

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: P485086

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-1HI-20-120-EDD-90**

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: P485086
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-LD4-1HI-20-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

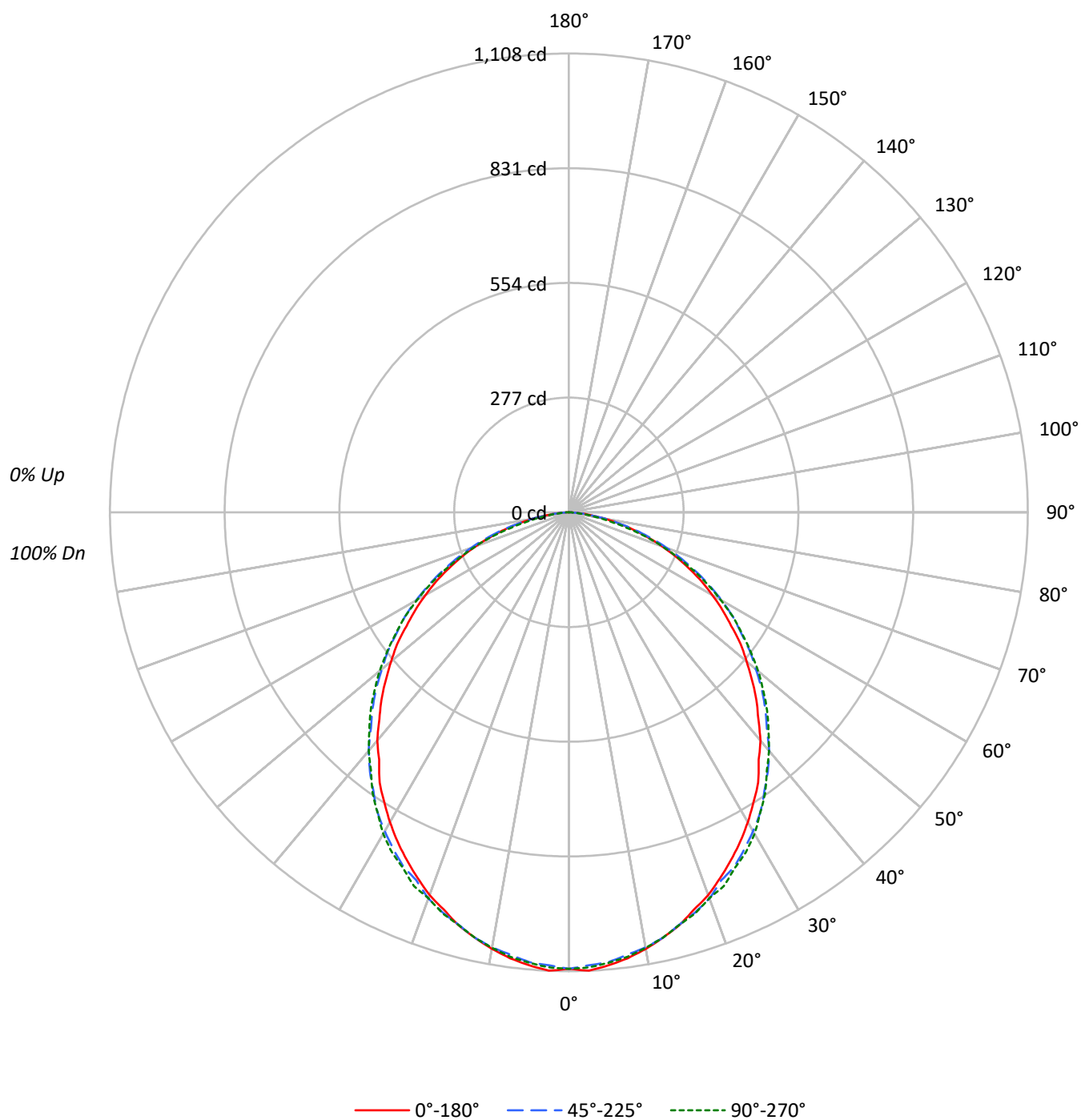
Lumens per Lamp: N/A
Luminaire Lumens: 2831.4 lumens
Efficiency: N/A
Efficacy: 64.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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°	2966	2966	2966
5°	2966	2945	2950
10°	2925	2915	2918
15°	2874	2871	2873
20°	2817	2841	2839
25°	2750	2804	2813
30°	2684	2762	2785
35°	2618	2703	2714
40°	2528	2642	2640
45°	2436	2551	2576
50°	2344	2465	2498
55°	2245	2378	2392
60°	2151	2293	2277
65°	2038	2153	2111
70°	1878	1977	1888
75°	1660	1729	1510
80°	1336	1354	1055
85°	874	837	614



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	3.7
10°-20°	291.3	10.3
20°-30°	433.8	15.3
30°-40°	510.6	18.0
40°-50°	511.9	18.1
50°-60°	448.9	15.9
60°-70°	328.2	11.6
70°-80°	169.2	6.0
80°-90°	33.9	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°	828.7	29.3
0°-40°	1339.3	47.3
0°-60°	2300.1	81.2
0°-90°	2831.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2831.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1102	1102	1102	1102	1102	
5°	1098	1091	1090	1098	1092	104
15°	1032	1034	1031	1037	1031	290
25°	926	931	944	958	947	427
35°	797	800	823	832	826	496
45°	640	643	670	679	677	493
55°	478	489	507	514	510	430
65°	320	327	338	337	332	317
75°	160	161	166	155	145	169
85°	28	28	27	22	20	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1102.3	1102.3	1102.3	1102.3	1102.3
2.5°	1107.8	1102.3	1095.1	1101.1	1099.9
5°	1098.1	1090.9	1090.3	1097.5	1092.1
7.5°	1086.1	1084.8	1077.6	1085.5	1082.4
10°	1070.4	1069.2	1066.8	1072.2	1068.0
12.5°	1051.7	1050.5	1051.7	1054.7	1051.7
15°	1031.8	1033.6	1030.6	1037.2	1031.2
17.5°	1005.3	1007.1	1013.1	1015.5	1014.9
20°	983.6	984.8	992.0	1001.7	991.4
22.5°	955.3	958.3	961.9	979.4	977.0
25°	926.3	930.6	944.4	957.7	947.4
27.5°	896.2	900.4	917.3	926.9	925.7
30°	863.7	867.9	889.0	902.2	896.2
32.5°	829.9	837.1	860.0	871.5	860.0
35°	796.8	800.4	822.7	831.7	826.3
37.5°	752.8	766.6	788.9	795.0	785.3
40°	719.6	720.2	752.2	752.2	751.6
42.5°	676.8	686.5	707.6	719.0	713.0
45°	640.1	643.1	670.2	678.6	676.8
47.5°	599.7	611.7	631.6	641.3	636.4
50°	559.9	568.3	588.8	601.5	596.7
52.5°	523.1	529.8	550.9	558.1	553.3
55°	478.5	489.4	506.9	514.1	509.9
57.5°	440.0	447.8	469.5	471.9	469.5
60°	399.6	408.6	426.1	427.9	423.1
62.5°	361.0	367.0	382.7	383.3	377.9
65°	320.0	327.3	338.1	336.9	331.5
67.5°	279.7	284.5	294.7	290.5	284.5
70°	238.7	242.9	251.3	245.3	239.9
72.5°	198.9	201.9	209.1	200.1	193.5
75°	159.7	160.9	166.3	154.9	145.2
77.5°	121.1	122.3	125.4	113.9	103.1
80°	86.2	86.2	87.4	75.3	68.1
82.5°	54.2	54.2	53.6	44.6	40.4
85°	28.3	27.7	27.1	21.7	19.9
87.5°	10.2	10.2	8.4	7.8	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)