

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: P485136

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-2LO-27-120-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: P485136
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-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

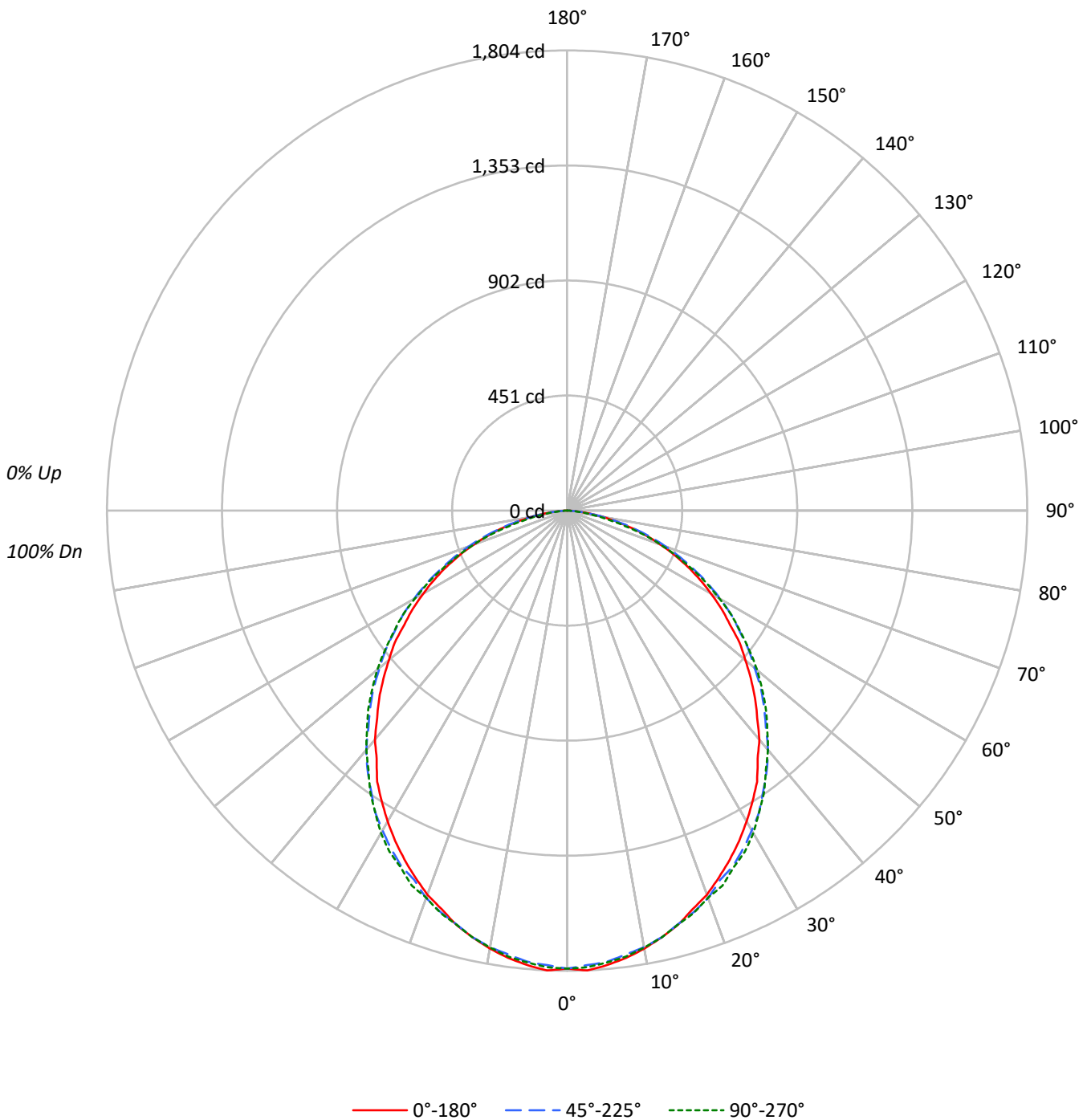
Lumens per Lamp: N/A
Luminaire Lumens: 4612.3 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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°	4832	4832	4832
5°	4832	4797	4806
10°	4764	4748	4754
15°	4683	4677	4680
20°	4588	4628	4625
25°	4480	4568	4583
30°	4372	4500	4536
35°	4264	4402	4422
40°	4118	4304	4301
45°	3968	4155	4196
50°	3818	4016	4069
55°	3657	3874	3897
60°	3503	3736	3709
65°	3319	3507	3438
70°	3059	3221	3074
75°	2705	2818	2460
80°	2176	2207	1719
85°	1423	1365	1000



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.8	3.7
10°-20°	474.6	10.3
20°-30°	706.6	15.3
30°-40°	831.7	18.0
40°-50°	833.9	18.1
50°-60°	731.2	15.9
60°-70°	534.7	11.6
70°-80°	275.6	6.0
80°-90°	55.3	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°	1350.0	29.3
0°-40°	2181.6	47.3
0°-60°	3746.8	81.2
0°-90°	4612.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4612.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1796	1796	1796	1796	1796	
5°	1789	1777	1776	1788	1779	169
15°	1681	1684	1679	1690	1680	473
25°	1509	1516	1538	1560	1543	695
35°	1298	1304	1340	1355	1346	808
45°	1043	1048	1092	1106	1102	804
55°	780	797	826	838	831	700
65°	521	533	551	549	540	516
75°	260	262	271	252	237	276
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°	1795.7	1795.7	1795.7	1795.7	1795.7
2.5°	1804.5	1795.7	1783.9	1793.7	1791.7
5°	1788.8	1777.0	1776.0	1787.8	1779.0
7.5°	1769.2	1767.2	1755.4	1768.2	1763.3
10°	1743.6	1741.7	1737.7	1746.6	1739.7
12.5°	1713.2	1711.2	1713.2	1718.1	1713.2
15°	1680.8	1683.7	1678.8	1689.6	1679.8
17.5°	1637.6	1640.6	1650.4	1654.3	1653.3
20°	1602.3	1604.2	1616.0	1631.7	1615.0
22.5°	1556.1	1561.0	1566.9	1595.4	1591.5
25°	1509.0	1515.9	1538.4	1560.0	1543.4
27.5°	1459.9	1466.8	1494.3	1510.0	1508.0
30°	1406.9	1413.8	1448.1	1469.7	1459.9
32.5°	1351.9	1363.7	1401.0	1419.7	1401.0
35°	1297.9	1303.8	1340.1	1354.9	1346.0
37.5°	1226.2	1248.8	1285.1	1295.0	1279.3
40°	1172.2	1173.2	1225.3	1225.3	1224.3
42.5°	1102.5	1118.2	1152.6	1171.3	1161.4
45°	1042.6	1047.6	1091.7	1105.5	1102.5
47.5°	976.9	996.5	1028.9	1044.6	1036.8
50°	912.1	925.8	959.2	979.8	972.0
52.5°	852.2	863.0	897.3	909.1	901.3
55°	779.5	797.2	825.7	837.5	830.6
57.5°	716.7	729.5	764.8	768.7	764.8
60°	650.9	665.6	694.1	697.1	689.2
62.5°	588.1	597.9	623.4	624.4	615.6
65°	521.3	533.1	550.8	548.8	540.0
67.5°	455.5	463.4	480.1	473.2	463.4
70°	388.8	395.7	409.4	399.6	390.7
72.5°	324.0	328.9	340.7	326.0	315.2
75°	260.2	262.1	271.0	252.3	236.6
77.5°	197.3	199.3	204.2	185.6	167.9
80°	140.4	140.4	142.4	122.7	110.9
82.5°	88.4	88.4	87.4	72.7	65.8
85°	46.1	45.2	44.2	35.3	32.4
87.5°	16.7	16.7	13.7	12.8	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)