

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: P835017

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-3HI-40-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835017
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-LD4-3HI-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

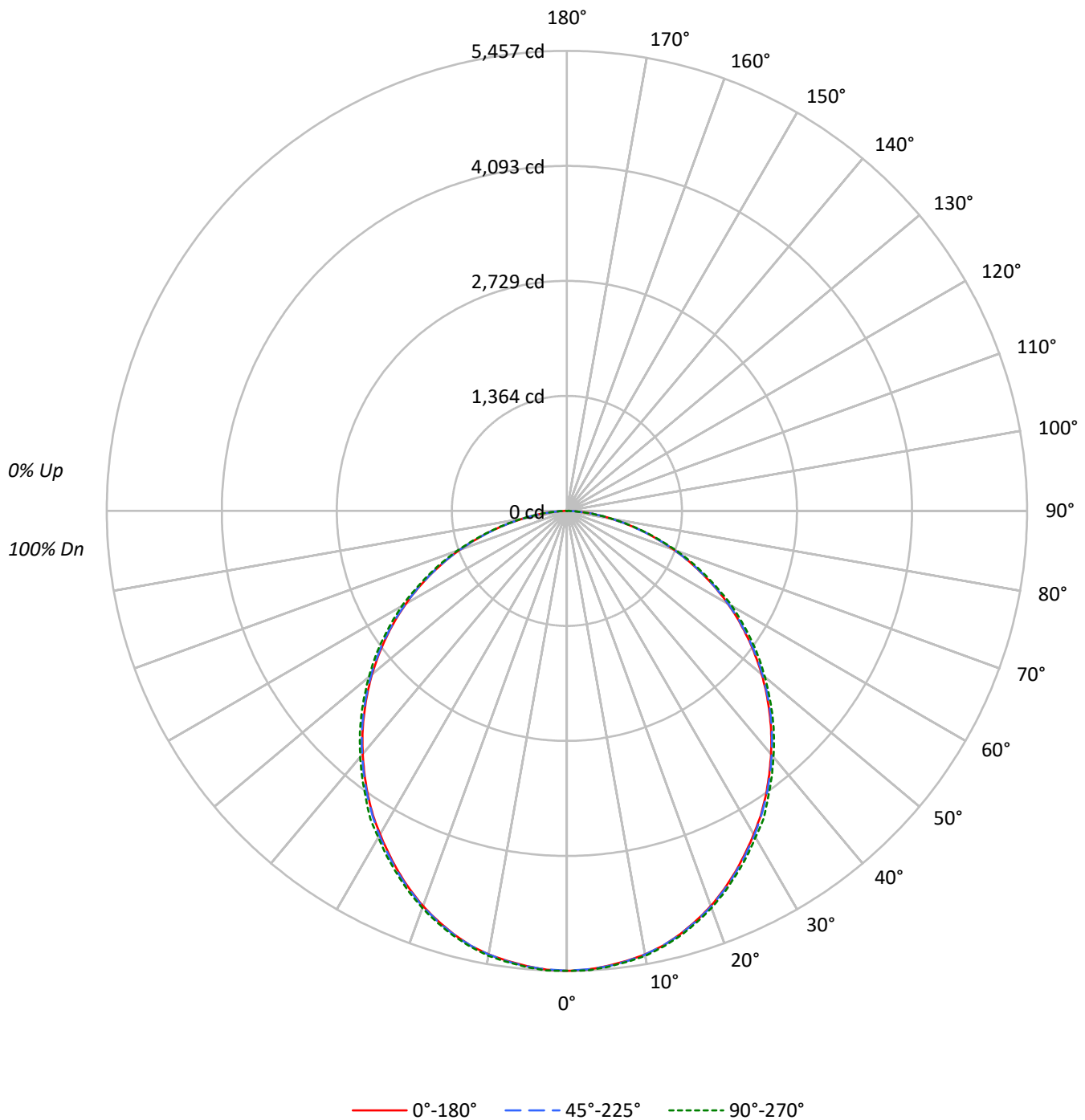
Lumens per Lamp: N/A
Luminaire Lumens: 14741.6 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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°	7340	7340	7340
5°	7321	7327	7336
10°	7298	7299	7321
15°	7238	7242	7263
20°	7144	7152	7178
25°	7014	7031	7063
30°	6883	6905	6948
35°	6757	6774	6827
40°	6614	6636	6696
45°	6469	6497	6564
50°	6313	6341	6414
55°	6134	6163	6264
60°	5930	5954	6088
65°	5671	5689	5797
70°	5323	5328	5443
75°	4838	4821	4932
80°	4157	4140	4210
85°	3226	3174	3191

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.5	3.5
10°-20°	1466.5	9.9
20°-30°	2183.1	14.8
30°-40°	2581.7	17.5
40°-50°	2635.6	17.9
50°-60°	2352.1	16.0
60°-70°	1771.6	12.0
70°-80°	988.0	6.7
80°-90°	247.5	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°	4165.1	28.3
0°-40°	6746.8	45.8
0°-60°	11734.5	79.6
0°-90°	14741.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14741.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5456	5456	5456	5456	5456	
5°	5421	5431	5425	5426	5432	515
15°	5196	5201	5199	5204	5214	1464
25°	4725	4730	4736	4748	4758	2177
35°	4114	4109	4124	4140	4157	2572
45°	3400	3399	3414	3432	3450	2623
55°	2615	2612	2627	2645	2670	2337
65°	1781	1774	1787	1803	1821	1762
75°	931	923	927	932	949	987
85°	209	203	206	203	207	251
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5455.6	5455.6	5455.6	5455.6	5455.6
2.5°	5446.6	5455.6	5444.3	5446.6	5456.7
5°	5420.6	5430.7	5425.1	5426.2	5431.9
7.5°	5384.4	5398.0	5390.1	5392.3	5398.0
10°	5341.5	5351.7	5342.6	5348.3	5358.4
12.5°	5280.5	5285.0	5280.5	5282.8	5294.1
15°	5195.8	5201.4	5199.2	5203.7	5213.9
17.5°	5096.4	5103.2	5102.0	5111.1	5119.0
20°	4989.1	4990.2	4994.7	5003.8	5012.8
22.5°	4862.6	4866.0	4870.5	4882.9	4892.0
25°	4724.8	4730.4	4736.1	4748.5	4757.5
27.5°	4579.1	4584.7	4592.6	4606.2	4620.9
30°	4430.0	4430.0	4444.7	4458.2	4471.8
32.5°	4279.8	4274.1	4287.7	4304.6	4337.4
35°	4113.7	4109.2	4123.9	4139.7	4156.6
37.5°	3940.9	3937.5	3954.5	3971.4	3987.2
40°	3765.8	3761.3	3778.2	3795.2	3812.1
42.5°	3586.2	3584.0	3599.8	3616.7	3634.8
45°	3399.9	3398.7	3414.5	3431.5	3449.6
47.5°	3210.1	3207.8	3223.7	3241.7	3257.5
50°	3015.8	3013.6	3029.4	3047.4	3064.4
52.5°	2815.9	2815.9	2830.6	2846.4	2872.4
55°	2614.8	2611.5	2627.3	2645.3	2670.2
57.5°	2411.5	2407.0	2421.7	2439.8	2462.4
60°	2203.7	2199.2	2212.7	2230.8	2262.4
62.5°	1993.6	1986.8	2000.4	2017.3	2036.5
65°	1781.3	1774.5	1786.9	1802.7	1820.8
67.5°	1567.8	1559.9	1572.3	1585.8	1602.8
70°	1353.2	1345.3	1354.3	1367.9	1383.7
72.5°	1139.7	1131.8	1139.7	1145.3	1164.5
75°	930.7	922.8	927.3	931.9	948.8
77.5°	727.4	719.5	728.5	730.8	741.0
80°	536.5	528.6	534.3	535.4	543.3
82.5°	362.6	355.8	363.7	358.1	364.8
85°	209.0	203.3	205.6	203.3	206.7
87.5°	82.5	77.9	79.1	74.5	74.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)