

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: P835590

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-2HI-20-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835590
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-LD4-2HI-20-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

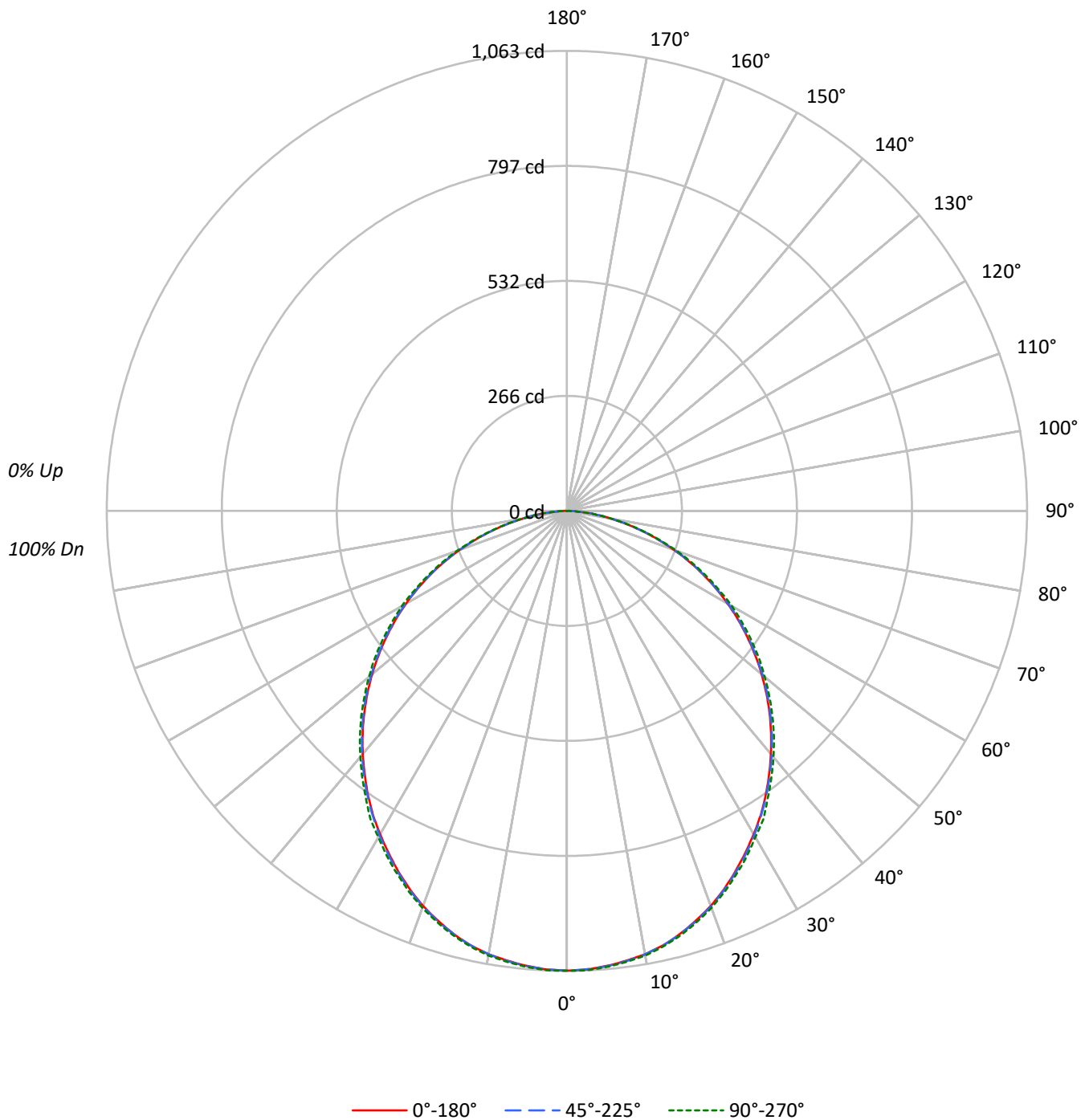
Lumens per Lamp: N/A
Luminaire Lumens: 2870.6 lumens
Efficiency: N/A
Efficacy: 65.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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°	2859	2859	2859
5°	2851	2854	2857
10°	2842	2843	2851
15°	2819	2820	2829
20°	2782	2785	2796
25°	2732	2738	2751
30°	2681	2689	2706
35°	2632	2638	2659
40°	2576	2584	2608
45°	2520	2530	2556
50°	2459	2470	2498
55°	2389	2400	2440
60°	2309	2319	2371
65°	2209	2216	2258
70°	2073	2075	2120
75°	1884	1878	1921
80°	1619	1612	1640
85°	1257	1235	1244

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.4	3.5
10°-20°	285.6	9.9
20°-30°	425.1	14.8
30°-40°	502.7	17.5
40°-50°	513.2	17.9
50°-60°	458.0	16.0
60°-70°	345.0	12.0
70°-80°	192.4	6.7
80°-90°	48.2	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°	811.1	28.3
0°-40°	1313.8	45.8
0°-60°	2285.1	79.6
0°-90°	2870.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2870.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1062	1062	1062	1062	1062	
5°	1056	1058	1056	1057	1058	100
15°	1012	1013	1012	1013	1015	285
25°	920	921	922	925	926	424
35°	801	800	803	806	809	501
45°	662	662	665	668	672	511
55°	509	508	512	515	520	455
65°	347	346	348	351	355	343
75°	181	180	181	182	185	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°	1062.4	1062.4	1062.4	1062.4	1062.4
2.5°	1060.6	1062.4	1060.2	1060.6	1062.6
5°	1055.6	1057.5	1056.4	1056.7	1057.8
7.5°	1048.5	1051.2	1049.6	1050.1	1051.2
10°	1040.2	1042.1	1040.4	1041.5	1043.5
12.5°	1028.3	1029.2	1028.3	1028.7	1030.9
15°	1011.8	1012.9	1012.4	1013.3	1015.3
17.5°	992.4	993.8	993.5	995.3	996.8
20°	971.5	971.8	972.6	974.4	976.2
22.5°	946.9	947.6	948.4	950.9	952.6
25°	920.1	921.2	922.3	924.7	926.4
27.5°	891.7	892.8	894.3	897.0	899.8
30°	862.7	862.7	865.5	868.2	870.8
32.5°	833.4	832.3	834.9	838.2	844.6
35°	801.1	800.2	803.1	806.1	809.4
37.5°	767.4	766.8	770.1	773.4	776.4
40°	733.3	732.4	735.7	739.0	742.3
42.5°	698.4	697.9	701.0	704.3	707.8
45°	662.1	661.8	664.9	668.2	671.7
47.5°	625.1	624.7	627.7	631.3	634.3
50°	587.3	586.8	589.9	593.4	596.7
52.5°	548.3	548.3	551.2	554.3	559.3
55°	509.2	508.5	511.6	515.1	520.0
57.5°	469.6	468.7	471.6	475.1	479.5
60°	429.1	428.3	430.9	434.4	440.6
62.5°	388.2	386.9	389.5	392.8	396.6
65°	346.9	345.5	348.0	351.0	354.6
67.5°	305.3	303.8	306.2	308.8	312.1
70°	263.5	262.0	263.7	266.4	269.4
72.5°	221.9	220.4	221.9	223.0	226.8
75°	181.2	179.7	180.6	181.5	184.8
77.5°	141.7	140.1	141.9	142.3	144.3
80°	104.5	102.9	104.0	104.3	105.8
82.5°	70.6	69.3	70.8	69.7	71.0
85°	40.7	39.6	40.0	39.6	40.3
87.5°	16.1	15.2	15.4	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)