

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: P834436

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-2LO-40-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834436
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-LD4-2LO-40-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

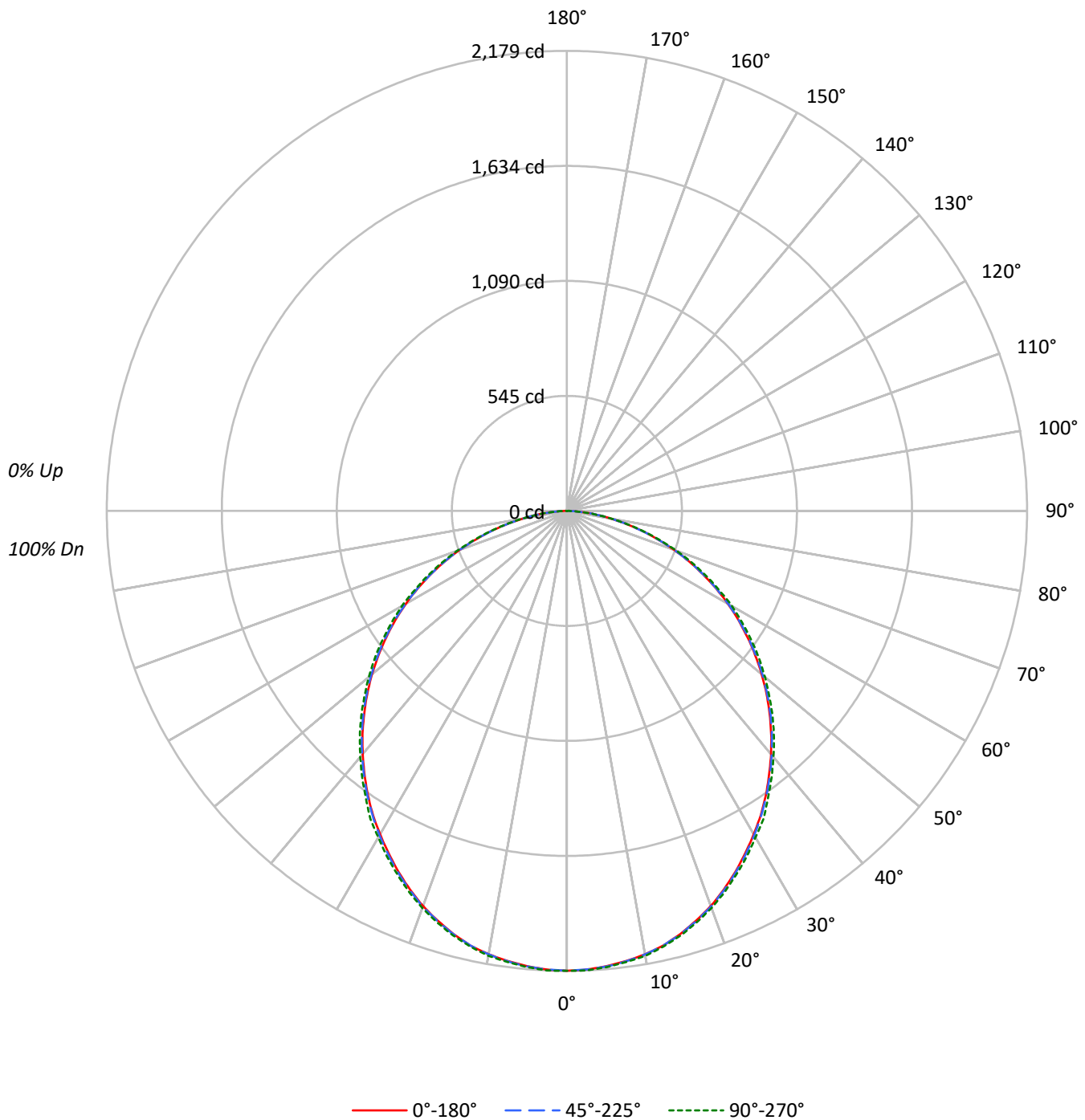
Lumens per Lamp: N/A
Luminaire Lumens: 5886.0 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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

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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	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5862	5862	5862
5°	5846	5851	5858
10°	5828	5829	5846
15°	5779	5783	5800
20°	5704	5711	5732
25°	5601	5615	5640
30°	5496	5514	5548
35°	5396	5409	5452
40°	5282	5299	5347
45°	5166	5188	5241
50°	5041	5064	5122
55°	4898	4921	5002
60°	4736	4755	4862
65°	4528	4543	4629
70°	4251	4254	4347
75°	3864	3850	3938
80°	3319	3305	3361
85°	2575	2535	2547

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.8	3.5
10°-20°	585.5	9.9
20°-30°	871.7	14.8
30°-40°	1030.8	17.5
40°-50°	1052.3	17.9
50°-60°	939.1	16.0
60°-70°	707.4	12.0
70°-80°	394.5	6.7
80°-90°	98.8	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°	1663.0	28.3
0°-40°	2693.8	45.8
0°-60°	4685.3	79.6
0°-90°	5886.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5886.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2178	2178	2178	2178	2178	
5°	2164	2168	2166	2167	2169	206
15°	2074	2077	2076	2078	2082	585
25°	1886	1889	1891	1896	1900	869
35°	1642	1641	1647	1653	1660	1027
45°	1358	1357	1363	1370	1377	1047
55°	1044	1043	1049	1056	1066	933
65°	711	708	714	720	727	703
75°	372	368	370	372	379	394
85°	83	81	82	81	82	100
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2178.3	2178.3	2178.3	2178.3	2178.3
2.5°	2174.7	2178.3	2173.8	2174.7	2178.7
5°	2164.3	2168.4	2166.1	2166.6	2168.8
7.5°	2149.9	2155.3	2152.1	2153.0	2155.3
10°	2132.7	2136.8	2133.2	2135.4	2139.5
12.5°	2108.4	2110.2	2108.4	2109.3	2113.8
15°	2074.5	2076.8	2075.9	2077.7	2081.8
17.5°	2034.9	2037.6	2037.1	2040.7	2043.9
20°	1992.0	1992.5	1994.3	1997.9	2001.5
22.5°	1941.5	1942.9	1944.7	1949.6	1953.2
25°	1886.5	1888.7	1891.0	1896.0	1899.6
27.5°	1828.3	1830.6	1833.7	1839.1	1845.0
30°	1768.8	1768.8	1774.6	1780.1	1785.5
32.5°	1708.8	1706.5	1712.0	1718.7	1731.8
35°	1642.5	1640.7	1646.6	1652.9	1659.6
37.5°	1573.5	1572.1	1578.9	1585.7	1592.0
40°	1503.6	1501.8	1508.6	1515.3	1522.1
42.5°	1431.9	1431.0	1437.3	1444.1	1451.3
45°	1357.5	1357.0	1363.3	1370.1	1377.3
47.5°	1281.7	1280.8	1287.1	1294.3	1300.7
50°	1204.1	1203.2	1209.6	1216.8	1223.5
52.5°	1124.3	1124.3	1130.2	1136.5	1146.9
55°	1044.0	1042.7	1049.0	1056.2	1066.1
57.5°	962.9	961.1	966.9	974.1	983.2
60°	879.9	878.1	883.5	890.7	903.3
62.5°	796.0	793.3	798.7	805.5	813.1
65°	711.2	708.5	713.5	719.8	727.0
67.5°	626.0	622.8	627.8	633.2	640.0
70°	540.3	537.1	540.7	546.1	552.5
72.5°	455.0	451.9	455.0	457.3	465.0
75°	371.6	368.5	370.3	372.1	378.8
77.5°	290.4	287.3	290.9	291.8	295.8
80°	214.2	211.1	213.3	213.8	216.9
82.5°	144.8	142.1	145.2	143.0	145.7
85°	83.4	81.2	82.1	81.2	82.5
87.5°	32.9	31.1	31.6	29.8	29.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)