

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: P487196

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-2LO-50-120-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: P487196
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-50-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

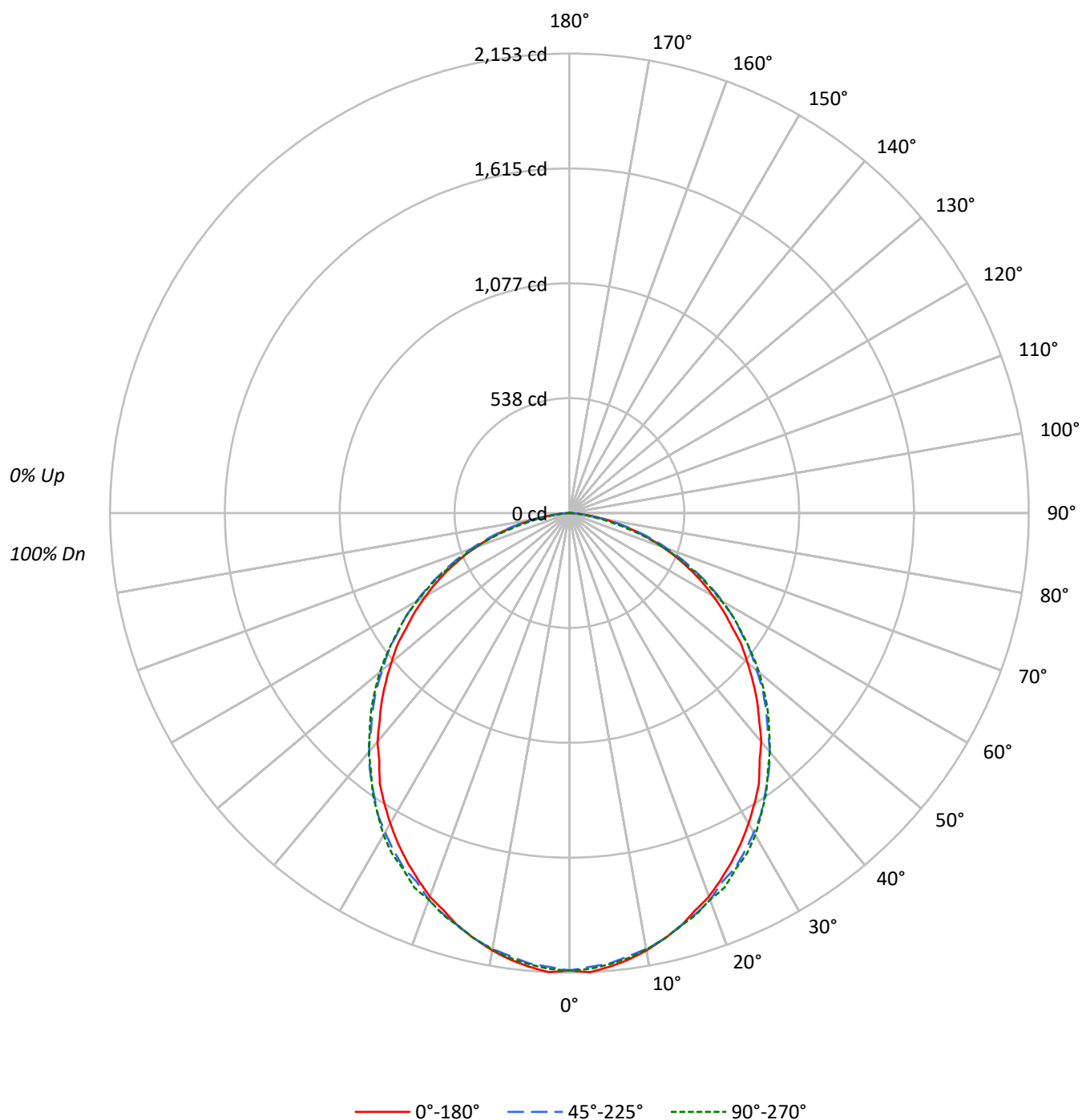
Lumens per Lamp: N/A
Luminaire Lumens: 5504.0 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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					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°	2883	2883	2883
5°	2883	2863	2867
10°	2843	2833	2836
15°	2794	2791	2792
20°	2738	2761	2760
25°	2673	2726	2734
30°	2608	2685	2707
35°	2544	2627	2638
40°	2457	2568	2566
45°	2367	2479	2504
50°	2278	2396	2428
55°	2182	2311	2325
60°	2090	2229	2213
65°	1981	2093	2052
70°	1825	1922	1834
75°	1614	1681	1468
80°	1298	1316	1026
85°	851	814	597



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.4	3.7
10°-20°	566.3	10.3
20°-30°	843.2	15.3
30°-40°	992.5	18.0
40°-50°	995.1	18.1
50°-60°	872.6	15.9
60°-70°	638.1	11.6
70°-80°	328.8	6.0
80°-90°	66.0	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°	1610.9	29.3
0°-40°	2603.4	47.3
0°-60°	4471.1	81.2
0°-90°	5504.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5504.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2143	2143	2143	2143	2143	
5°	2135	2121	2119	2134	2123	202
15°	2006	2009	2003	2016	2005	564
25°	1801	1809	1836	1862	1842	829
35°	1549	1556	1599	1617	1606	965
45°	1244	1250	1303	1319	1316	959
55°	930	951	985	999	991	835
65°	622	636	657	655	644	615
75°	310	313	323	301	282	329
85°	55	54	53	42	39	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2142.8	2142.8	2142.8	2142.8	2142.8
2.5°	2153.4	2142.8	2128.8	2140.5	2138.1
5°	2134.6	2120.6	2119.4	2133.5	2122.9
7.5°	2111.2	2108.9	2094.8	2110.0	2104.2
10°	2080.7	2078.4	2073.7	2084.3	2076.1
12.5°	2044.4	2042.1	2044.4	2050.3	2044.4
15°	2005.8	2009.3	2003.4	2016.3	2004.6
17.5°	1954.2	1957.7	1969.4	1974.1	1973.0
20°	1912.0	1914.4	1928.4	1947.2	1927.3
22.5°	1857.0	1862.8	1869.9	1903.8	1899.1
25°	1800.7	1808.9	1835.9	1861.6	1841.7
27.5°	1742.1	1750.3	1783.2	1801.9	1799.6
30°	1678.9	1687.1	1728.1	1753.9	1742.1
32.5°	1613.3	1627.3	1671.9	1694.1	1671.9
35°	1548.8	1555.9	1599.2	1616.8	1606.2
37.5°	1463.3	1490.3	1533.6	1545.3	1526.6
40°	1398.9	1400.0	1462.1	1462.1	1461.0
42.5°	1315.7	1334.4	1375.4	1397.7	1386.0
45°	1244.2	1250.1	1302.8	1319.2	1315.7
47.5°	1165.7	1189.2	1227.8	1246.6	1237.2
50°	1088.4	1104.8	1144.6	1169.2	1159.9
52.5°	1016.9	1029.8	1070.8	1084.9	1075.5
55°	930.2	951.3	985.3	999.4	991.2
57.5°	855.3	870.5	912.7	917.4	912.7
60°	776.8	794.3	828.3	831.8	822.5
62.5°	701.8	713.5	744.0	745.1	734.6
65°	622.1	636.2	657.3	654.9	644.4
67.5°	543.6	553.0	572.9	564.7	553.0
70°	463.9	472.1	488.6	476.8	466.3
72.5°	386.6	392.5	406.5	389.0	376.1
75°	310.5	312.8	323.4	301.1	282.4
77.5°	235.5	237.8	243.7	221.4	200.3
80°	167.5	167.5	169.9	146.4	132.4
82.5°	105.4	105.4	104.3	86.7	78.5
85°	55.1	53.9	52.7	42.2	38.7
87.5°	19.9	19.9	16.4	15.2	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)