

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: P835738

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-4LO-30-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835738
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-LD4-4LO-30-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

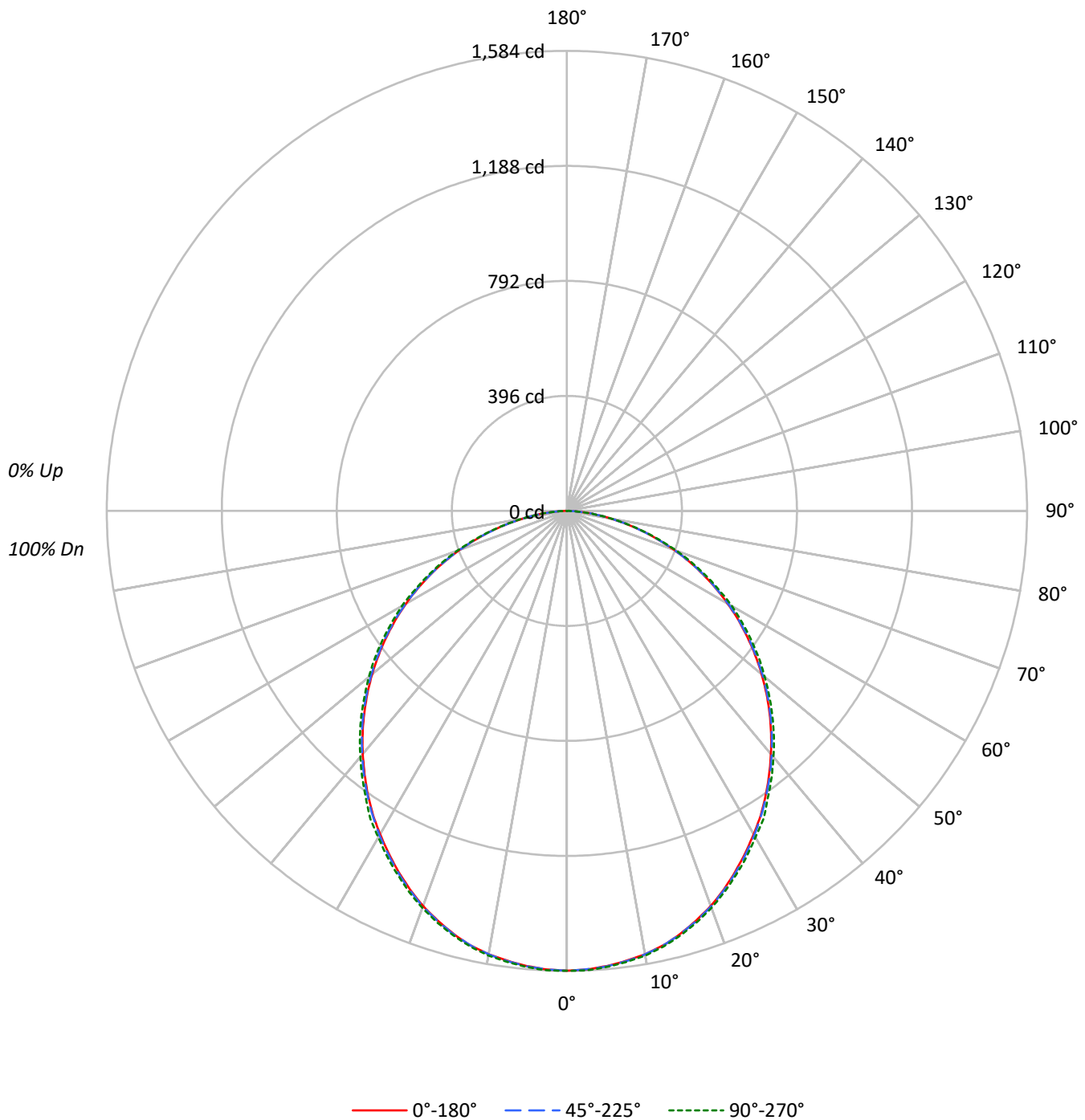
Lumens per Lamp: N/A
Luminaire Lumens: 4277.9 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4260	4260	4260
5°	4249	4253	4258
10°	4236	4236	4249
15°	4201	4203	4215
20°	4146	4151	4166
25°	4071	4081	4099
30°	3994	4008	4032
35°	3922	3931	3962
40°	3839	3851	3886
45°	3755	3771	3809
50°	3664	3680	3723
55°	3560	3577	3636
60°	3442	3456	3533
65°	3291	3301	3365
70°	3090	3092	3159
75°	2808	2798	2862
80°	2413	2402	2444
85°	1871	1843	1853

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.6	3.5
10°-20°	425.6	9.9
20°-30°	633.5	14.8
30°-40°	749.2	17.5
40°-50°	764.8	17.9
50°-60°	682.6	16.0
60°-70°	514.1	12.0
70°-80°	286.7	6.7
80°-90°	71.8	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°	1208.7	28.3
0°-40°	1957.9	45.8
0°-60°	3405.3	79.6
0°-90°	4277.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4277.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1583	1583	1583	1583	1583	
5°	1573	1576	1574	1575	1576	149
15°	1508	1509	1509	1510	1513	425
25°	1371	1373	1374	1378	1381	632
35°	1194	1192	1197	1201	1206	747
45°	987	986	991	996	1001	761
55°	759	758	762	768	775	678
65°	517	515	518	523	528	511
75°	270	268	269	270	275	286
85°	61	59	60	59	60	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1583.2	1583.2	1583.2	1583.2	1583.2
2.5°	1580.5	1583.2	1579.9	1580.5	1583.5
5°	1573.0	1576.0	1574.3	1574.6	1576.3
7.5°	1562.5	1566.5	1564.2	1564.8	1566.5
10°	1550.1	1553.0	1550.4	1552.0	1555.0
12.5°	1532.4	1533.7	1532.4	1533.0	1536.3
15°	1507.8	1509.4	1508.8	1510.1	1513.0
17.5°	1478.9	1480.9	1480.6	1483.2	1485.5
20°	1447.8	1448.1	1449.4	1452.1	1454.7
22.5°	1411.1	1412.1	1413.4	1417.0	1419.6
25°	1371.1	1372.7	1374.4	1378.0	1380.6
27.5°	1328.8	1330.5	1332.7	1336.7	1340.9
30°	1285.5	1285.5	1289.8	1293.7	1297.7
32.5°	1242.0	1240.3	1244.2	1249.2	1258.7
35°	1193.8	1192.5	1196.7	1201.3	1206.2
37.5°	1143.6	1142.6	1147.6	1152.5	1157.1
40°	1092.8	1091.5	1096.4	1101.3	1106.3
42.5°	1040.7	1040.0	1044.6	1049.5	1054.8
45°	986.6	986.3	990.9	995.8	1001.0
47.5°	931.5	930.9	935.5	940.7	945.3
50°	875.2	874.5	879.1	884.3	889.3
52.5°	817.2	817.2	821.4	826.0	833.5
55°	758.8	757.8	762.4	767.7	774.9
57.5°	699.8	698.5	702.8	708.0	714.6
60°	639.5	638.2	642.1	647.4	656.5
62.5°	578.5	576.6	580.5	585.4	591.0
65°	516.9	514.9	518.5	523.1	528.4
67.5°	455.0	452.7	456.3	460.2	465.1
70°	392.7	390.4	393.0	396.9	401.5
72.5°	330.7	328.4	330.7	332.4	337.9
75°	270.1	267.8	269.1	270.4	275.3
77.5°	211.1	208.8	211.4	212.1	215.0
80°	155.7	153.4	155.0	155.4	157.7
82.5°	105.2	103.3	105.5	103.9	105.9
85°	60.6	59.0	59.7	59.0	60.0
87.5°	23.9	22.6	22.9	21.6	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)