

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: P835768

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-2LO-40-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835768
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-LD4-2LO-40-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

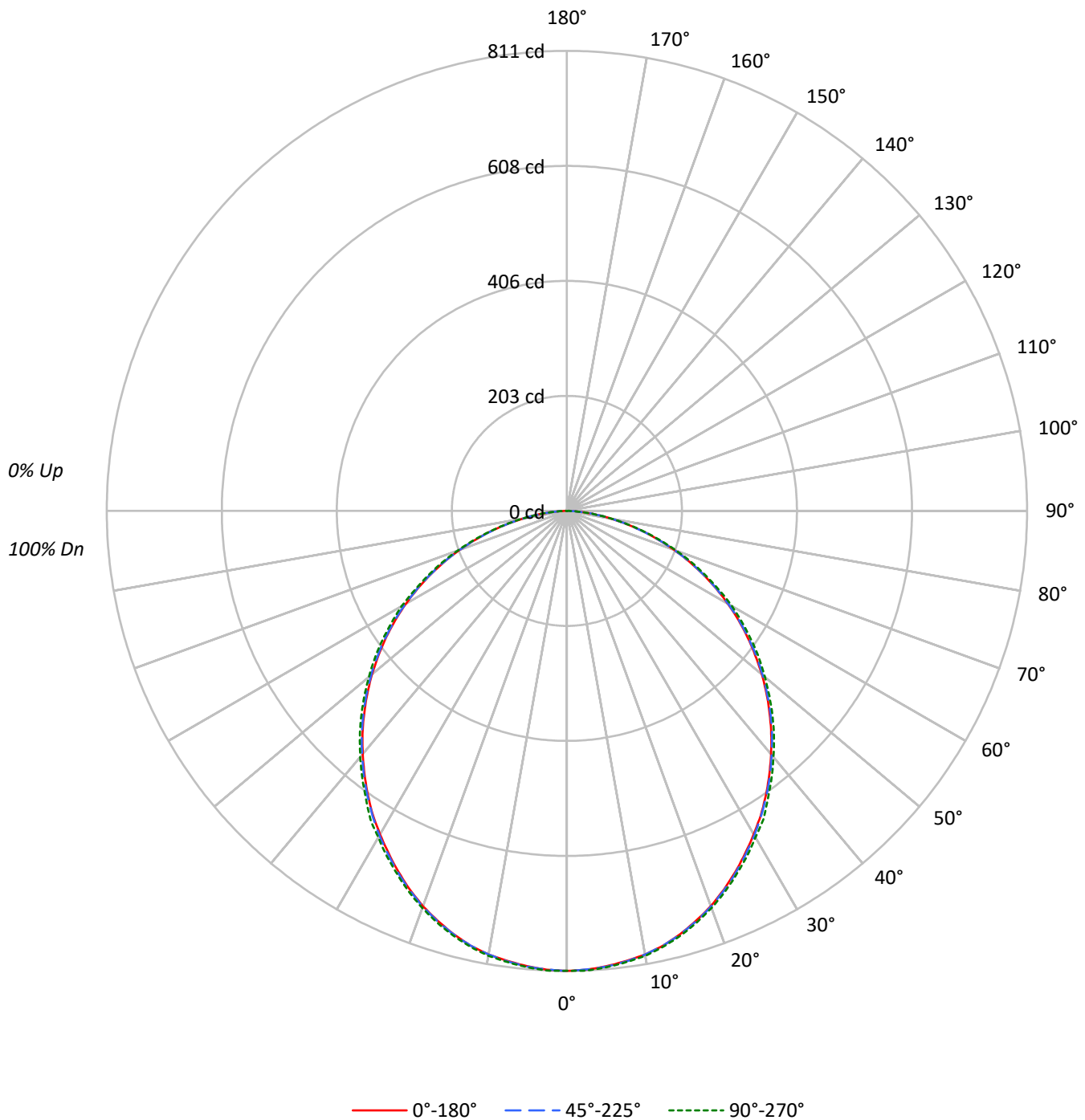
Lumens per Lamp: N/A
Luminaire Lumens: 2191.2 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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

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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	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2182	2182	2182
5°	2176	2178	2181
10°	2170	2170	2176
15°	2152	2153	2159
20°	2124	2126	2134
25°	2085	2090	2100
30°	2046	2053	2065
35°	2009	2014	2030
40°	1966	1973	1990
45°	1923	1931	1951
50°	1877	1885	1907
55°	1824	1832	1862
60°	1763	1770	1810
65°	1686	1691	1723
70°	1582	1584	1618
75°	1438	1433	1466
80°	1235	1230	1252
85°	960	945	948

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.6	3.5
10°-20°	218.0	9.9
20°-30°	324.5	14.8
30°-40°	383.7	17.5
40°-50°	391.7	17.9
50°-60°	349.6	16.0
60°-70°	263.3	12.0
70°-80°	146.8	6.7
80°-90°	36.8	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°	619.1	28.3
0°-40°	1002.8	45.8
0°-60°	1744.2	79.6
0°-90°	2191.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2191.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	811	811	811	811	811	
5°	806	807	806	806	807	77
15°	772	773	773	774	775	218
25°	702	703	704	706	707	324
35°	612	611	613	615	618	382
45°	505	505	508	510	513	390
55°	389	388	390	393	397	347
65°	265	264	266	268	271	262
75°	138	137	138	138	141	147
85°	31	30	31	30	31	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	810.9	810.9	810.9	810.9	810.9
2.5°	809.6	810.9	809.2	809.6	811.1
5°	805.7	807.2	806.4	806.5	807.4
7.5°	800.3	802.3	801.2	801.5	802.3
10°	794.0	795.5	794.1	795.0	796.5
12.5°	784.9	785.6	784.9	785.2	786.9
15°	772.3	773.1	772.8	773.5	775.0
17.5°	757.5	758.5	758.4	759.7	760.9
20°	741.6	741.7	742.4	743.8	745.1
22.5°	722.8	723.3	723.9	725.8	727.1
25°	702.3	703.1	704.0	705.8	707.2
27.5°	680.6	681.5	682.6	684.7	686.8
30°	658.5	658.5	660.6	662.7	664.7
32.5°	636.1	635.3	637.3	639.8	644.7
35°	611.5	610.8	613.0	615.3	617.8
37.5°	585.8	585.3	587.8	590.3	592.7
40°	559.7	559.1	561.6	564.1	566.6
42.5°	533.0	532.7	535.1	537.6	540.3
45°	505.3	505.2	507.5	510.0	512.7
47.5°	477.1	476.8	479.2	481.8	484.2
50°	448.3	447.9	450.3	453.0	455.5
52.5°	418.5	418.5	420.7	423.1	426.9
55°	388.7	388.2	390.5	393.2	396.9
57.5°	358.4	357.8	360.0	362.6	366.0
60°	327.6	326.9	328.9	331.6	336.3
62.5°	296.3	295.3	297.3	299.9	302.7
65°	264.8	263.8	265.6	268.0	270.6
67.5°	233.0	231.9	233.7	235.7	238.2
70°	201.1	200.0	201.3	203.3	205.7
72.5°	169.4	168.2	169.4	170.2	173.1
75°	138.3	137.2	137.8	138.5	141.0
77.5°	108.1	106.9	108.3	108.6	110.1
80°	79.7	78.6	79.4	79.6	80.8
82.5°	53.9	52.9	54.1	53.2	54.2
85°	31.1	30.2	30.6	30.2	30.7
87.5°	12.3	11.6	11.8	11.1	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)