

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: P834995

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-2STD-35-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834995
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-LD4-2STD-35-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

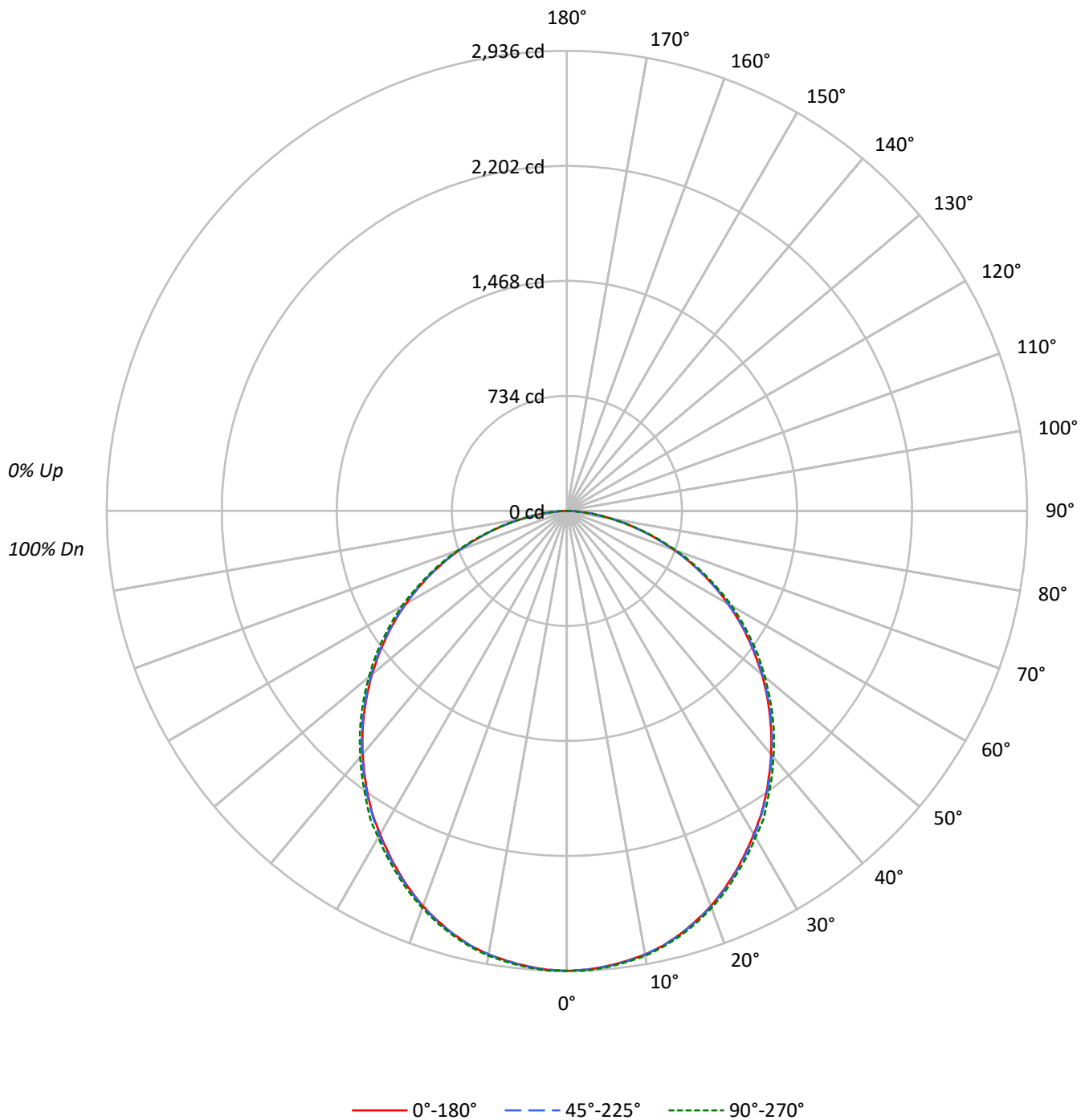
Lumens per Lamp: N/A
Luminaire Lumens: 7932.4 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	3950	3950	3950
5°	3940	3943	3948
10°	3927	3928	3939
15°	3895	3897	3908
20°	3844	3848	3862
25°	3774	3783	3801
30°	3704	3716	3739
35°	3636	3645	3674
40°	3559	3571	3603
45°	3481	3496	3532
50°	3397	3412	3451
55°	3301	3316	3370
60°	3191	3204	3276
65°	3052	3061	3119
70°	2864	2867	2929
75°	2603	2594	2654
80°	2237	2228	2265
85°	1735	1707	1717

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.4	3.5
10°-20°	789.1	9.9
20°-30°	1174.7	14.8
30°-40°	1389.2	17.5
40°-50°	1418.2	17.9
50°-60°	1265.7	16.0
60°-70°	953.3	12.0
70°-80°	531.6	6.7
80°-90°	133.2	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°	2241.2	28.3
0°-40°	3630.5	45.8
0°-60°	6314.3	79.6
0°-90°	7932.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7932.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2936	2936	2936	2936	2936	
5°	2917	2922	2919	2920	2923	277
15°	2796	2799	2798	2800	2806	788
25°	2542	2545	2548	2555	2560	1171
35°	2214	2211	2219	2228	2237	1384
45°	1830	1829	1837	1846	1856	1411
55°	1407	1405	1414	1424	1437	1258
65°	958	955	962	970	980	948
75°	501	497	499	501	510	531
85°	112	109	111	109	111	135
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2935.6	2935.6	2935.6	2935.6	2935.6
2.5°	2930.8	2935.6	2929.6	2930.8	2936.3
5°	2916.8	2922.3	2919.2	2919.8	2922.9
7.5°	2897.4	2904.6	2900.4	2901.6	2904.6
10°	2874.3	2879.7	2874.9	2877.9	2883.4
12.5°	2841.4	2843.9	2841.4	2842.7	2848.7
15°	2795.9	2798.9	2797.7	2800.1	2805.6
17.5°	2742.4	2746.0	2745.4	2750.3	2754.5
20°	2684.6	2685.2	2687.7	2692.5	2697.4
22.5°	2616.6	2618.4	2620.8	2627.5	2632.4
25°	2542.4	2545.4	2548.5	2555.2	2560.0
27.5°	2464.0	2467.0	2471.3	2478.6	2486.5
30°	2383.8	2383.8	2391.7	2399.0	2406.3
32.5°	2302.9	2299.9	2307.2	2316.3	2333.9
35°	2213.6	2211.2	2219.1	2227.6	2236.7
37.5°	2120.6	2118.8	2127.9	2137.0	2145.5
40°	2026.4	2024.0	2033.1	2042.2	2051.3
42.5°	1929.7	1928.5	1937.0	1946.2	1955.9
45°	1829.5	1828.9	1837.4	1846.5	1856.2
47.5°	1727.4	1726.1	1734.6	1744.4	1752.9
50°	1622.8	1621.6	1630.1	1639.8	1648.9
52.5°	1515.2	1515.2	1523.1	1531.6	1545.6
55°	1407.0	1405.2	1413.7	1423.5	1436.8
57.5°	1297.6	1295.2	1303.1	1312.8	1325.0
60°	1185.8	1183.4	1190.7	1200.4	1217.4
62.5°	1072.8	1069.1	1076.4	1085.5	1095.9
65°	958.5	954.8	961.5	970.0	979.8
67.5°	843.6	839.4	846.0	853.3	862.5
70°	728.1	723.9	728.7	736.0	744.5
72.5°	613.3	609.0	613.3	616.3	626.6
75°	500.8	496.6	499.0	501.4	510.5
77.5°	391.4	387.2	392.0	393.2	398.7
80°	288.7	284.4	287.5	288.1	292.3
82.5°	195.1	191.5	195.7	192.7	196.3
85°	112.4	109.4	110.6	109.4	111.2
87.5°	44.4	41.9	42.5	40.1	40.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)