

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: P485972

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-4LO-50-120-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: P485972
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-24-2-INS-A125-LD4-4LO-50-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

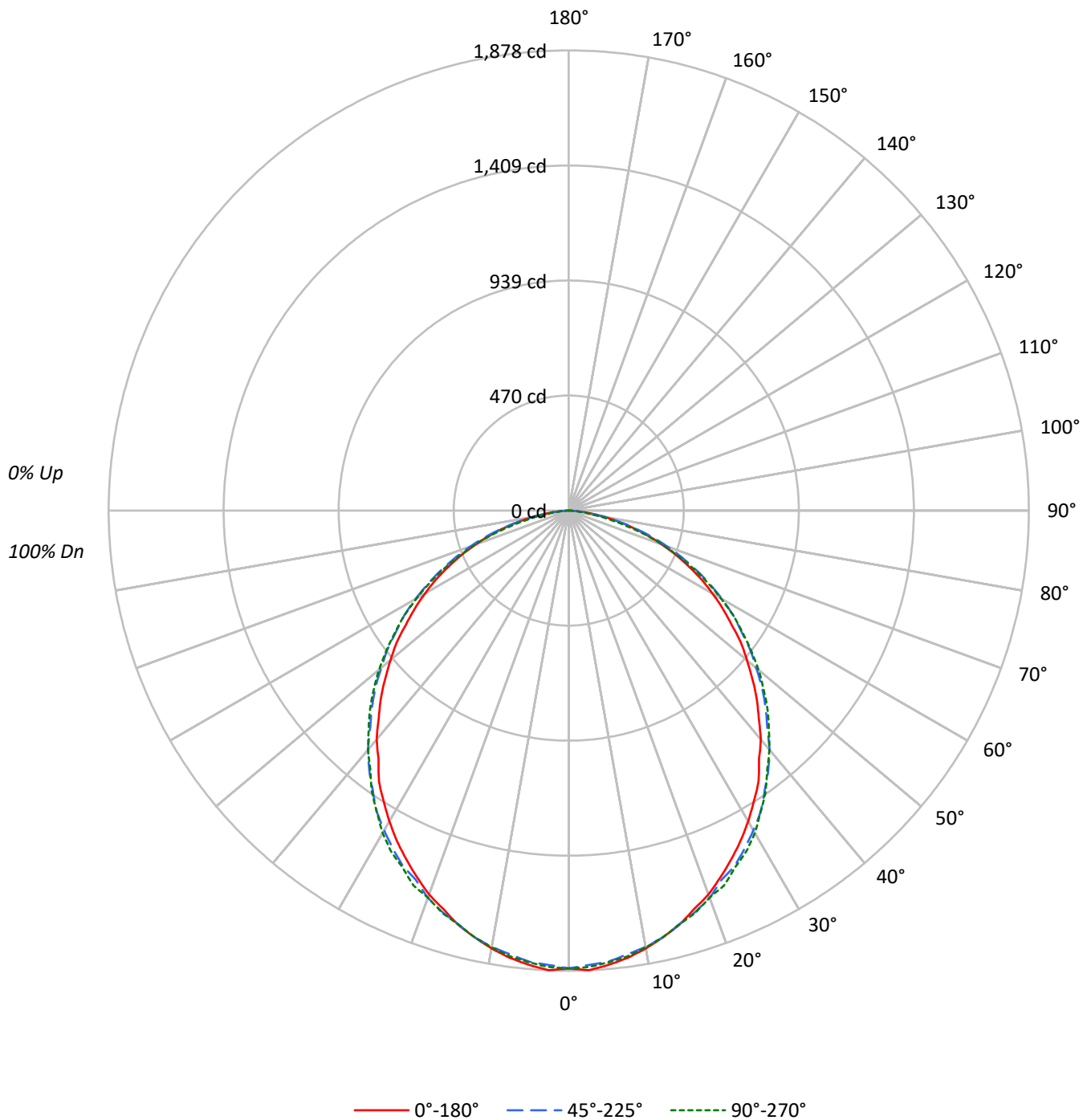
Lumens per Lamp: N/A
Luminaire Lumens: 4799.2 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	5028	5028	5028
5°	5028	4992	5000
10°	4958	4941	4946
15°	4872	4867	4869
20°	4774	4815	4812
25°	4662	4753	4768
30°	4549	4682	4720
35°	4436	4581	4601
40°	4285	4478	4475
45°	4129	4323	4366
50°	3973	4178	4234
55°	3805	4031	4054
60°	3645	3887	3859
65°	3454	3649	3578
70°	3183	3352	3199
75°	2815	2932	2560
80°	2264	2295	1788
85°	1482	1420	1041



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.6	3.7
10°-20°	493.8	10.3
20°-30°	735.2	15.3
30°-40°	865.4	18.0
40°-50°	867.7	18.1
50°-60°	760.9	15.9
60°-70°	556.4	11.6
70°-80°	286.7	6.0
80°-90°	57.5	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°	1404.7	29.3
0°-40°	2270.0	47.3
0°-60°	3898.6	81.2
0°-90°	4799.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4799.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1868	1868	1868	1868	1868	
5°	1861	1849	1848	1860	1851	176
15°	1749	1752	1747	1758	1748	492
25°	1570	1577	1601	1623	1606	723
35°	1350	1357	1394	1410	1401	841
45°	1085	1090	1136	1150	1147	836
55°	811	830	859	871	864	728
65°	542	555	573	571	562	537
75°	271	273	282	262	246	287
85°	48	47	46	37	34	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1868.4	1868.4	1868.4	1868.4	1868.4
2.5°	1877.6	1868.4	1856.2	1866.4	1864.3
5°	1861.3	1849.0	1848.0	1860.3	1851.1
7.5°	1840.9	1838.8	1826.6	1839.8	1834.7
10°	1814.3	1812.3	1808.2	1817.4	1810.2
12.5°	1782.6	1780.6	1782.6	1787.7	1782.6
15°	1748.9	1752.0	1746.9	1758.1	1747.9
17.5°	1704.0	1707.0	1717.2	1721.3	1720.3
20°	1667.2	1669.2	1681.5	1697.8	1680.5
22.5°	1619.2	1624.3	1630.4	1660.0	1656.0
25°	1570.1	1577.3	1600.8	1623.3	1605.9
27.5°	1519.1	1526.2	1554.8	1571.2	1569.1
30°	1463.9	1471.0	1506.8	1529.3	1519.1
32.5°	1406.7	1418.9	1457.8	1477.2	1457.8
35°	1350.5	1356.6	1394.4	1409.8	1400.6
37.5°	1275.9	1299.4	1337.2	1347.4	1331.1
40°	1219.7	1220.8	1274.9	1274.9	1273.9
42.5°	1147.2	1163.6	1199.3	1218.7	1208.5
45°	1084.9	1090.0	1136.0	1150.3	1147.2
47.5°	1016.5	1036.9	1070.6	1086.9	1078.8
50°	949.0	963.3	998.1	1019.5	1011.3
52.5°	886.7	898.0	933.7	946.0	937.8
55°	811.1	829.5	859.1	871.4	864.2
57.5°	745.7	759.0	795.8	799.9	795.8
60°	677.3	692.6	722.2	725.3	717.1
62.5°	611.9	622.1	648.7	649.7	640.5
65°	542.4	554.7	573.1	571.1	561.9
67.5°	474.0	482.2	499.5	492.4	482.2
70°	404.5	411.7	426.0	415.8	406.6
72.5°	337.1	342.2	354.5	339.2	327.9
75°	270.7	272.8	282.0	262.5	246.2
77.5°	205.3	207.4	212.5	193.1	174.7
80°	146.1	146.1	148.1	127.7	115.4
82.5°	91.9	91.9	90.9	75.6	68.4
85°	48.0	47.0	46.0	36.8	33.7
87.5°	17.4	17.4	14.3	13.3	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)