

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: P835711

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-1LO-27-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835711
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-LD4-1LO-27-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

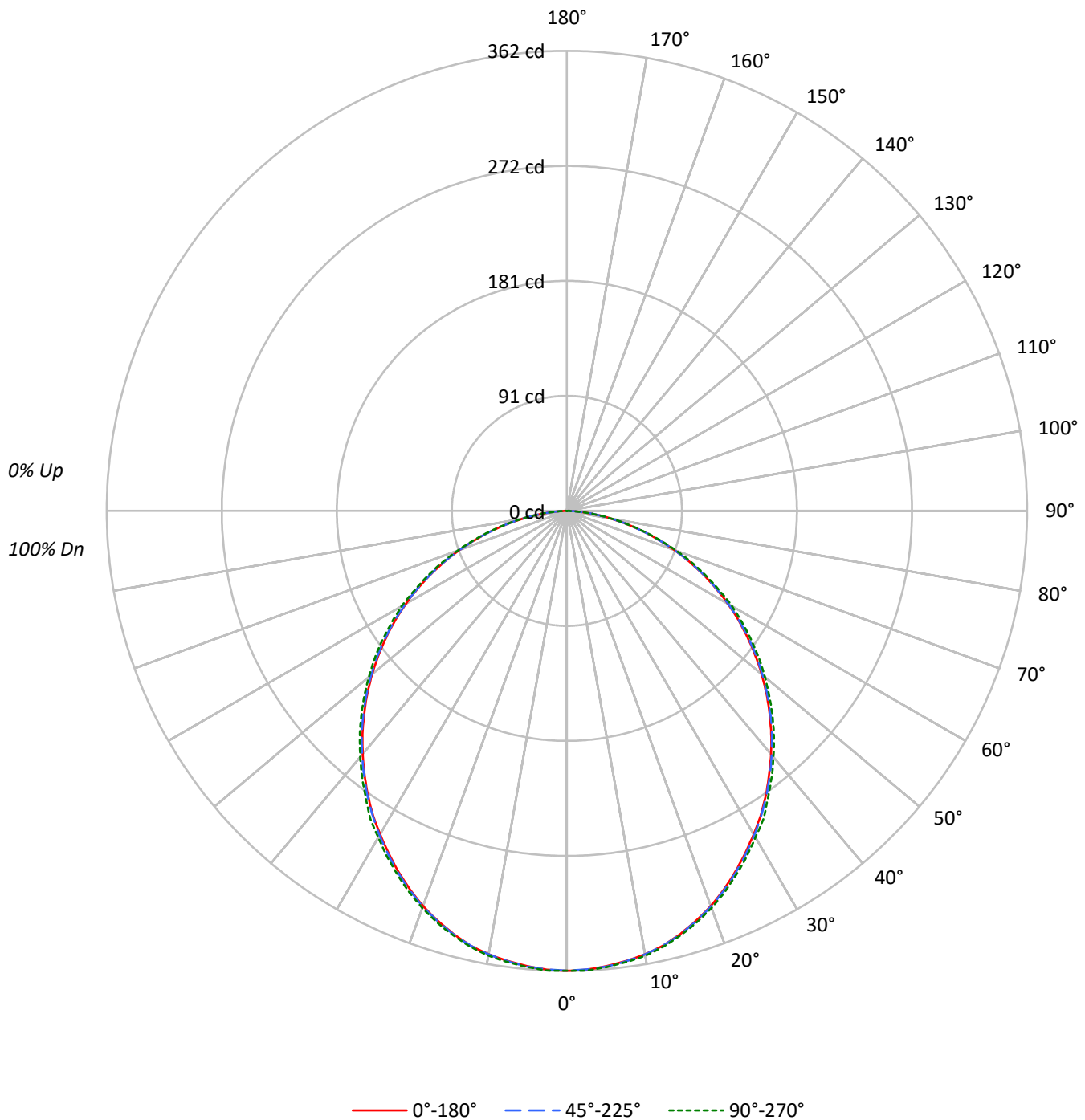
Lumens per Lamp: N/A
Luminaire Lumens: 977.8 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59		
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51		
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44		
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38		
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	974	974	974
5°	971	972	973
10°	968	968	971
15°	960	961	963
20°	948	949	952
25°	931	933	937
30°	913	916	922
35°	896	898	906
40°	878	880	888
45°	858	862	871
50°	837	841	851
55°	814	818	831
60°	787	790	808
65°	753	755	769
70°	707	707	722
75°	642	639	654
80°	552	549	558
85°	429	420	423

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.2	3.5
10°-20°	97.3	9.9
20°-30°	144.8	14.8
30°-40°	171.2	17.5
40°-50°	174.8	17.9
50°-60°	156.0	16.0
60°-70°	117.5	12.0
70°-80°	65.5	6.7
80°-90°	16.4	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°	276.3	28.3
0°-40°	447.5	45.8
0°-60°	778.4	79.6
0°-90°	977.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	977.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	362	362	362	362	362	
5°	360	360	360	360	360	34
15°	345	345	345	345	346	97
25°	313	314	314	315	316	144
35°	273	273	274	275	276	171
45°	226	225	226	228	229	174
55°	173	173	174	176	177	155
65°	118	118	118	120	121	117
75°	62	61	62	62	63	65
85°	14	14	14	14	14	17
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	361.9	361.9	361.9	361.9	361.9
2.5°	361.3	361.9	361.1	361.3	362.0
5°	359.6	360.2	359.9	359.9	360.3
7.5°	357.2	358.1	357.5	357.7	358.1
10°	354.3	355.0	354.4	354.8	355.4
12.5°	350.3	350.6	350.3	350.4	351.2
15°	344.6	345.0	344.9	345.2	345.8
17.5°	338.1	338.5	338.4	339.0	339.6
20°	330.9	331.0	331.3	331.9	332.5
22.5°	322.5	322.8	323.1	323.9	324.5
25°	313.4	313.8	314.2	315.0	315.6
27.5°	303.7	304.1	304.6	305.5	306.5
30°	293.8	293.8	294.8	295.7	296.6
32.5°	283.9	283.5	284.4	285.5	287.7
35°	272.9	272.6	273.5	274.6	275.7
37.5°	261.4	261.2	262.3	263.4	264.5
40°	249.8	249.5	250.6	251.7	252.9
42.5°	237.9	237.7	238.8	239.9	241.1
45°	225.5	225.4	226.5	227.6	228.8
47.5°	212.9	212.8	213.8	215.0	216.1
50°	200.0	199.9	200.9	202.1	203.3
52.5°	186.8	186.8	187.8	188.8	190.5
55°	173.4	173.2	174.3	175.5	177.1
57.5°	160.0	159.7	160.6	161.8	163.3
60°	146.2	145.9	146.8	148.0	150.1
62.5°	132.2	131.8	132.7	133.8	135.1
65°	118.2	117.7	118.5	119.6	120.8
67.5°	104.0	103.5	104.3	105.2	106.3
70°	89.8	89.2	89.8	90.7	91.8
72.5°	75.6	75.1	75.6	76.0	77.2
75°	61.7	61.2	61.5	61.8	62.9
77.5°	48.3	47.7	48.3	48.5	49.1
80°	35.6	35.1	35.4	35.5	36.0
82.5°	24.1	23.6	24.1	23.8	24.2
85°	13.9	13.5	13.6	13.5	13.7
87.5°	5.5	5.2	5.2	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)