

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: P485889

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-2HI-50-120-EDD**

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: P485889
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-LD4-2HI-50-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

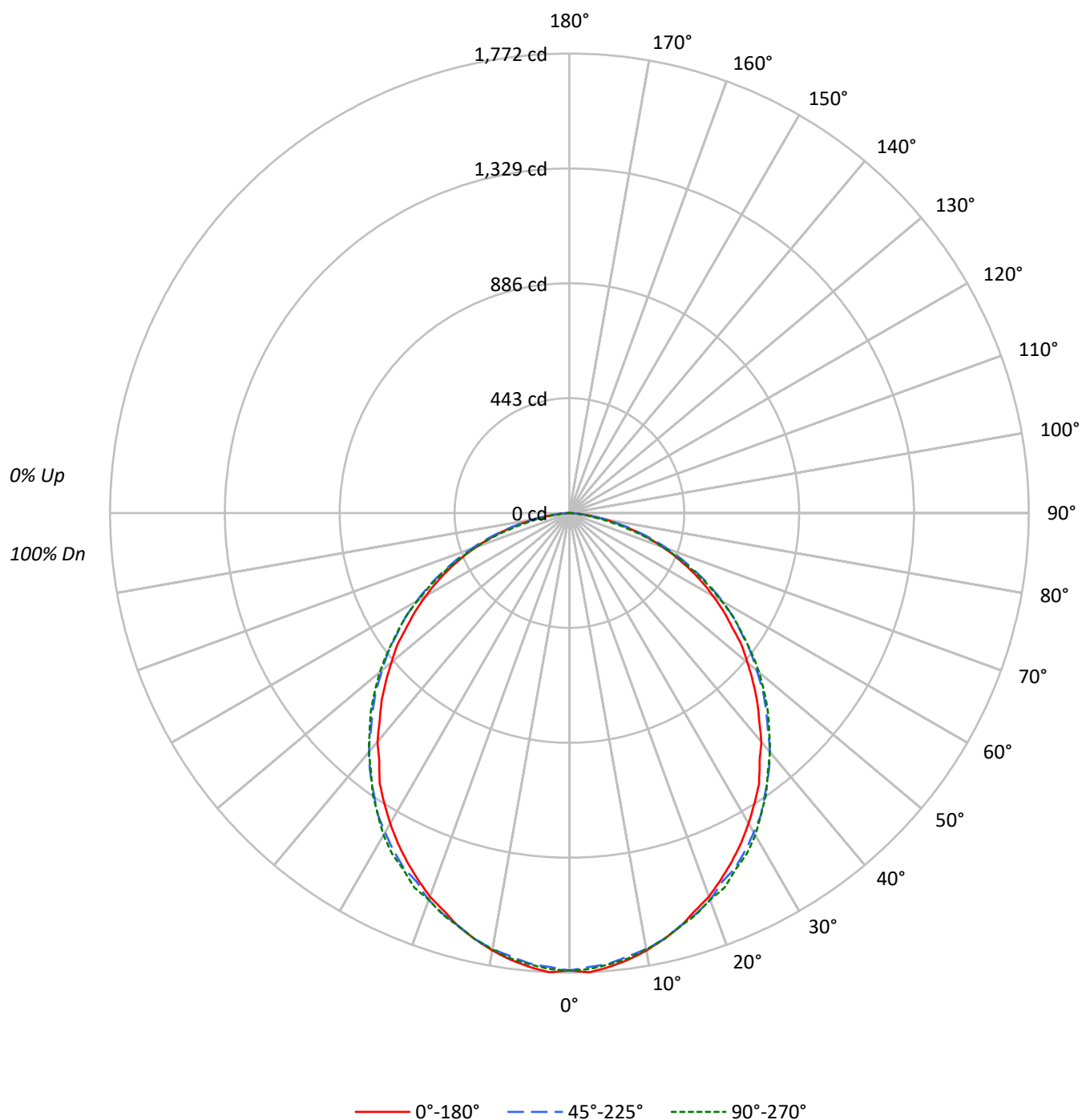
Lumens per Lamp: N/A
Luminaire Lumens: 4530.5 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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°	4746	4746	4746
5°	4746	4712	4720
10°	4680	4664	4670
15°	4600	4594	4597
20°	4507	4546	4543
25°	4401	4487	4501
30°	4294	4420	4456
35°	4188	4324	4343
40°	4045	4228	4225
45°	3898	4081	4121
50°	3751	3944	3997
55°	3592	3805	3828
60°	3441	3669	3644
65°	3261	3445	3377
70°	3005	3164	3020
75°	2658	2768	2416
80°	2137	2166	1689
85°	1399	1340	982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.8	3.7
10°-20°	466.2	10.3
20°-30°	694.1	15.3
30°-40°	816.9	18.0
40°-50°	819.1	18.1
50°-60°	718.3	15.9
60°-70°	525.2	11.6
70°-80°	270.7	6.0
80°-90°	54.3	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°	1326.0	29.3
0°-40°	2143.0	47.3
0°-60°	3680.3	81.2
0°-90°	4530.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4530.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1764	1764	1764	1764	1764	
5°	1757	1746	1744	1756	1747	166
15°	1651	1654	1649	1660	1650	465
25°	1482	1489	1511	1532	1516	683
35°	1275	1281	1316	1331	1322	794
45°	1024	1029	1072	1086	1083	789
55°	766	783	811	823	816	687
65°	512	524	541	539	530	507
75°	256	258	266	248	232	271
85°	45	44	43	35	32	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1763.8	1763.8	1763.8	1763.8	1763.8
2.5°	1772.5	1763.8	1752.3	1761.9	1760.0
5°	1757.1	1745.5	1744.5	1756.1	1747.4
7.5°	1737.8	1735.9	1724.3	1736.8	1732.0
10°	1712.7	1710.8	1706.9	1715.6	1708.9
12.5°	1682.8	1680.9	1682.8	1687.6	1682.8
15°	1651.0	1653.9	1649.1	1659.7	1650.0
17.5°	1608.6	1611.5	1621.1	1625.0	1624.0
20°	1573.8	1575.8	1587.3	1602.8	1586.4
22.5°	1528.5	1533.3	1539.1	1567.1	1563.2
25°	1482.2	1489.0	1511.2	1532.4	1516.0
27.5°	1434.0	1440.8	1467.8	1483.2	1481.3
30°	1381.9	1388.7	1422.4	1443.7	1434.0
32.5°	1327.9	1339.5	1376.2	1394.5	1376.2
35°	1274.9	1280.7	1316.4	1330.8	1322.1
37.5°	1204.5	1226.7	1262.4	1272.0	1256.6
40°	1151.5	1152.4	1203.5	1203.5	1202.6
42.5°	1083.0	1098.4	1132.2	1150.5	1140.8
45°	1024.2	1029.0	1072.4	1085.9	1083.0
47.5°	959.5	978.8	1010.7	1026.1	1018.4
50°	895.9	909.4	942.2	962.4	954.7
52.5°	837.1	847.7	881.4	893.0	885.3
55°	765.7	783.1	811.0	822.6	815.9
57.5°	704.0	716.5	751.2	755.1	751.2
60°	639.4	653.8	681.8	684.7	677.0
62.5°	577.7	587.3	612.4	613.3	604.7
65°	512.1	523.7	541.0	539.1	530.4
67.5°	447.5	455.2	471.6	464.8	455.2
70°	381.9	388.6	402.1	392.5	383.8
72.5°	318.2	323.1	334.6	320.2	309.6
75°	255.6	257.5	266.2	247.8	232.4
77.5°	193.8	195.8	200.6	182.3	164.9
80°	137.9	137.9	139.8	120.5	109.0
82.5°	86.8	86.8	85.8	71.4	64.6
85°	45.3	44.4	43.4	34.7	31.8
87.5°	16.4	16.4	13.5	12.5	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)