

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: P834448

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-3LO-50-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834448
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-LD4-3LO-50-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

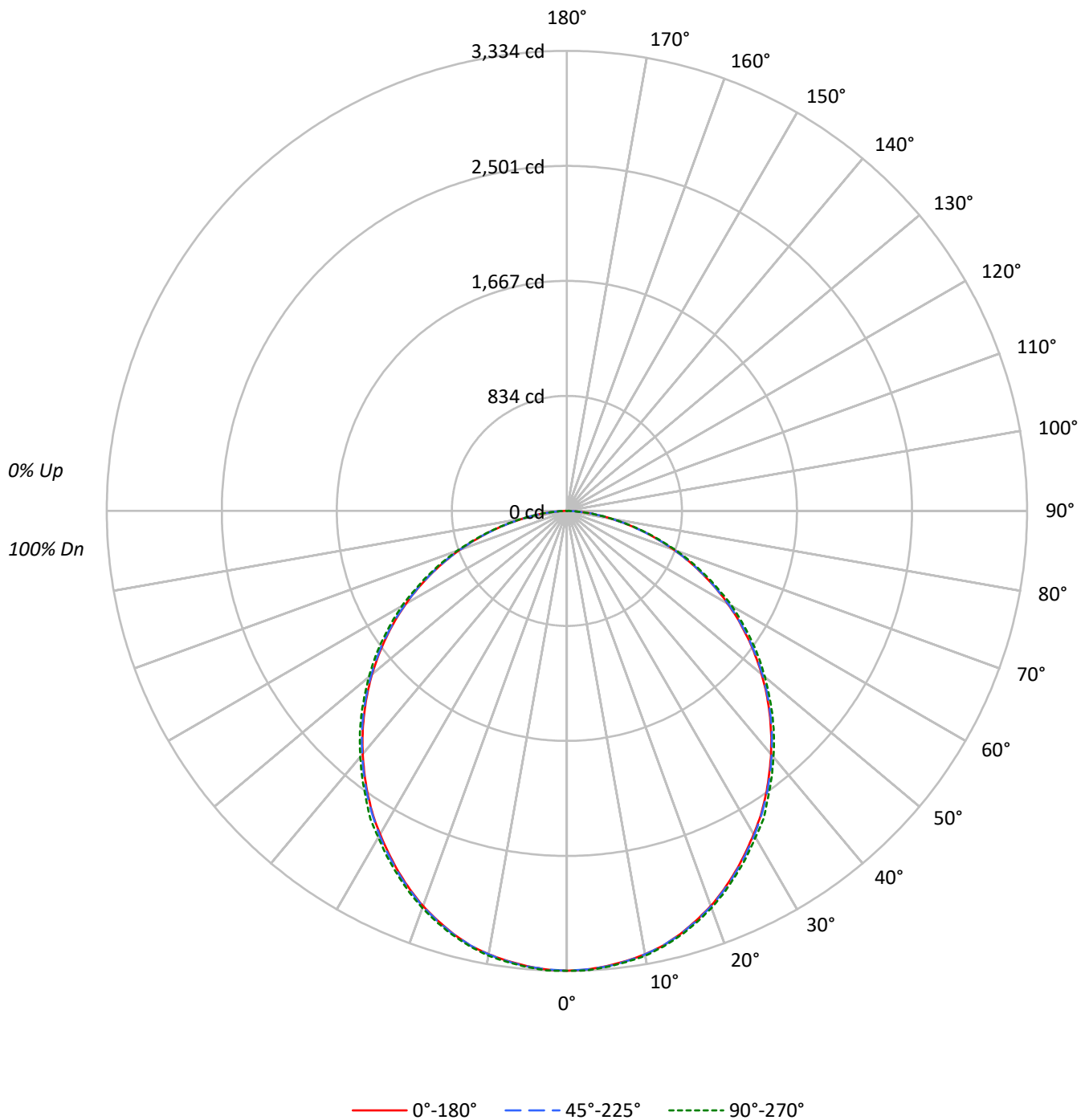
Lumens per Lamp: N/A
Luminaire Lumens: 9005.5 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8968	8968	8968
5°	8945	8952	8964
10°	8916	8918	8945
15°	8843	8848	8873
20°	8728	8738	8769
25°	8570	8590	8629
30°	8409	8437	8488
35°	8255	8276	8341
40°	8081	8108	8181
45°	7904	7938	8020
50°	7713	7747	7837
55°	7494	7530	7653
60°	7245	7275	7438
65°	6929	6951	7082
70°	6504	6509	6651
75°	5912	5890	6026
80°	5080	5058	5143
85°	3943	3878	3900

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.9	3.5
10°-20°	895.8	9.9
20°-30°	1333.6	14.8
30°-40°	1577.1	17.5
40°-50°	1610.0	17.9
50°-60°	1436.9	16.0
60°-70°	1082.3	12.0
70°-80°	603.5	6.7
80°-90°	151.2	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°	2544.4	28.3
0°-40°	4121.6	45.8
0°-60°	7168.5	79.6
0°-90°	9005.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9005.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3333	3333	3333	3333	3333	
5°	3311	3318	3314	3315	3318	315
15°	3174	3178	3176	3179	3185	895
25°	2886	2890	2893	2901	2906	1330
35°	2513	2510	2519	2529	2539	1572
45°	2077	2076	2086	2096	2107	1602
55°	1597	1595	1605	1616	1631	1428
65°	1088	1084	1092	1101	1112	1076
75°	569	564	566	569	580	603
85°	128	124	126	124	126	153
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3332.8	3332.8	3332.8	3332.8	3332.8
2.5°	3327.2	3332.8	3325.9	3327.2	3333.5
5°	3311.4	3317.6	3314.1	3314.8	3318.3
7.5°	3289.3	3297.6	3292.7	3294.1	3297.6
10°	3263.1	3269.3	3263.8	3267.2	3273.4
12.5°	3225.8	3228.6	3225.8	3227.2	3234.1
15°	3174.1	3177.5	3176.1	3178.9	3185.1
17.5°	3113.3	3117.5	3116.8	3122.3	3127.1
20°	3047.8	3048.5	3051.2	3056.8	3062.3
22.5°	2970.5	2972.6	2975.3	2982.9	2988.4
25°	2886.3	2889.8	2893.2	2900.8	2906.3
27.5°	2797.3	2800.8	2805.6	2813.9	2822.8
30°	2706.2	2706.2	2715.2	2723.5	2731.8
32.5°	2614.5	2611.0	2619.3	2629.6	2649.6
35°	2513.0	2510.3	2519.2	2528.9	2539.2
37.5°	2407.5	2405.4	2415.7	2426.1	2435.7
40°	2300.5	2297.7	2308.1	2318.4	2328.8
42.5°	2190.8	2189.4	2199.1	2209.4	2220.5
45°	2076.9	2076.2	2085.9	2096.3	2107.3
47.5°	1961.0	1959.6	1969.3	1980.3	1990.0
50°	1842.3	1841.0	1850.6	1861.7	1872.0
52.5°	1720.2	1720.2	1729.2	1738.8	1754.7
55°	1597.4	1595.3	1605.0	1616.0	1631.2
57.5°	1473.2	1470.4	1479.4	1490.4	1504.2
60°	1346.2	1343.5	1351.7	1362.8	1382.1
62.5°	1217.9	1213.7	1222.0	1232.4	1244.1
65°	1088.2	1084.0	1091.6	1101.3	1112.3
67.5°	957.7	952.9	960.5	968.8	979.1
70°	826.6	821.8	827.3	835.6	845.3
72.5°	696.2	691.4	696.2	699.7	711.4
75°	568.6	563.7	566.5	569.3	579.6
77.5°	444.4	439.5	445.1	446.4	452.6
80°	327.8	322.9	326.4	327.1	331.9
82.5°	221.5	217.4	222.2	218.7	222.9
85°	127.7	124.2	125.6	124.2	126.3
87.5°	50.4	47.6	48.3	45.5	45.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)