

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: P485137

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-2LO-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: P485137
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-LD4-2LO-27-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

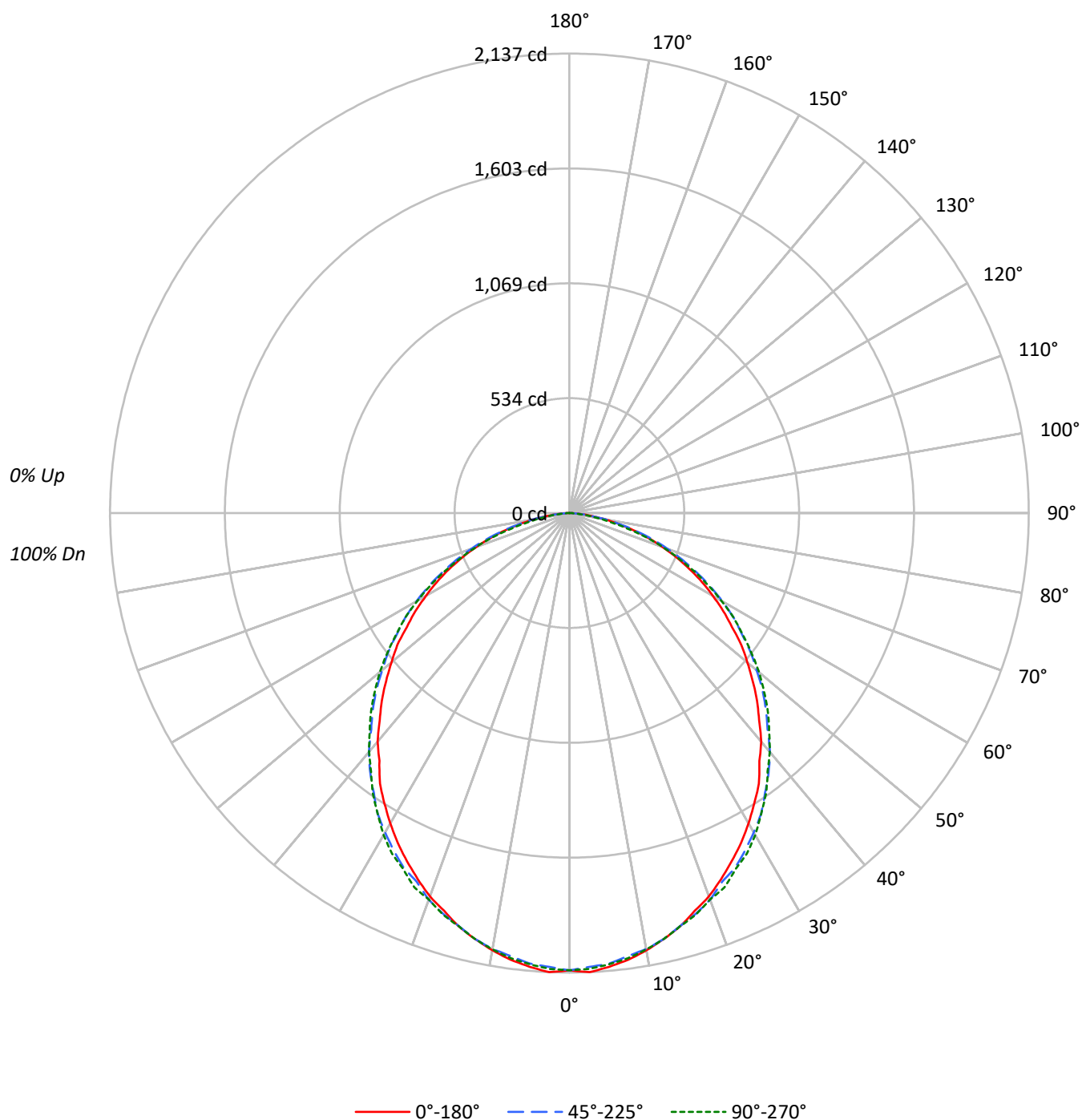
Lumens per Lamp: N/A
Luminaire Lumens: 5462.3 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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°	5723	5723	5723
5°	5723	5682	5691
10°	5643	5623	5630
15°	5546	5539	5542
20°	5434	5481	5477
25°	5306	5410	5427
30°	5177	5329	5372
35°	5049	5214	5237
40°	4877	5097	5093
45°	4699	4920	4969
50°	4522	4756	4819
55°	4331	4587	4615
60°	4149	4424	4393
65°	3931	4153	4072
70°	3622	3814	3641
75°	3203	3336	2913
80°	2577	2613	2036
85°	1686	1615	1186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.9	3.7
10°-20°	562.1	10.3
20°-30°	836.8	15.3
30°-40°	985.0	18.0
40°-50°	987.5	18.1
50°-60°	866.0	15.9
60°-70°	633.2	11.6
70°-80°	326.3	6.0
80°-90°	65.5	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°	1598.7	29.3
0°-40°	2583.7	47.3
0°-60°	4437.2	81.2
0°-90°	5462.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5462.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2127	2127	2127	2127	2127	
5°	2118	2104	2103	2117	2107	201
15°	1991	1994	1988	2001	1989	560
25°	1787	1795	1822	1848	1828	823
35°	1537	1544	1587	1604	1594	957
45°	1235	1241	1293	1309	1306	952
55°	923	944	978	992	984	829
65°	617	631	652	650	640	611
75°	308	310	321	299	280	327
85°	55	54	52	42	38	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2126.6	2126.6	2126.6	2126.6	2126.6
2.5°	2137.1	2126.6	2112.6	2124.3	2121.9
5°	2118.5	2104.5	2103.3	2117.3	2106.8
7.5°	2095.2	2092.9	2078.9	2094.0	2088.2
10°	2065.0	2062.6	2058.0	2068.5	2060.3
12.5°	2028.9	2026.6	2028.9	2034.7	2028.9
15°	1990.6	1994.0	1988.2	2001.0	1989.4
17.5°	1939.4	1942.9	1954.5	1959.2	1958.0
20°	1897.5	1899.9	1913.8	1932.4	1912.7
22.5°	1842.9	1848.7	1855.7	1889.4	1884.8
25°	1787.1	1795.2	1822.0	1847.5	1827.8
27.5°	1728.9	1737.1	1769.6	1788.2	1785.9
30°	1666.2	1674.3	1715.0	1740.6	1728.9
32.5°	1601.1	1615.0	1659.2	1681.3	1659.2
35°	1537.1	1544.1	1587.1	1604.5	1594.1
37.5°	1452.2	1479.0	1522.0	1533.6	1515.0
40°	1388.3	1389.4	1451.1	1451.1	1449.9
42.5°	1305.7	1324.3	1365.0	1387.1	1375.5
45°	1234.8	1240.6	1292.9	1309.2	1305.7
47.5°	1156.9	1180.2	1218.5	1237.1	1227.8
50°	1080.2	1096.4	1136.0	1160.4	1151.1
52.5°	1009.2	1022.0	1062.7	1076.7	1067.4
55°	923.2	944.1	977.8	991.8	983.7
57.5°	848.8	863.9	905.8	910.4	905.8
60°	770.9	788.3	822.0	825.5	816.2
62.5°	696.5	708.1	738.3	739.5	729.0
65°	617.4	631.4	652.3	650.0	639.5
67.5°	539.5	548.8	568.6	560.4	548.8
70°	460.4	468.6	484.8	473.2	462.8
72.5°	383.7	389.5	403.5	386.0	373.2
75°	308.1	310.4	320.9	298.8	280.2
77.5°	233.7	236.0	241.8	219.8	198.8
80°	166.3	166.3	168.6	145.3	131.4
82.5°	104.6	104.6	103.5	86.0	77.9
85°	54.6	53.5	52.3	41.9	38.4
87.5°	19.8	19.8	16.3	15.1	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)