

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: P835675

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-1LO-50-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835675
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-LD4-1LO-50-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

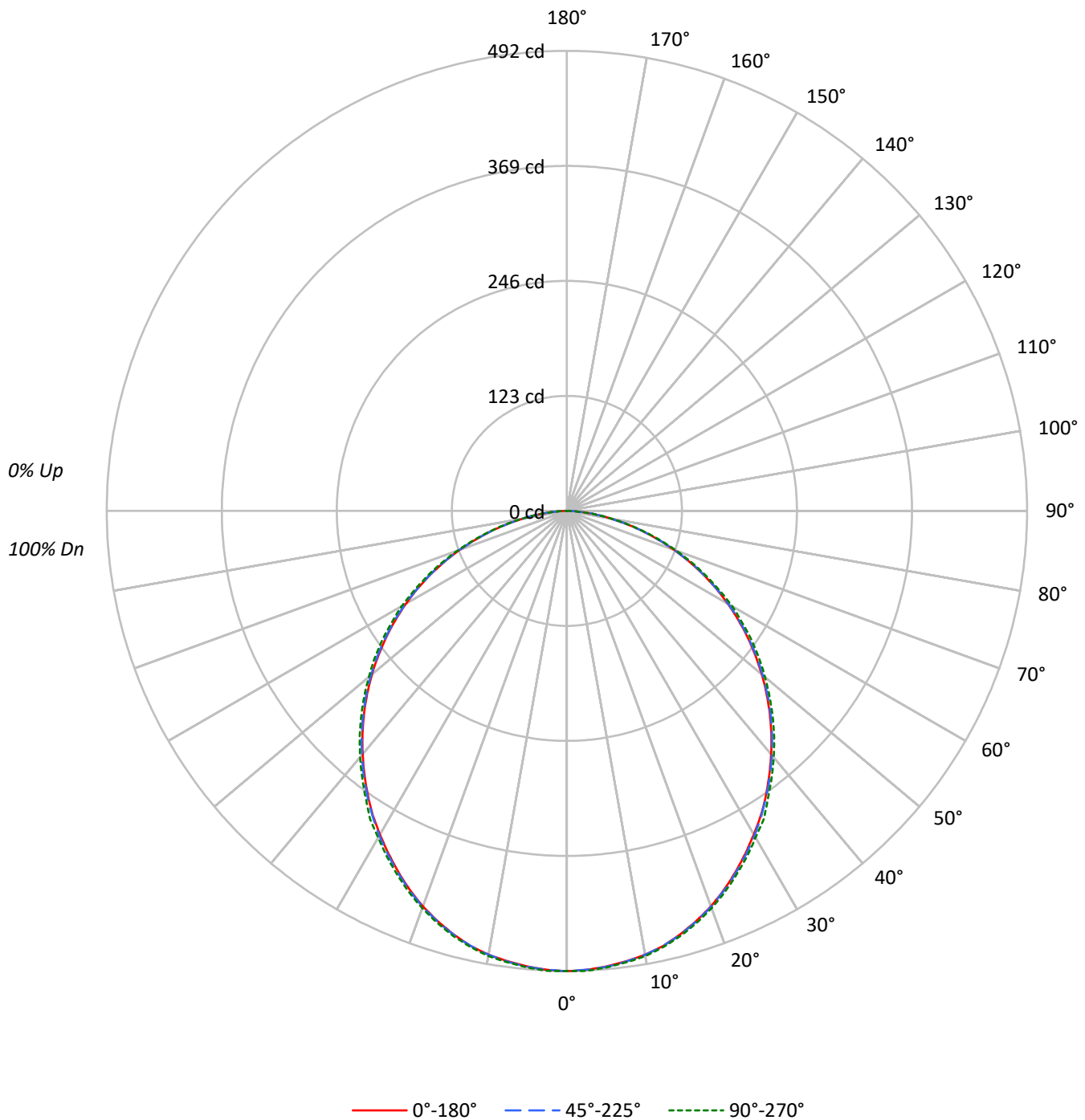
Lumens per Lamp: N/A
Luminaire Lumens: 1329.8 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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°	1324	1324	1324
5°	1321	1322	1324
10°	1317	1317	1321
15°	1306	1307	1310
20°	1289	1290	1295
25°	1265	1268	1274
30°	1242	1246	1253
35°	1219	1222	1232
40°	1193	1197	1208
45°	1167	1172	1184
50°	1139	1144	1157
55°	1107	1112	1130
60°	1070	1074	1098
65°	1023	1026	1046
70°	961	961	982
75°	873	870	890
80°	750	747	759
85°	584	571	574



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.5	3.5
10°-20°	132.3	9.9
20°-30°	196.9	14.8
30°-40°	232.9	17.5
40°-50°	237.8	17.9
50°-60°	212.2	16.0
60°-70°	159.8	12.0
70°-80°	89.1	6.7
80°-90°	22.3	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°	375.7	28.3
0°-40°	608.6	45.8
0°-60°	1058.6	79.6
0°-90°	1329.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1329.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	492	492	492	492	492	
5°	489	490	489	490	490	46
15°	469	469	469	469	470	132
25°	426	427	427	428	429	196
35°	371	371	372	373	375	232
45°	307	307	308	310	311	237
55°	236	236	237	239	241	211
65°	161	160	161	163	164	159
75°	84	83	84	84	86	89
85°	19	18	18	18	19	23
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	492.2	492.2	492.2	492.2	492.2
2.5°	491.3	492.2	491.1	491.3	492.3
5°	489.0	489.9	489.4	489.5	490.0
7.5°	485.7	487.0	486.2	486.5	487.0
10°	481.9	482.8	482.0	482.5	483.4
12.5°	476.4	476.8	476.4	476.6	477.6
15°	468.7	469.2	469.0	469.4	470.4
17.5°	459.8	460.4	460.3	461.1	461.8
20°	450.1	450.2	450.6	451.4	452.2
22.5°	438.7	439.0	439.4	440.5	441.3
25°	426.2	426.7	427.2	428.4	429.2
27.5°	413.1	413.6	414.3	415.5	416.9
30°	399.6	399.6	401.0	402.2	403.4
32.5°	386.1	385.6	386.8	388.3	391.3
35°	371.1	370.7	372.0	373.4	375.0
37.5°	355.5	355.2	356.7	358.3	359.7
40°	339.7	339.3	340.8	342.4	343.9
42.5°	323.5	323.3	324.7	326.3	327.9
45°	306.7	306.6	308.0	309.6	311.2
47.5°	289.6	289.4	290.8	292.4	293.9
50°	272.1	271.9	273.3	274.9	276.4
52.5°	254.0	254.0	255.4	256.8	259.1
55°	235.9	235.6	237.0	238.6	240.9
57.5°	217.5	217.1	218.5	220.1	222.1
60°	198.8	198.4	199.6	201.2	204.1
62.5°	179.8	179.2	180.5	182.0	183.7
65°	160.7	160.1	161.2	162.6	164.3
67.5°	141.4	140.7	141.8	143.1	144.6
70°	122.1	121.4	122.2	123.4	124.8
72.5°	102.8	102.1	102.8	103.3	105.1
75°	84.0	83.2	83.7	84.1	85.6
77.5°	65.6	64.9	65.7	65.9	66.8
80°	48.4	47.7	48.2	48.3	49.0
82.5°	32.7	32.1	32.8	32.3	32.9
85°	18.9	18.3	18.5	18.3	18.6
87.5°	7.4	7.0	7.1	6.7	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)