

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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: P834961

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-3LO-27-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834961
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-OPL-LD4-3LO-27-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

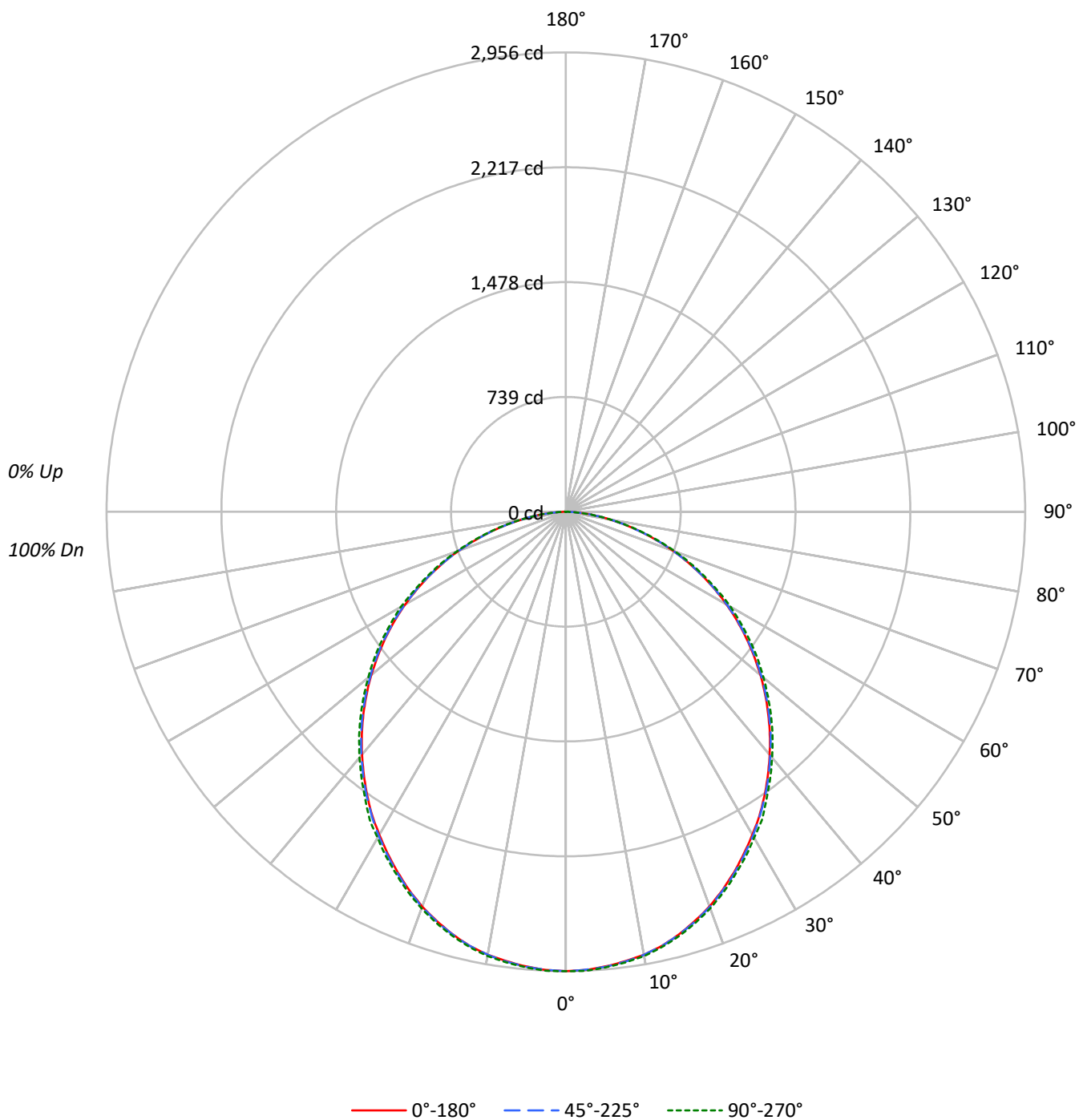
Lumens per Lamp: N/A
Luminaire Lumens: 7987.1 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



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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°	3977	3977	3977
5°	3967	3970	3975
10°	3954	3955	3966
15°	3921	3924	3935
20°	3870	3875	3889
25°	3800	3809	3827
30°	3729	3741	3764
35°	3661	3670	3699
40°	3584	3596	3628
45°	3505	3520	3556
50°	3420	3436	3475
55°	3323	3339	3394
60°	3213	3226	3299
65°	3073	3082	3141
70°	2884	2887	2949
75°	2622	2612	2673
80°	2252	2243	2281
85°	1748	1720	1729

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Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.3	3.5
10°-20°	794.5	9.9
20°-30°	1182.8	14.8
30°-40°	1398.8	17.5
40°-50°	1428.0	17.9
50°-60°	1274.4	16.0
60°-70°	959.9	12.0
70°-80°	535.3	6.7
80°-90°	134.1	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°	2256.7	28.3
0°-40°	3655.5	45.8
0°-60°	6357.8	79.6
0°-90°	7987.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7987.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2956	2956	2956	2956	2956	
5°	2937	2942	2939	2940	2943	279
15°	2815	2818	2817	2819	2825	793
25°	2560	2563	2566	2573	2578	1179
35°	2229	2226	2234	2243	2252	1394
45°	1842	1842	1850	1859	1869	1421
55°	1417	1415	1424	1433	1447	1266
65°	965	961	968	977	986	955
75°	504	500	502	505	514	535
85°	113	110	111	110	112	136
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2955.9	2955.9	2955.9	2955.9	2955.9
2.5°	2951.0	2955.9	2949.8	2951.0	2956.5
5°	2936.9	2942.4	2939.4	2940.0	2943.0
7.5°	2917.3	2924.7	2920.4	2921.6	2924.7
10°	2894.1	2899.6	2894.7	2897.7	2903.2
12.5°	2861.0	2863.5	2861.0	2862.2	2868.4
15°	2815.1	2818.2	2817.0	2819.4	2824.9
17.5°	2761.3	2764.9	2764.3	2769.2	2773.5
20°	2703.1	2703.7	2706.2	2711.1	2716.0
22.5°	2634.6	2636.4	2638.9	2645.6	2650.5
25°	2559.9	2563.0	2566.0	2572.8	2577.7
27.5°	2481.0	2484.0	2488.3	2495.7	2503.6
30°	2400.2	2400.2	2408.2	2415.5	2422.8
32.5°	2318.8	2315.7	2323.1	2332.3	2350.0
35°	2228.8	2226.4	2234.3	2242.9	2252.1
37.5°	2135.2	2133.4	2142.5	2151.7	2160.3
40°	2040.3	2037.9	2047.1	2056.3	2065.4
42.5°	1943.0	1941.8	1950.4	1959.6	1969.4
45°	1842.1	1841.5	1850.0	1859.2	1869.0
47.5°	1739.3	1738.0	1746.6	1756.4	1765.0
50°	1634.0	1632.8	1641.3	1651.1	1660.3
52.5°	1525.7	1525.7	1533.6	1542.2	1556.3
55°	1416.7	1414.9	1423.5	1433.3	1446.7
57.5°	1306.6	1304.1	1312.1	1321.9	1334.1
60°	1194.0	1191.5	1198.9	1208.7	1225.8
62.5°	1080.1	1076.5	1083.8	1093.0	1103.4
65°	965.1	961.4	968.2	976.7	986.5
67.5°	849.4	845.1	851.9	859.2	868.4
70°	733.2	728.9	733.8	741.1	749.7
72.5°	617.5	613.2	617.5	620.5	631.0
75°	504.3	500.0	502.4	504.9	514.1
77.5°	394.1	389.8	394.7	396.0	401.5
80°	290.7	286.4	289.5	290.1	294.4
82.5°	196.4	192.8	197.1	194.0	197.7
85°	113.2	110.2	111.4	110.2	112.0
87.5°	44.7	42.2	42.8	40.4	40.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)