

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: P834972

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-6HI-27-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834972
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-LD4-6HI-27-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

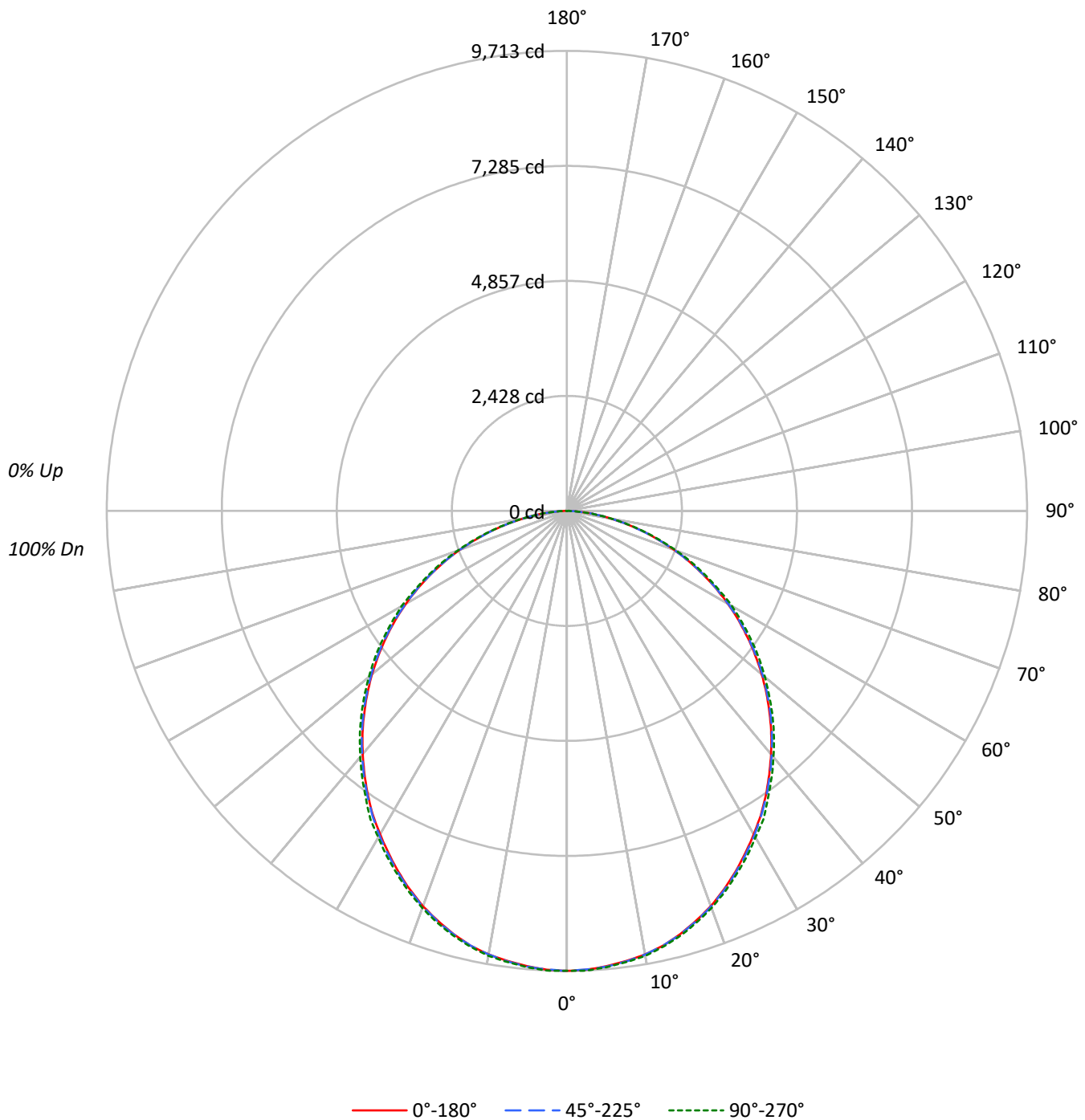
Lumens per Lamp: N/A
Luminaire Lumens: 26240.0 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 264
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°	13066	13066	13066
5°	13032	13043	13059
10°	12990	12993	13031
15°	12883	12891	12928
20°	12716	12730	12776
25°	12485	12515	12572
30°	12251	12292	12367
35°	12027	12057	12153
40°	11774	11812	11918
45°	11515	11565	11684
50°	11237	11287	11418
55°	10918	10970	11149
60°	10556	10599	10837
65°	10094	10126	10318
70°	9475	9483	9689
75°	8612	8581	8780
80°	7400	7369	7493
85°	5743	5649	5680



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	917.6	3.5
10°-20°	2610.3	9.9
20°-30°	3885.9	14.8
30°-40°	4595.5	17.5
40°-50°	4691.3	17.9
50°-60°	4186.8	16.0
60°-70°	3153.4	12.0
70°-80°	1758.6	6.7
80°-90°	440.6	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°	7413.9	28.3
0°-40°	12009.3	45.8
0°-60°	20887.4	79.6
0°-90°	26240.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26240.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9711	9711	9711	9711	9711	
5°	9649	9667	9657	9659	9669	917
15°	9248	9259	9255	9263	9281	2607
25°	8410	8420	8430	8452	8468	3874
35°	7322	7314	7340	7369	7399	4579
45°	6052	6050	6078	6108	6140	4668
55°	4654	4648	4676	4709	4753	4160
65°	3171	3159	3181	3209	3241	3136
75°	1657	1643	1651	1659	1689	1756
85°	372	362	366	362	368	447
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9710.9	9710.9	9710.9	9710.9	9710.9
2.5°	9694.9	9710.9	9690.8	9694.9	9713.0
5°	9648.6	9666.7	9656.7	9658.7	9668.7
7.5°	9584.3	9608.4	9594.3	9598.4	9608.4
10°	9507.9	9526.0	9509.9	9519.9	9538.0
12.5°	9399.3	9407.4	9399.3	9403.3	9423.4
15°	9248.5	9258.6	9254.6	9262.6	9280.7
17.5°	9071.6	9083.7	9081.6	9097.7	9111.8
20°	8880.6	8882.6	8890.6	8906.7	8922.8
22.5°	8655.4	8661.4	8669.5	8691.6	8707.7
25°	8410.1	8420.2	8430.2	8452.3	8468.4
27.5°	8150.8	8160.8	8174.9	8199.0	8225.2
30°	7885.4	7885.4	7911.5	7935.6	7959.8
32.5°	7618.0	7607.9	7632.0	7662.2	7720.5
35°	7322.4	7314.4	7340.5	7368.7	7398.8
37.5°	7014.8	7008.8	7038.9	7069.1	7097.2
40°	6703.2	6695.1	6725.3	6755.4	6785.6
42.5°	6383.5	6379.5	6407.6	6437.8	6469.9
45°	6051.7	6049.7	6077.9	6108.0	6140.2
47.5°	5714.0	5710.0	5738.1	5770.3	5798.4
50°	5368.2	5364.1	5392.3	5424.5	5454.6
52.5°	5012.3	5012.3	5038.4	5066.6	5112.8
55°	4654.4	4648.4	4676.5	4708.7	4752.9
57.5°	4292.5	4284.5	4310.6	4342.8	4383.0
60°	3922.6	3914.5	3938.7	3970.8	4027.1
62.5°	3548.6	3536.6	3560.7	3590.8	3625.0
65°	3170.6	3158.6	3180.7	3208.8	3241.0
67.5°	2790.6	2776.6	2798.7	2822.8	2853.0
70°	2408.6	2394.6	2410.6	2434.8	2462.9
72.5°	2028.6	2014.6	2028.6	2038.7	2072.9
75°	1656.7	1642.6	1650.7	1658.7	1688.9
77.5°	1294.8	1280.7	1296.8	1300.8	1318.9
80°	955.0	940.9	951.0	953.0	967.1
82.5°	645.4	633.3	647.4	637.3	649.4
85°	372.0	361.9	365.9	361.9	367.9
87.5°	146.8	138.7	140.7	132.7	132.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)