

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: P487141

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-1HI-27-120-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: P487141
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-24-4-INS-A125-LD4-1HI-27-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

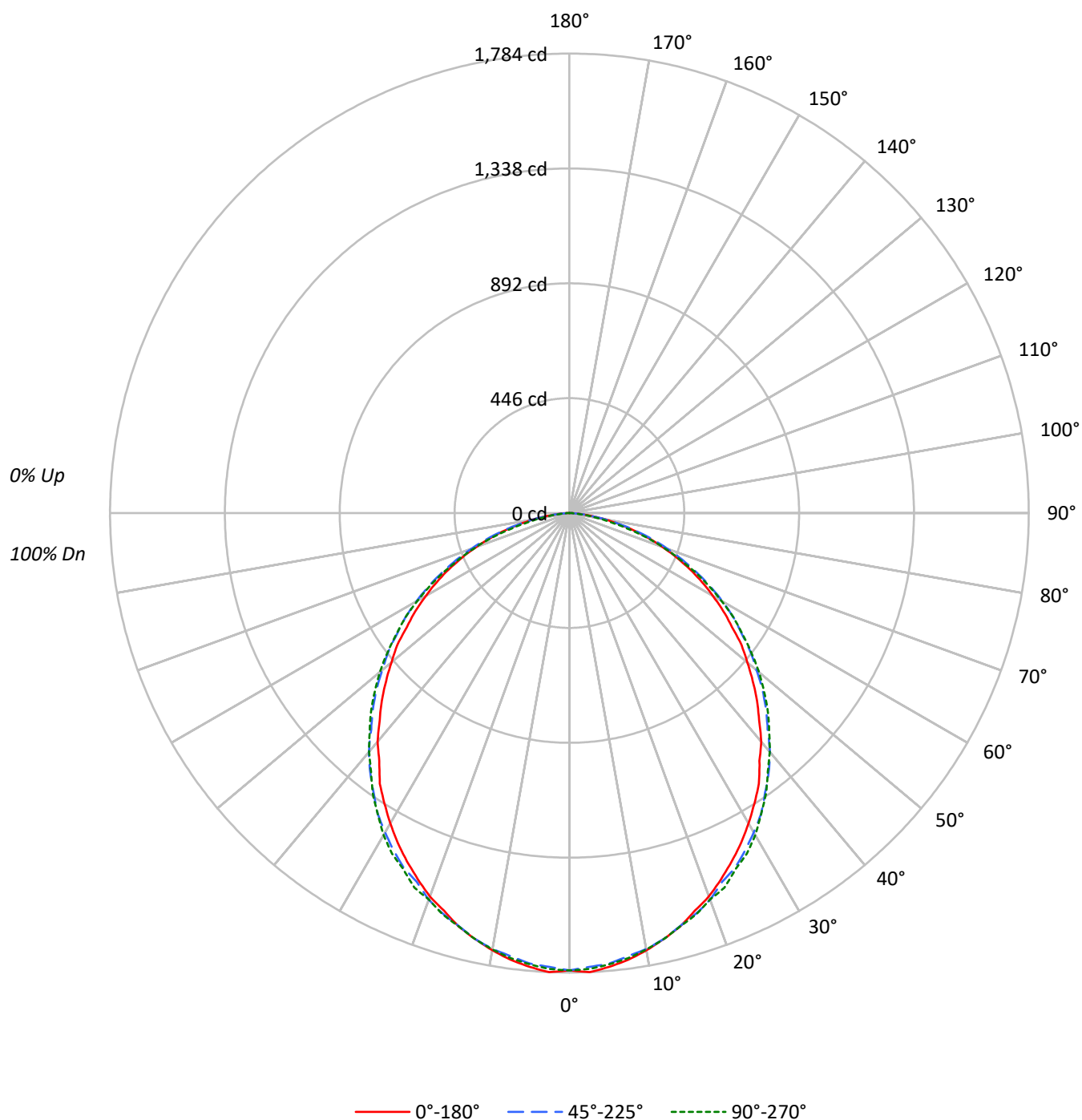
Lumens per Lamp: N/A
Luminaire Lumens: 4560.4 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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					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°	2389	2389	2389
5°	2389	2372	2376
10°	2355	2347	2350
15°	2315	2312	2314
20°	2268	2288	2287
25°	2215	2258	2265
30°	2161	2224	2243
35°	2108	2176	2186
40°	2036	2128	2126
45°	1962	2054	2074
50°	1888	1985	2012
55°	1808	1915	1926
60°	1732	1847	1834
65°	1641	1734	1700
70°	1512	1592	1520
75°	1337	1393	1216
80°	1075	1091	850
85°	704	675	494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.9	3.7
10°-20°	469.3	10.3
20°-30°	698.6	15.3
30°-40°	822.3	18.0
40°-50°	824.5	18.1
50°-60°	723.0	15.9
60°-70°	528.7	11.6
70°-80°	272.5	6.0
80°-90°	54.7	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°	1334.8	29.3
0°-40°	2157.1	47.3
0°-60°	3704.6	81.2
0°-90°	4560.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4560.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1776	1776	1776	1776	1776	
5°	1769	1757	1756	1768	1759	167
15°	1662	1665	1660	1671	1661	468
25°	1492	1499	1521	1542	1526	687
35°	1283	1289	1325	1340	1331	799
45°	1031	1036	1080	1093	1090	794
55°	771	788	816	828	821	692
65°	516	527	545	543	534	510
75°	257	259	268	250	234	273
85°	46	45	44	35	32	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1775.5	1775.5	1775.5	1775.5	1775.5
2.5°	1784.2	1775.5	1763.8	1773.5	1771.6
5°	1768.7	1757.0	1756.1	1767.7	1759.0
7.5°	1749.3	1747.3	1735.7	1748.3	1743.4
10°	1724.0	1722.1	1718.2	1726.9	1720.1
12.5°	1693.9	1692.0	1693.9	1698.8	1693.9
15°	1661.9	1664.8	1659.9	1670.6	1660.9
17.5°	1619.2	1622.1	1631.8	1635.7	1634.7
20°	1584.2	1586.2	1597.8	1613.4	1596.9
22.5°	1538.6	1543.5	1549.3	1577.4	1573.6
25°	1492.0	1498.8	1521.1	1542.5	1526.0
27.5°	1443.5	1450.3	1477.5	1493.0	1491.0
30°	1391.1	1397.9	1431.8	1453.2	1443.5
32.5°	1336.7	1348.3	1385.2	1403.7	1385.2
35°	1283.3	1289.1	1325.0	1339.6	1330.9
37.5°	1212.4	1234.8	1270.7	1280.4	1264.9
40°	1159.1	1160.0	1211.5	1211.5	1210.5
42.5°	1090.1	1105.7	1139.6	1158.1	1148.4
45°	1030.9	1035.8	1079.5	1093.0	1090.1
47.5°	965.9	985.3	1017.3	1032.9	1025.1
50°	901.8	915.4	948.4	968.8	961.0
52.5°	842.6	853.3	887.2	898.9	891.1
55°	770.8	788.2	816.4	828.0	821.2
57.5°	708.6	721.3	756.2	760.1	756.2
60°	643.6	658.2	686.3	689.2	681.5
62.5°	581.5	591.2	616.4	617.4	608.6
65°	515.5	527.1	544.6	542.6	533.9
67.5°	450.4	458.2	474.7	467.9	458.2
70°	384.4	391.2	404.8	395.1	386.4
72.5°	320.3	325.2	336.8	322.3	311.6
75°	257.2	259.2	267.9	249.5	233.9
77.5°	195.1	197.1	201.9	183.5	166.0
80°	138.8	138.8	140.8	121.3	109.7
82.5°	87.4	87.4	86.4	71.8	65.0
85°	45.6	44.7	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)