

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: P834982

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834982
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-LD4-4LO-30-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

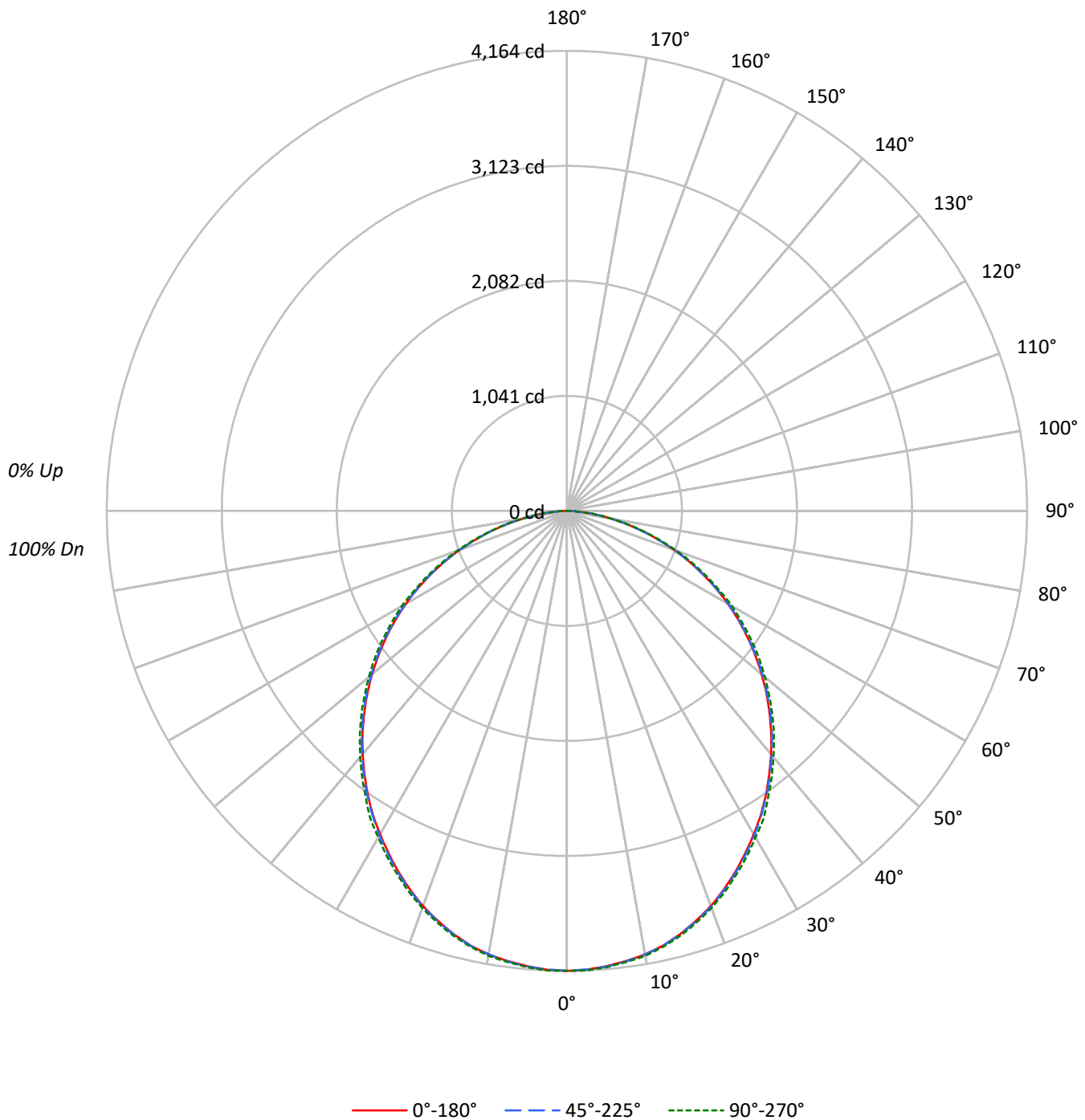
Lumens per Lamp: N/A
Luminaire Lumens: 11248.3 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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°	5601	5601	5601
5°	5586	5591	5598
10°	5569	5570	5586
15°	5523	5526	5542
20°	5451	5457	5477
25°	5352	5365	5389
30°	5252	5269	5301
35°	5156	5169	5210
40°	5047	5064	5109
45°	4936	4958	5008
50°	4817	4838	4894
55°	4680	4703	4779
60°	4525	4543	4645
65°	4327	4341	4423
70°	4062	4065	4153
75°	3692	3679	3764
80°	3172	3159	3212
85°	2461	2422	2435

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.4	3.5
10°-20°	1119.0	9.9
20°-30°	1665.8	14.8
30°-40°	1970.0	17.5
40°-50°	2011.0	17.9
50°-60°	1794.7	16.0
60°-70°	1351.8	12.0
70°-80°	753.9	6.7
80°-90°	188.9	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°	3178.1	28.3
0°-40°	5148.1	45.8
0°-60°	8953.8	79.6
0°-90°	11248.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11248.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4163	4163	4163	4163	4163	
5°	4136	4144	4140	4140	4145	393
15°	3965	3969	3967	3971	3978	1117
25°	3605	3610	3614	3623	3630	1661
35°	3139	3136	3147	3159	3172	1963
45°	2594	2593	2605	2618	2632	2001
55°	1995	1993	2005	2018	2037	1783
65°	1359	1354	1364	1376	1389	1344
75°	710	704	708	711	724	753
85°	159	155	157	155	158	191
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4162.8	4162.8	4162.8	4162.8	4162.8
2.5°	4155.9	4162.8	4154.2	4155.9	4163.7
5°	4136.1	4143.8	4139.5	4140.4	4144.7
7.5°	4108.5	4118.8	4112.8	4114.5	4118.8
10°	4075.8	4083.5	4076.6	4080.9	4088.7
12.5°	4029.2	4032.7	4029.2	4030.9	4039.6
15°	3964.6	3968.9	3967.2	3970.6	3978.4
17.5°	3888.7	3893.9	3893.0	3899.9	3906.0
20°	3806.9	3807.7	3811.2	3818.1	3825.0
22.5°	3710.3	3712.9	3716.4	3725.8	3732.7
25°	3605.2	3609.5	3613.8	3623.3	3630.2
27.5°	3494.0	3498.3	3504.3	3514.7	3525.9
30°	3380.2	3380.2	3391.4	3401.8	3412.1
32.5°	3265.6	3261.3	3271.6	3284.6	3309.6
35°	3138.9	3135.5	3146.7	3158.7	3171.7
37.5°	3007.0	3004.5	3017.4	3030.3	3042.4
40°	2873.5	2870.0	2882.9	2895.9	2908.8
42.5°	2736.4	2734.7	2746.8	2759.7	2773.5
45°	2594.2	2593.3	2605.4	2618.3	2632.1
47.5°	2449.4	2447.7	2459.8	2473.5	2485.6
50°	2301.2	2299.5	2311.5	2325.3	2338.2
52.5°	2148.6	2148.6	2159.8	2171.9	2191.7
55°	1995.2	1992.6	2004.7	2018.5	2037.4
57.5°	1840.1	1836.6	1847.8	1861.6	1878.9
60°	1681.5	1678.0	1688.4	1702.2	1726.3
62.5°	1521.2	1516.0	1526.4	1539.3	1553.9
65°	1359.2	1354.0	1363.5	1375.5	1389.3
67.5°	1196.3	1190.2	1199.7	1210.1	1223.0
70°	1032.5	1026.5	1033.4	1043.7	1055.8
72.5°	869.6	863.6	869.6	873.9	888.6
75°	710.2	704.1	707.6	711.0	724.0
77.5°	555.0	549.0	555.9	557.6	565.4
80°	409.4	403.4	407.7	408.5	414.6
82.5°	276.7	271.5	277.5	273.2	278.4
85°	159.4	155.1	156.9	155.1	157.7
87.5°	62.9	59.5	60.3	56.9	56.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)