

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: P485138

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-2LO-30-120-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: P485138
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-LD4-2LO-30-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

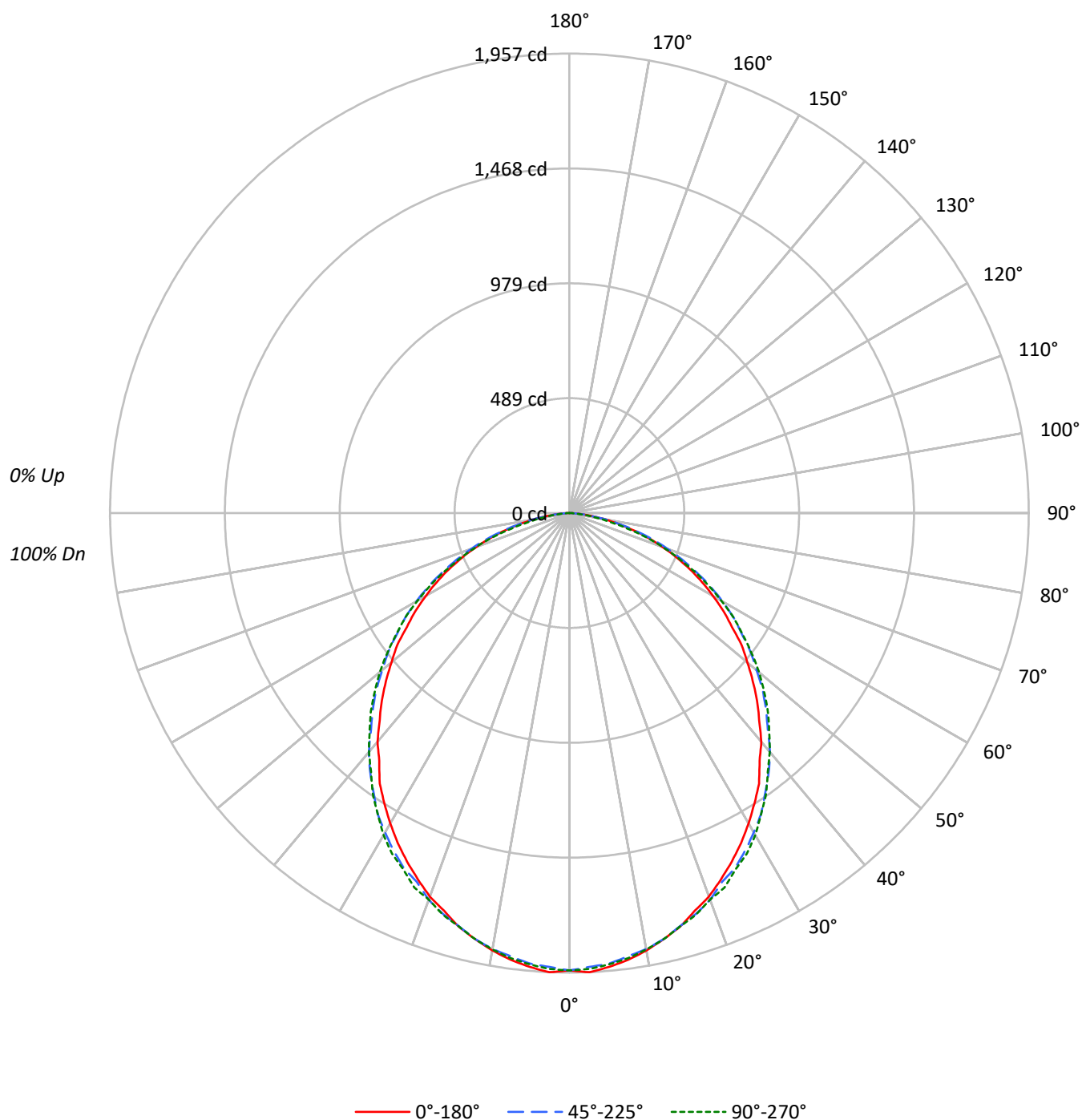
Lumens per Lamp: N/A
Luminaire Lumens: 5003.1 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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	0		
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71		
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60		
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39		
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31		
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5241	5241	5241
5°	5242	5204	5213
10°	5168	5151	5156
15°	5079	5073	5076
20°	4977	5020	5017
25°	4860	4955	4971
30°	4742	4881	4921
35°	4625	4776	4797
40°	4467	4669	4665
45°	4304	4507	4552
50°	4142	4356	4414
55°	3967	4202	4227
60°	3800	4052	4024
65°	3601	3804	3729
70°	3318	3494	3335
75°	2934	3056	2669
80°	2360	2393	1864
85°	1547	1479	1084



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.1	3.7
10°-20°	514.8	10.3
20°-30°	766.5	15.3
30°-40°	902.2	18.0
40°-50°	904.5	18.1
50°-60°	793.2	15.9
60°-70°	580.0	11.6
70°-80°	298.9	6.0
80°-90°	60.0	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°	1464.3	29.3
0°-40°	2366.5	47.3
0°-60°	4064.2	81.2
0°-90°	5003.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5003.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1948	1948	1948	1948	1948	
5°	1940	1928	1926	1939	1930	184
15°	1823	1826	1821	1833	1822	513
25°	1637	1644	1669	1692	1674	754
35°	1408	1414	1454	1470	1460	877
45°	1131	1136	1184	1199	1196	872
55°	846	865	896	908	901	759
65°	566	578	597	595	586	559
75°	282	284	294	274	257	299
85°	50	49	48	38	35	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1947.8	1947.8	1947.8	1947.8	1947.8
2.5°	1957.4	1947.8	1935.0	1945.7	1943.6
5°	1940.4	1927.6	1926.5	1939.3	1929.7
7.5°	1919.1	1916.9	1904.2	1918.0	1912.7
10°	1891.4	1889.2	1885.0	1894.6	1887.1
12.5°	1858.4	1856.2	1858.4	1863.7	1858.4
15°	1823.2	1826.4	1821.1	1832.8	1822.2
17.5°	1776.4	1779.6	1790.2	1794.5	1793.4
20°	1738.0	1740.2	1752.9	1770.0	1751.9
22.5°	1688.0	1693.3	1699.7	1730.6	1726.3
25°	1636.8	1644.3	1668.8	1692.2	1674.1
27.5°	1583.6	1591.1	1620.9	1637.9	1635.8
30°	1526.1	1533.5	1570.8	1594.3	1583.6
32.5°	1466.5	1479.2	1519.7	1539.9	1519.7
35°	1407.9	1414.3	1453.7	1469.7	1460.1
37.5°	1330.1	1354.6	1394.0	1404.7	1387.6
40°	1271.6	1272.6	1329.1	1329.1	1328.0
42.5°	1196.0	1213.0	1250.3	1270.5	1259.9
45°	1131.0	1136.3	1184.2	1199.1	1196.0
47.5°	1059.6	1080.9	1116.1	1133.1	1124.6
50°	989.4	1004.3	1040.5	1062.8	1054.3
52.5°	924.4	936.1	973.4	986.2	977.6
55°	845.6	864.8	895.6	908.4	901.0
57.5°	777.4	791.3	829.6	833.9	829.6
60°	706.1	722.0	752.9	756.1	747.6
62.5°	637.9	648.6	676.3	677.3	667.7
65°	565.5	578.3	597.4	595.3	585.7
67.5°	494.1	502.7	520.8	513.3	502.7
70°	421.7	429.2	444.1	433.4	423.9
72.5°	351.4	356.8	369.5	353.6	341.9
75°	282.2	284.3	293.9	273.7	256.7
77.5°	214.1	216.2	221.5	201.3	182.1
80°	152.3	152.3	154.4	133.1	120.3
82.5°	95.8	95.8	94.8	78.8	71.4
85°	50.1	49.0	47.9	38.3	35.1
87.5°	18.1	18.1	14.9	13.8	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)