

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: P834423

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-3HI-30-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834423
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-LD4-3HI-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

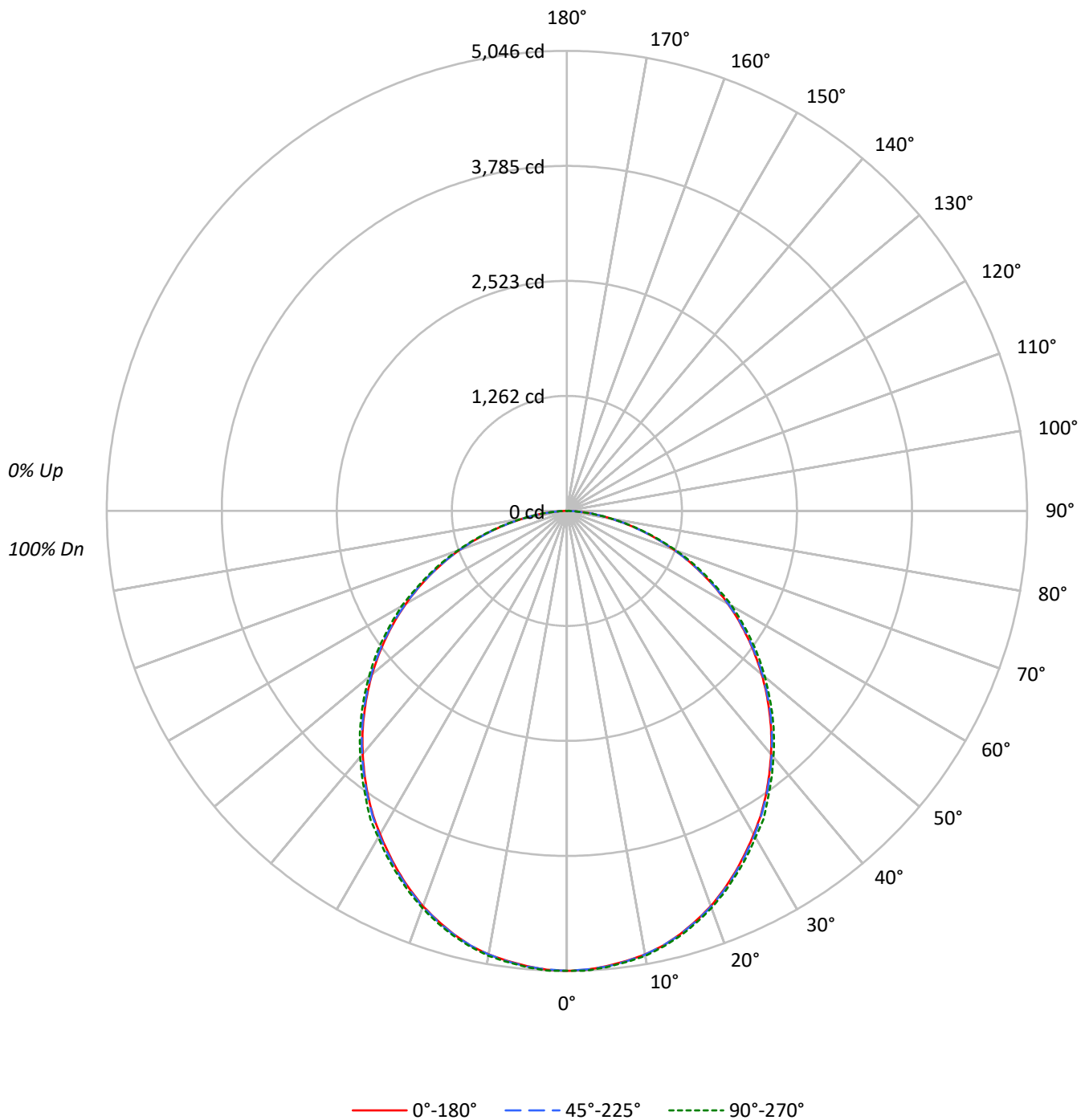
Lumens per Lamp: N/A
Luminaire Lumens: 13631.7 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10		0
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°	13575	13575	13575
5°	13540	13551	13568
10°	13497	13500	13539
15°	13385	13394	13432
20°	13212	13226	13274
25°	12973	13003	13062
30°	12729	12771	12849
35°	12496	12527	12627
40°	12233	12273	12383
45°	11964	12016	12139
50°	11675	11727	11863
55°	11344	11398	11584
60°	10967	11012	11260
65°	10488	10521	10721
70°	9845	9853	10067
75°	8949	8916	9122
80°	7688	7655	7786
85°	5965	5869	5900

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.7	3.5
10°-20°	1356.0	9.9
20°-30°	2018.7	14.8
30°-40°	2387.3	17.5
40°-50°	2437.1	17.9
50°-60°	2175.0	16.0
60°-70°	1638.2	12.0
70°-80°	913.6	6.7
80°-90°	228.9	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°	3851.5	28.3
0°-40°	6238.8	45.8
0°-60°	10851.0	79.6
0°-90°	13631.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13631.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5045	5045	5045	5045	5045	
5°	5012	5022	5017	5018	5023	476
15°	4805	4810	4808	4812	4821	1354
25°	4369	4374	4380	4391	4399	2013
35°	3804	3800	3813	3828	3844	2379
45°	3144	3143	3158	3173	3190	2425
55°	2418	2415	2430	2446	2469	2161
65°	1647	1641	1652	1667	1684	1629
75°	861	853	858	862	877	912
85°	193	188	190	188	191	232
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5044.8	5044.8	5044.8	5044.8	5044.8
2.5°	5036.5	5044.8	5034.4	5036.5	5045.9
5°	5012.5	5021.9	5016.6	5017.7	5022.9
7.5°	4979.0	4991.6	4984.2	4986.3	4991.6
10°	4939.3	4948.7	4940.4	4945.6	4955.0
12.5°	4882.9	4887.1	4882.9	4885.0	4895.5
15°	4804.6	4809.8	4807.7	4811.9	4821.3
17.5°	4712.7	4719.0	4717.9	4726.3	4733.6
20°	4613.5	4614.5	4618.7	4627.0	4635.4
22.5°	4496.5	4499.6	4503.8	4515.3	4523.6
25°	4369.1	4374.3	4379.5	4391.0	4399.3
27.5°	4234.3	4239.5	4246.8	4259.4	4273.0
30°	4096.4	4096.4	4110.0	4122.6	4135.1
32.5°	3957.5	3952.3	3964.8	3980.5	4010.8
35°	3804.0	3799.8	3813.4	3828.0	3843.7
37.5°	3644.2	3641.1	3656.7	3672.4	3687.0
40°	3482.3	3478.1	3493.8	3509.4	3525.1
42.5°	3316.2	3314.1	3328.8	3344.4	3361.1
45°	3143.9	3142.8	3157.5	3173.1	3189.8
47.5°	2968.4	2966.3	2980.9	2997.7	3012.3
50°	2788.8	2786.7	2801.3	2818.0	2833.7
52.5°	2603.9	2603.9	2617.5	2632.1	2656.1
55°	2418.0	2414.8	2429.5	2446.2	2469.1
57.5°	2230.0	2225.8	2239.4	2256.1	2277.0
60°	2037.8	2033.6	2046.1	2062.8	2092.1
62.5°	1843.5	1837.2	1849.8	1865.4	1883.2
65°	1647.1	1640.9	1652.4	1667.0	1683.7
67.5°	1449.7	1442.4	1453.9	1466.4	1482.1
70°	1251.3	1244.0	1252.3	1264.9	1279.5
72.5°	1053.9	1046.6	1053.9	1059.1	1076.9
75°	860.7	853.3	857.5	861.7	877.4
77.5°	672.6	665.3	673.7	675.8	685.2
80°	496.1	488.8	494.0	495.1	502.4
82.5°	335.3	329.0	336.3	331.1	337.4
85°	193.2	188.0	190.1	188.0	191.1
87.5°	76.2	72.1	73.1	68.9	68.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)