

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: P835023

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-5HI-40-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835023
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-LD4-5HI-40-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

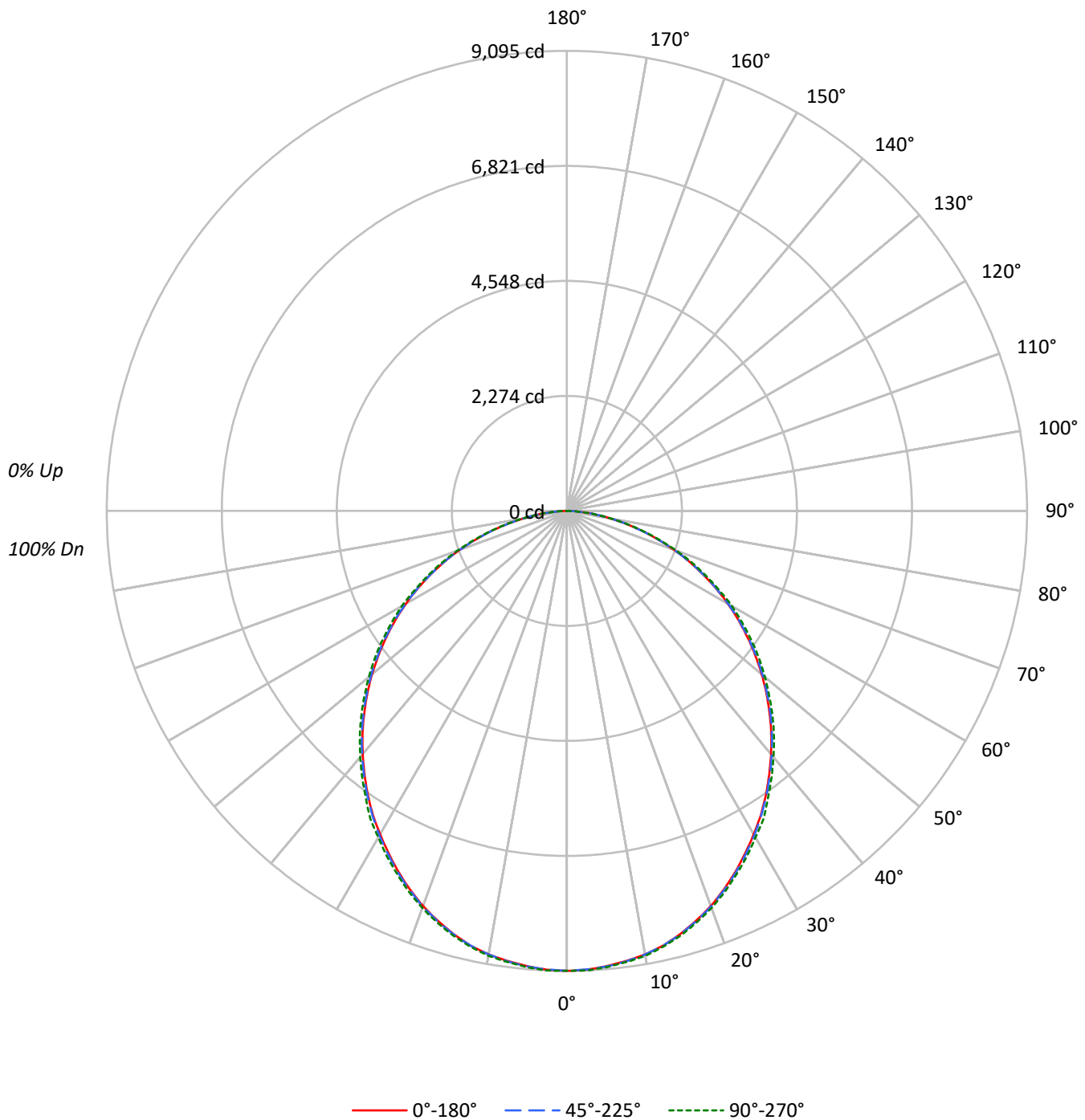
Lumens per Lamp: N/A
Luminaire Lumens: 24569.7 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 220
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°	12234	12234	12234
5°	12202	12212	12228
10°	12163	12166	12202
15°	12063	12070	12105
20°	11906	11920	11963
25°	11691	11719	11772
30°	11471	11509	11579
35°	11262	11290	11379
40°	11024	11060	11160
45°	10782	10829	10940
50°	10521	10569	10691
55°	10223	10272	10440
60°	9884	9924	10147
65°	9452	9482	9662
70°	8872	8880	9072
75°	8064	8035	8221
80°	6929	6900	7016
85°	5377	5289	5318

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	859.2	3.5
10°-20°	2444.1	9.9
20°-30°	3638.6	14.8
30°-40°	4302.9	17.5
40°-50°	4392.7	17.9
50°-60°	3920.2	16.0
60°-70°	2952.7	12.0
70°-80°	1646.7	6.7
80°-90°	412.5	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°	6941.9	28.3
0°-40°	11244.8	45.8
0°-60°	19557.8	79.6
0°-90°	24569.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24569.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9093	9093	9093	9093	9093	
5°	9034	9051	9042	9044	9053	858
15°	8660	8669	8665	8673	8690	2441
25°	7875	7884	7894	7914	7929	3628
35°	6856	6849	6873	6900	6928	4288
45°	5666	5665	5691	5719	5749	4371
55°	4358	4352	4379	4409	4450	3896
65°	2969	2958	2978	3005	3035	2936
75°	1551	1538	1546	1553	1581	1644
85°	348	339	343	339	344	418
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9092.8	9092.8	9092.8	9092.8	9092.8
2.5°	9077.7	9092.8	9073.9	9077.7	9094.6
5°	9034.4	9051.3	9041.9	9043.8	9053.2
7.5°	8974.2	8996.8	8983.6	8987.3	8996.8
10°	8902.6	8919.6	8904.5	8913.9	8930.9
12.5°	8801.0	8808.5	8801.0	8804.7	8823.6
15°	8659.8	8669.2	8665.4	8673.0	8689.9
17.5°	8494.1	8505.4	8503.5	8518.6	8531.8
20°	8315.3	8317.1	8324.7	8339.7	8354.8
22.5°	8104.4	8110.1	8117.6	8138.3	8153.4
25°	7874.7	7884.2	7893.6	7914.3	7929.3
27.5°	7631.9	7641.3	7654.5	7677.1	7701.6
30°	7383.4	7383.4	7407.9	7430.5	7453.1
32.5°	7133.0	7123.6	7146.2	7174.4	7229.0
35°	6856.3	6848.8	6873.2	6899.6	6927.8
37.5°	6568.3	6562.6	6590.8	6619.1	6645.4
40°	6276.5	6268.9	6297.2	6325.4	6353.6
42.5°	5977.1	5973.4	5999.7	6028.0	6058.1
45°	5666.5	5664.6	5691.0	5719.2	5749.3
47.5°	5350.2	5346.5	5372.8	5402.9	5429.3
50°	5026.4	5022.7	5049.0	5079.1	5107.4
52.5°	4693.2	4693.2	4717.7	4744.1	4787.3
55°	4358.1	4352.5	4378.8	4409.0	4450.4
57.5°	4019.3	4011.7	4036.2	4066.3	4104.0
60°	3672.9	3665.3	3687.9	3718.1	3770.8
62.5°	3322.7	3311.4	3334.0	3362.3	3394.3
65°	2968.8	2957.5	2978.2	3004.6	3034.7
67.5°	2613.0	2599.8	2620.5	2643.1	2671.4
70°	2255.3	2242.1	2257.2	2279.8	2306.1
72.5°	1899.5	1886.3	1899.5	1908.9	1940.9
75°	1551.2	1538.1	1545.6	1553.1	1581.4
77.5°	1212.4	1199.2	1214.3	1218.0	1235.0
80°	894.2	881.0	890.5	892.3	905.5
82.5°	604.3	593.0	606.2	596.8	608.1
85°	348.3	338.9	342.6	338.9	344.5
87.5°	137.4	129.9	131.8	124.2	124.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)