

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: P834429

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-2HI-35-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834429
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-OPL-LD4-2HI-35-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

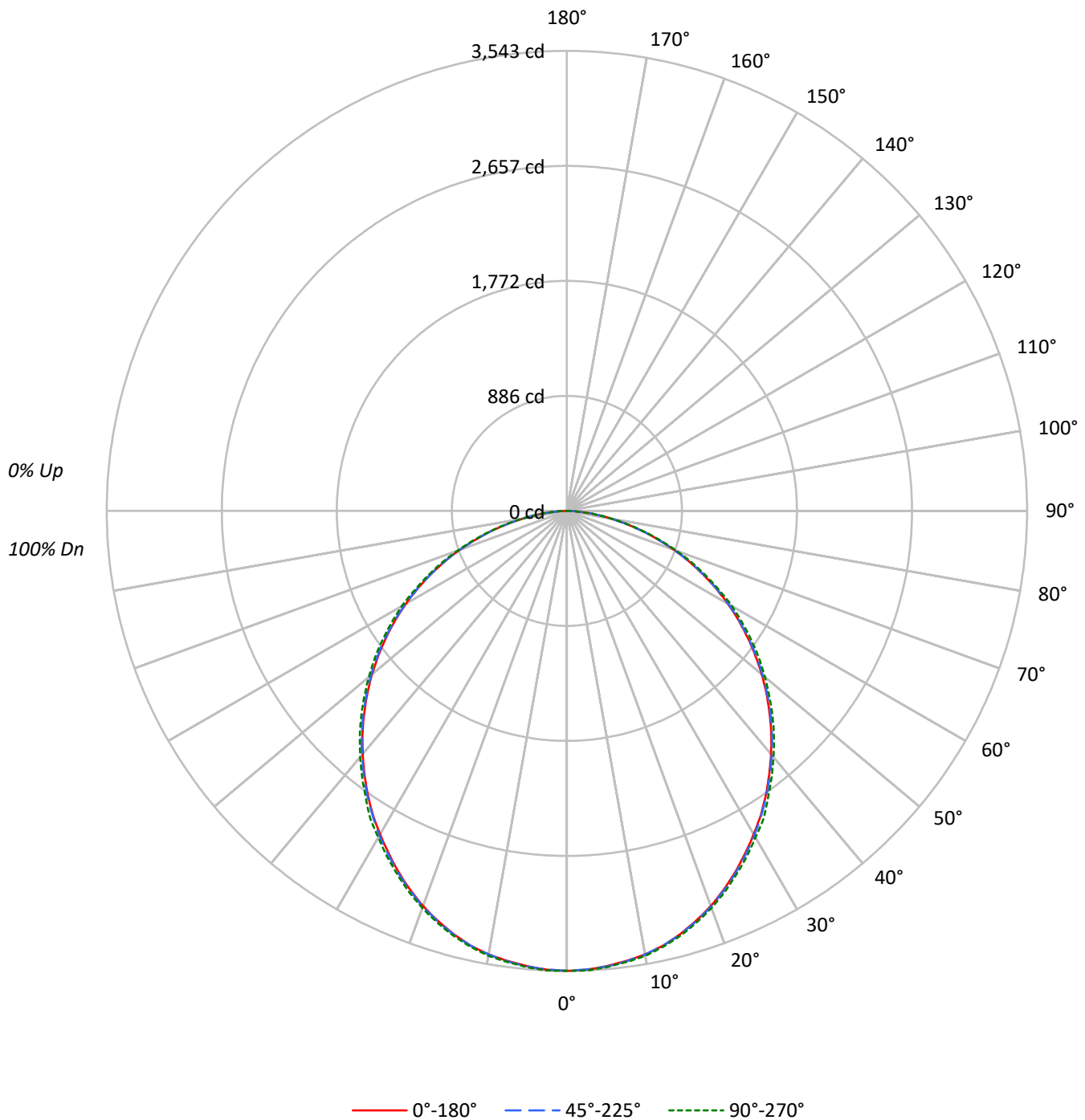
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9571.1 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 88
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°	9532	9532	9532
5°	9507	9515	9527
10°	9476	9478	9506
15°	9398	9404	9431
20°	9276	9287	9320
25°	9108	9130	9171
30°	8937	8967	9021
35°	8774	8796	8865
40°	8589	8617	8695
45°	8401	8437	8523
50°	8197	8234	8329
55°	7965	8003	8133
60°	7701	7732	7906
65°	7364	7387	7528
70°	6913	6918	7069
75°	6283	6260	6405
80°	5398	5376	5466
85°	4190	4122	4143

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.7	3.5
10°-20°	952.1	9.9
20°-30°	1417.4	14.8
30°-40°	1676.2	17.5
40°-50°	1711.2	17.9
50°-60°	1527.1	16.0
60°-70°	1150.2	12.0
70°-80°	641.5	6.7
80°-90°	160.7	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°	2704.2	28.3
0°-40°	4380.4	45.8
0°-60°	7618.7	79.6
0°-90°	9571.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9571.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3542	3542	3542	3542	3542	
5°	3519	3526	3522	3523	3527	334
15°	3373	3377	3376	3379	3385	951
25°	3068	3071	3075	3083	3089	1413
35°	2671	2668	2678	2688	2699	1670
45°	2207	2207	2217	2228	2240	1703
55°	1698	1696	1706	1718	1734	1518
65°	1156	1152	1160	1170	1182	1144
75°	604	599	602	605	616	641
85°	136	132	134	132	134	163
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3542.1	3542.1	3542.1	3542.1	3542.1
2.5°	3536.2	3542.1	3534.8	3536.2	3542.8
5°	3519.4	3526.0	3522.3	3523.0	3526.7
7.5°	3495.9	3504.7	3499.6	3501.0	3504.7
10°	3468.0	3474.6	3468.8	3472.4	3479.0
12.5°	3428.4	3431.4	3428.4	3429.9	3437.2
15°	3373.4	3377.1	3375.6	3378.6	3385.2
17.5°	3308.9	3313.3	3312.6	3318.4	3323.6
20°	3239.2	3239.9	3242.9	3248.8	3254.6
22.5°	3157.1	3159.3	3162.2	3170.3	3176.1
25°	3067.6	3071.3	3074.9	3083.0	3088.9
27.5°	2973.0	2976.7	2981.8	2990.6	3000.1
30°	2876.2	2876.2	2885.7	2894.5	2903.3
32.5°	2778.7	2775.0	2783.8	2794.8	2816.1
35°	2670.9	2667.9	2677.5	2687.7	2698.7
37.5°	2558.7	2556.5	2567.5	2578.5	2588.7
40°	2445.0	2442.1	2453.1	2464.1	2475.1
42.5°	2328.4	2326.9	2337.2	2348.2	2359.9
45°	2207.4	2206.7	2216.9	2227.9	2239.7
47.5°	2084.2	2082.7	2093.0	2104.7	2115.0
50°	1958.1	1956.6	1966.9	1978.6	1989.6
52.5°	1828.2	1828.2	1837.8	1848.0	1864.9
55°	1697.7	1695.5	1705.8	1717.5	1733.6
57.5°	1565.7	1562.8	1572.3	1584.0	1598.7
60°	1430.8	1427.8	1436.6	1448.4	1468.9
62.5°	1294.4	1290.0	1298.8	1309.8	1322.2
65°	1156.5	1152.1	1160.2	1170.4	1182.2
67.5°	1017.9	1012.8	1020.8	1029.6	1040.6
70°	878.6	873.4	879.3	888.1	898.4
72.5°	740.0	734.8	740.0	743.6	756.1
75°	604.3	599.1	602.1	605.0	616.0
77.5°	472.3	467.1	473.0	474.5	481.1
80°	348.3	343.2	346.9	347.6	352.7
82.5°	235.4	231.0	236.1	232.5	236.9
85°	135.7	132.0	133.5	132.0	134.2
87.5°	53.5	50.6	51.3	48.4	48.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)