

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: P485975

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-4STD-20-120-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: P485975
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-LD4-4STD-20-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

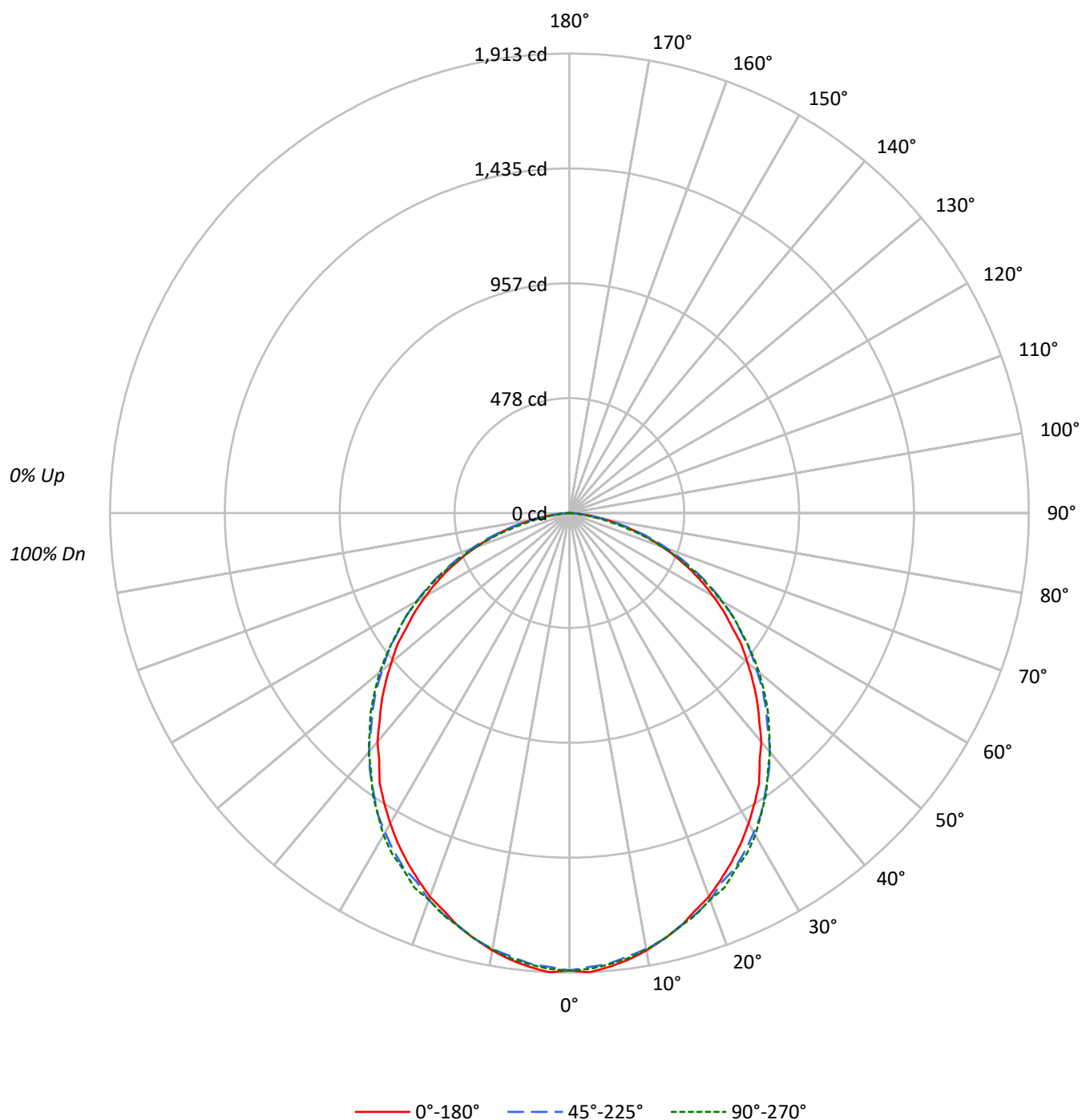
Lumens per Lamp: N/A
Luminaire Lumens: 4890.7 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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°	5124	5124	5124
5°	5124	5087	5096
10°	5052	5035	5041
15°	4965	4959	4962
20°	4865	4907	4904
25°	4751	4844	4859
30°	4635	4771	4810
35°	4521	4668	4689
40°	4366	4564	4560
45°	4207	4405	4449
50°	4049	4258	4315
55°	3878	4107	4132
60°	3715	3961	3933
65°	3520	3719	3646
70°	3244	3415	3260
75°	2869	2987	2609
80°	2307	2340	1822
85°	1510	1445	1062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.0	3.7
10°-20°	503.2	10.3
20°-30°	749.2	15.3
30°-40°	881.9	18.0
40°-50°	884.2	18.1
50°-60°	775.4	15.9
60°-70°	567.0	11.6
70°-80°	292.2	6.0
80°-90°	58.6	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°	1431.4	29.3
0°-40°	2313.3	47.3
0°-60°	3972.9	81.2
0°-90°	4890.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4890.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1904	1904	1904	1904	1904	
5°	1897	1884	1883	1896	1886	180
15°	1782	1785	1780	1792	1781	502
25°	1600	1607	1631	1654	1636	737
35°	1376	1382	1421	1437	1427	857
45°	1106	1111	1158	1172	1169	852
55°	827	845	876	888	881	742
65°	553	565	584	582	573	547
75°	276	278	287	268	251	292
85°	49	48	47	38	34	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1904.1	1904.1	1904.1	1904.1	1904.1
2.5°	1913.4	1904.1	1891.6	1902.0	1899.9
5°	1896.8	1884.3	1883.2	1895.7	1886.4
7.5°	1876.0	1873.9	1861.4	1874.9	1869.7
10°	1848.9	1846.8	1842.6	1852.0	1844.7
12.5°	1816.6	1814.5	1816.6	1821.8	1816.6
15°	1782.3	1785.4	1780.2	1791.6	1781.2
17.5°	1736.5	1739.6	1750.0	1754.1	1753.1
20°	1699.0	1701.1	1713.5	1730.2	1712.5
22.5°	1650.0	1655.3	1661.5	1691.7	1687.5
25°	1600.1	1607.4	1631.3	1654.2	1636.5
27.5°	1548.0	1555.3	1584.5	1601.1	1599.0
30°	1491.8	1499.1	1535.5	1558.4	1548.0
32.5°	1433.5	1446.0	1485.6	1505.3	1485.6
35°	1376.3	1382.5	1421.0	1436.6	1427.3
37.5°	1300.3	1324.2	1362.7	1373.1	1356.5
40°	1243.0	1244.0	1299.2	1299.2	1298.2
42.5°	1169.1	1185.7	1222.2	1242.0	1231.5
45°	1105.6	1110.8	1157.6	1172.2	1169.1
47.5°	1035.8	1056.7	1091.0	1107.7	1099.3
50°	967.1	981.7	1017.1	1039.0	1030.6
52.5°	903.6	915.1	951.5	964.0	955.7
55°	826.6	845.3	875.5	888.0	880.7
57.5°	760.0	773.5	811.0	815.1	811.0
60°	690.2	705.8	736.0	739.1	730.8
62.5°	623.6	634.0	661.1	662.1	652.7
65°	552.8	565.3	584.0	581.9	572.6
67.5°	483.0	491.4	509.1	501.8	491.4
70°	412.3	419.5	434.1	423.7	414.3
72.5°	343.5	348.7	361.2	345.6	334.2
75°	275.9	278.0	287.3	267.5	250.9
77.5°	209.2	211.3	216.5	196.8	178.0
80°	148.9	148.9	151.0	130.1	117.6
82.5°	93.7	93.7	92.7	77.0	69.7
85°	48.9	47.9	46.8	37.5	34.4
87.5°	17.7	17.7	14.6	13.5	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)