

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: P834410

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-2STD-27-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834410
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-LD4-2STD-27-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

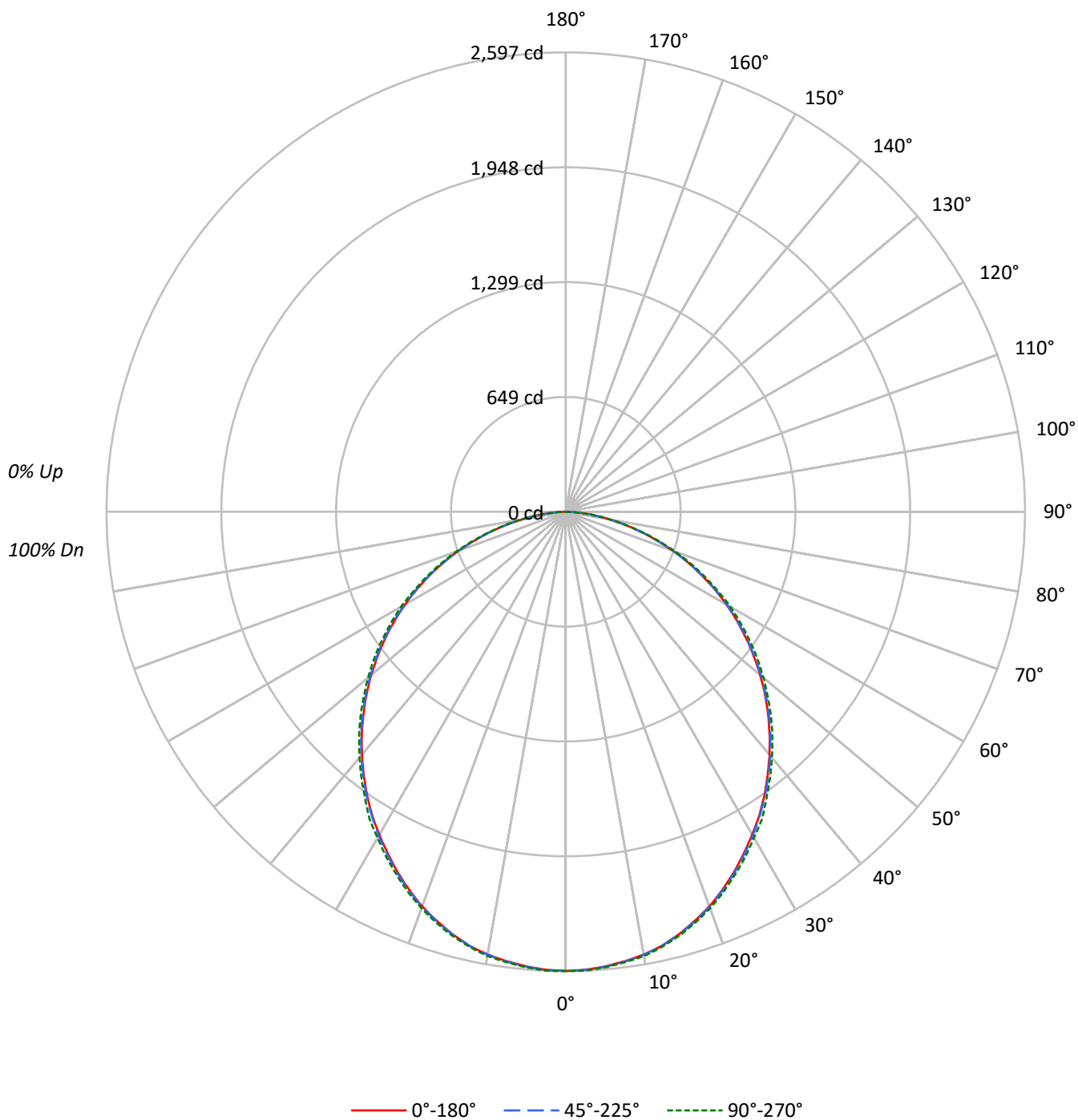
Lumens per Lamp: N/A
Luminaire Lumens: 7015.1 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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°	6986	6986	6986
5°	6968	6974	6982
10°	6946	6947	6968
15°	6888	6893	6912
20°	6799	6806	6831
25°	6676	6692	6722
30°	6550	6572	6612
35°	6431	6447	6498
40°	6295	6316	6373
45°	6157	6184	6247
50°	6008	6035	6105
55°	5838	5865	5962
60°	5644	5667	5794
65°	5397	5414	5517
70°	5066	5071	5180
75°	4605	4588	4694
80°	3956	3939	4006
85°	3069	3020	3038



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.3	3.5
10°-20°	697.8	9.9
20°-30°	1038.9	14.8
30°-40°	1228.6	17.5
40°-50°	1254.2	17.9
50°-60°	1119.3	16.0
60°-70°	843.1	12.0
70°-80°	470.1	6.7
80°-90°	117.8	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°	1982.0	28.3
0°-40°	3210.6	45.8
0°-60°	5584.1	79.6
0°-90°	7015.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7015.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2596	2596	2596	2596	2596	
5°	2580	2584	2582	2582	2585	245
15°	2472	2475	2474	2476	2481	697
25°	2248	2251	2254	2260	2264	1036
35°	1958	1955	1962	1970	1978	1224
45°	1618	1617	1625	1633	1642	1248
55°	1244	1243	1250	1259	1271	1112
65°	848	844	850	858	866	838
75°	443	439	441	443	452	470
85°	99	97	98	97	98	119
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2596.1	2596.1	2596.1	2596.1	2596.1
2.5°	2591.8	2596.1	2590.8	2591.8	2596.7
5°	2579.5	2584.3	2581.6	2582.2	2584.9
7.5°	2562.3	2568.7	2565.0	2566.0	2568.7
10°	2541.9	2546.7	2542.4	2545.1	2549.9
12.5°	2512.8	2515.0	2512.8	2513.9	2519.3
15°	2472.5	2475.2	2474.1	2476.3	2481.1
17.5°	2425.2	2428.4	2427.9	2432.2	2436.0
20°	2374.2	2374.7	2376.8	2381.1	2385.4
22.5°	2314.0	2315.6	2317.7	2323.6	2327.9
25°	2248.4	2251.1	2253.8	2259.7	2264.0
27.5°	2179.0	2181.7	2185.5	2191.9	2198.9
30°	2108.1	2108.1	2115.1	2121.5	2128.0
32.5°	2036.6	2033.9	2040.4	2048.4	2064.0
35°	1957.6	1955.4	1962.4	1970.0	1978.0
37.5°	1875.4	1873.7	1881.8	1889.9	1897.4
40°	1792.0	1789.9	1798.0	1806.0	1814.1
42.5°	1706.6	1705.5	1713.0	1721.1	1729.7
45°	1617.9	1617.4	1624.9	1632.9	1641.5
47.5°	1527.6	1526.5	1534.0	1542.6	1550.2
50°	1435.1	1434.1	1441.6	1450.2	1458.3
52.5°	1340.0	1340.0	1347.0	1354.5	1366.9
55°	1244.3	1242.7	1250.2	1258.8	1270.7
57.5°	1147.6	1145.4	1152.4	1161.0	1171.8
60°	1048.7	1046.5	1053.0	1061.6	1076.6
62.5°	948.7	945.5	951.9	960.0	969.1
65°	847.6	844.4	850.3	857.9	866.5
67.5°	746.1	742.3	748.2	754.7	762.7
70°	643.9	640.2	644.5	650.9	658.4
72.5°	542.3	538.6	542.3	545.0	554.2
75°	442.9	439.1	441.3	443.4	451.5
77.5°	346.2	342.4	346.7	347.8	352.6
80°	255.3	251.6	254.2	254.8	258.5
82.5°	172.5	169.3	173.1	170.4	173.6
85°	99.4	96.8	97.8	96.8	98.4
87.5°	39.2	37.1	37.6	35.5	35.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)