

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: P834419

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-2STD-30-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834419
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-30-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

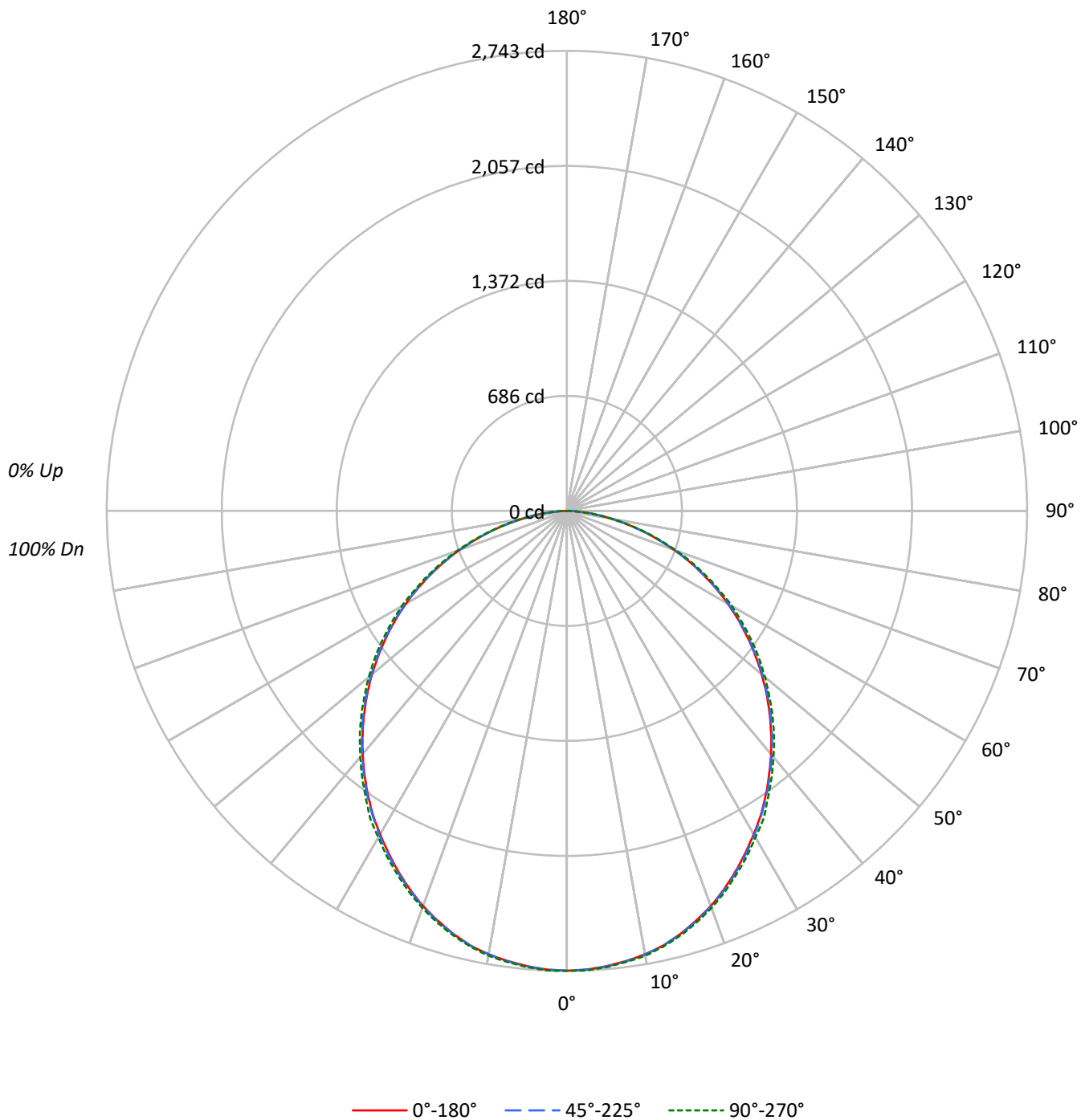
Lumens per Lamp: N/A
Luminaire Lumens: 7409.2 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	7379	7379	7379
5°	7359	7366	7375
10°	7336	7337	7359
15°	7275	7280	7300
20°	7181	7189	7215
25°	7051	7068	7100
30°	6918	6941	6984
35°	6792	6809	6863
40°	6649	6671	6731
45°	6503	6531	6598
50°	6346	6374	6448
55°	6166	6195	6296
60°	5961	5985	6120
65°	5701	5719	5827
70°	5351	5356	5471
75°	4864	4846	4958
80°	4179	4161	4232
85°	3242	3189	3208

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.1	3.5
10°-20°	737.0	9.9
20°-30°	1097.2	14.8
30°-40°	1297.6	17.5
40°-50°	1324.7	17.9
50°-60°	1182.2	16.0
60°-70°	890.4	12.0
70°-80°	496.6	6.7
80°-90°	124.4	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°	2093.4	28.3
0°-40°	3391.0	45.8
0°-60°	5897.8	79.6
0°-90°	7409.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7409.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2742	2742	2742	2742	2742	
5°	2724	2730	2727	2727	2730	259
15°	2611	2614	2613	2615	2620	736
25°	2375	2378	2380	2387	2391	1094
35°	2068	2065	2073	2081	2089	1293
45°	1709	1708	1716	1725	1734	1318
55°	1314	1312	1320	1330	1342	1175
65°	895	892	898	906	915	885
75°	468	464	466	468	477	496
85°	105	102	103	102	104	126
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2742.0	2742.0	2742.0	2742.0	2742.0
2.5°	2737.5	2742.0	2736.3	2737.5	2742.6
5°	2724.4	2729.5	2726.7	2727.2	2730.1
7.5°	2706.2	2713.0	2709.1	2710.2	2713.0
10°	2684.7	2689.8	2685.2	2688.1	2693.2
12.5°	2654.0	2656.3	2654.0	2655.1	2660.8
15°	2611.4	2614.3	2613.1	2615.4	2620.5
17.5°	2561.5	2564.9	2564.3	2568.9	2572.8
20°	2507.5	2508.1	2510.4	2514.9	2519.5
22.5°	2444.0	2445.7	2447.9	2454.2	2458.7
25°	2374.7	2377.5	2380.4	2386.6	2391.2
27.5°	2301.5	2304.3	2308.3	2315.1	2322.5
30°	2226.5	2226.5	2233.9	2240.7	2247.5
32.5°	2151.0	2148.2	2155.0	2163.5	2180.0
35°	2067.6	2065.3	2072.7	2080.6	2089.1
37.5°	1980.7	1979.0	1987.5	1996.0	2004.0
40°	1892.7	1890.4	1899.0	1907.5	1916.0
42.5°	1802.5	1801.3	1809.3	1817.8	1826.9
45°	1708.8	1708.2	1716.2	1724.7	1733.8
47.5°	1613.4	1612.3	1620.2	1629.3	1637.3
50°	1515.8	1514.6	1522.6	1531.7	1540.2
52.5°	1415.3	1415.3	1422.7	1430.6	1443.7
55°	1314.2	1312.5	1320.5	1329.6	1342.0
57.5°	1212.0	1209.8	1217.2	1226.2	1237.6
60°	1107.6	1105.3	1112.1	1121.2	1137.1
62.5°	1002.0	998.6	1005.4	1013.9	1023.6
65°	895.3	891.9	898.1	906.1	915.1
67.5°	788.0	784.0	790.2	797.1	805.6
70°	680.1	676.1	680.7	687.5	695.4
72.5°	572.8	568.8	572.8	575.6	585.3
75°	467.8	463.8	466.1	468.4	476.9
77.5°	365.6	361.6	366.2	367.3	372.4
80°	269.7	265.7	268.5	269.1	273.1
82.5°	182.2	178.8	182.8	180.0	183.4
85°	105.0	102.2	103.3	102.2	103.9
87.5°	41.4	39.2	39.7	37.5	37.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)