

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: P834496

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-1LO-50-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834496
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-LD4-1LO-50-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

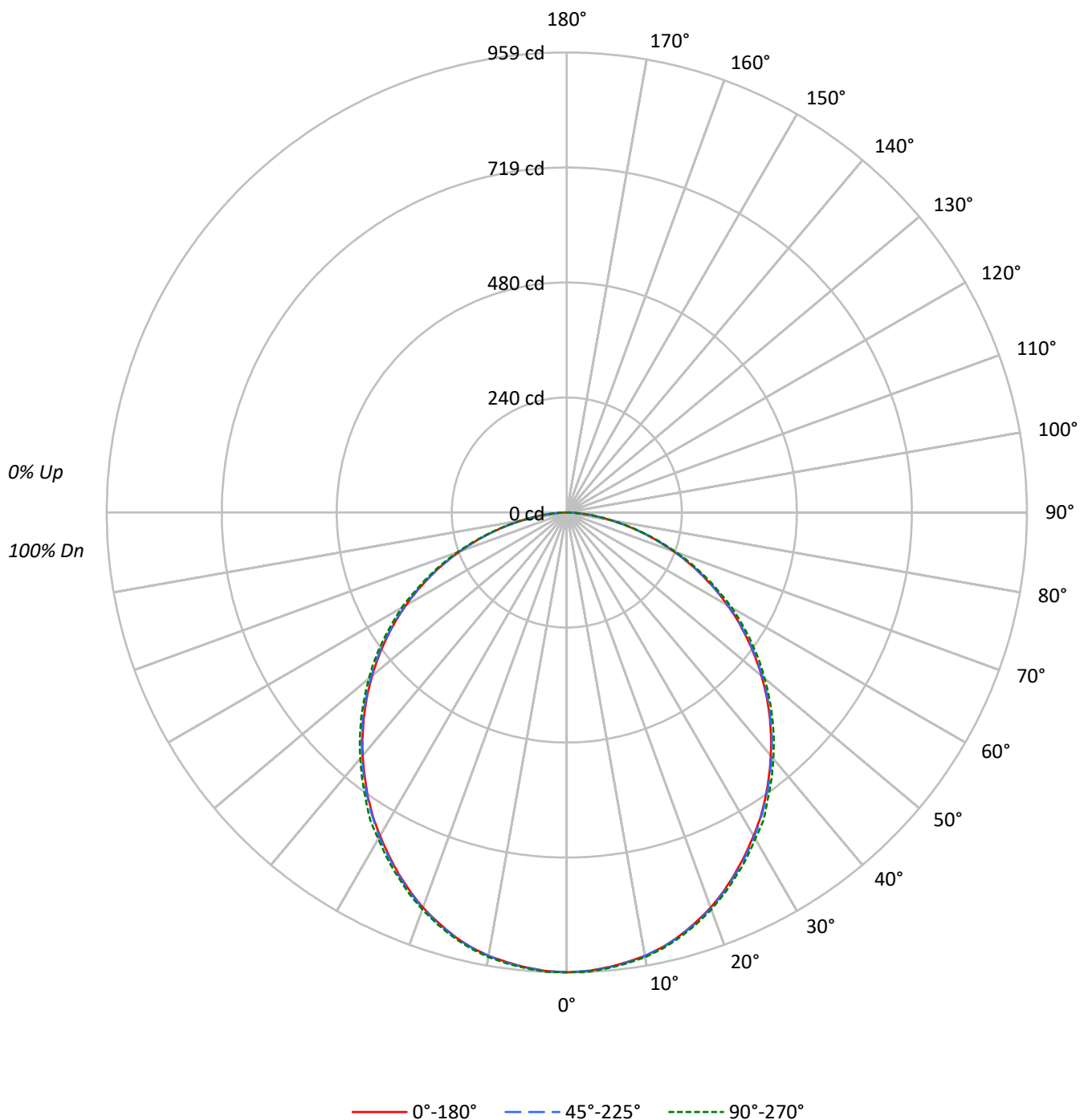
Lumens per Lamp: N/A
Luminaire Lumens: 2589.8 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2579	2579	2579
5°	2572	2575	2578
10°	2564	2565	2572
15°	2543	2545	2552
20°	2510	2513	2522
25°	2465	2470	2482
30°	2418	2426	2441
35°	2374	2380	2399
40°	2324	2332	2353
45°	2273	2283	2306
50°	2218	2228	2254
55°	2155	2166	2201
60°	2083	2092	2139
65°	1992	1999	2037
70°	1870	1872	1913
75°	1700	1694	1733
80°	1461	1455	1478
85°	1133	1115	1121

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	3.5
10°-20°	257.6	9.9
20°-30°	383.5	14.8
30°-40°	453.6	17.5
40°-50°	463.0	17.9
50°-60°	413.2	16.0
60°-70°	311.2	12.0
70°-80°	173.6	6.7
80°-90°	43.5	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°	731.7	28.3
0°-40°	1185.3	45.8
0°-60°	2061.5	79.6
0°-90°	2589.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2589.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	952	954	953	953	954	90
15°	913	914	913	914	916	257
25°	830	831	832	834	836	382
35°	723	722	724	727	730	452
45°	597	597	600	603	606	461
55°	459	459	462	465	469	411
65°	313	312	314	317	320	309
75°	164	162	163	164	167	173
85°	37	36	36	36	36	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	958.4	958.4	958.4	958.4	958.4
2.5°	956.9	958.4	956.5	956.9	958.6
5°	952.3	954.1	953.1	953.3	954.3
7.5°	945.9	948.3	946.9	947.3	948.3
10°	938.4	940.2	938.6	939.6	941.4
12.5°	927.7	928.5	927.7	928.1	930.1
15°	912.8	913.8	913.4	914.2	916.0
17.5°	895.3	896.5	896.3	897.9	899.3
20°	876.5	876.7	877.5	879.1	880.7
22.5°	854.3	854.9	855.7	857.8	859.4
25°	830.1	831.0	832.0	834.2	835.8
27.5°	804.5	805.4	806.8	809.2	811.8
30°	778.3	778.3	780.8	783.2	785.6
32.5°	751.9	750.9	753.3	756.2	762.0
35°	722.7	721.9	724.5	727.3	730.2
37.5°	692.3	691.7	694.7	697.7	700.5
40°	661.6	660.8	663.8	666.7	669.7
42.5°	630.0	629.6	632.4	635.4	638.6
45°	597.3	597.1	599.9	602.8	606.0
47.5°	564.0	563.6	566.3	569.5	572.3
50°	529.8	529.4	532.2	535.4	538.4
52.5°	494.7	494.7	497.3	500.1	504.6
55°	459.4	458.8	461.6	464.7	469.1
57.5°	423.7	422.9	425.4	428.6	432.6
60°	387.1	386.4	388.7	391.9	397.5
62.5°	350.2	349.0	351.4	354.4	357.8
65°	312.9	311.7	313.9	316.7	319.9
67.5°	275.4	274.0	276.2	278.6	281.6
70°	237.7	236.3	237.9	240.3	243.1
72.5°	200.2	198.8	200.2	201.2	204.6
75°	163.5	162.1	162.9	163.7	166.7
77.5°	127.8	126.4	128.0	128.4	130.2
80°	94.3	92.9	93.9	94.1	95.4
82.5°	63.7	62.5	63.9	62.9	64.1
85°	36.7	35.7	36.1	35.7	36.3
87.5°	14.5	13.7	13.9	13.1	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)