

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: P834400

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834400
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-20-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

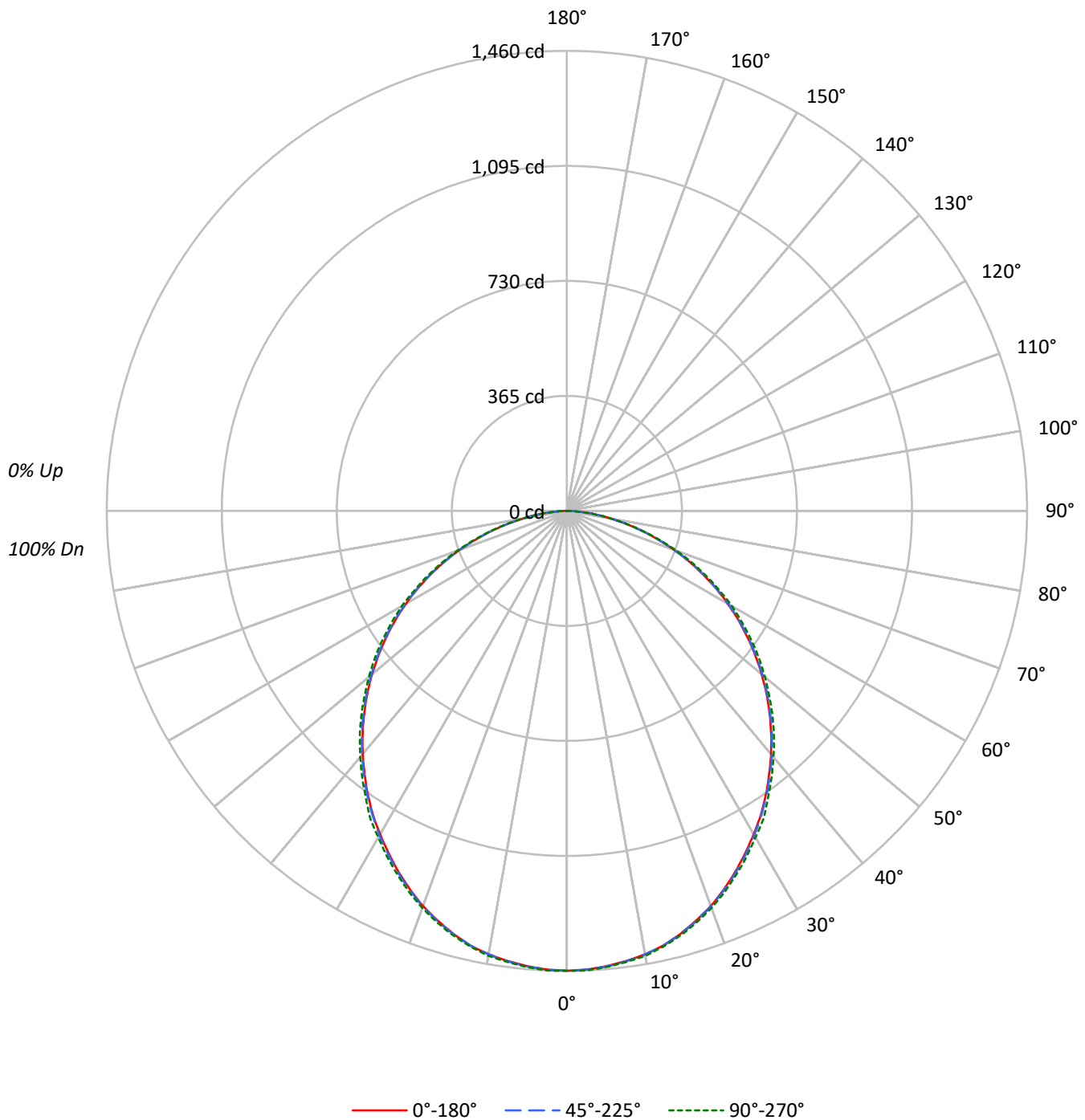
Lumens per Lamp: N/A
Luminaire Lumens: 3943.6 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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°	3927	3927	3927
5°	3917	3920	3925
10°	3904	3905	3917
15°	3872	3875	3886
20°	3822	3826	3840
25°	3753	3762	3779
30°	3682	3695	3717
35°	3615	3624	3653
40°	3539	3550	3582
45°	3461	3476	3512
50°	3378	3393	3432
55°	3282	3297	3351
60°	3173	3186	3257
65°	3034	3044	3102
70°	2848	2851	2912
75°	2589	2580	2639
80°	2224	2214	2252
85°	1726	1698	1707

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.9	3.5
10°-20°	392.3	9.9
20°-30°	584.0	14.8
30°-40°	690.6	17.5
40°-50°	705.1	17.9
50°-60°	629.2	16.0
60°-70°	473.9	12.0
70°-80°	264.3	6.7
80°-90°	66.2	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°	1114.2	28.3
0°-40°	1804.9	45.8
0°-60°	3139.1	79.6
0°-90°	3943.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3943.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1459	1459	1459	1459	1459	
5°	1450	1453	1451	1452	1453	138
15°	1390	1392	1391	1392	1395	392
25°	1264	1266	1267	1270	1273	582
35°	1100	1099	1103	1107	1112	688
45°	910	909	913	918	923	702
55°	700	699	703	708	714	625
65°	476	475	478	482	487	471
75°	249	247	248	249	254	264
85°	56	54	55	54	55	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1459.4	1459.4	1459.4	1459.4	1459.4
2.5°	1457.0	1459.4	1456.4	1457.0	1459.7
5°	1450.1	1452.8	1451.3	1451.6	1453.1
7.5°	1440.4	1444.0	1441.9	1442.5	1444.0
10°	1428.9	1431.6	1429.2	1430.7	1433.5
12.5°	1412.6	1413.8	1412.6	1413.2	1416.2
15°	1389.9	1391.5	1390.9	1392.1	1394.8
17.5°	1363.4	1365.2	1364.9	1367.3	1369.4
20°	1334.7	1335.0	1336.2	1338.6	1341.0
22.5°	1300.8	1301.7	1302.9	1306.2	1308.7
25°	1263.9	1265.5	1267.0	1270.3	1272.7
27.5°	1225.0	1226.5	1228.6	1232.2	1236.1
30°	1185.1	1185.1	1189.0	1192.6	1196.3
32.5°	1144.9	1143.4	1147.0	1151.5	1160.3
35°	1100.5	1099.3	1103.2	1107.4	1112.0
37.5°	1054.2	1053.3	1057.9	1062.4	1066.6
40°	1007.4	1006.2	1010.7	1015.3	1019.8
42.5°	959.4	958.8	963.0	967.5	972.4
45°	909.5	909.2	913.4	918.0	922.8
47.5°	858.7	858.1	862.4	867.2	871.4
50°	806.8	806.2	810.4	815.2	819.8
52.5°	753.3	753.3	757.2	761.4	768.4
55°	699.5	698.6	702.8	707.7	714.3
57.5°	645.1	643.9	647.8	652.7	658.7
60°	589.5	588.3	591.9	596.8	605.2
62.5°	533.3	531.5	535.1	539.7	544.8
65°	476.5	474.7	478.0	482.3	487.1
67.5°	419.4	417.3	420.6	424.2	428.8
70°	362.0	359.9	362.3	365.9	370.1
72.5°	304.9	302.8	304.9	306.4	311.5
75°	249.0	246.9	248.1	249.3	253.8
77.5°	194.6	192.5	194.9	195.5	198.2
80°	143.5	141.4	142.9	143.2	145.3
82.5°	97.0	95.2	97.3	95.8	97.6
85°	55.9	54.4	55.0	54.4	55.3
87.5°	22.1	20.8	21.2	19.9	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)