

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: P834937

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-1LO-20-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834937
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-20-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

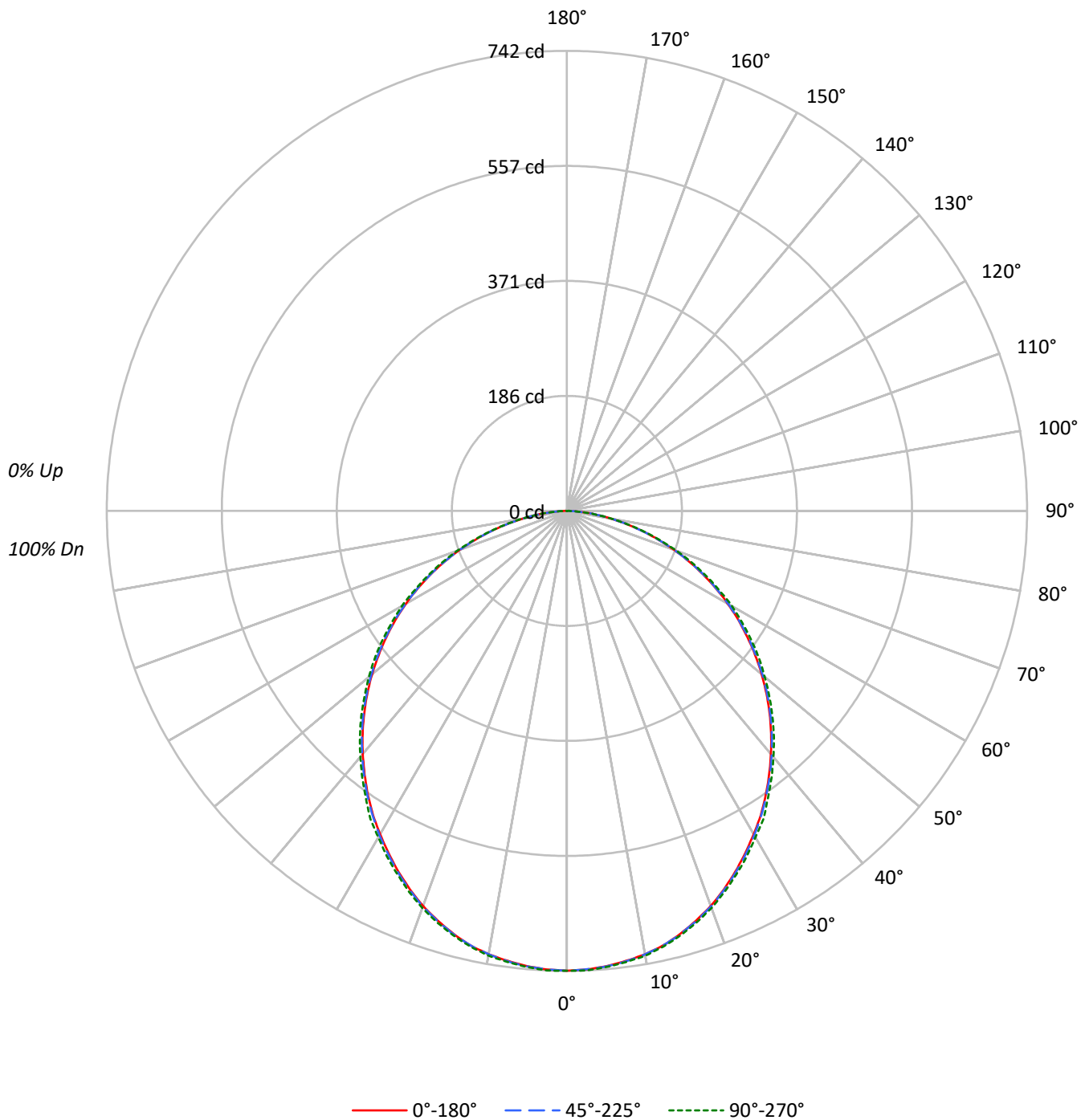
Lumens per Lamp: N/A
Luminaire Lumens: 2004.0 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
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°	998	998	998
5°	995	996	997
10°	992	992	995
15°	984	985	987
20°	971	972	976
25°	954	956	960
30°	936	939	944
35°	919	921	928
40°	899	902	910
45°	879	883	892
50°	858	862	872
55°	834	838	852
60°	806	809	828
65°	771	773	788
70°	724	724	740
75°	658	656	671
80°	565	563	573
85°	438	431	434

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	3.5
10°-20°	199.4	9.9
20°-30°	296.8	14.8
30°-40°	351.0	17.5
40°-50°	358.3	17.9
50°-60°	319.8	16.0
60°-70°	240.8	12.0
70°-80°	134.3	6.7
80°-90°	33.6	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°	566.2	28.3
0°-40°	917.2	45.8
0°-60°	1595.2	79.6
0°-90°	2004.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2004.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	742	742	742	742	742	
5°	737	738	738	738	738	70
15°	706	707	707	707	709	199
25°	642	643	644	646	647	296
35°	559	559	561	563	565	350
45°	462	462	464	466	469	357
55°	356	355	357	360	363	318
65°	242	241	243	245	248	240
75°	126	126	126	127	129	134
85°	28	28	28	28	28	34
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	741.7	741.7	741.7	741.7	741.7
2.5°	740.4	741.7	740.1	740.4	741.8
5°	736.9	738.3	737.5	737.7	738.4
7.5°	732.0	733.8	732.8	733.1	733.8
10°	726.1	727.5	726.3	727.1	728.5
12.5°	717.9	718.5	717.9	718.2	719.7
15°	706.3	707.1	706.8	707.4	708.8
17.5°	692.8	693.7	693.6	694.8	695.9
20°	678.2	678.4	679.0	680.2	681.5
22.5°	661.0	661.5	662.1	663.8	665.0
25°	642.3	643.1	643.8	645.5	646.8
27.5°	622.5	623.3	624.3	626.2	628.2
30°	602.2	602.2	604.2	606.1	607.9
32.5°	581.8	581.0	582.9	585.2	589.6
35°	559.2	558.6	560.6	562.8	565.1
37.5°	535.7	535.3	537.6	539.9	542.0
40°	511.9	511.3	513.6	515.9	518.2
42.5°	487.5	487.2	489.4	491.7	494.1
45°	462.2	462.0	464.2	466.5	468.9
47.5°	436.4	436.1	438.2	440.7	442.8
50°	410.0	409.7	411.8	414.3	416.6
52.5°	382.8	382.8	384.8	387.0	390.5
55°	355.5	355.0	357.2	359.6	363.0
57.5°	327.8	327.2	329.2	331.7	334.7
60°	299.6	299.0	300.8	303.3	307.6
62.5°	271.0	270.1	271.9	274.2	276.9
65°	242.2	241.2	242.9	245.1	247.5
67.5°	213.1	212.1	213.7	215.6	217.9
70°	184.0	182.9	184.1	186.0	188.1
72.5°	154.9	153.9	154.9	155.7	158.3
75°	126.5	125.5	126.1	126.7	129.0
77.5°	98.9	97.8	99.0	99.3	100.7
80°	72.9	71.9	72.6	72.8	73.9
82.5°	49.3	48.4	49.4	48.7	49.6
85°	28.4	27.6	27.9	27.6	28.1
87.5°	11.2	10.6	10.7	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)