

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: P487187

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-2LO-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: P487187
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-LD4-2LO-20-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

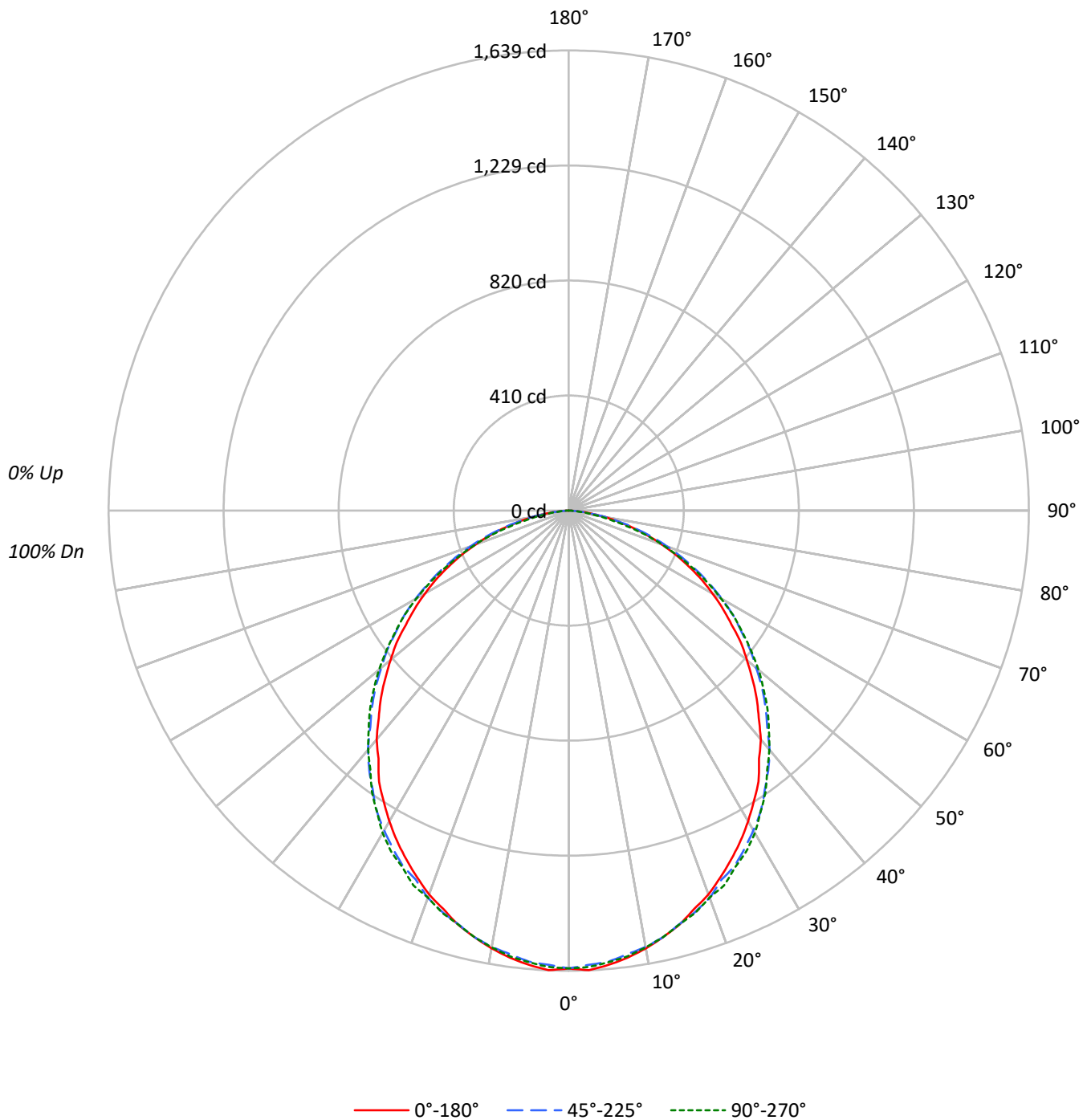
Lumens per Lamp: N/A
Luminaire Lumens: 4188.3 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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: P487187

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-2LO-20-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P487187

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-2LO-20-120-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°	2194	2194	2194
5°	2194	2178	2182
10°	2163	2156	2158
15°	2126	2124	2125
20°	2083	2101	2100
25°	2034	2074	2081
30°	1985	2043	2060
35°	1936	1999	2008
40°	1870	1954	1953
45°	1802	1886	1905
50°	1734	1823	1847
55°	1661	1759	1769
60°	1591	1696	1684
65°	1507	1592	1561
70°	1389	1463	1396
75°	1228	1279	1117
80°	988	1002	780
85°	647	619	454



TEST NUMBER: P487187

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-2LO-20-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.3	3.7
10°-20°	431.0	10.3
20°-30°	641.6	15.3
30°-40°	755.2	18.0
40°-50°	757.2	18.1
50°-60°	664.0	15.9
60°-70°	485.5	11.6
70°-80°	250.2	6.0
80°-90°	50.2	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°	1225.9	29.3
0°-40°	1981.1	47.3
0°-60°	3402.3	81.2
0°-90°	4188.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4188.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1631	1631	1631	1631	1631	
5°	1624	1614	1613	1624	1615	154
15°	1526	1529	1524	1534	1525	430
25°	1370	1376	1397	1417	1402	631
35°	1179	1184	1217	1230	1222	734
45°	947	951	991	1004	1001	730
55°	708	724	750	760	754	635
65°	473	484	500	498	490	468
75°	236	238	246	229	215	250
85°	42	41	40	32	29	55
90°	0	0	0	0	0	



TEST NUMBER: P487187

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-2LO-20-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1630.6	1630.6	1630.6	1630.6	1630.6
2.5°	1638.6	1630.6	1619.9	1628.8	1627.0
5°	1624.4	1613.7	1612.8	1623.5	1615.4
7.5°	1606.5	1604.7	1594.0	1605.6	1601.2
10°	1583.3	1581.6	1578.0	1586.0	1579.8
12.5°	1555.7	1553.9	1555.7	1560.2	1555.7
15°	1526.3	1529.0	1524.5	1534.3	1525.4
17.5°	1487.1	1489.7	1498.7	1502.2	1501.3
20°	1455.0	1456.8	1467.5	1481.7	1466.6
22.5°	1413.1	1417.5	1422.9	1448.7	1445.2
25°	1370.3	1376.5	1397.0	1416.6	1401.5
27.5°	1325.7	1331.9	1356.9	1371.2	1369.4
30°	1277.6	1283.8	1315.0	1334.6	1325.7
32.5°	1227.6	1238.3	1272.2	1289.1	1272.2
35°	1178.6	1183.9	1216.9	1230.3	1222.3
37.5°	1113.5	1134.0	1167.0	1175.9	1161.7
40°	1064.5	1065.4	1112.6	1112.6	1111.7
42.5°	1001.2	1015.4	1046.7	1063.6	1054.7
45°	946.8	951.3	991.4	1003.9	1001.2
47.5°	887.1	904.9	934.3	948.6	941.5
50°	828.2	840.7	871.0	889.7	882.6
52.5°	773.8	783.7	814.9	825.6	818.4
55°	707.9	723.9	749.8	760.5	754.2
57.5°	650.8	662.4	694.5	698.1	694.5
60°	591.1	604.5	630.3	633.0	625.9
62.5°	534.0	542.9	566.1	567.0	559.0
65°	473.4	484.1	500.1	498.4	490.3
67.5°	413.7	420.8	436.0	429.7	420.8
70°	353.0	359.3	371.8	362.9	354.8
72.5°	294.2	298.7	309.4	296.0	286.2
75°	236.3	238.0	246.1	229.1	214.9
77.5°	179.2	181.0	185.4	168.5	152.5
80°	127.5	127.5	129.3	111.4	100.7
82.5°	80.2	80.2	79.3	66.0	59.7
85°	41.9	41.0	40.1	32.1	29.4
87.5°	15.2	15.2	12.5	11.6	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)