

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: P485106

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-1LO-40-120-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: P485106
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-LD4-1LO-40-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

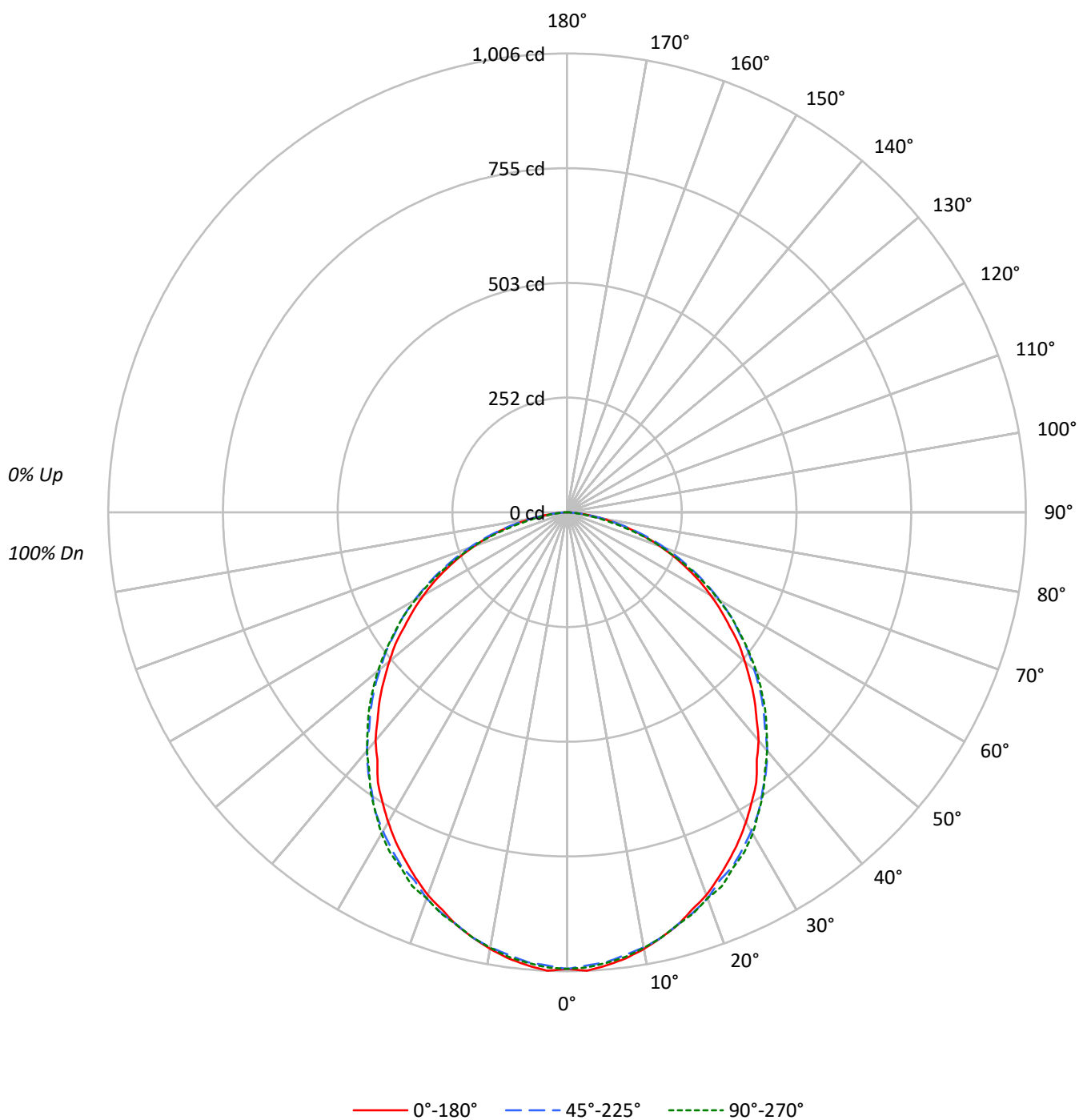
Lumens per Lamp: N/A
Luminaire Lumens: 2571.0 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	2693	2693	2693
5°	2693	2674	2679
10°	2656	2647	2650
15°	2610	2607	2609
20°	2558	2580	2578
25°	2497	2546	2554
30°	2437	2508	2529
35°	2377	2454	2465
40°	2295	2399	2397
45°	2212	2316	2339
50°	2128	2238	2268
55°	2038	2159	2172
60°	1953	2082	2068
65°	1850	1955	1917
70°	1705	1795	1714
75°	1508	1570	1371
80°	1213	1230	958
85°	794	760	559



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.1	3.7
10°-20°	264.6	10.3
20°-30°	393.9	15.3
30°-40°	463.6	18.0
40°-50°	464.8	18.1
50°-60°	407.6	15.9
60°-70°	298.0	11.6
70°-80°	153.6	6.0
80°-90°	30.8	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°	752.5	29.3
0°-40°	1216.1	47.3
0°-60°	2088.5	81.2
0°-90°	2571.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2571.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1001	1001	1001	1001	1001	
5°	997	990	990	997	992	94
15°	937	939	936	942	936	264
25°	841	845	858	870	860	387
35°	724	727	747	755	750	451
45°	581	584	609	616	615	448
55°	434	444	460	467	463	390
65°	291	297	307	306	301	287
75°	145	146	151	141	132	154
85°	26	25	25	20	18	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1000.9	1000.9	1000.9	1000.9	1000.9
2.5°	1005.9	1000.9	994.4	999.9	998.8
5°	997.1	990.5	990.0	996.6	991.6
7.5°	986.2	985.1	978.5	985.6	982.9
10°	971.9	970.8	968.7	973.6	969.8
12.5°	955.0	953.9	955.0	957.7	955.0
15°	936.9	938.6	935.8	941.8	936.4
17.5°	912.8	914.5	920.0	922.1	921.6
20°	893.1	894.2	900.8	909.6	900.3
22.5°	867.4	870.2	873.4	889.3	887.1
25°	841.1	845.0	857.6	869.6	860.3
27.5°	813.8	817.6	832.9	841.7	840.6
30°	784.2	788.1	807.2	819.3	813.8
32.5°	753.6	760.2	780.9	791.3	780.9
35°	723.5	726.8	747.0	755.2	750.3
37.5°	683.5	696.1	716.4	721.8	713.1
40°	653.4	654.0	683.0	683.0	682.4
42.5°	614.6	623.3	642.5	652.9	647.4
45°	581.2	583.9	608.6	616.2	614.6
47.5°	544.5	555.5	573.5	582.3	577.9
50°	508.4	516.1	534.7	546.2	541.8
52.5°	475.0	481.0	500.2	506.8	502.4
55°	434.5	444.4	460.2	466.8	463.0
57.5°	399.5	406.6	426.3	428.5	426.3
60°	362.8	371.0	386.9	388.6	384.2
62.5°	327.8	333.3	347.5	348.1	343.1
65°	290.6	297.2	307.0	305.9	301.0
67.5°	253.9	258.3	267.6	263.8	258.3
70°	216.7	220.5	228.2	222.7	217.8
72.5°	180.6	183.3	189.9	181.7	175.7
75°	145.0	146.1	151.0	140.6	131.9
77.5°	110.0	111.1	113.8	103.4	93.6
80°	78.3	78.3	79.4	68.4	61.8
82.5°	49.3	49.3	48.7	40.5	36.7
85°	25.7	25.2	24.6	19.7	18.1
87.5°	9.3	9.3	7.7	7.1	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)