

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: P485142

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-2LO-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: P485142
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-40-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

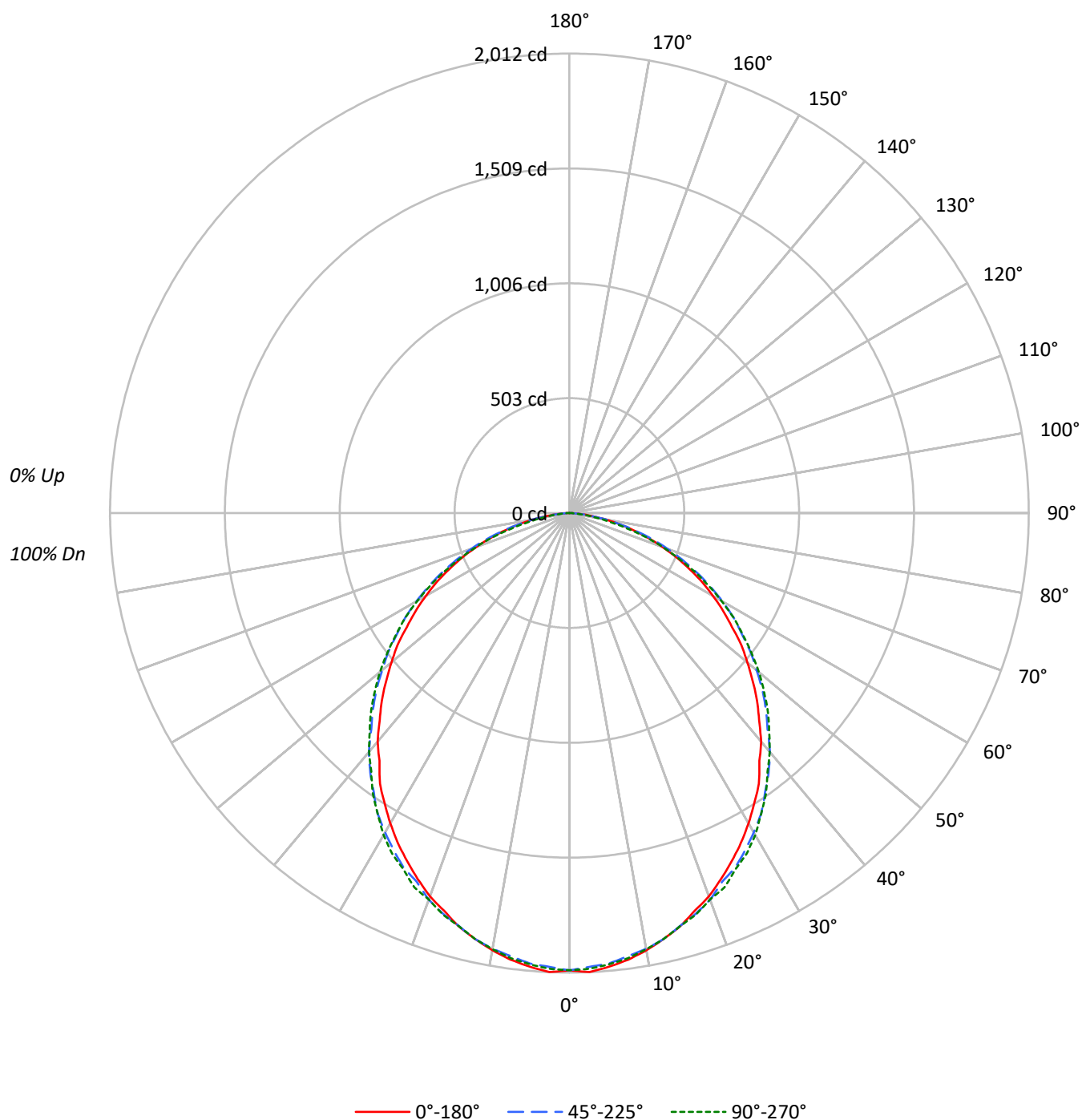
Lumens per Lamp: N/A
Luminaire Lumens: 5141.9 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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					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°	5387	5387	5387
5°	5387	5348	5357
10°	5311	5294	5300
15°	5220	5214	5217
20°	5115	5159	5156
25°	4995	5092	5109
30°	4873	5016	5057
35°	4753	4908	4930
40°	4591	4798	4795
45°	4424	4632	4677
50°	4257	4477	4536
55°	4077	4319	4344
60°	3906	4165	4135
65°	3701	3910	3833
70°	3410	3591	3427
75°	3015	3141	2743
80°	2425	2459	1917
85°	1587	1522	1115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.2	3.7
10°-20°	529.1	10.3
20°-30°	787.7	15.3
30°-40°	927.2	18.0
40°-50°	929.6	18.1
50°-60°	815.2	15.9
60°-70°	596.1	11.6
70°-80°	307.2	6.0
80°-90°	61.6	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°	1505.0	29.3
0°-40°	2432.1	47.3
0°-60°	4176.9	81.2
0°-90°	5141.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5141.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2002	2002	2002	2002	2002	
5°	1994	1981	1980	1993	1983	189
15°	1874	1877	1872	1884	1873	527
25°	1682	1690	1715	1739	1721	775
35°	1447	1454	1494	1510	1501	901
45°	1162	1168	1217	1232	1229	896
55°	869	889	920	934	926	780
65°	581	594	614	612	602	575
75°	290	292	302	281	264	307
85°	51	50	49	39	36	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2001.9	2001.9	2001.9	2001.9	2001.9
2.5°	2011.7	2001.9	1988.7	1999.7	1997.5
5°	1994.2	1981.1	1980.0	1993.1	1983.3
7.5°	1972.3	1970.1	1957.0	1971.2	1965.7
10°	1943.8	1941.7	1937.3	1947.1	1939.5
12.5°	1909.9	1907.7	1909.9	1915.4	1909.9
15°	1873.8	1877.1	1871.6	1883.6	1872.7
17.5°	1825.6	1828.9	1839.9	1844.2	1843.2
20°	1786.2	1788.4	1801.6	1819.1	1800.5
22.5°	1734.8	1740.3	1746.8	1778.6	1774.2
25°	1682.3	1689.9	1715.1	1739.2	1720.6
27.5°	1627.5	1635.2	1665.8	1683.4	1681.2
30°	1568.4	1576.1	1614.4	1638.5	1627.5
32.5°	1507.1	1520.3	1561.9	1582.7	1561.9
35°	1446.9	1453.5	1494.0	1510.4	1500.6
37.5°	1367.0	1392.2	1432.7	1443.7	1426.1
40°	1306.8	1307.9	1365.9	1365.9	1364.9
42.5°	1229.1	1246.6	1285.0	1305.7	1294.8
45°	1162.4	1167.8	1217.1	1232.4	1229.1
47.5°	1089.0	1110.9	1147.0	1164.6	1155.8
50°	1016.8	1032.1	1069.3	1092.3	1083.6
52.5°	950.0	962.1	1000.4	1013.5	1004.8
55°	869.0	888.7	920.5	933.6	926.0
57.5°	799.0	813.2	852.6	857.0	852.6
60°	725.7	742.1	773.8	777.1	768.3
62.5°	655.6	666.6	695.0	696.1	686.3
65°	581.2	594.3	614.0	611.8	602.0
67.5°	507.9	516.6	535.2	527.6	516.6
70°	433.4	441.1	456.4	445.5	435.6
72.5°	361.2	366.7	379.8	363.4	351.3
75°	290.0	292.2	302.1	281.3	263.8
77.5°	220.0	222.2	227.7	206.9	187.2
80°	156.5	156.5	158.7	136.8	123.7
82.5°	98.5	98.5	97.4	81.0	73.3
85°	51.4	50.3	49.3	39.4	36.1
87.5°	18.6	18.6	15.3	14.2	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)