

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: P485943

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-3STD-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: P485943
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-LD4-3STD-30-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

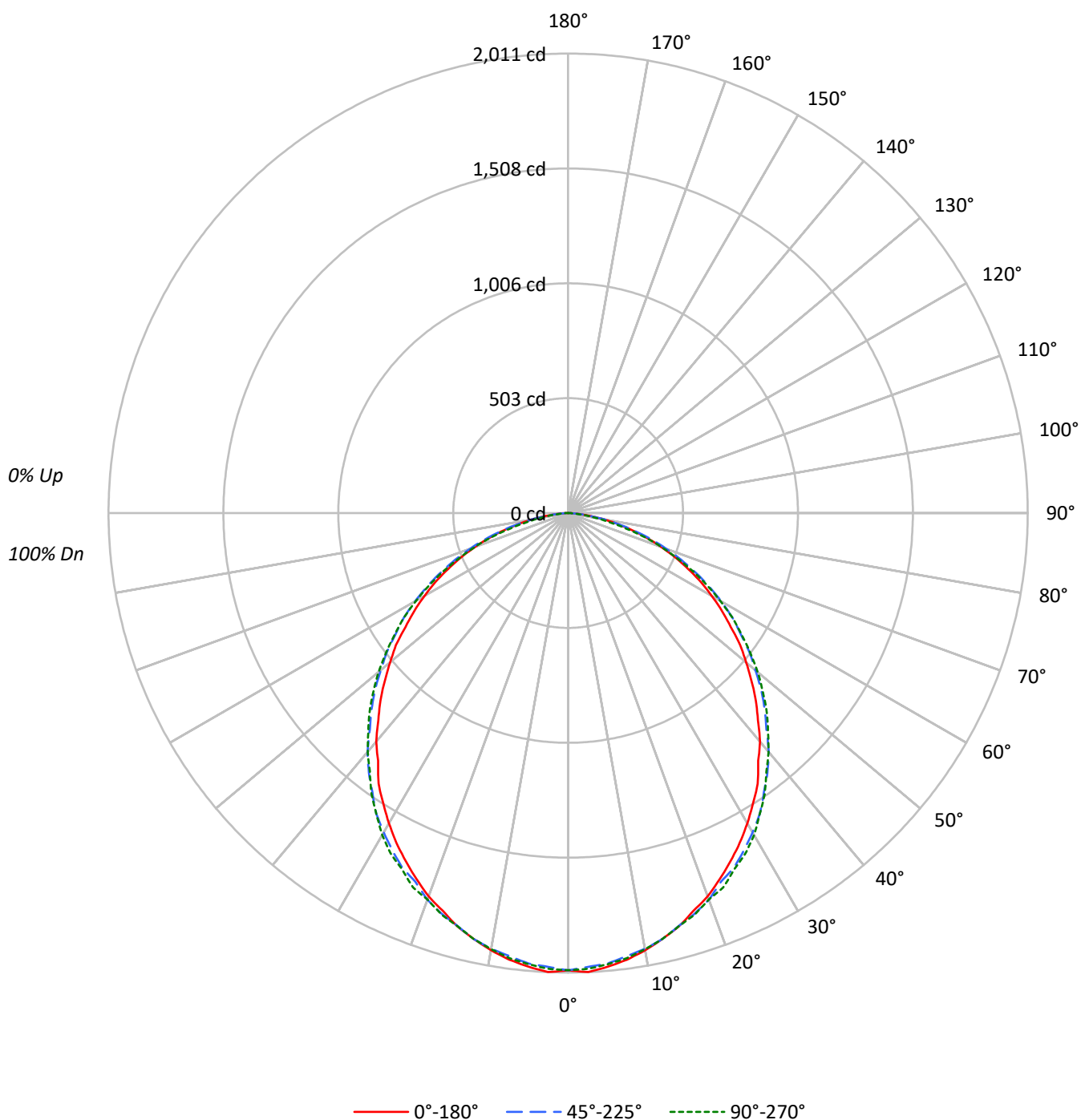
Lumens per Lamp: N/A
Luminaire Lumens: 5139.3 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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

TEST NUMBER: P485943

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-3STD-30-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P485943

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-3STD-30-120-EDD

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°	5384	5384	5384
5°	5384	5346	5354
10°	5309	5291	5297
15°	5218	5212	5215
20°	5113	5157	5153
25°	4992	5090	5106
30°	4871	5014	5055
35°	4751	4905	4927
40°	4588	4796	4792
45°	4421	4630	4675
50°	4255	4474	4534
55°	4075	4316	4342
60°	3904	4162	4133
65°	3699	3908	3831
70°	3408	3589	3426
75°	3014	3139	2741
80°	2424	2458	1915
85°	1587	1519	1115



TEST NUMBER: P485943

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-3STD-30-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.1	3.7
10°-20°	528.8	10.3
20°-30°	787.3	15.3
30°-40°	926.7	18.0
40°-50°	929.2	18.1
50°-60°	814.8	15.9
60°-70°	595.8	11.6
70°-80°	307.0	6.0
80°-90°	61.6	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°	1504.2	29.3
0°-40°	2430.9	47.3
0°-60°	4174.9	81.2
0°-90°	5139.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5139.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2001	2001	2001	2001	2001	
5°	1993	1980	1979	1992	1982	189
15°	1873	1876	1871	1883	1872	527
25°	1681	1689	1714	1738	1720	775
35°	1446	1453	1493	1510	1500	901
45°	1162	1167	1216	1232	1228	895
55°	869	888	920	933	926	780
65°	581	594	614	612	602	575
75°	290	292	302	281	264	307
85°	51	50	49	39	36	67
90°	0	0	0	0	0	



TEST NUMBER: P485943

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-3STD-30-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2000.8	2000.8	2000.8	2000.8	2000.8
2.5°	2010.7	2000.8	1987.7	1998.7	1996.5
5°	1993.2	1980.1	1979.0	1992.1	1982.2
7.5°	1971.3	1969.1	1956.0	1970.2	1964.7
10°	1942.9	1940.7	1936.3	1946.1	1938.5
12.5°	1909.0	1906.8	1909.0	1914.4	1909.0
15°	1872.9	1876.1	1870.7	1882.7	1871.8
17.5°	1824.7	1828.0	1838.9	1843.3	1842.2
20°	1785.3	1787.5	1800.7	1818.2	1799.6
22.5°	1733.9	1739.4	1746.0	1777.7	1773.3
25°	1681.4	1689.1	1714.2	1738.3	1719.7
27.5°	1626.7	1634.4	1665.0	1682.5	1680.3
30°	1567.6	1575.3	1613.6	1637.7	1626.7
32.5°	1506.4	1519.5	1561.1	1581.9	1561.1
35°	1446.2	1452.8	1493.2	1509.7	1499.8
37.5°	1366.4	1391.5	1432.0	1442.9	1425.4
40°	1306.2	1307.3	1365.3	1365.3	1364.2
42.5°	1228.5	1246.0	1284.3	1305.1	1294.1
45°	1161.8	1167.3	1216.5	1231.8	1228.5
47.5°	1088.5	1110.4	1146.5	1164.0	1155.2
50°	1016.3	1031.6	1068.8	1091.8	1083.0
52.5°	949.6	961.6	999.9	1013.0	1004.3
55°	868.6	888.3	920.0	933.1	925.5
57.5°	798.6	812.8	852.2	856.6	852.2
60°	725.3	741.7	773.4	776.7	768.0
62.5°	655.3	666.2	694.7	695.8	685.9
65°	580.9	594.0	613.7	611.5	601.7
67.5°	507.6	516.3	534.9	527.3	516.3
70°	433.2	440.9	456.2	445.2	435.4
72.5°	361.0	366.5	379.6	363.2	351.2
75°	289.9	292.1	301.9	281.1	263.6
77.5°	219.9	222.1	227.5	206.8	187.1
80°	156.4	156.4	158.6	136.7	123.6
82.5°	98.5	98.5	97.4	81.0	73.3
85°	51.4	50.3	49.2	39.4	36.1
87.5°	18.6	18.6	15.3	14.2	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)