

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: P835081

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-1LO-30-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835081
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-OPL-LD4-1LO-30-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

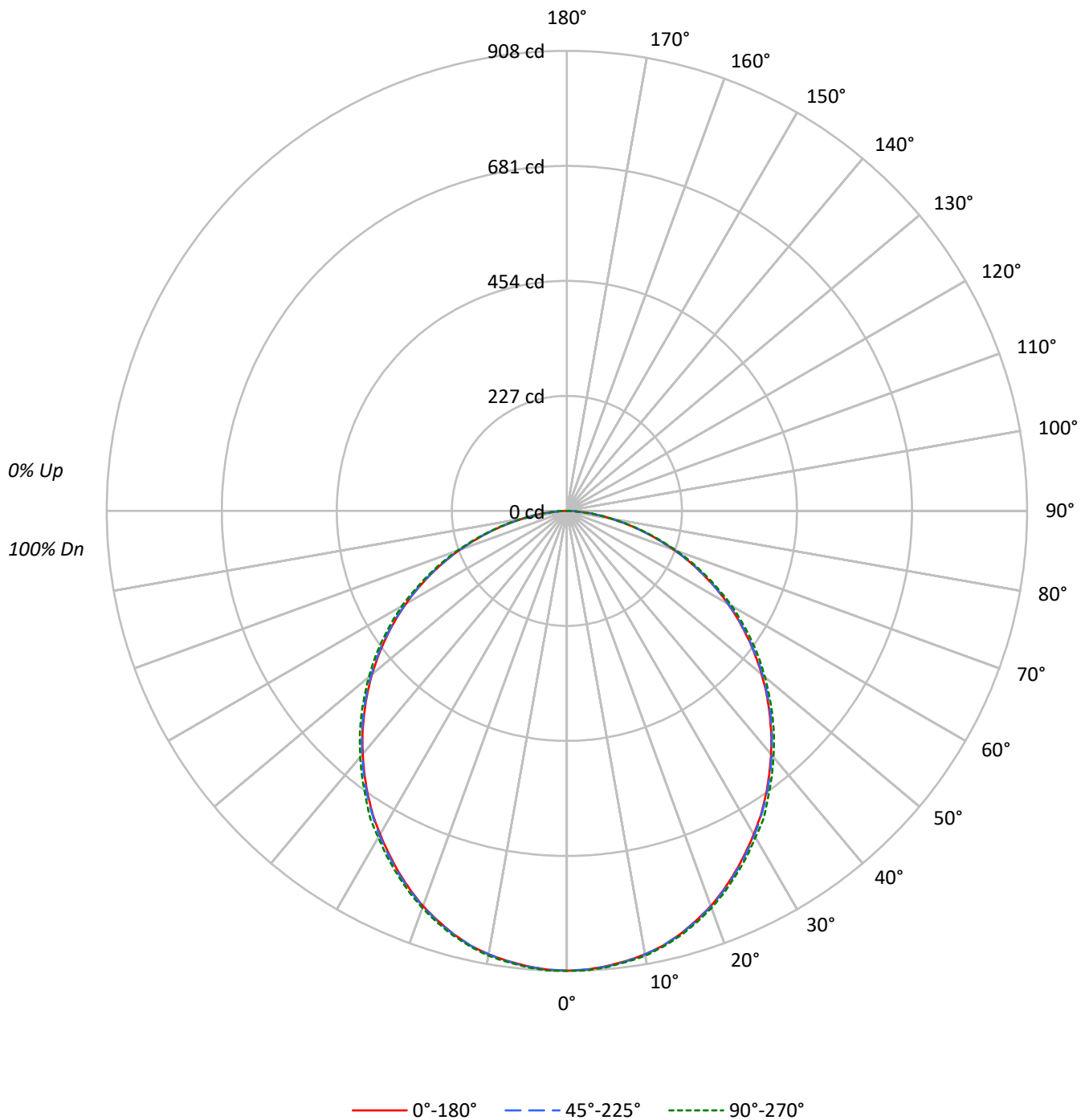
Lumens per Lamp: N/A
Luminaire Lumens: 2452.7 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59		
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51		
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44		
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38		
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1221	1221	1221
5°	1218	1219	1221
10°	1214	1214	1218
15°	1204	1205	1208
20°	1189	1190	1194
25°	1167	1170	1175
30°	1145	1149	1156
35°	1124	1127	1136
40°	1101	1104	1114
45°	1076	1081	1092
50°	1050	1055	1067
55°	1021	1025	1042
60°	987	991	1013
65°	944	947	964
70°	886	886	906
75°	805	802	821
80°	692	689	700
85°	537	528	531

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	3.5
10°-20°	244.0	9.9
20°-30°	363.2	14.8
30°-40°	429.5	17.5
40°-50°	438.5	17.9
50°-60°	391.3	16.0
60°-70°	294.8	12.0
70°-80°	164.4	6.7
80°-90°	41.2	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°	693.0	28.3
0°-40°	1122.5	45.8
0°-60°	1952.4	79.6
0°-90°	2452.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2452.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	908	908	908	908	908	
5°	902	904	903	903	904	86
15°	864	865	865	866	868	244
25°	786	787	788	790	792	362
35°	684	684	686	689	692	428
45°	566	566	568	571	574	436
55°	435	434	437	440	444	389
65°	296	295	297	300	303	293
75°	155	154	154	155	158	164
85°	35	34	34	34	34	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	907.7	907.7	907.7	907.7	907.7
2.5°	906.2	907.7	905.8	906.2	907.9
5°	901.9	903.6	902.6	902.8	903.8
7.5°	895.9	898.1	896.8	897.2	898.1
10°	888.7	890.4	888.9	889.8	891.5
12.5°	878.6	879.3	878.6	878.9	880.8
15°	864.5	865.4	865.0	865.8	867.5
17.5°	847.9	849.1	848.9	850.4	851.7
20°	830.1	830.3	831.0	832.5	834.0
22.5°	809.0	809.6	810.4	812.4	813.9
25°	786.1	787.0	788.0	790.1	791.6
27.5°	761.9	762.8	764.1	766.4	768.8
30°	737.1	737.1	739.5	741.8	744.0
32.5°	712.1	711.1	713.4	716.2	721.6
35°	684.4	683.7	686.1	688.8	691.6
37.5°	655.7	655.1	657.9	660.8	663.4
40°	626.6	625.8	628.6	631.4	634.3
42.5°	596.7	596.3	598.9	601.8	604.8
45°	565.7	565.5	568.1	570.9	573.9
47.5°	534.1	533.7	536.4	539.4	542.0
50°	501.8	501.4	504.0	507.0	509.9
52.5°	468.5	468.5	471.0	473.6	477.9
55°	435.1	434.5	437.1	440.1	444.3
57.5°	401.2	400.5	402.9	405.9	409.7
60°	366.7	365.9	368.2	371.2	376.4
62.5°	331.7	330.6	332.8	335.6	338.8
65°	296.4	295.2	297.3	299.9	302.9
67.5°	260.8	259.5	261.6	263.9	266.7
70°	225.1	223.8	225.3	227.6	230.2
72.5°	189.6	188.3	189.6	190.6	193.8
75°	154.9	153.5	154.3	155.0	157.9
77.5°	121.0	119.7	121.2	121.6	123.3
80°	89.3	88.0	88.9	89.1	90.4
82.5°	60.3	59.2	60.5	59.6	60.7
85°	34.8	33.8	34.2	33.8	34.4
87.5°	13.7	13.0	13.2	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)