

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: P487149

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-1HI-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: P487149
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-24-4-INS-A125-LD4-1HI-50-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

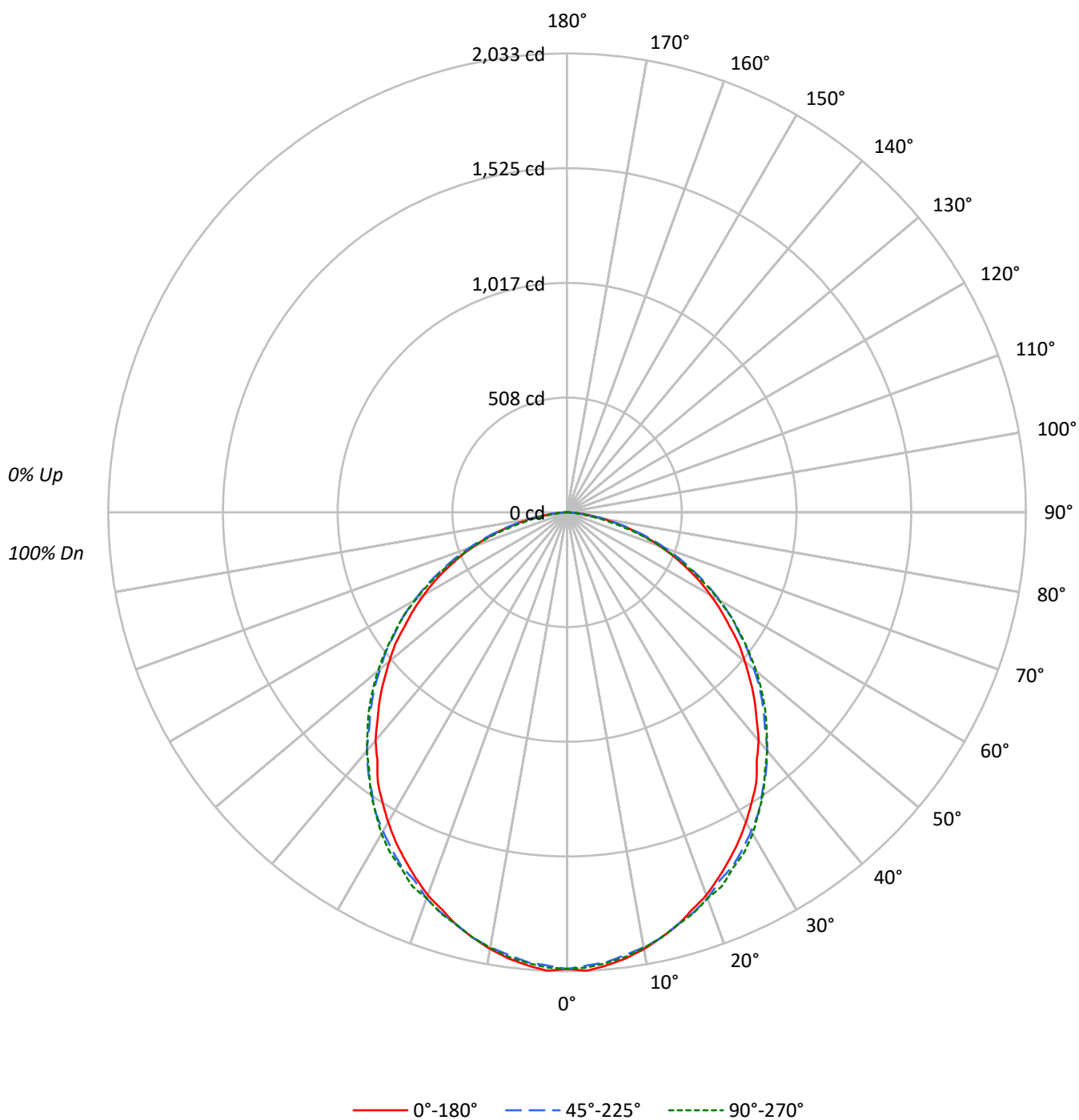
Lumens per Lamp: N/A
Luminaire Lumens: 5195.9 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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: P487149

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-1HI-50-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P487149

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-1HI-50-120-EDD

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°	2722	2722	2722
5°	2722	2702	2707
10°	2684	2675	2678
15°	2638	2634	2636
20°	2584	2607	2605
25°	2524	2573	2581
30°	2462	2535	2555
35°	2402	2480	2491
40°	2320	2424	2422
45°	2235	2340	2363
50°	2151	2262	2292
55°	2060	2182	2195
60°	1973	2104	2089
65°	1870	1975	1937
70°	1723	1814	1732
75°	1524	1587	1385
80°	1226	1243	969
85°	803	769	563



TEST NUMBER: P487149

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-1HI-50-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.1	3.7
10°-20°	534.6	10.3
20°-30°	796.0	15.3
30°-40°	936.9	18.0
40°-50°	939.4	18.1
50°-60°	823.8	15.9
60°-70°	602.4	11.6
70°-80°	310.4	6.0
80°-90°	62.3	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°	1520.8	29.3
0°-40°	2457.7	47.3
0°-60°	4220.8	81.2
0°-90°	5195.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5195.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2023	2023	2023	2023	2023	
5°	2015	2002	2001	2014	2004	191
15°	1894	1897	1891	1903	1892	533
25°	1700	1708	1733	1757	1739	783
35°	1462	1469	1510	1526	1516	911
45°	1175	1180	1230	1245	1242	905
55°	878	898	930	943	936	788
65°	587	601	620	618	608	581
75°	293	295	305	284	266	311
85°	52	51	50	40	36	68
90°	0	0	0	0	0	



TEST NUMBER: P487149

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-1HI-50-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2022.9	2022.9	2022.9	2022.9	2022.9
2.5°	2032.8	2022.9	2009.6	2020.7	2018.5
5°	2015.1	2001.9	2000.8	2014.0	2004.1
7.5°	1993.0	1990.8	1977.5	1991.9	1986.4
10°	1964.3	1962.1	1957.6	1967.6	1959.8
12.5°	1930.0	1927.8	1930.0	1935.5	1930.0
15°	1893.5	1896.8	1891.3	1903.4	1892.4
17.5°	1844.8	1848.1	1859.2	1863.6	1862.5
20°	1805.0	1807.2	1820.5	1838.2	1819.4
22.5°	1753.0	1758.5	1765.2	1797.3	1792.8
25°	1699.9	1707.7	1733.1	1757.4	1738.6
27.5°	1644.6	1652.4	1683.3	1701.0	1698.8
30°	1584.9	1592.6	1631.4	1655.7	1644.6
32.5°	1523.0	1536.2	1578.3	1599.3	1578.3
35°	1462.1	1468.8	1509.7	1526.3	1516.3
37.5°	1381.4	1406.8	1447.8	1458.8	1441.1
40°	1320.6	1321.7	1380.3	1380.3	1379.2
42.5°	1242.0	1259.7	1298.4	1319.5	1308.4
45°	1174.6	1180.1	1229.9	1245.4	1242.0
47.5°	1100.5	1122.6	1159.1	1176.8	1167.9
50°	1027.5	1043.0	1080.6	1103.8	1094.9
52.5°	960.0	972.2	1010.9	1024.2	1015.3
55°	878.2	898.1	930.1	943.4	935.7
57.5°	807.4	821.8	861.6	866.0	861.6
60°	733.3	749.9	781.9	785.3	776.4
62.5°	662.5	673.6	702.3	703.4	693.5
65°	587.3	600.6	620.5	618.3	608.3
67.5°	513.2	522.0	540.8	533.1	522.0
70°	438.0	445.7	461.2	450.1	440.2
72.5°	365.0	370.5	383.8	367.2	355.0
75°	293.1	295.3	305.3	284.2	266.5
77.5°	222.3	224.5	230.0	209.0	189.1
80°	158.2	158.2	160.4	138.3	125.0
82.5°	99.5	99.5	98.4	81.8	74.1
85°	52.0	50.9	49.8	39.8	36.5
87.5°	18.8	18.8	15.5	14.4	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)