

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: P485170

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-3LO-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: P485170
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-20-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

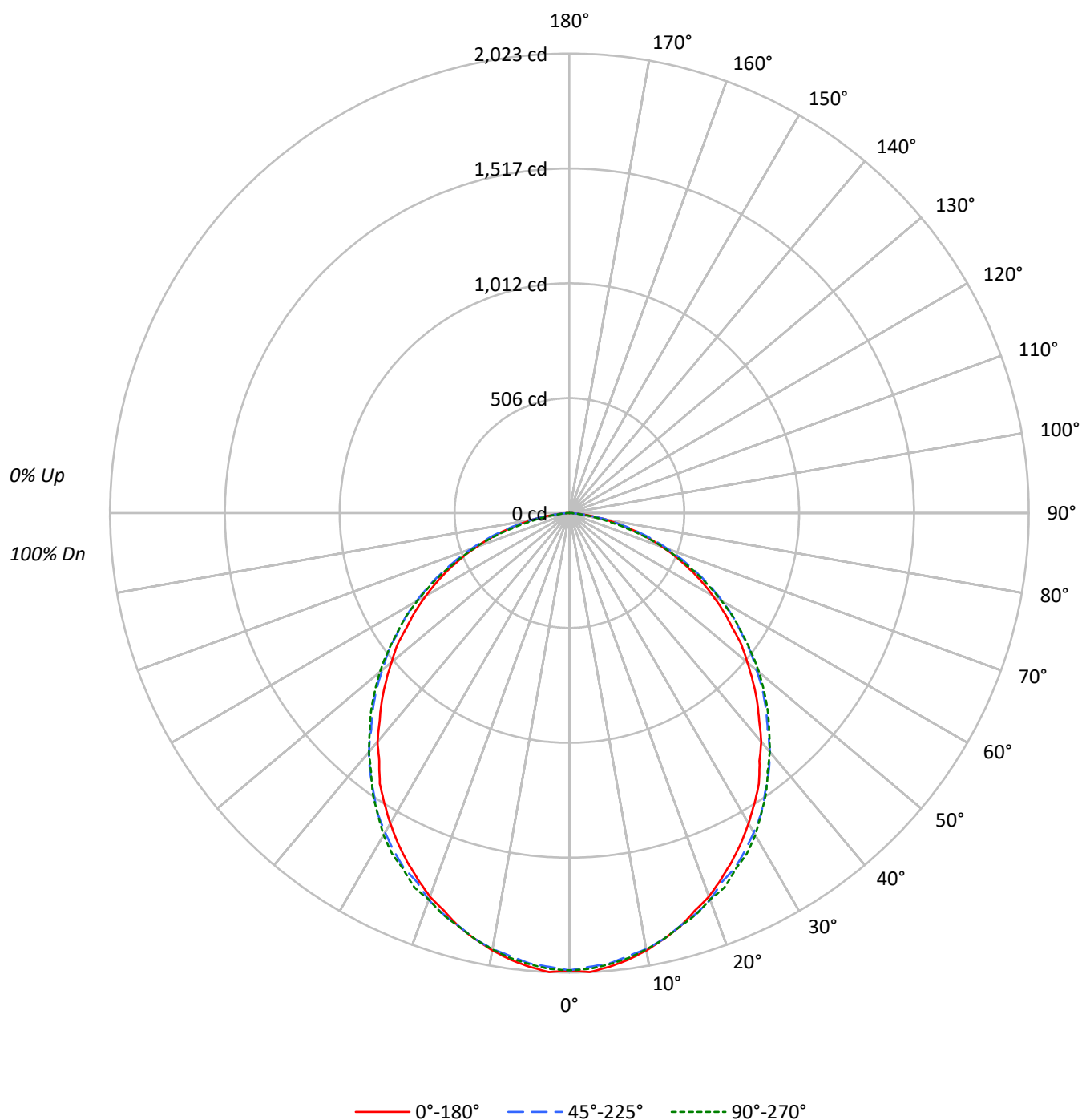
Lumens per Lamp: N/A
Luminaire Lumens: 5171.3 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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					10
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°	5418	5418	5418
5°	5418	5379	5388
10°	5342	5324	5330
15°	5250	5244	5247
20°	5145	5189	5186
25°	5024	5122	5138
30°	4901	5045	5086
35°	4780	4936	4958
40°	4617	4826	4822
45°	4449	4658	4705
50°	4281	4502	4562
55°	4100	4343	4369
60°	3928	4188	4159
65°	3722	3932	3855
70°	3430	3611	3447
75°	3033	3159	2758
80°	2439	2473	1928
85°	1596	1528	1121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.2	3.7
10°-20°	532.1	10.3
20°-30°	792.2	15.3
30°-40°	932.5	18.0
40°-50°	934.9	18.1
50°-60°	819.9	15.9
60°-70°	599.5	11.6
70°-80°	309.0	6.0
80°-90°	62.0	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°	1513.6	29.3
0°-40°	2446.1	47.3
0°-60°	4200.9	81.2
0°-90°	5171.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5171.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2013	2013	2013	2013	2013	
5°	2006	1992	1991	2004	1995	190
15°	1884	1888	1882	1894	1883	530
25°	1692	1700	1725	1749	1730	779
35°	1455	1462	1502	1519	1509	906
45°	1169	1174	1224	1240	1236	901
55°	874	894	926	939	931	785
65°	584	598	618	615	605	578
75°	292	294	304	283	265	309
85°	52	51	50	40	36	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2013.3	2013.3	2013.3	2013.3	2013.3
2.5°	2023.2	2013.3	2000.1	2011.1	2008.9
5°	2005.6	1992.4	1991.3	2004.5	1994.6
7.5°	1983.6	1981.4	1968.2	1982.5	1977.0
10°	1955.0	1952.8	1948.4	1958.3	1950.6
12.5°	1920.8	1918.6	1920.8	1926.3	1920.8
15°	1884.5	1887.8	1882.3	1894.4	1883.4
17.5°	1836.1	1839.4	1850.4	1854.8	1853.7
20°	1796.5	1798.7	1811.9	1829.5	1810.8
22.5°	1744.7	1750.2	1756.8	1788.7	1784.3
25°	1691.9	1699.6	1724.9	1749.1	1730.4
27.5°	1636.8	1644.5	1675.4	1693.0	1690.8
30°	1577.4	1585.1	1623.6	1647.8	1636.8
32.5°	1515.8	1529.0	1570.8	1591.7	1570.8
35°	1455.2	1461.8	1502.5	1519.1	1509.2
37.5°	1374.9	1400.2	1440.9	1451.9	1434.3
40°	1314.3	1315.4	1373.8	1373.8	1372.7
42.5°	1236.2	1253.8	1292.3	1313.2	1302.2
45°	1169.0	1174.5	1224.1	1239.5	1236.2
47.5°	1095.3	1117.3	1153.6	1171.2	1162.4
50°	1022.6	1038.0	1075.4	1098.6	1089.8
52.5°	955.5	967.6	1006.1	1019.3	1010.5
55°	874.0	893.8	925.7	939.0	931.2
57.5°	803.6	817.9	857.5	861.9	857.5
60°	729.8	746.3	778.2	781.5	772.7
62.5°	659.4	670.4	699.0	700.1	690.2
65°	584.5	597.7	617.5	615.3	605.4
67.5°	510.8	519.6	538.3	530.6	519.6
70°	435.9	443.6	459.0	448.0	438.1
72.5°	363.3	368.8	382.0	365.5	353.3
75°	291.7	293.9	303.8	282.9	265.3
77.5°	221.3	223.5	229.0	208.0	188.2
80°	157.4	157.4	159.6	137.6	124.4
82.5°	99.1	99.1	98.0	81.5	73.8
85°	51.7	50.6	49.5	39.6	36.3
87.5°	18.7	18.7	15.4	14.3	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)