

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: P834415

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-1LO-30-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834415
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-LD4-1LO-30-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

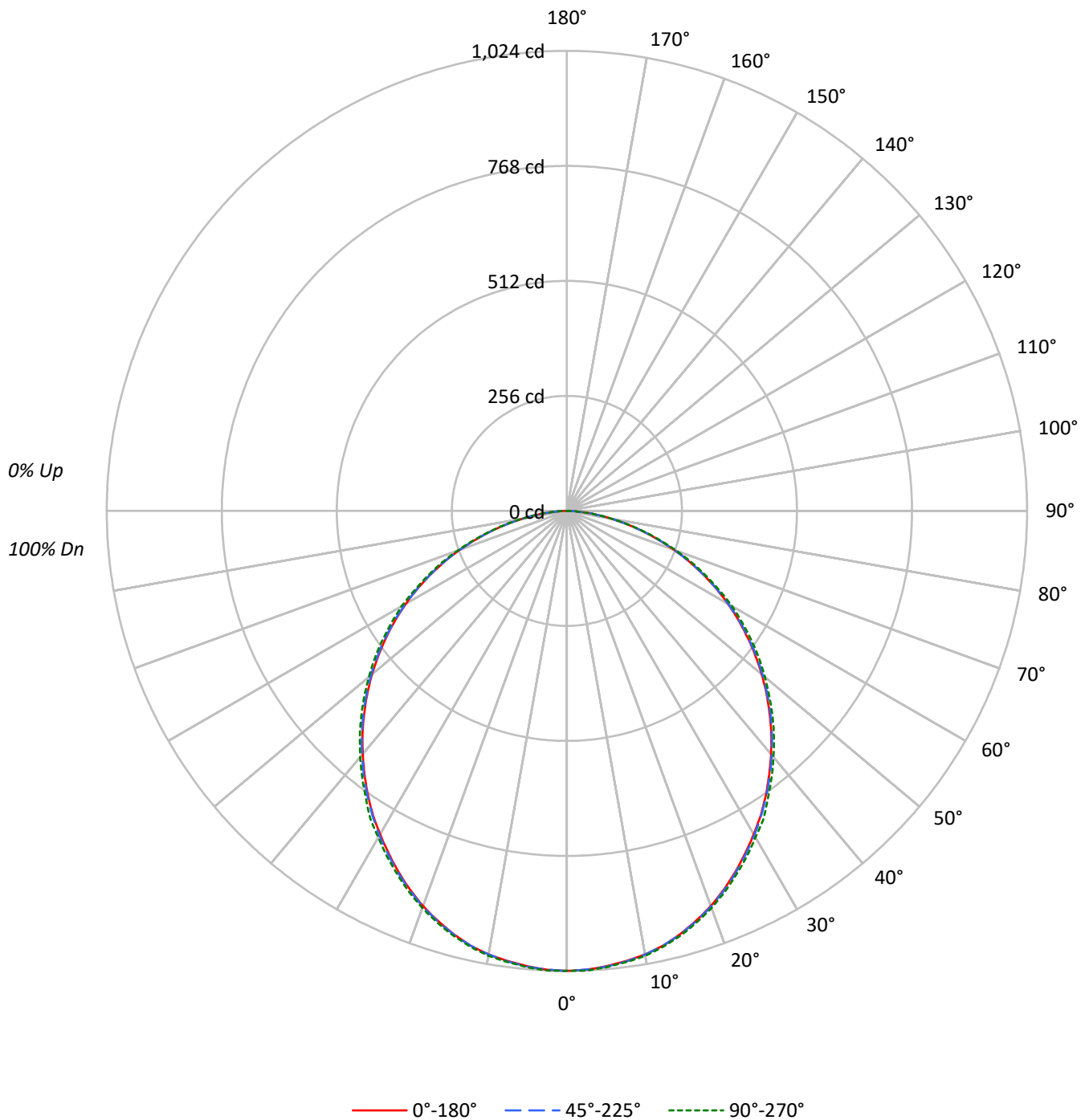
Lumens per Lamp: N/A
Luminaire Lumens: 2766.4 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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
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°	2755	2755	2755
5°	2748	2750	2753
10°	2739	2740	2748
15°	2716	2718	2726
20°	2681	2684	2694
25°	2632	2639	2651
30°	2583	2592	2608
35°	2536	2542	2562
40°	2483	2491	2513
45°	2428	2439	2463
50°	2369	2380	2408
55°	2302	2313	2351
60°	2225	2235	2285
65°	2129	2135	2176
70°	1998	1999	2043
75°	1816	1809	1852
80°	1561	1554	1581
85°	1210	1192	1198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	3.5
10°-20°	275.2	9.9
20°-30°	409.7	14.8
30°-40°	484.5	17.5
40°-50°	494.6	17.9
50°-60°	441.4	16.0
60°-70°	332.5	12.0
70°-80°	185.4	6.7
80°-90°	46.5	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°	781.6	28.3
0°-40°	1266.1	45.8
0°-60°	2202.1	79.6
0°-90°	2766.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2766.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1024	1024	1024	1024	1024	
5°	1017	1019	1018	1018	1019	97
15°	975	976	976	976	978	275
25°	887	888	889	891	893	408
35°	772	771	774	777	780	483
45°	638	638	641	644	647	492
55°	491	490	493	496	501	439
65°	334	333	335	338	342	331
75°	175	173	174	175	178	185
85°	39	38	39	38	39	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1023.8	1023.8	1023.8	1023.8	1023.8
2.5°	1022.1	1023.8	1021.7	1022.1	1024.0
5°	1017.2	1019.1	1018.1	1018.3	1019.3
7.5°	1010.4	1013.0	1011.5	1011.9	1013.0
10°	1002.4	1004.3	1002.6	1003.7	1005.6
12.5°	990.9	991.8	990.9	991.4	993.5
15°	975.0	976.1	975.7	976.5	978.4
17.5°	956.4	957.7	957.4	959.1	960.6
20°	936.2	936.5	937.3	939.0	940.7
22.5°	912.5	913.1	914.0	916.3	918.0
25°	886.6	887.7	888.8	891.1	892.8
27.5°	859.3	860.4	861.8	864.4	867.1
30°	831.3	831.3	834.1	836.6	839.2
32.5°	803.1	802.1	804.6	807.8	813.9
35°	772.0	771.1	773.9	776.9	780.0
37.5°	739.5	738.9	742.1	745.3	748.2
40°	706.7	705.8	709.0	712.2	715.4
42.5°	673.0	672.6	675.5	678.7	682.1
45°	638.0	637.8	640.8	643.9	647.3
47.5°	602.4	602.0	604.9	608.3	611.3
50°	565.9	565.5	568.5	571.9	575.1
52.5°	528.4	528.4	531.2	534.2	539.0
55°	490.7	490.1	493.0	496.4	501.1
57.5°	452.5	451.7	454.5	457.8	462.1
60°	413.5	412.7	415.2	418.6	424.6
62.5°	374.1	372.8	375.4	378.6	382.2
65°	334.3	333.0	335.3	338.3	341.7
67.5°	294.2	292.7	295.1	297.6	300.8
70°	253.9	252.5	254.1	256.7	259.7
72.5°	213.9	212.4	213.9	214.9	218.5
75°	174.7	173.2	174.0	174.9	178.1
77.5°	136.5	135.0	136.7	137.1	139.0
80°	100.7	99.2	100.3	100.5	102.0
82.5°	68.0	66.8	68.3	67.2	68.5
85°	39.2	38.2	38.6	38.2	38.8
87.5°	15.5	14.6	14.8	14.0	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)