

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: P834455

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-2STD-20-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834455
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-LD4-2STD-20-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

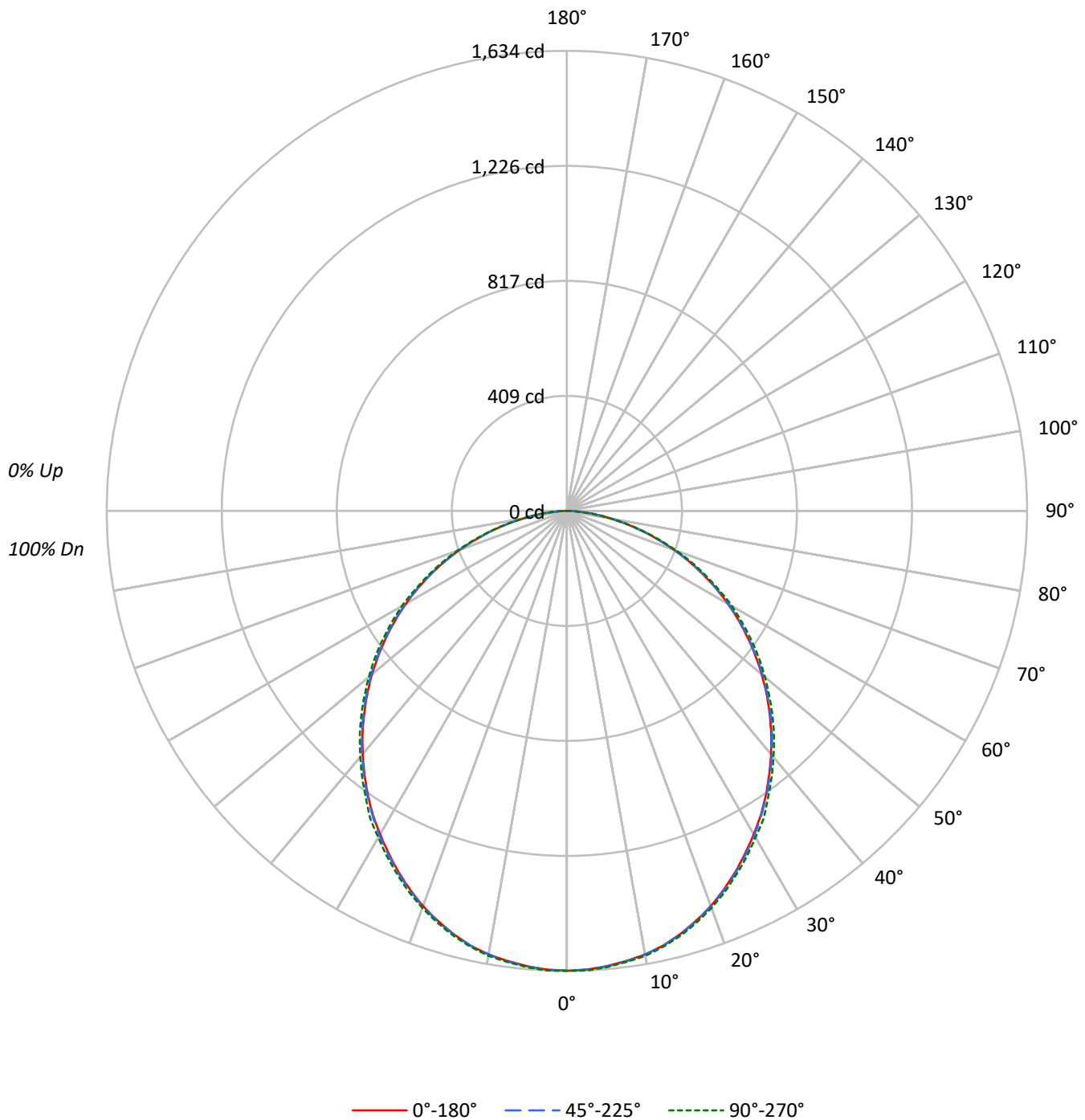
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4414.0 lumens
Efficiency: N/A
Efficacy: 66.3 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): 66.6
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°	4396	4396	4396
5°	4384	4388	4393
10°	4370	4371	4384
15°	4334	4337	4349
20°	4278	4283	4298
25°	4200	4211	4230
30°	4121	4135	4161
35°	4046	4056	4089
40°	3961	3974	4010
45°	3874	3891	3931
50°	3780	3798	3841
55°	3673	3691	3751
60°	3551	3566	3646
65°	3396	3407	3472
70°	3188	3190	3260
75°	2898	2887	2954
80°	2489	2479	2521
85°	1933	1902	1911

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.4	3.5
10°-20°	439.1	9.9
20°-30°	653.7	14.8
30°-40°	773.0	17.5
40°-50°	789.2	17.9
50°-60°	704.3	16.0
60°-70°	530.5	12.0
70°-80°	295.8	6.7
80°-90°	74.1	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°	1247.1	28.3
0°-40°	2020.2	45.8
0°-60°	3513.6	79.6
0°-90°	4414.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4414.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1634	1634	1634	1634	1634	
5°	1623	1626	1624	1625	1626	154
15°	1556	1557	1557	1558	1561	438
25°	1415	1416	1418	1422	1424	652
35°	1232	1230	1235	1240	1245	770
45°	1018	1018	1022	1028	1033	785
55°	783	782	787	792	800	700
65°	533	531	535	540	545	527
75°	279	276	278	279	284	295
85°	63	61	62	61	62	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1633.5	1633.5	1633.5	1633.5	1633.5
2.5°	1630.8	1633.5	1630.1	1630.8	1633.9
5°	1623.0	1626.1	1624.4	1624.7	1626.4
7.5°	1612.2	1616.3	1613.9	1614.6	1616.3
10°	1599.4	1602.4	1599.7	1601.4	1604.4
12.5°	1581.1	1582.5	1581.1	1581.8	1585.2
15°	1555.7	1557.4	1556.8	1558.1	1561.2
17.5°	1526.0	1528.0	1527.7	1530.4	1532.7
20°	1493.9	1494.2	1495.5	1498.2	1501.0
22.5°	1456.0	1457.0	1458.3	1462.1	1464.8
25°	1414.7	1416.4	1418.1	1421.8	1424.5
27.5°	1371.1	1372.8	1375.1	1379.2	1383.6
30°	1326.4	1326.4	1330.8	1334.9	1339.0
32.5°	1281.5	1279.8	1283.8	1288.9	1298.7
35°	1231.7	1230.4	1234.8	1239.5	1244.6
37.5°	1180.0	1179.0	1184.1	1189.1	1193.9
40°	1127.6	1126.2	1131.3	1136.4	1141.4
42.5°	1073.8	1073.1	1077.9	1082.9	1088.3
45°	1018.0	1017.7	1022.4	1027.5	1032.9
47.5°	961.2	960.5	965.2	970.6	975.4
50°	903.0	902.3	907.1	912.5	917.6
52.5°	843.1	843.1	847.5	852.3	860.1
55°	782.9	781.9	786.7	792.1	799.5
57.5°	722.1	720.7	725.1	730.5	737.3
60°	659.8	658.5	662.5	668.0	677.4
62.5°	596.9	594.9	599.0	604.0	609.8
65°	533.3	531.3	535.0	539.8	545.2
67.5°	469.4	467.1	470.8	474.8	479.9
70°	405.2	402.8	405.5	409.6	414.3
72.5°	341.2	338.9	341.2	342.9	348.7
75°	278.7	276.3	277.7	279.0	284.1
77.5°	217.8	215.4	218.1	218.8	221.9
80°	160.6	158.3	160.0	160.3	162.7
82.5°	108.6	106.5	108.9	107.2	109.2
85°	62.6	60.9	61.6	60.9	61.9
87.5°	24.7	23.3	23.7	22.3	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)