

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: P835751

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-2STD-35-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835751
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-35-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

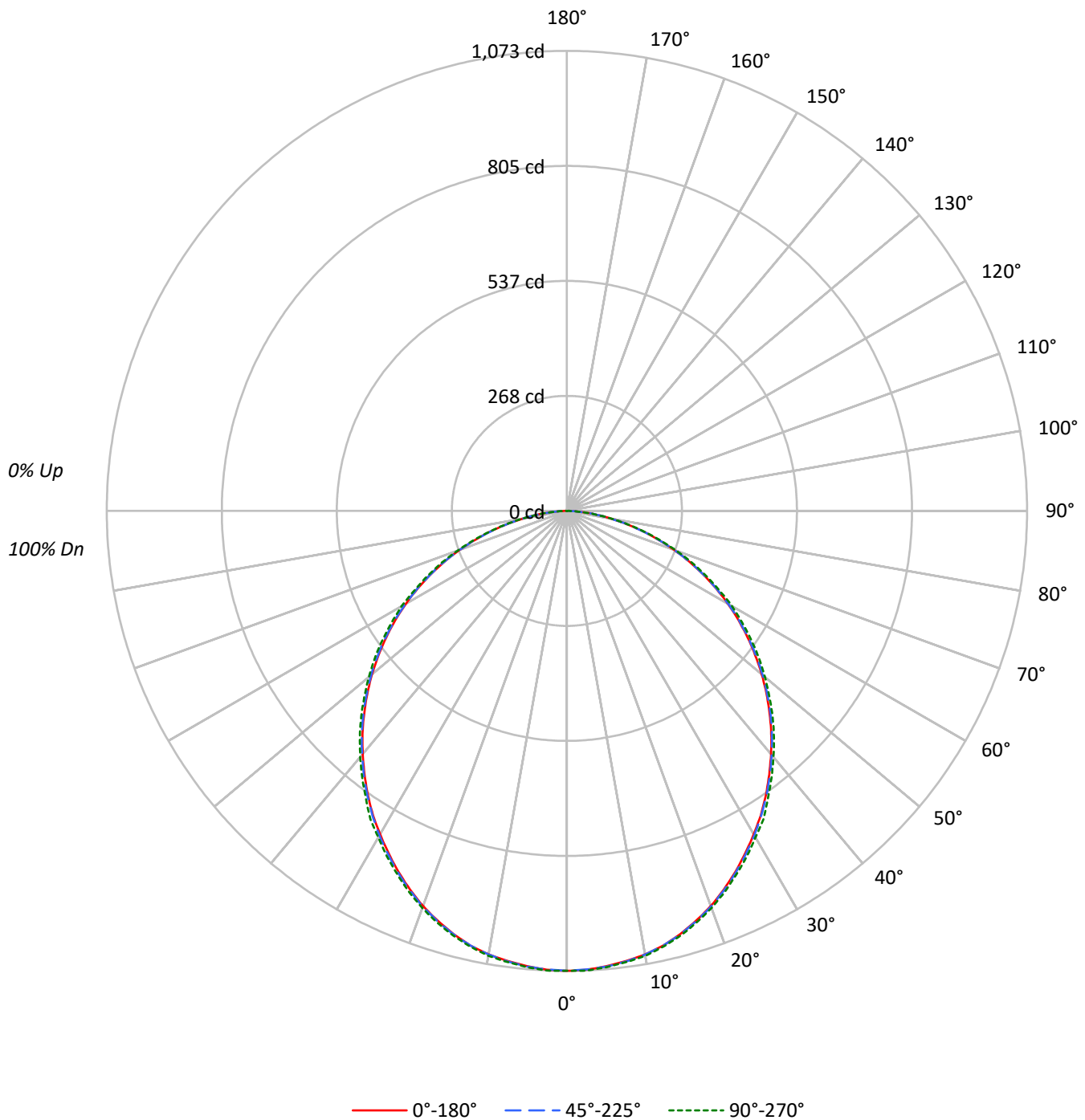
Lumens per Lamp: N/A
Luminaire Lumens: 2898.7 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	2887	2887	2887
5°	2879	2882	2885
10°	2870	2870	2879
15°	2846	2848	2856
20°	2809	2812	2823
25°	2758	2765	2778
30°	2707	2716	2732
35°	2657	2664	2685
40°	2601	2610	2633
45°	2544	2555	2581
50°	2483	2494	2523
55°	2412	2424	2463
60°	2332	2342	2394
65°	2230	2238	2280
70°	2094	2095	2141
75°	1903	1895	1940
80°	1635	1629	1655
85°	1269	1247	1254

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.4	3.5
10°-20°	288.4	9.9
20°-30°	429.3	14.8
30°-40°	507.6	17.5
40°-50°	518.2	17.9
50°-60°	462.5	16.0
60°-70°	348.4	12.0
70°-80°	194.3	6.7
80°-90°	48.7	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°	819.0	28.3
0°-40°	1326.6	45.8
0°-60°	2307.4	79.6
0°-90°	2898.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2898.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1073	1073	1073	1073	1073	
5°	1066	1068	1067	1067	1068	101
15°	1022	1023	1022	1023	1025	288
25°	929	930	931	934	936	428
35°	809	808	811	814	817	506
45°	668	668	671	675	678	516
55°	514	514	517	520	525	460
65°	350	349	351	354	358	346
75°	183	182	182	183	187	194
85°	41	40	40	40	41	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1072.7	1072.7	1072.7	1072.7	1072.7
2.5°	1071.0	1072.7	1070.5	1071.0	1073.0
5°	1065.9	1067.9	1066.8	1067.0	1068.1
7.5°	1058.8	1061.4	1059.9	1060.3	1061.4
10°	1050.3	1052.3	1050.5	1051.6	1053.6
12.5°	1038.3	1039.2	1038.3	1038.8	1041.0
15°	1021.7	1022.8	1022.3	1023.2	1025.2
17.5°	1002.1	1003.5	1003.2	1005.0	1006.6
20°	981.0	981.2	982.1	983.9	985.7
22.5°	956.1	956.8	957.7	960.1	961.9
25°	929.0	930.2	931.3	933.7	935.5
27.5°	900.4	901.5	903.1	905.7	908.6
30°	871.1	871.1	874.0	876.6	879.3
32.5°	841.5	840.4	843.1	846.4	852.9
35°	808.9	808.0	810.9	814.0	817.3
37.5°	774.9	774.2	777.6	780.9	784.0
40°	740.5	739.6	742.9	746.3	749.6
42.5°	705.2	704.7	707.8	711.2	714.7
45°	668.5	668.3	671.4	674.7	678.3
47.5°	631.2	630.8	633.9	637.4	640.5
50°	593.0	592.6	595.7	599.2	602.6
52.5°	553.7	553.7	556.6	559.7	564.8
55°	514.2	513.5	516.6	520.2	525.0
57.5°	474.2	473.3	476.2	479.7	484.2
60°	433.3	432.4	435.1	438.6	444.9
62.5°	392.0	390.7	393.3	396.7	400.4
65°	350.3	348.9	351.4	354.5	358.0
67.5°	308.3	306.7	309.2	311.8	315.2
70°	266.1	264.5	266.3	269.0	272.1
72.5°	224.1	222.5	224.1	225.2	229.0
75°	183.0	181.5	182.3	183.2	186.6
77.5°	143.0	141.5	143.3	143.7	145.7
80°	105.5	103.9	105.1	105.3	106.8
82.5°	71.3	70.0	71.5	70.4	71.7
85°	41.1	40.0	40.4	40.0	40.6
87.5°	16.2	15.3	15.5	14.7	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)