

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: P835677

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-1HI-50-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835677
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-LD4-1HI-50-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

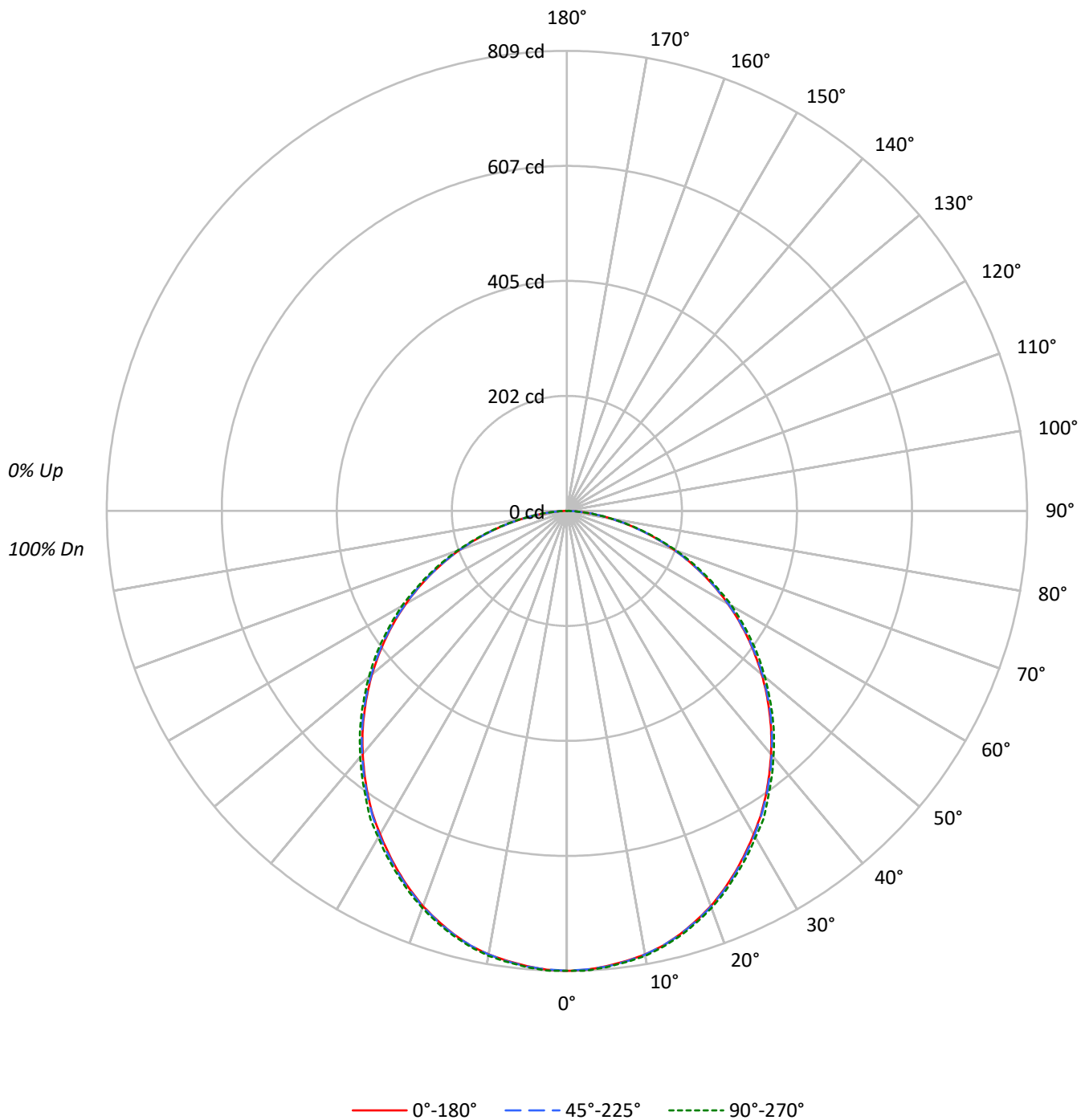
Lumens per Lamp: N/A
Luminaire Lumens: 2185.5 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 22
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°	2176	2176	2176
5°	2171	2173	2175
10°	2164	2164	2171
15°	2146	2147	2154
20°	2118	2121	2128
25°	2080	2085	2094
30°	2041	2047	2060
35°	2004	2008	2024
40°	1961	1968	1985
45°	1918	1926	1946
50°	1872	1880	1902
55°	1819	1827	1857
60°	1758	1765	1805
65°	1682	1687	1719
70°	1578	1580	1614
75°	1435	1430	1463
80°	1232	1227	1247
85°	957	942	945

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	3.5
10°-20°	217.4	9.9
20°-30°	323.7	14.8
30°-40°	382.8	17.5
40°-50°	390.7	17.9
50°-60°	348.7	16.0
60°-70°	262.7	12.0
70°-80°	146.5	6.7
80°-90°	36.7	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°	617.5	28.3
0°-40°	1000.3	45.8
0°-60°	1739.7	79.6
0°-90°	2185.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2185.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	809	809	809	809	809	
5°	804	805	804	804	805	76
15°	770	771	771	772	773	217
25°	700	701	702	704	705	323
35°	610	609	611	614	616	381
45°	504	504	506	509	511	389
55°	388	387	390	392	396	347
65°	264	263	265	267	270	261
75°	138	137	138	138	141	146
85°	31	30	30	30	31	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	808.8	808.8	808.8	808.8	808.8
2.5°	807.5	808.8	807.1	807.5	809.0
5°	803.6	805.1	804.3	804.5	805.3
7.5°	798.3	800.3	799.1	799.4	800.3
10°	791.9	793.4	792.1	792.9	794.4
12.5°	782.9	783.5	782.9	783.2	784.9
15°	770.3	771.1	770.8	771.5	773.0
17.5°	755.6	756.6	756.4	757.7	758.9
20°	739.7	739.8	740.5	741.8	743.2
22.5°	720.9	721.4	722.1	723.9	725.3
25°	700.5	701.3	702.2	704.0	705.3
27.5°	678.9	679.7	680.9	682.9	685.1
30°	656.8	656.8	658.9	661.0	663.0
32.5°	634.5	633.7	635.7	638.2	643.0
35°	609.9	609.2	611.4	613.7	616.2
37.5°	584.3	583.8	586.3	588.8	591.1
40°	558.3	557.6	560.1	562.7	565.2
42.5°	531.7	531.3	533.7	536.2	538.9
45°	504.0	503.9	506.2	508.7	511.4
47.5°	475.9	475.6	477.9	480.6	482.9
50°	447.1	446.8	449.1	451.8	454.3
52.5°	417.5	417.5	419.6	422.0	425.8
55°	387.7	387.2	389.5	392.2	395.9
57.5°	357.5	356.9	359.0	361.7	365.1
60°	326.7	326.0	328.0	330.7	335.4
62.5°	295.6	294.6	296.6	299.1	301.9
65°	264.1	263.1	264.9	267.3	269.9
67.5°	232.4	231.3	233.1	235.1	237.6
70°	200.6	199.4	200.8	202.8	205.1
72.5°	169.0	167.8	169.0	169.8	172.6
75°	138.0	136.8	137.5	138.2	140.7
77.5°	107.8	106.7	108.0	108.3	109.9
80°	79.5	78.4	79.2	79.4	80.5
82.5°	53.8	52.7	53.9	53.1	54.1
85°	31.0	30.1	30.5	30.1	30.6
87.5°	12.2	11.6	11.7	11.1	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)