	2906.3	2906.9	2910.0
7.5°	2884.5	2891.8	2887.6	2888.8	2891.8
10°	2861.5	2867.0	2862.2	2865.2	2870.6
12.5°	2828.9	2831.3	2828.9	2830.1	2836.1
15°	2783.5	2786.5	2785.3	2787.7	2793.2
17.5°	2730.2	2733.9	2733.3	2738.1	2742.3
20°	2672.8	2673.4	2675.8	2680.6	2685.5
22.5°	2605.0	2606.8	2609.2	2615.9	2620.7
25°	2531.2	2534.2	2537.2	2543.9	2548.7
27.5°	2453.1	2456.1	2460.4	2467.6	2475.5
30°	2373.2	2373.2	2381.1	2388.4	2395.6
32.5°	2292.7	2289.7	2297.0	2306.1	2323.6
35°	2203.8	2201.4	2209.2	2217.7	2226.8
37.5°	2111.2	2109.4	2118.5	2127.6	2136.0
40°	2017.4	2015.0	2024.1	2033.2	2042.2
42.5°	1921.2	1920.0	1928.5	1937.5	1947.2
45°	1821.4	1820.8	1829.2	1838.3	1848.0
47.5°	1719.7	1718.5	1727.0	1736.7	1745.1
50°	1615.6	1614.4	1622.9	1632.6	1641.7
52.5°	1508.5	1508.5	1516.4	1524.9	1538.8
55°	1400.8	1399.0	1407.5	1417.2	1430.5
57.5°	1291.9	1289.5	1297.3	1307.0	1319.1
60°	1180.6	1178.1	1185.4	1195.1	1212.0
62.5°	1068.0	1064.4	1071.6	1080.7	1091.0
65°	954.3	950.6	957.3	965.7	975.4
67.5°	839.9	835.7	842.3	849.6	858.6
70°	724.9	720.7	725.5	732.8	741.3
72.5°	610.6	606.3	610.6	613.6	623.9
75°	498.6	494.4	496.8	499.2	508.3
77.5°	389.7	385.5	390.3	391.5	396.9
80°	287.4	283.2	286.2	286.8	291.1
82.5°	194.2	190.6	194.8	191.8	195.4
85°	111.9	108.9	110.1	108.9	110.7
87.5°	44.2	41.8	42.4	39.9	39.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)