

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: P835594

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-4LO-20-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835594
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-20-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

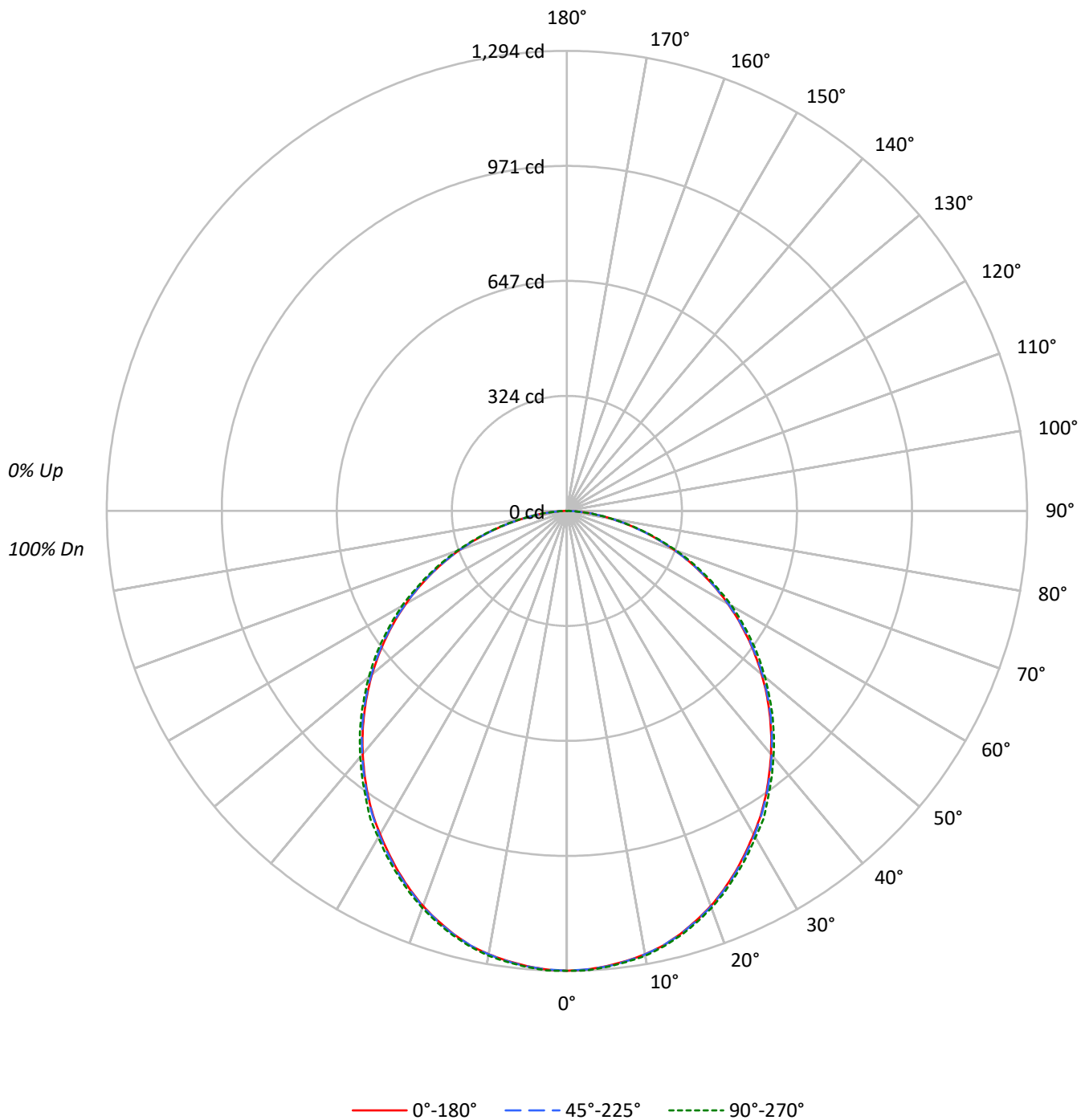
Lumens per Lamp: N/A
Luminaire Lumens: 3495.3 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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°	3481	3481	3481
5°	3472	3475	3479
10°	3461	3462	3472
15°	3432	3434	3444
20°	3388	3391	3404
25°	3326	3334	3350
30°	3264	3275	3295
35°	3204	3212	3238
40°	3137	3147	3175
45°	3068	3081	3113
50°	2994	3007	3042
55°	2909	2922	2970
60°	2812	2824	2887
65°	2690	2698	2749
70°	2524	2526	2581
75°	2295	2286	2339
80°	1971	1963	1996
85°	1528	1504	1513

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.2	3.5
10°-20°	347.7	9.9
20°-30°	517.6	14.8
30°-40°	612.2	17.5
40°-50°	624.9	17.9
50°-60°	557.7	16.0
60°-70°	420.1	12.0
70°-80°	234.3	6.7
80°-90°	58.7	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°	987.6	28.3
0°-40°	1599.7	45.8
0°-60°	2782.4	79.6
0°-90°	3495.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3495.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1294	1294	1294	1294	1294	
5°	1285	1288	1286	1287	1288	122
15°	1232	1233	1233	1234	1236	347
25°	1120	1122	1123	1126	1128	516
35°	975	974	978	982	986	610
45°	806	806	810	814	818	622
55°	620	619	623	627	633	554
65°	422	421	424	427	432	418
75°	221	219	220	221	225	234
85°	50	48	49	48	49	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1293.6	1293.6	1293.6	1293.6	1293.6
2.5°	1291.4	1293.6	1290.9	1291.4	1293.8
5°	1285.3	1287.7	1286.3	1286.6	1287.9
7.5°	1276.7	1279.9	1278.0	1278.6	1279.9
10°	1266.5	1268.9	1266.8	1268.1	1270.5
12.5°	1252.1	1253.1	1252.1	1252.6	1255.3
15°	1232.0	1233.3	1232.8	1233.8	1236.3
17.5°	1208.4	1210.0	1209.7	1211.9	1213.8
20°	1183.0	1183.2	1184.3	1186.4	1188.6
22.5°	1153.0	1153.8	1154.8	1157.8	1159.9
25°	1120.3	1121.6	1123.0	1125.9	1128.1
27.5°	1085.7	1087.1	1089.0	1092.2	1095.6
30°	1050.4	1050.4	1053.9	1057.1	1060.3
32.5°	1014.8	1013.4	1016.6	1020.7	1028.4
35°	975.4	974.3	977.8	981.6	985.6
37.5°	934.4	933.6	937.6	941.7	945.4
40°	892.9	891.8	895.9	899.9	903.9
42.5°	850.3	849.8	853.5	857.6	861.8
45°	806.1	805.9	809.6	813.6	817.9
47.5°	761.1	760.6	764.4	768.6	772.4
50°	715.1	714.5	718.3	722.6	726.6
52.5°	667.7	667.7	671.2	674.9	681.1
55°	620.0	619.2	622.9	627.2	633.1
57.5°	571.8	570.7	574.2	578.5	583.8
60°	522.5	521.4	524.7	528.9	536.4
62.5°	472.7	471.1	474.3	478.3	482.9
65°	422.4	420.7	423.7	427.4	431.7
67.5°	371.7	369.9	372.8	376.0	380.0
70°	320.8	319.0	321.1	324.3	328.1
72.5°	270.2	268.4	270.2	271.6	276.1
75°	220.7	218.8	219.9	221.0	225.0
77.5°	172.5	170.6	172.7	173.3	175.7
80°	127.2	125.3	126.7	126.9	128.8
82.5°	86.0	84.4	86.2	84.9	86.5
85°	49.5	48.2	48.7	48.2	49.0
87.5°	19.6	18.5	18.7	17.7	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)