

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: P485970

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-4LO-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: P485970
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-40-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

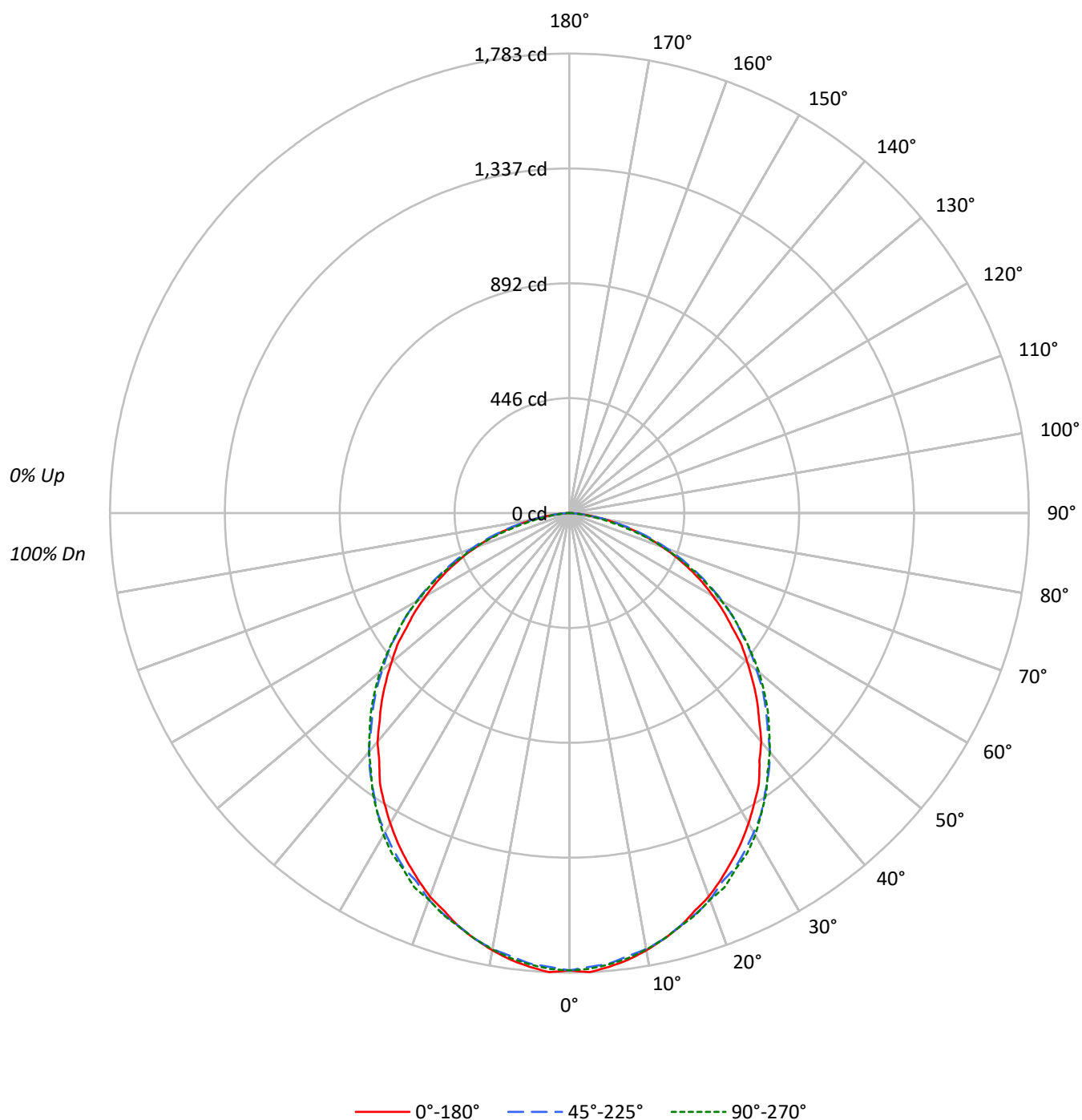
Lumens per Lamp: N/A
Luminaire Lumens: 4557.7 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	4775	4775	4775
5°	4775	4741	4749
10°	4708	4692	4697
15°	4627	4622	4624
20°	4534	4573	4570
25°	4427	4514	4528
30°	4320	4447	4483
35°	4213	4350	4369
40°	4069	4253	4250
45°	3921	4106	4146
50°	3773	3968	4021
55°	3614	3828	3851
60°	3462	3691	3665
65°	3280	3466	3398
70°	3023	3183	3038
75°	2673	2784	2431
80°	2149	2180	1698
85°	1408	1349	988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.8	3.7
10°-20°	469.0	10.3
20°-30°	698.2	15.3
30°-40°	821.8	18.0
40°-50°	824.0	18.1
50°-60°	722.6	15.9
60°-70°	528.4	11.6
70°-80°	272.3	6.0
80°-90°	54.6	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°	1334.0	29.3
0°-40°	2155.8	47.3
0°-60°	3702.4	81.2
0°-90°	4557.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4557.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1774	1774	1774	1774	1774	
5°	1768	1756	1755	1767	1758	167
15°	1661	1664	1659	1670	1660	467
25°	1491	1498	1520	1542	1525	687
35°	1282	1288	1324	1339	1330	799
45°	1030	1035	1079	1092	1090	794
55°	770	788	816	828	821	691
65°	515	527	544	542	534	510
75°	257	259	268	249	234	272
85°	46	45	44	35	32	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1774.4	1774.4	1774.4	1774.4	1774.4
2.5°	1783.1	1774.4	1762.8	1772.5	1770.5
5°	1767.6	1756.0	1755.0	1766.7	1757.9
7.5°	1748.2	1746.3	1734.6	1747.3	1742.4
10°	1723.0	1721.1	1717.2	1725.9	1719.1
12.5°	1692.9	1691.0	1692.9	1697.8	1692.9
15°	1660.9	1663.8	1659.0	1669.6	1659.9
17.5°	1618.2	1621.1	1630.8	1634.7	1633.7
20°	1583.3	1585.2	1596.9	1612.4	1595.9
22.5°	1537.7	1542.5	1548.4	1576.5	1572.6
25°	1491.1	1497.9	1520.2	1541.6	1525.1
27.5°	1442.6	1449.4	1476.6	1492.1	1490.2
30°	1390.2	1397.0	1431.0	1452.3	1442.6
32.5°	1335.9	1347.5	1384.4	1402.8	1384.4
35°	1282.5	1288.4	1324.3	1338.8	1330.1
37.5°	1211.7	1234.0	1269.9	1279.6	1264.1
40°	1158.4	1159.3	1210.8	1210.8	1209.8
42.5°	1089.5	1105.0	1139.0	1157.4	1147.7
45°	1030.3	1035.2	1078.8	1092.4	1089.5
47.5°	965.3	984.7	1016.7	1032.2	1024.5
50°	901.3	914.9	947.8	968.2	960.5
52.5°	842.1	852.8	886.7	898.4	890.6
55°	770.3	787.8	815.9	827.5	820.8
57.5°	708.2	720.8	755.8	759.6	755.8
60°	643.2	657.8	685.9	688.8	681.0
62.5°	581.1	590.8	616.0	617.0	608.3
65°	515.2	526.8	544.3	542.3	533.6
67.5°	450.2	457.9	474.4	467.6	457.9
70°	384.2	391.0	404.6	394.9	386.1
72.5°	320.2	325.0	336.6	322.1	311.4
75°	257.1	259.0	267.8	249.3	233.8
77.5°	195.0	196.9	201.8	183.4	165.9
80°	138.7	138.7	140.7	121.3	109.6
82.5°	87.3	87.3	86.3	71.8	65.0
85°	45.6	44.6	43.7	34.9	32.0
87.5°	16.5	16.5	13.6	12.6	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)