

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: P834417

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-1HI-30-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834417
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-LD4-1HI-30-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

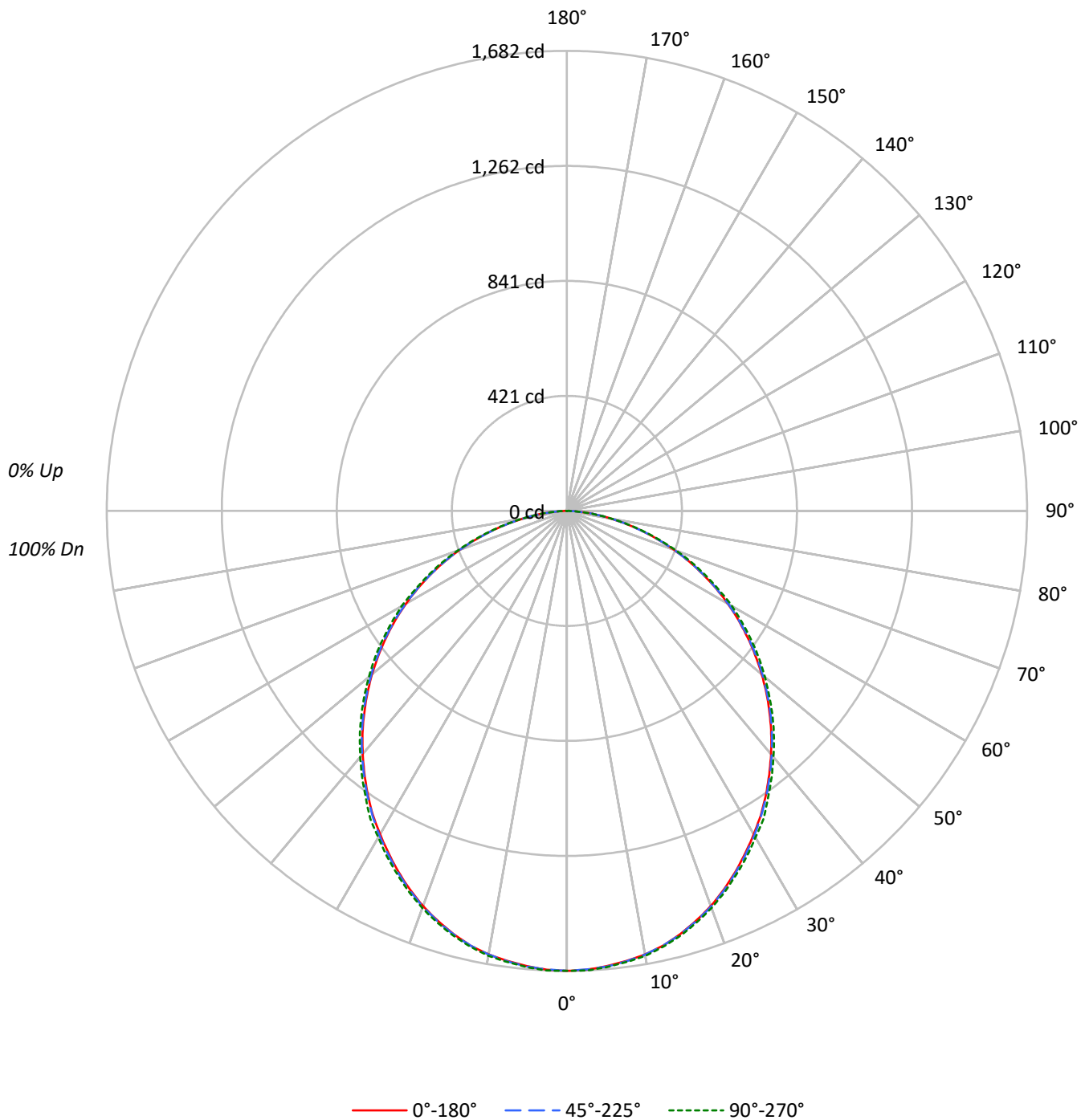
Lumens per Lamp: N/A
Luminaire Lumens: 4543.9 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		90
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51
7	65	52	43	37	64	51	43	37	49	42	36		48	41	36		47
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		40
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4525	4525	4525
5°	4513	4517	4523
10°	4499	4500	4513
15°	4462	4465	4477
20°	4404	4409	4425
25°	4324	4334	4354
30°	4243	4257	4283
35°	4165	4176	4209
40°	4078	4091	4128
45°	3988	4005	4047
50°	3892	3909	3954
55°	3781	3799	3861
60°	3656	3670	3753
65°	3496	3507	3573
70°	3282	3284	3356
75°	2983	2972	3041
80°	2563	2552	2596
85°	1988	1958	1967



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.9	3.5
10°-20°	452.0	9.9
20°-30°	672.9	14.8
30°-40°	795.8	17.5
40°-50°	812.4	17.9
50°-60°	725.0	16.0
60°-70°	546.1	12.0
70°-80°	304.5	6.7
80°-90°	76.3	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°	1283.8	28.3
0°-40°	2079.6	45.8
0°-60°	3617.0	79.6
0°-90°	4543.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4543.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1682	1682	1682	1682	1682	
5°	1671	1674	1672	1672	1674	159
15°	1602	1603	1603	1604	1607	451
25°	1456	1458	1460	1464	1466	671
35°	1268	1267	1271	1276	1281	793
45°	1048	1048	1052	1058	1063	808
55°	806	805	810	815	823	720
65°	549	547	551	556	561	543
75°	287	284	286	287	292	304
85°	64	63	63	63	64	77
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1681.6	1681.6	1681.6	1681.6	1681.6
2.5°	1678.8	1681.6	1678.1	1678.8	1681.9
5°	1670.8	1673.9	1672.2	1672.5	1674.3
7.5°	1659.7	1663.8	1661.4	1662.1	1663.8
10°	1646.4	1649.6	1646.8	1648.5	1651.7
12.5°	1627.6	1629.0	1627.6	1628.3	1631.8
15°	1601.5	1603.3	1602.6	1604.0	1607.1
17.5°	1570.9	1573.0	1572.6	1575.4	1577.8
20°	1537.8	1538.2	1539.6	1542.3	1545.1
22.5°	1498.8	1499.9	1501.3	1505.1	1507.9
25°	1456.3	1458.1	1459.8	1463.7	1466.4
27.5°	1411.4	1413.2	1415.6	1419.8	1424.3
30°	1365.5	1365.5	1370.0	1374.2	1378.4
32.5°	1319.2	1317.4	1321.6	1326.8	1336.9
35°	1268.0	1266.6	1271.1	1276.0	1281.2
37.5°	1214.7	1213.7	1218.9	1224.1	1229.0
40°	1160.8	1159.4	1164.6	1169.8	1175.0
42.5°	1105.4	1104.7	1109.6	1114.8	1120.4
45°	1048.0	1047.6	1052.5	1057.7	1063.3
47.5°	989.5	988.8	993.6	999.2	1004.1
50°	929.6	928.9	933.8	939.3	944.6
52.5°	868.0	868.0	872.5	877.4	885.4
55°	806.0	804.9	809.8	815.4	823.0
57.5°	743.3	741.9	746.4	752.0	759.0
60°	679.3	677.9	682.0	687.6	697.4
62.5°	614.5	612.4	616.6	621.8	627.7
65°	549.0	547.0	550.8	555.7	561.2
67.5°	483.2	480.8	484.6	488.8	494.0
70°	417.1	414.7	417.4	421.6	426.5
72.5°	351.3	348.9	351.3	353.0	358.9
75°	286.9	284.4	285.8	287.2	292.5
77.5°	224.2	221.8	224.6	225.3	228.4
80°	165.4	162.9	164.7	165.0	167.5
82.5°	111.8	109.7	112.1	110.4	112.5
85°	64.4	62.7	63.4	62.7	63.7
87.5°	25.4	24.0	24.4	23.0	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)