

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: P834944

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-3STD-20-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834944
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-LD4-3STD-20-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

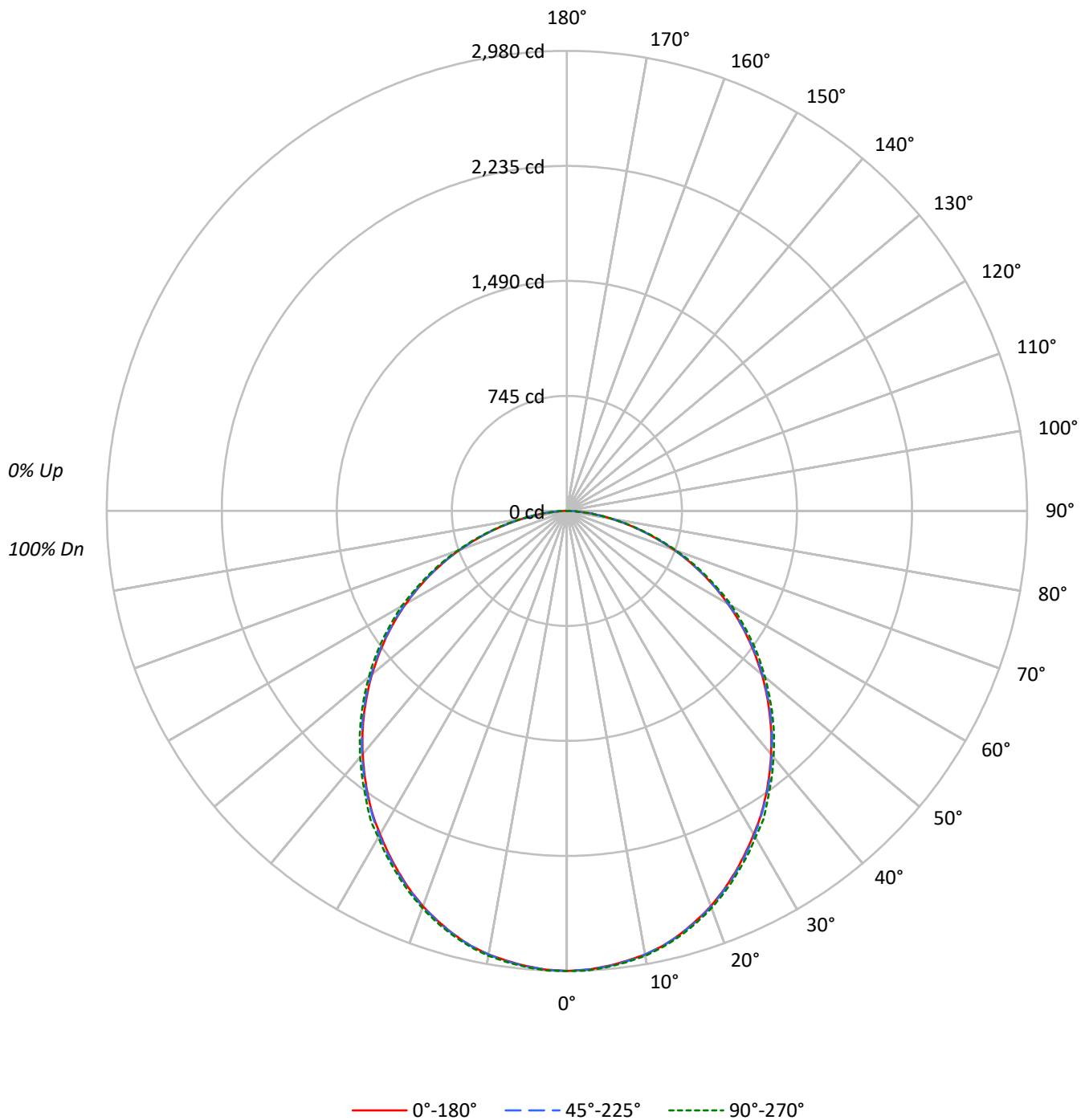
Lumens per Lamp: N/A
Luminaire Lumens: 8052.0 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	4009	4009	4009
5°	3999	4002	4007
10°	3986	3987	3999
15°	3953	3956	3967
20°	3902	3906	3920
25°	3831	3840	3858
30°	3759	3772	3795
35°	3691	3700	3729
40°	3613	3625	3657
45°	3534	3549	3585
50°	3448	3464	3504
55°	3350	3366	3421
60°	3239	3252	3326
65°	3097	3107	3166
70°	2908	2910	2973
75°	2643	2633	2694
80°	2271	2261	2300
85°	1761	1734	1743

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.6	3.5
10°-20°	801.0	9.9
20°-30°	1192.4	14.8
30°-40°	1410.2	17.5
40°-50°	1439.6	17.9
50°-60°	1284.7	16.0
60°-70°	967.7	12.0
70°-80°	539.6	6.7
80°-90°	135.2	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°	2275.0	28.3
0°-40°	3685.2	45.8
0°-60°	6409.5	79.6
0°-90°	8052.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8052.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2980	2980	2980	2980	2980	
5°	2961	2966	2963	2964	2967	281
15°	2838	2841	2840	2842	2848	800
25°	2581	2584	2587	2594	2599	1189
35°	2247	2244	2252	2261	2270	1405
45°	1857	1856	1865	1874	1884	1433
55°	1428	1426	1435	1445	1458	1277
65°	973	969	976	985	994	962
75°	508	504	506	509	518	539
85°	114	111	112	111	113	137
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2979.9	2979.9	2979.9	2979.9	2979.9
2.5°	2975.0	2979.9	2973.7	2975.0	2980.5
5°	2960.8	2966.3	2963.2	2963.8	2966.9
7.5°	2941.0	2948.4	2944.1	2945.3	2948.4
10°	2917.6	2923.1	2918.2	2921.3	2926.8
12.5°	2884.3	2886.7	2884.3	2885.5	2891.7
15°	2838.0	2841.1	2839.8	2842.3	2847.9
17.5°	2783.7	2787.4	2786.8	2791.7	2796.0
20°	2725.1	2725.7	2728.2	2733.1	2738.0
22.5°	2656.0	2657.8	2660.3	2667.1	2672.0
25°	2580.7	2583.8	2586.9	2593.7	2598.6
27.5°	2501.1	2504.2	2508.5	2515.9	2524.0
30°	2419.7	2419.7	2427.7	2435.1	2442.5
32.5°	2337.6	2334.6	2342.0	2351.2	2369.1
35°	2246.9	2244.5	2252.5	2261.1	2270.4
37.5°	2152.6	2150.7	2160.0	2169.2	2177.8
40°	2056.9	2054.5	2063.7	2073.0	2082.2
42.5°	1958.8	1957.6	1966.2	1975.5	1985.4
45°	1857.0	1856.4	1865.1	1874.3	1884.2
47.5°	1753.4	1752.2	1760.8	1770.7	1779.3
50°	1647.3	1646.0	1654.7	1664.5	1673.8
52.5°	1538.1	1538.1	1546.1	1554.7	1568.9
55°	1428.2	1426.4	1435.0	1444.9	1458.5
57.5°	1317.2	1314.7	1322.8	1332.6	1345.0
60°	1203.7	1201.2	1208.6	1218.5	1235.8
62.5°	1088.9	1085.2	1092.6	1101.9	1112.4
65°	972.9	969.2	976.0	984.7	994.5
67.5°	856.3	852.0	858.8	866.2	875.5
70°	739.1	734.8	739.7	747.1	755.8
72.5°	622.5	618.2	622.5	625.6	636.1
75°	508.4	504.1	506.5	509.0	518.2
77.5°	397.3	393.0	397.9	399.2	404.7
80°	293.1	288.7	291.8	292.4	296.8
82.5°	198.0	194.3	198.7	195.6	199.3
85°	114.1	111.1	112.3	111.1	112.9
87.5°	45.0	42.6	43.2	40.7	40.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)