

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: P485181

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-3LO-50-120-EDD**

Issue Date: 3/1/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P485181
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35355)
Test Lab: INNOVATION CENTER
Issue Date: 3/1/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-A125-LD4-3LO-50-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

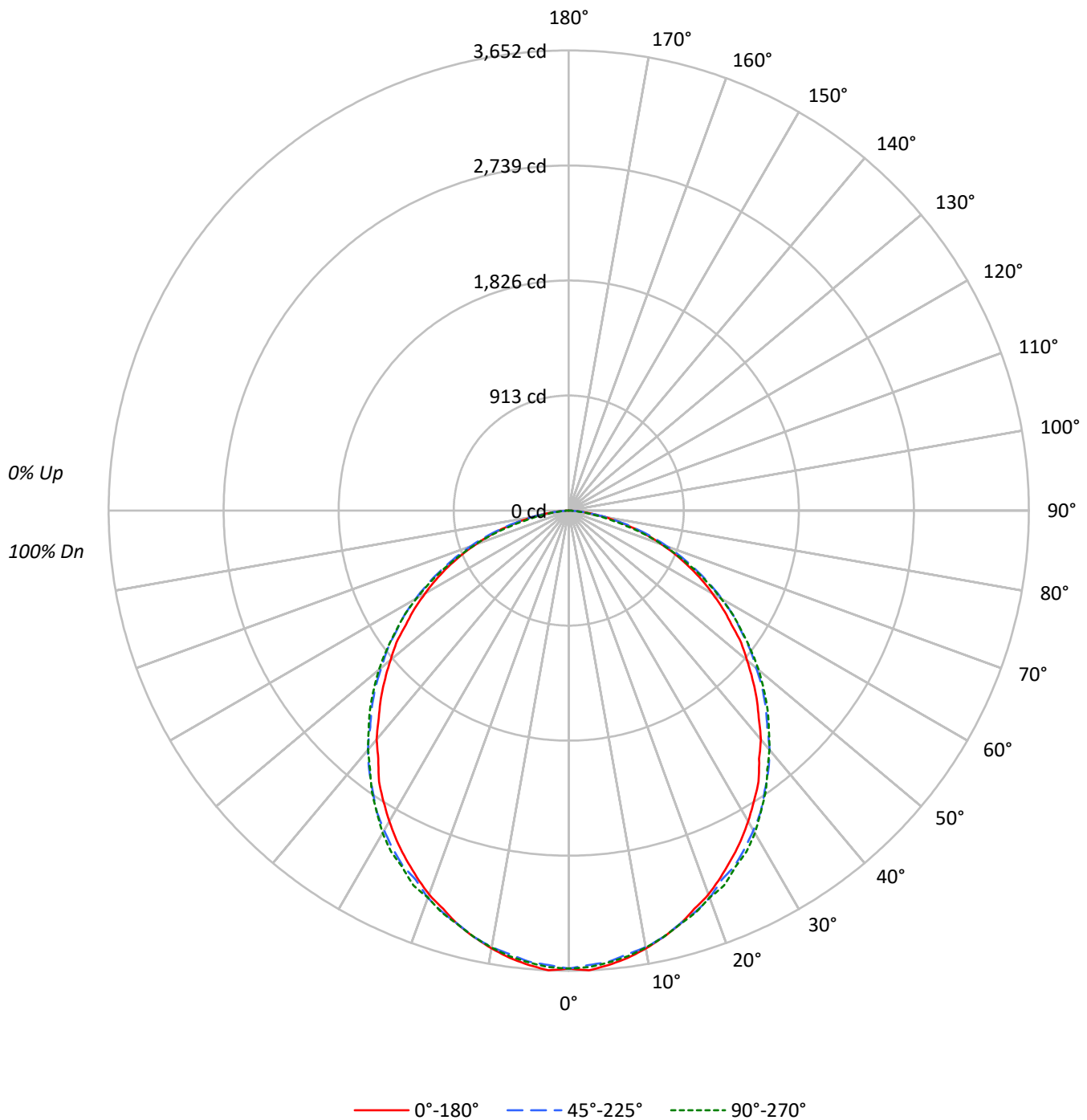
Lumens per Lamp: N/A
Luminaire Lumens: 9335.2 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
Input Voltage (V): NR
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: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	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
1	109	105	101	97	107	102	99	95		98	95	92		94	92	90		91	89	87
2	100	92	85	79	97	90	84	79		86	81	77		83	79	75		80	76	73
3	91	81	73	66	89	79	72	66		76	70	65		73	68	64		71	66	62
4	83	72	63	57	81	70	62	56		68	61	55		66	59	55		63	58	54
5	77	64	55	49	75	63	55	49		61	54	48		59	53	48		57	52	47
6	71	58	49	43	69	57	49	43		55	48	42		53	47	42		52	46	41
7	66	53	44	38	64	52	44	38		50	43	37		49	42	37		47	41	37
8	61	48	40	34	60	47	39	34		46	39	34		45	38	33		44	38	33
9	57	44	36	31	56	44	36	30		42	35	30		41	35	30		40	34	30
10	54	41	33	28	53	40	33	28		39	32	28		38	32	27		37	32	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9780	9780	9780
5°	9780	9710	9726
10°	9643	9611	9621
15°	9477	9466	9472
20°	9287	9367	9361
25°	9068	9245	9275
30°	8848	9107	9181
35°	8630	8910	8950
40°	8335	8711	8704
45°	8031	8409	8492
50°	7728	8128	8236
55°	7402	7840	7887
60°	7090	7561	7507
65°	6718	7098	6959
70°	6191	6519	6223
75°	5475	5702	4979
80°	4404	4465	3479
85°	2884	2760	2025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.6	3.7
10°-20°	960.6	10.3
20°-30°	1430.1	15.3
30°-40°	1683.3	18.0
40°-50°	1687.7	18.1
50°-60°	1480.0	15.9
60°-70°	1082.2	11.6
70°-80°	557.7	6.0
80°-90°	111.9	1.2
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°	2732.3	29.3
0°-40°	4415.6	47.3
0°-60°	7583.4	81.2
0°-90°	9335.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9335.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3634	3634	3634	3634	3634	
5°	3620	3597	3595	3618	3601	343
15°	3402	3408	3398	3420	3400	957
25°	3054	3068	3114	3158	3124	1407
35°	2627	2639	2712	2742	2724	1636
45°	2110	2120	2210	2238	2232	1626
55°	1578	1614	1671	1695	1681	1416
65°	1055	1079	1115	1111	1093	1044
75°	527	531	548	511	479	558
85°	93	91	89	72	66	122
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3634.4	3634.4	3634.4	3634.4	3634.4
2.5°	3652.3	3634.4	3610.6	3630.4	3626.5
5°	3620.5	3596.6	3594.7	3618.5	3600.6
7.5°	3580.8	3576.8	3552.9	3578.8	3568.8
10°	3529.1	3525.1	3517.2	3535.0	3521.1
12.5°	3467.5	3463.5	3467.5	3477.4	3467.5
15°	3401.9	3407.9	3397.9	3419.8	3399.9
17.5°	3314.5	3320.4	3340.3	3348.3	3346.3
20°	3242.9	3246.9	3270.8	3302.6	3268.8
22.5°	3149.6	3159.5	3171.4	3229.0	3221.1
25°	3054.2	3068.1	3113.8	3157.5	3123.7
27.5°	2954.8	2968.7	3024.4	3056.2	3052.2
30°	2847.5	2861.4	2931.0	2974.7	2954.8
32.5°	2736.2	2760.1	2835.6	2873.3	2835.6
35°	2626.9	2638.9	2712.4	2742.2	2724.3
37.5°	2481.9	2527.6	2601.1	2621.0	2589.2
40°	2372.6	2374.6	2479.9	2479.9	2477.9
42.5°	2231.5	2263.3	2332.9	2370.6	2350.7
45°	2110.3	2120.2	2209.7	2237.5	2231.5
47.5°	1977.2	2016.9	2082.5	2114.3	2098.4
50°	1846.0	1873.8	1941.4	1983.1	1967.2
52.5°	1724.8	1746.7	1816.2	1840.1	1824.2
55°	1577.8	1613.5	1671.1	1695.0	1681.1
57.5°	1450.6	1476.4	1547.9	1555.9	1547.9
60°	1317.4	1347.3	1404.9	1410.8	1394.9
62.5°	1190.3	1210.1	1261.8	1263.8	1245.9
65°	1055.1	1079.0	1114.8	1110.8	1092.9
67.5°	922.0	937.9	971.7	957.8	937.9
70°	786.9	800.8	828.6	808.7	790.9
72.5°	655.7	665.7	689.5	659.7	637.9
75°	526.6	530.6	548.4	510.7	478.9
77.5°	399.4	403.4	413.3	375.6	339.8
80°	284.2	284.2	288.1	248.4	224.5
82.5°	178.8	178.8	176.9	147.0	133.1
85°	93.4	91.4	89.4	71.5	65.6
87.5°	33.8	33.8	27.8	25.8	27.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)