

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: P835733

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-2STD-30-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835733
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-OPL-LD4-2STD-30-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

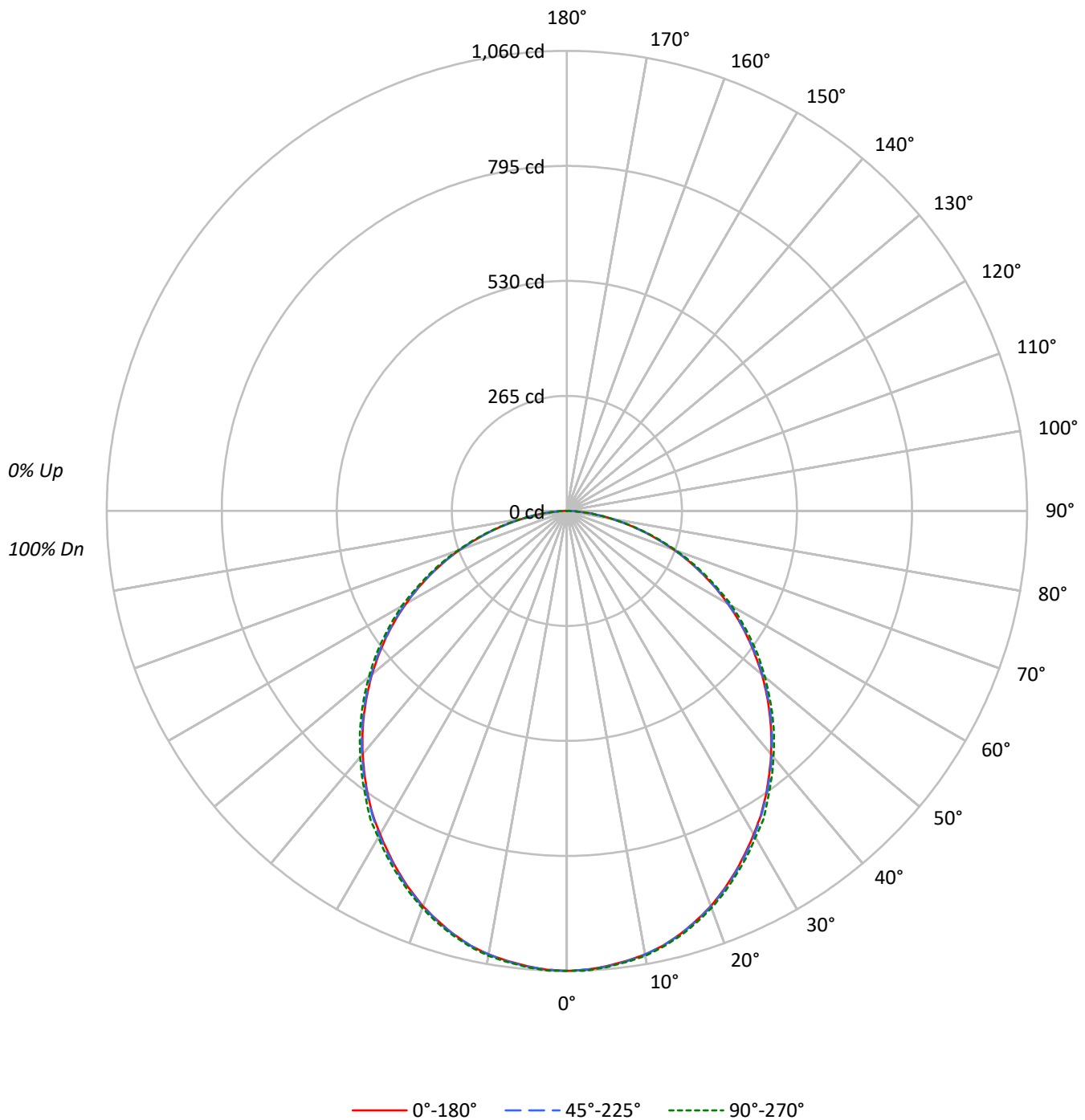
Lumens per Lamp: N/A
Luminaire Lumens: 2863.8 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	2852	2852	2852
5°	2844	2847	2850
10°	2836	2836	2845
15°	2812	2814	2822
20°	2775	2779	2789
25°	2725	2732	2744
30°	2674	2683	2699
35°	2625	2632	2653
40°	2570	2578	2602
45°	2514	2524	2550
50°	2453	2464	2492
55°	2383	2395	2434
60°	2304	2314	2365
65°	2203	2210	2252
70°	2068	2070	2115
75°	1880	1873	1916
80°	1615	1609	1635
85°	1254	1232	1241

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	3.5
10°-20°	284.9	9.9
20°-30°	424.1	14.8
30°-40°	501.5	17.5
40°-50°	512.0	17.9
50°-60°	456.9	16.0
60°-70°	344.2	12.0
70°-80°	191.9	6.7
80°-90°	48.1	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°	809.1	28.3
0°-40°	1310.7	45.8
0°-60°	2279.6	79.6
0°-90°	2863.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2863.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1053	1055	1054	1054	1055	100
15°	1009	1010	1010	1011	1013	284
25°	918	919	920	922	924	423
35°	799	798	801	804	808	500
45°	660	660	663	667	670	510
55°	508	507	510	514	519	454
65°	346	345	347	350	354	342
75°	181	179	180	181	184	192
85°	41	40	40	40	40	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1059.8	1059.8	1059.8	1059.8	1059.8
2.5°	1058.1	1059.8	1057.6	1058.1	1060.0
5°	1053.0	1055.0	1053.9	1054.1	1055.2
7.5°	1046.0	1048.6	1047.1	1047.5	1048.6
10°	1037.7	1039.6	1037.9	1039.0	1041.0
12.5°	1025.8	1026.7	1025.8	1026.3	1028.4
15°	1009.4	1010.5	1010.0	1010.9	1012.9
17.5°	990.0	991.4	991.1	992.9	994.4
20°	969.2	969.4	970.3	972.1	973.8
22.5°	944.6	945.3	946.2	948.6	950.3
25°	917.9	919.0	920.0	922.5	924.2
27.5°	889.5	890.6	892.2	894.8	897.7
30°	860.6	860.6	863.4	866.1	868.7
32.5°	831.4	830.3	832.9	836.2	842.6
35°	799.1	798.3	801.1	804.2	807.5
37.5°	765.6	764.9	768.2	771.5	774.6
40°	731.6	730.7	734.0	737.3	740.6
42.5°	696.7	696.2	699.3	702.6	706.1
45°	660.5	660.3	663.3	666.6	670.1
47.5°	623.6	623.2	626.2	629.8	632.8
50°	585.9	585.4	588.5	592.0	595.3
52.5°	547.0	547.0	549.9	553.0	558.0
55°	508.0	507.3	510.4	513.9	518.7
57.5°	468.5	467.6	470.4	474.0	478.3
60°	428.1	427.2	429.9	433.4	439.5
62.5°	387.3	386.0	388.6	391.9	395.6
65°	346.0	344.7	347.1	350.2	353.7
67.5°	304.6	303.0	305.4	308.1	311.4
70°	262.9	261.3	263.1	265.7	268.8
72.5°	221.4	219.9	221.4	222.5	226.2
75°	180.8	179.3	180.1	181.0	184.3
77.5°	141.3	139.8	141.5	142.0	143.9
80°	104.2	102.7	103.8	104.0	105.5
82.5°	70.4	69.1	70.7	69.6	70.9
85°	40.6	39.5	39.9	39.5	40.2
87.5°	16.0	15.1	15.4	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)