

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: P834472

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-2LO-30-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834472
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-30-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

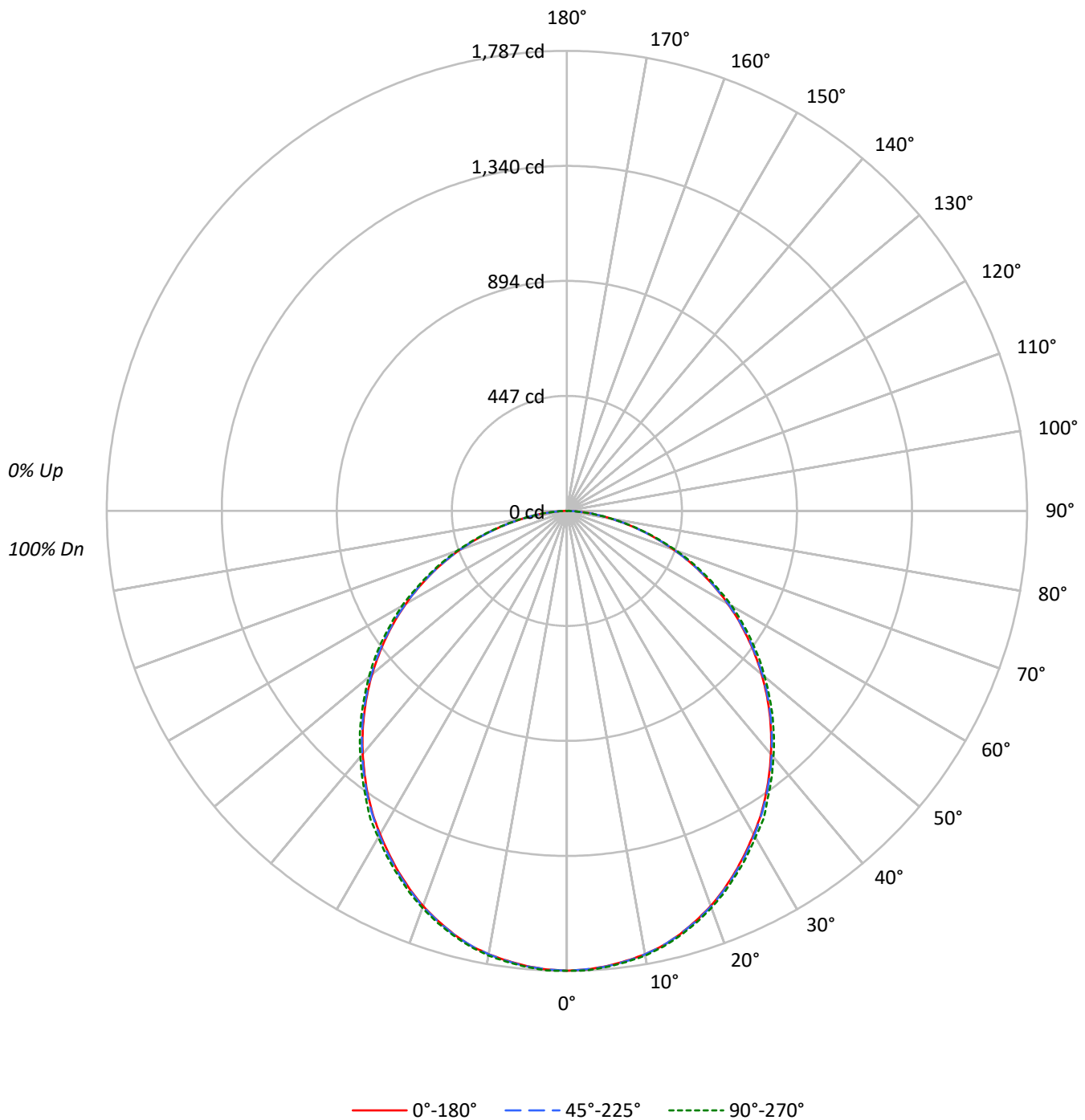
Lumens per Lamp: N/A
Luminaire Lumens: 4826.5 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

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	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4807	4807	4807
5°	4794	4798	4804
10°	4779	4780	4794
15°	4739	4742	4756
20°	4678	4683	4700
25°	4593	4604	4625
30°	4507	4522	4549
35°	4425	4436	4471
40°	4331	4345	4384
45°	4236	4254	4298
50°	4134	4152	4200
55°	4016	4036	4101
60°	3883	3899	3986
65°	3713	3725	3796
70°	3485	3489	3564
75°	3168	3157	3229
80°	2723	2710	2757
85°	2112	2078	2090

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.8	3.5
10°-20°	480.1	9.9
20°-30°	714.8	14.8
30°-40°	845.3	17.5
40°-50°	862.9	17.9
50°-60°	770.1	16.0
60°-70°	580.0	12.0
70°-80°	323.5	6.7
80°-90°	81.0	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°	1363.7	28.3
0°-40°	2208.9	45.8
0°-60°	3841.9	79.6
0°-90°	4826.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4826.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1786	1786	1786	1786	1786	
5°	1775	1778	1776	1777	1778	169
15°	1701	1703	1702	1704	1707	479
25°	1547	1549	1551	1555	1558	713
35°	1347	1345	1350	1355	1361	842
45°	1113	1113	1118	1124	1129	859
55°	856	855	860	866	874	765
65°	583	581	585	590	596	577
75°	305	302	304	305	311	323
85°	68	67	67	67	68	82
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1786.2	1786.2	1786.2	1786.2	1786.2
2.5°	1783.2	1786.2	1782.5	1783.2	1786.6
5°	1774.7	1778.1	1776.2	1776.6	1778.4
7.5°	1762.9	1767.3	1764.7	1765.5	1767.3
10°	1748.8	1752.2	1749.2	1751.1	1754.4
12.5°	1728.9	1730.3	1728.9	1729.6	1733.3
15°	1701.1	1703.0	1702.2	1703.7	1707.0
17.5°	1668.6	1670.8	1670.4	1673.4	1676.0
20°	1633.5	1633.8	1635.3	1638.3	1641.2
22.5°	1592.0	1593.1	1594.6	1598.7	1601.7
25°	1546.9	1548.8	1550.6	1554.7	1557.6
27.5°	1499.2	1501.1	1503.7	1508.1	1512.9
30°	1450.4	1450.4	1455.2	1459.6	1464.1
32.5°	1401.2	1399.4	1403.8	1409.3	1420.1
35°	1346.9	1345.4	1350.2	1355.4	1360.9
37.5°	1290.3	1289.2	1294.7	1300.3	1305.4
40°	1232.9	1231.5	1237.0	1242.6	1248.1
42.5°	1174.1	1173.4	1178.6	1184.1	1190.1
45°	1113.1	1112.8	1117.9	1123.5	1129.4
47.5°	1051.0	1050.3	1055.4	1061.4	1066.5
50°	987.4	986.7	991.8	997.7	1003.3
52.5°	921.9	921.9	926.7	931.9	940.4
55°	856.1	855.0	860.2	866.1	874.2
57.5°	789.5	788.1	792.9	798.8	806.2
60°	721.5	720.0	724.5	730.4	740.7
62.5°	652.7	650.5	654.9	660.5	666.8
65°	583.2	581.0	585.0	590.2	596.1
67.5°	513.3	510.7	514.8	519.2	524.8
70°	443.0	440.4	443.4	447.8	453.0
72.5°	373.1	370.6	373.1	375.0	381.3
75°	304.7	302.1	303.6	305.1	310.6
77.5°	238.2	235.6	238.5	239.3	242.6
80°	175.7	173.1	174.9	175.3	177.9
82.5°	118.7	116.5	119.1	117.2	119.4
85°	68.4	66.6	67.3	66.6	67.7
87.5°	27.0	25.5	25.9	24.4	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)