

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: P485982

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-4STD-40-120-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: P485982
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-40-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

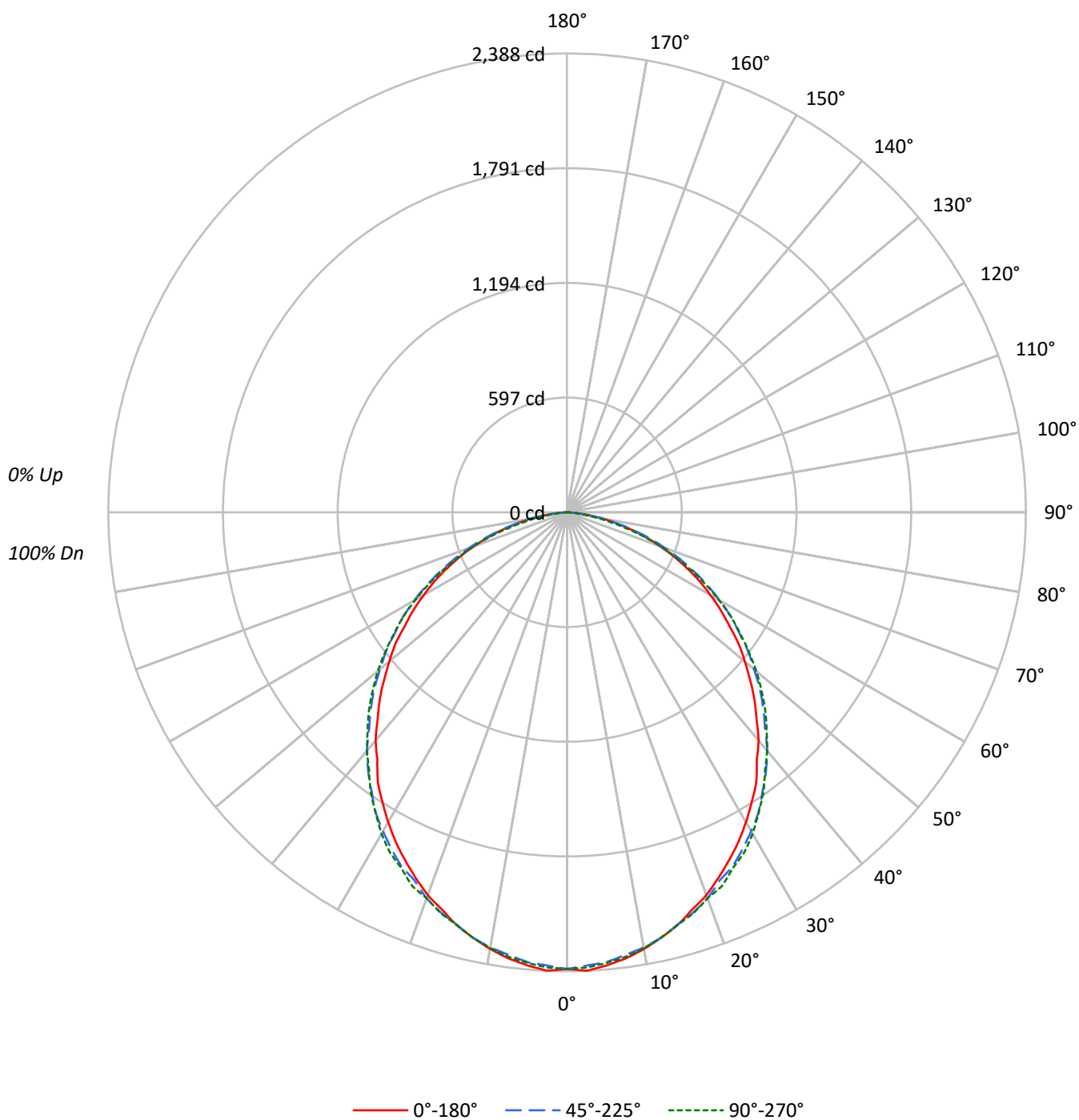
Lumens per Lamp: N/A
Luminaire Lumens: 6103.5 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P485982

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-4STD-40-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P485982

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-4STD-40-120-EDD-90

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°	6394	6394	6394
5°	6394	6348	6359
10°	6305	6284	6291
15°	6196	6189	6193
20°	6072	6124	6120
25°	5929	6045	6064
30°	5785	5954	6003
35°	5642	5826	5851
40°	5449	5696	5691
45°	5251	5498	5552
50°	5053	5314	5385
55°	4840	5126	5157
60°	4636	4943	4908
65°	4393	4641	4550
70°	4048	4263	4068
75°	3580	3728	3255
80°	2879	2920	2275
85°	1886	1806	1325



TEST NUMBER: P485982

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-4STD-40-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.4	3.7
10°-20°	628.0	10.3
20°-30°	935.0	15.3
30°-40°	1100.6	18.0
40°-50°	1103.5	18.1
50°-60°	967.7	15.9
60°-70°	707.6	11.6
70°-80°	364.6	6.0
80°-90°	73.2	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°	1786.4	29.3
0°-40°	2887.0	47.3
0°-60°	4958.1	81.2
0°-90°	6103.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6103.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2376	2376	2376	2376	2376	
5°	2367	2352	2350	2366	2354	224
15°	2224	2228	2222	2236	2223	626
25°	1997	2006	2036	2064	2042	920
35°	1718	1725	1773	1793	1781	1070
45°	1380	1386	1445	1463	1459	1063
55°	1032	1055	1093	1108	1099	926
65°	690	706	729	726	715	682
75°	344	347	359	334	313	365
85°	61	60	58	47	43	80
90°	0	0	0	0	0	



TEST NUMBER: P485982

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-4STD-40-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2376.2	2376.2	2376.2	2376.2	2376.2
2.5°	2387.9	2376.2	2360.6	2373.6	2371.0
5°	2367.1	2351.5	2350.2	2365.8	2354.1
7.5°	2341.2	2338.6	2323.0	2339.9	2333.4
10°	2307.4	2304.8	2299.6	2311.3	2302.2
12.5°	2267.1	2264.5	2267.1	2273.6	2267.1
15°	2224.2	2228.1	2221.6	2235.9	2222.9
17.5°	2167.1	2171.0	2183.9	2189.1	2187.8
20°	2120.3	2122.9	2138.5	2159.3	2137.2
22.5°	2059.2	2065.7	2073.5	2111.2	2106.0
25°	1996.9	2006.0	2035.8	2064.4	2042.3
27.5°	1931.9	1941.0	1977.4	1998.2	1995.6
30°	1861.7	1870.8	1916.3	1944.9	1931.9
32.5°	1789.0	1804.6	1854.0	1878.6	1854.0
35°	1717.5	1725.3	1773.4	1792.9	1781.2
37.5°	1622.7	1652.6	1700.6	1713.6	1692.9
40°	1551.2	1552.5	1621.4	1621.4	1620.1
42.5°	1459.0	1479.8	1525.3	1549.9	1536.9
45°	1379.7	1386.2	1444.7	1462.9	1459.0
47.5°	1292.7	1318.7	1361.6	1382.3	1372.0
50°	1207.0	1225.1	1269.3	1296.6	1286.2
52.5°	1127.7	1142.0	1187.5	1203.1	1192.7
55°	1031.6	1054.9	1092.6	1108.2	1099.1
57.5°	948.4	965.3	1012.1	1017.3	1012.1
60°	861.4	880.9	918.5	922.4	912.0
62.5°	778.2	791.2	825.0	826.3	814.6
65°	689.9	705.5	728.8	726.3	714.6
67.5°	602.8	613.2	635.3	626.2	613.2
70°	514.5	523.6	541.8	528.8	517.1
72.5°	428.7	435.2	450.8	431.3	417.0
75°	344.3	346.9	358.6	333.9	313.1
77.5°	261.1	263.7	270.2	245.5	222.2
80°	185.8	185.8	188.4	162.4	146.8
82.5°	116.9	116.9	115.6	96.1	87.0
85°	61.1	59.8	58.5	46.8	42.9
87.5°	22.1	22.1	18.2	16.9	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)