

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: P486009

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-5LO-50-120-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: P486009
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-LD4-5LO-50-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

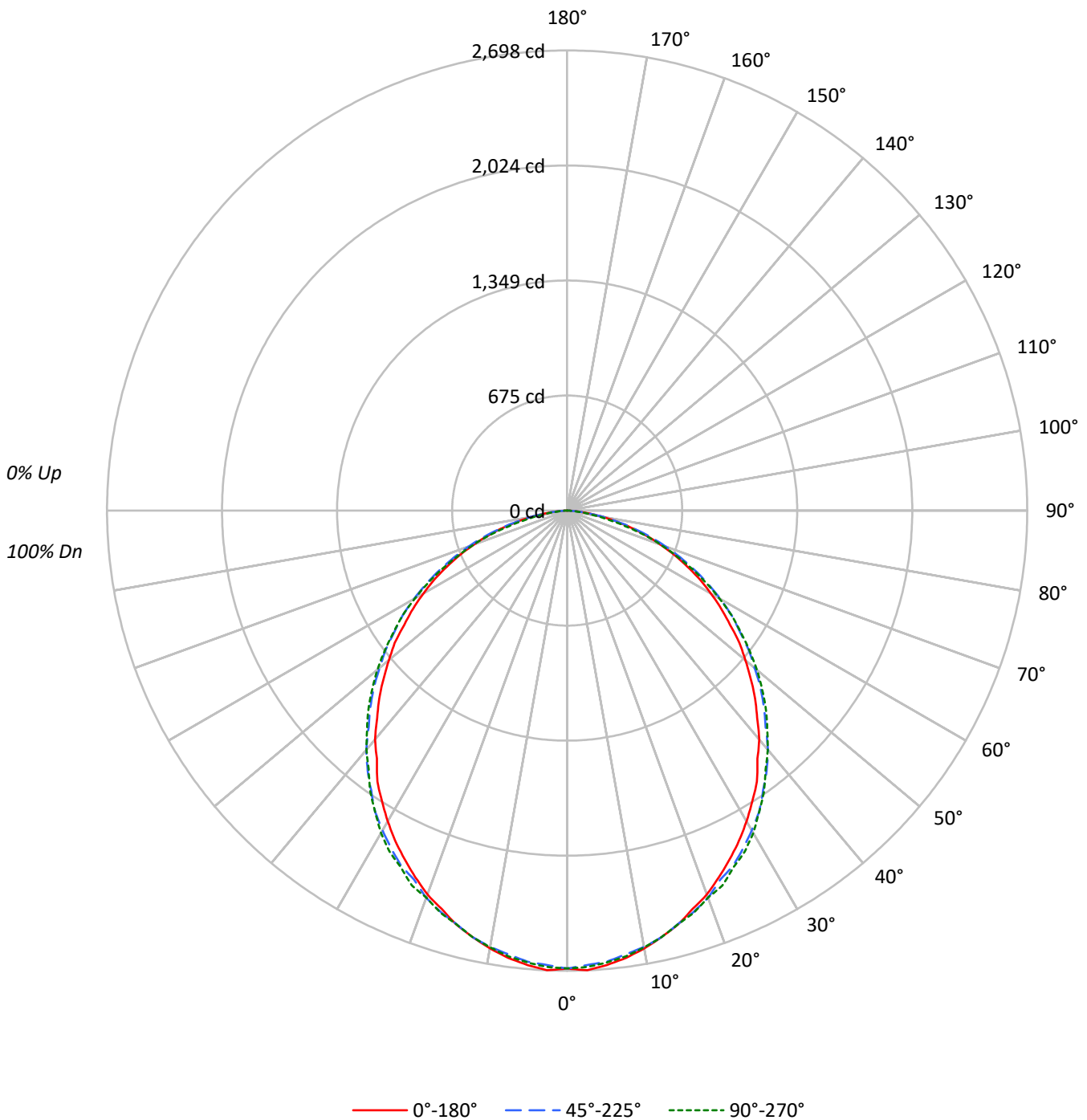
Lumens per Lamp: N/A
Luminaire Lumens: 6895.4 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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: P486009

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-5LO-50-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P486009

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-5LO-50-120-EDD

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	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°	7224	7224	7224
5°	7224	7172	7184
10°	7123	7099	7107
15°	7000	6992	6996
20°	6860	6918	6914
25°	6698	6829	6851
30°	6536	6727	6782
35°	6374	6582	6611
40°	6156	6435	6430
45°	5932	6211	6273
50°	5708	6003	6083
55°	5468	5791	5826
60°	5237	5585	5546
65°	4963	5243	5140
70°	4573	4816	4596
75°	4044	4212	3677
80°	3253	3298	2571
85°	2130	2038	1494



TEST NUMBER: P486009

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-5LO-50-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.3	3.7
10°-20°	709.5	10.3
20°-30°	1056.3	15.3
30°-40°	1243.4	18.0
40°-50°	1246.6	18.1
50°-60°	1093.2	15.9
60°-70°	799.4	11.6
70°-80°	412.0	6.0
80°-90°	82.6	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°	2018.2	29.3
0°-40°	3261.6	47.3
0°-60°	5601.4	81.2
0°-90°	6895.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6895.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2684	2684	2684	2684	2684	
5°	2674	2657	2655	2673	2660	253
15°	2513	2517	2510	2526	2511	707
25°	2256	2266	2300	2332	2307	1039
35°	1940	1949	2004	2026	2012	1208
45°	1559	1566	1632	1653	1648	1201
55°	1165	1192	1234	1252	1242	1046
65°	779	797	823	820	807	771
75°	389	392	405	377	354	412
85°	69	68	66	53	48	90
90°	0	0	0	0	0	



TEST NUMBER: P486009

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-5LO-50-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2684.5	2684.5	2684.5	2684.5	2684.5
2.5°	2697.7	2684.5	2666.9	2681.6	2678.7
5°	2674.3	2656.6	2655.2	2672.8	2659.6
7.5°	2644.9	2642.0	2624.4	2643.4	2636.1
10°	2606.7	2603.8	2597.9	2611.1	2600.9
12.5°	2561.2	2558.3	2561.2	2568.6	2561.2
15°	2512.8	2517.2	2509.9	2526.0	2511.3
17.5°	2448.2	2452.6	2467.3	2473.2	2471.7
20°	2395.4	2398.3	2415.9	2439.4	2414.5
22.5°	2326.4	2333.7	2342.5	2385.1	2379.2
25°	2255.9	2266.2	2300.0	2332.3	2307.3
27.5°	2182.6	2192.8	2233.9	2257.4	2254.5
30°	2103.3	2113.6	2164.9	2197.2	2182.6
32.5°	2021.1	2038.7	2094.5	2122.4	2094.5
35°	1940.4	1949.2	2003.5	2025.5	2012.3
37.5°	1833.2	1867.0	1921.3	1936.0	1912.5
40°	1752.5	1754.0	1831.8	1831.8	1830.3
42.5°	1648.3	1671.8	1723.2	1751.0	1736.4
45°	1558.8	1566.1	1632.1	1652.7	1648.3
47.5°	1460.4	1489.8	1538.2	1561.7	1550.0
50°	1363.5	1384.1	1434.0	1464.8	1453.1
52.5°	1274.0	1290.2	1341.5	1359.1	1347.4
55°	1165.4	1191.8	1234.4	1252.0	1241.7
57.5°	1071.5	1090.5	1143.4	1149.3	1143.4
60°	973.1	995.1	1037.7	1042.1	1030.4
62.5°	879.2	893.9	932.0	933.5	920.3
65°	779.4	797.0	823.4	820.5	807.3
67.5°	681.0	692.8	717.7	707.5	692.8
70°	581.2	591.5	612.1	597.4	584.2
72.5°	484.4	491.7	509.3	487.3	471.2
75°	389.0	391.9	405.1	377.2	353.7
77.5°	295.0	298.0	305.3	277.4	251.0
80°	209.9	209.9	212.8	183.5	165.9
82.5°	132.1	132.1	130.6	108.6	98.3
85°	69.0	67.5	66.0	52.8	48.4
87.5°	25.0	25.0	20.5	19.1	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)