

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: P485091

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-1HI-30-120-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: P485091
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-LD4-1HI-30-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

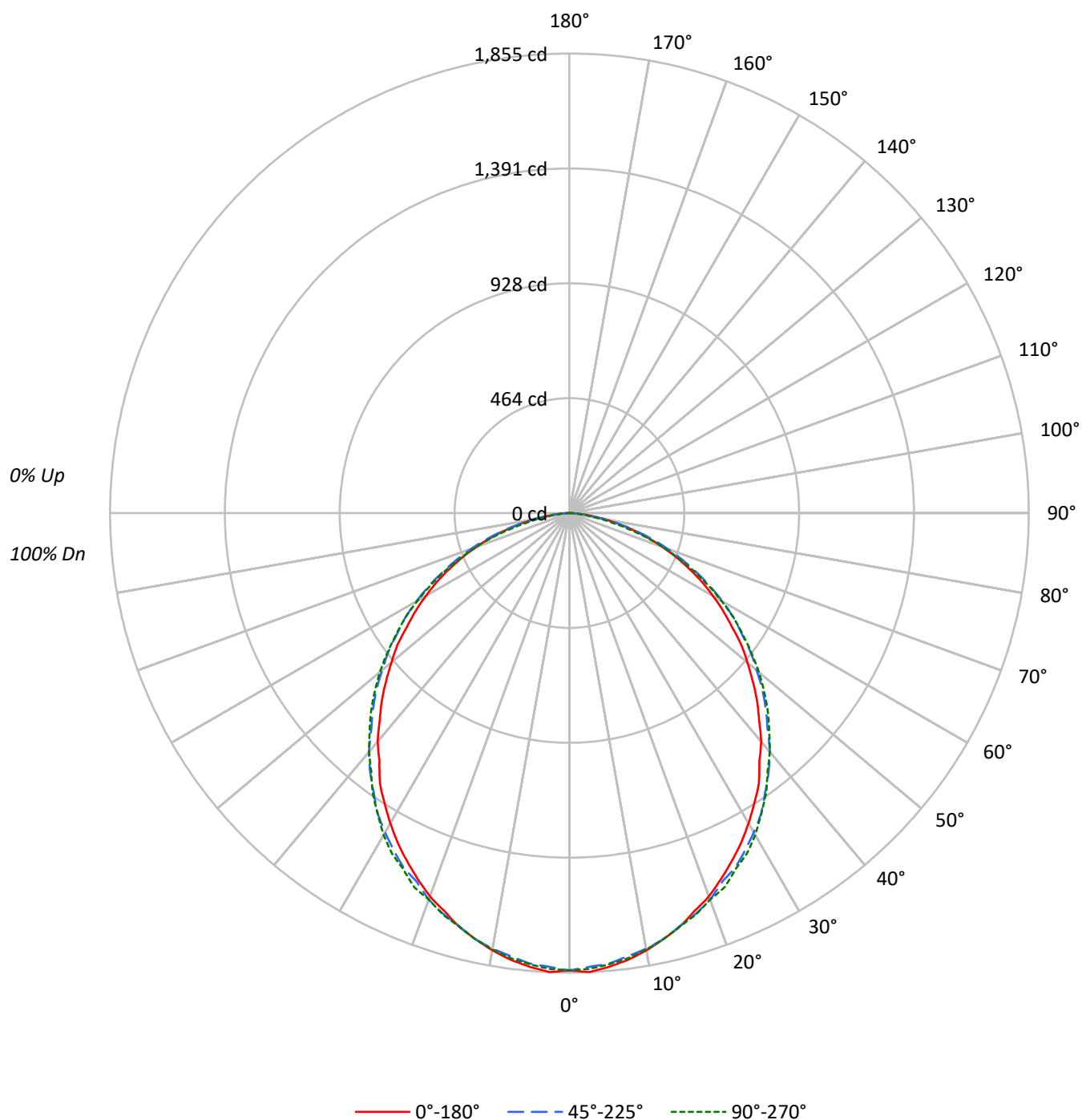
Lumens per Lamp: N/A
Luminaire Lumens: 4741.2 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	0		
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71		
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60		
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39		
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31		
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4967	4967	4967
5°	4967	4932	4940
10°	4898	4881	4887
15°	4813	4808	4811
20°	4716	4757	4754
25°	4606	4695	4711
30°	4494	4625	4663
35°	4383	4526	4545
40°	4233	4424	4421
45°	4079	4271	4313
50°	3925	4128	4183
55°	3759	3982	4006
60°	3601	3840	3813
65°	3412	3605	3535
70°	3144	3311	3161
75°	2780	2896	2529
80°	2236	2267	1767
85°	1463	1402	1028



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.5	3.7
10°-20°	487.9	10.3
20°-30°	726.3	15.3
30°-40°	854.9	18.0
40°-50°	857.2	18.1
50°-60°	751.7	15.9
60°-70°	549.6	11.6
70°-80°	283.3	6.0
80°-90°	56.8	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°	1387.7	29.3
0°-40°	2242.6	47.3
0°-60°	3851.5	81.2
0°-90°	4741.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4741.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1846	1846	1846	1846	1846	
5°	1839	1827	1826	1838	1829	174
15°	1728	1731	1726	1737	1727	486
25°	1551	1558	1581	1604	1586	715
35°	1334	1340	1378	1393	1384	831
45°	1072	1077	1122	1136	1133	826
55°	801	820	849	861	854	719
65°	536	548	566	564	555	530
75°	267	270	278	259	243	283
85°	47	46	45	36	33	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1845.9	1845.9	1845.9	1845.9	1845.9
2.5°	1854.9	1845.9	1833.7	1843.8	1841.8
5°	1838.8	1826.7	1825.7	1837.8	1828.7
7.5°	1818.6	1816.6	1804.5	1817.6	1812.6
10°	1792.4	1790.3	1786.3	1795.4	1788.3
12.5°	1761.1	1759.1	1761.1	1766.1	1761.1
15°	1727.8	1730.8	1725.8	1736.9	1726.8
17.5°	1683.4	1686.4	1696.5	1700.5	1699.5
20°	1647.0	1649.1	1661.2	1677.3	1660.2
22.5°	1599.6	1604.7	1610.7	1640.0	1635.9
25°	1551.2	1558.2	1581.4	1603.6	1586.5
27.5°	1500.7	1507.8	1536.0	1552.2	1550.2
30°	1446.2	1453.3	1488.6	1510.8	1500.7
32.5°	1389.7	1401.8	1440.2	1459.3	1440.2
35°	1334.2	1340.2	1377.6	1392.7	1383.6
37.5°	1260.5	1283.7	1321.1	1331.2	1315.0
40°	1205.0	1206.0	1259.5	1259.5	1258.5
42.5°	1133.3	1149.5	1184.8	1204.0	1193.9
45°	1071.8	1076.8	1122.2	1136.4	1133.3
47.5°	1004.2	1024.4	1057.7	1073.8	1065.7
50°	937.6	951.7	986.0	1007.2	999.1
52.5°	876.0	887.1	922.4	934.5	926.5
55°	801.3	819.5	848.8	860.9	853.8
57.5°	736.7	749.8	786.2	790.2	786.2
60°	669.1	684.2	713.5	716.5	708.5
62.5°	604.5	614.6	640.9	641.9	632.8
65°	535.9	548.0	566.2	564.2	555.1
67.5°	468.3	476.3	493.5	486.4	476.3
70°	399.6	406.7	420.8	410.8	401.7
72.5°	333.0	338.1	350.2	335.1	324.0
75°	267.4	269.5	278.5	259.4	243.2
77.5°	202.9	204.9	209.9	190.7	172.6
80°	144.3	144.3	146.3	126.2	114.0
82.5°	90.8	90.8	89.8	74.7	67.6
85°	47.4	46.4	45.4	36.3	33.3
87.5°	17.2	17.2	14.1	13.1	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)