

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: P487189

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-2LO-27-120-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: P487189
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-27-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

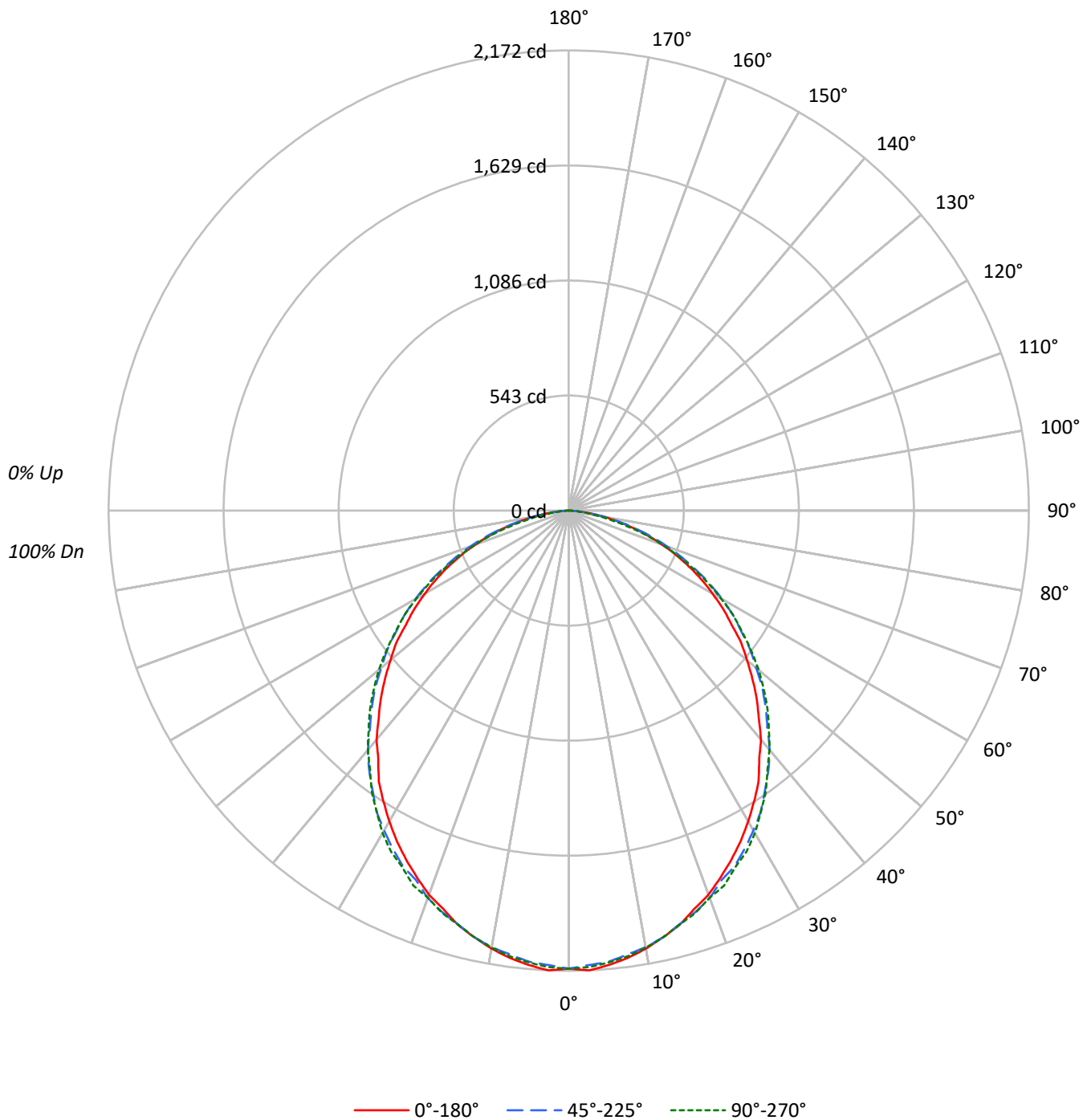
Lumens per Lamp: N/A
Luminaire Lumens: 5552.7 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot



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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	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°	2909	2909	2909
5°	2909	2888	2893
10°	2868	2858	2861
15°	2819	2815	2817
20°	2762	2786	2784
25°	2697	2750	2758
30°	2631	2709	2731
35°	2566	2650	2662
40°	2479	2591	2589
45°	2388	2501	2526
50°	2298	2417	2449
55°	2202	2332	2346
60°	2109	2249	2233
65°	1998	2111	2070
70°	1841	1939	1851
75°	1628	1696	1481
80°	1309	1328	1035
85°	858	821	602



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.2	3.7
10°-20°	571.4	10.3
20°-30°	850.6	15.3
30°-40°	1001.3	18.0
40°-50°	1003.9	18.1
50°-60°	880.3	15.9
60°-70°	643.7	11.6
70°-80°	331.7	6.0
80°-90°	66.6	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°	1625.2	29.3
0°-40°	2626.4	47.3
0°-60°	4510.6	81.2
0°-90°	5552.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5552.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2162	2162	2162	2162	2162	
5°	2154	2139	2138	2152	2142	204
15°	2024	2027	2021	2034	2022	569
25°	1817	1825	1852	1878	1858	837
35°	1562	1570	1613	1631	1620	973
45°	1255	1261	1314	1331	1327	967
55°	938	960	994	1008	1000	842
65°	628	642	663	661	650	621
75°	313	316	326	304	285	332
85°	56	54	53	43	39	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2161.8	2161.8	2161.8	2161.8	2161.8
2.5°	2172.4	2161.8	2147.6	2159.4	2157.1
5°	2153.5	2139.3	2138.2	2152.3	2141.7
7.5°	2129.9	2127.5	2113.3	2128.7	2122.8
10°	2099.1	2096.8	2092.1	2102.7	2094.4
12.5°	2062.5	2060.1	2062.5	2068.4	2062.5
15°	2023.5	2027.0	2021.1	2034.1	2022.3
17.5°	1971.5	1975.0	1986.9	1991.6	1990.4
20°	1928.9	1931.3	1945.5	1964.4	1944.3
22.5°	1873.4	1879.3	1886.4	1920.7	1915.9
25°	1816.7	1824.9	1852.1	1878.1	1858.0
27.5°	1757.6	1765.8	1798.9	1817.8	1815.5
30°	1693.7	1702.0	1743.4	1769.4	1757.6
32.5°	1627.5	1641.7	1686.6	1709.1	1686.6
35°	1562.5	1569.6	1613.4	1631.1	1620.5
37.5°	1476.3	1503.4	1547.2	1559.0	1540.1
40°	1411.3	1412.4	1475.1	1475.1	1473.9
42.5°	1327.3	1346.2	1387.6	1410.1	1398.2
45°	1255.2	1261.1	1314.3	1330.9	1327.3
47.5°	1176.0	1199.7	1238.7	1257.6	1248.1
50°	1098.0	1114.6	1154.8	1179.6	1170.1
52.5°	1025.9	1038.9	1080.3	1094.5	1085.0
55°	938.5	959.7	994.0	1008.2	999.9
57.5°	862.8	878.2	920.7	925.5	920.7
60°	783.6	801.4	835.6	839.2	829.7
62.5°	708.0	719.8	750.5	751.7	741.1
65°	627.6	641.8	663.1	660.7	650.1
67.5°	548.4	557.9	578.0	569.7	557.9
70°	468.1	476.3	492.9	481.1	470.4
72.5°	390.0	396.0	410.1	392.4	379.4
75°	313.2	315.6	326.2	303.8	284.9
77.5°	237.6	239.9	245.8	223.4	202.1
80°	169.0	169.0	171.4	147.7	133.6
82.5°	106.4	106.4	105.2	87.5	79.2
85°	55.6	54.4	53.2	42.6	39.0
87.5°	20.1	20.1	16.5	15.4	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)