

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: P834460

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-1LO-27-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834460
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-OPL-LD4-1LO-27-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

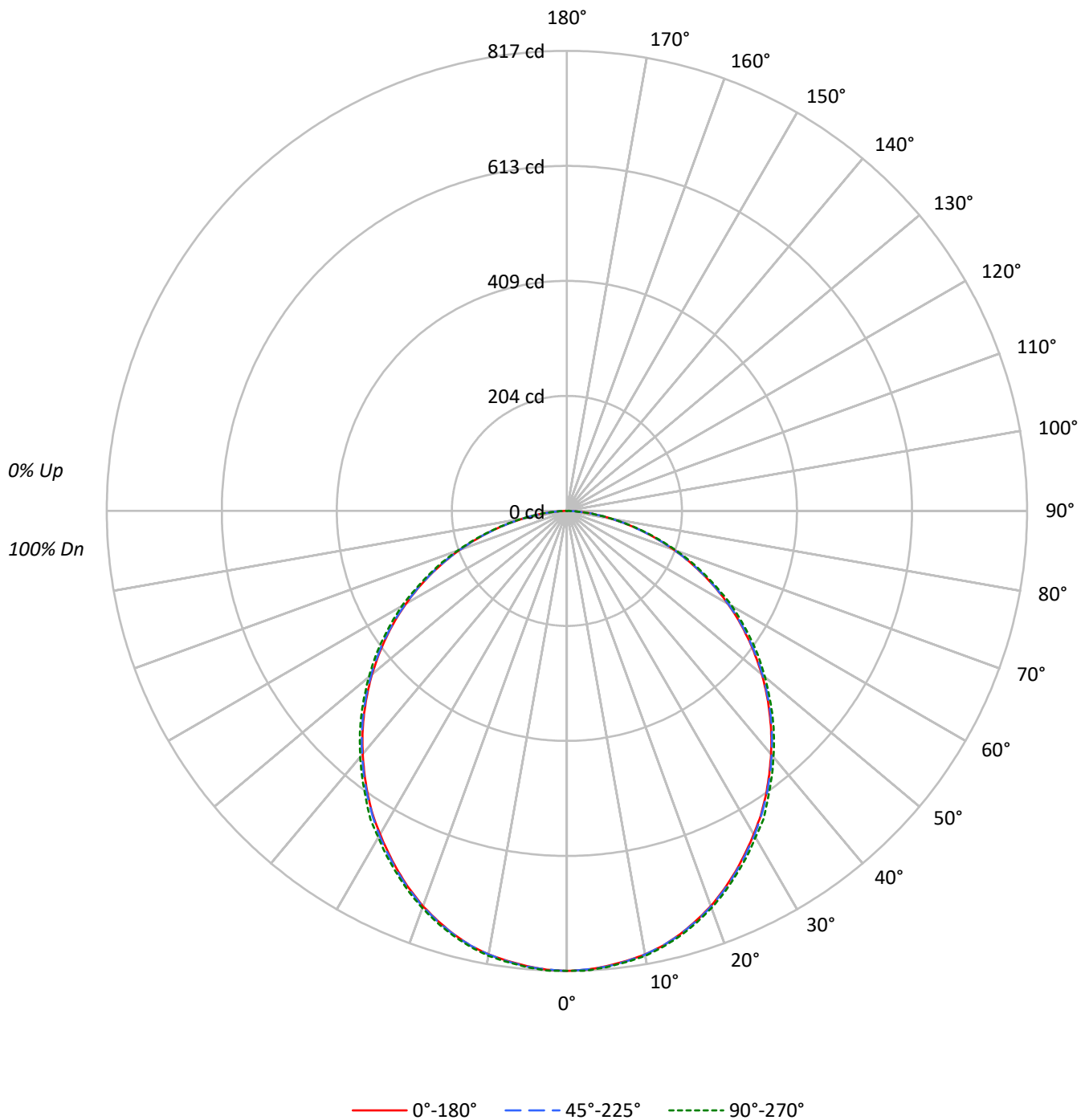
Lumens per Lamp: N/A
Luminaire Lumens: 2207.2 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

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°	2198	2198	2198
5°	2192	2194	2197
10°	2185	2186	2192
15°	2167	2169	2175
20°	2139	2142	2149
25°	2100	2105	2115
30°	2061	2068	2080
35°	2023	2029	2045
40°	1981	1987	2005
45°	1937	1946	1966
50°	1891	1899	1921
55°	1837	1846	1876
60°	1776	1783	1823
65°	1698	1703	1736
70°	1594	1596	1630
75°	1449	1443	1477
80°	1244	1240	1260
85°	966	951	954

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	3.5
10°-20°	219.6	9.9
20°-30°	326.9	14.8
30°-40°	386.6	17.5
40°-50°	394.6	17.9
50°-60°	352.2	16.0
60°-70°	265.2	12.0
70°-80°	147.9	6.7
80°-90°	37.1	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°	623.6	28.3
0°-40°	1010.2	45.8
0°-60°	1757.0	79.6
0°-90°	2207.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2207.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	817	817	817	817	817	
5°	812	813	812	812	813	77
15°	778	779	778	779	781	219
25°	707	708	709	711	712	326
35°	616	615	618	620	622	385
45°	509	509	511	514	516	393
55°	392	391	393	396	400	350
65°	267	266	268	270	273	264
75°	139	138	139	140	142	148
85°	31	30	31	30	31	38
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	816.9	816.9	816.9	816.9	816.9
2.5°	815.5	816.9	815.2	815.5	817.0
5°	811.6	813.1	812.3	812.5	813.3
7.5°	806.2	808.2	807.0	807.4	808.2
10°	799.8	801.3	799.9	800.8	802.3
12.5°	790.6	791.3	790.6	791.0	792.7
15°	778.0	778.8	778.5	779.1	780.7
17.5°	763.1	764.1	763.9	765.3	766.5
20°	747.0	747.2	747.9	749.2	750.6
22.5°	728.1	728.6	729.2	731.1	732.5
25°	707.4	708.3	709.1	711.0	712.3
27.5°	685.6	686.5	687.6	689.7	691.9
30°	663.3	663.3	665.5	667.5	669.5
32.5°	640.8	640.0	642.0	644.5	649.4
35°	615.9	615.3	617.5	619.8	622.4
37.5°	590.1	589.6	592.1	594.6	597.0
40°	563.8	563.2	565.7	568.2	570.8
42.5°	537.0	536.6	539.0	541.5	544.2
45°	509.1	508.9	511.3	513.8	516.5
47.5°	480.6	480.3	482.7	485.4	487.7
50°	451.6	451.2	453.6	456.3	458.8
52.5°	421.6	421.6	423.8	426.2	430.1
55°	391.5	391.0	393.4	396.1	399.8
57.5°	361.1	360.4	362.6	365.3	368.7
60°	330.0	329.3	331.3	334.0	338.7
62.5°	298.5	297.5	299.5	302.0	304.9
65°	266.7	265.7	267.5	269.9	272.6
67.5°	234.7	233.6	235.4	237.4	240.0
70°	202.6	201.4	202.8	204.8	207.2
72.5°	170.6	169.5	170.6	171.5	174.4
75°	139.4	138.2	138.8	139.5	142.1
77.5°	108.9	107.7	109.1	109.4	110.9
80°	80.3	79.1	80.0	80.2	81.3
82.5°	54.3	53.3	54.5	53.6	54.6
85°	31.3	30.4	30.8	30.4	30.9
87.5°	12.3	11.7	11.8	11.2	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)