

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: P487190

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-2LO-30-120-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: P487190
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-30-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

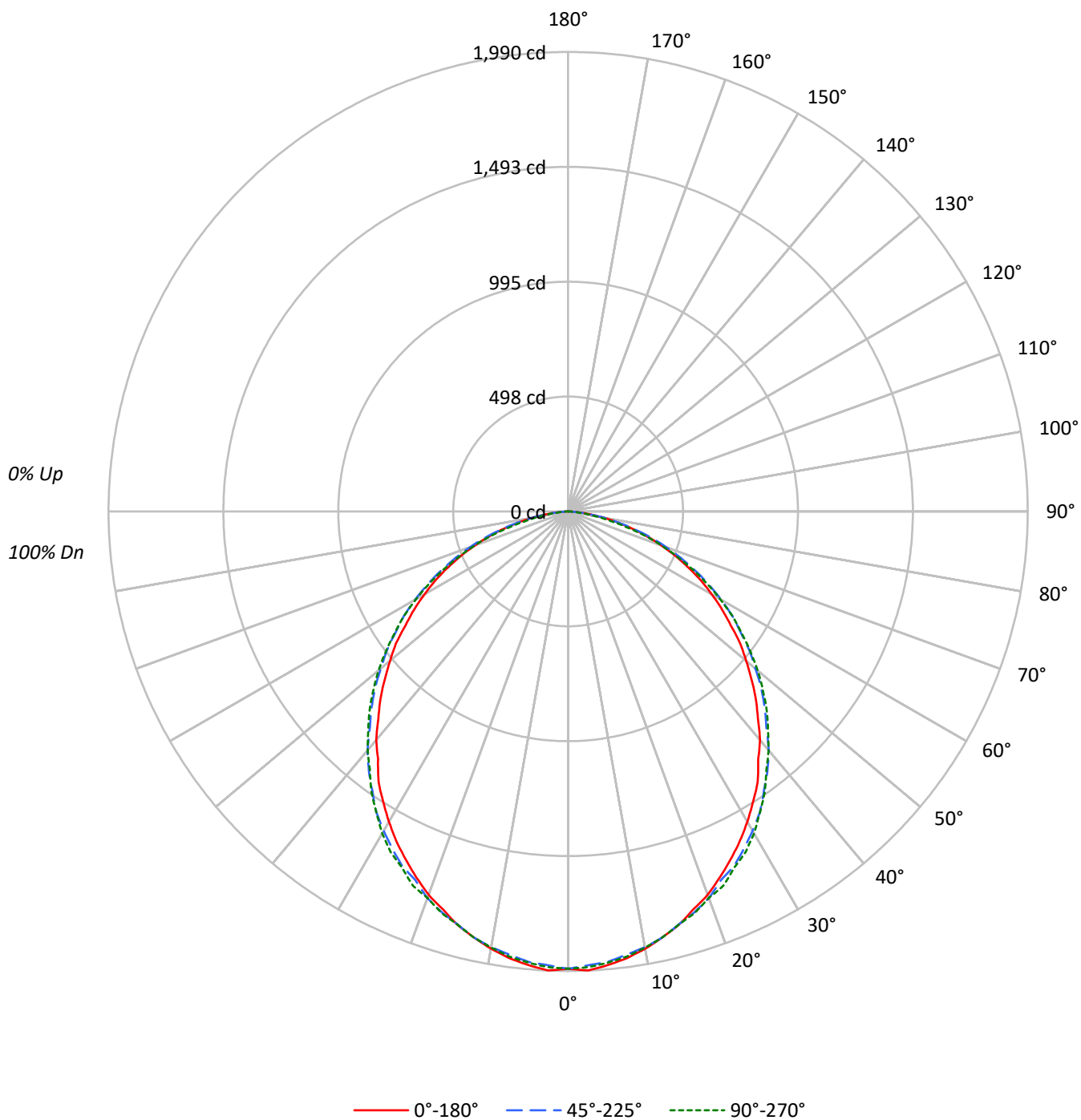
Lumens per Lamp: N/A
Luminaire Lumens: 5085.9 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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				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°	2664	2664	2664
5°	2664	2645	2650
10°	2627	2618	2621
15°	2582	2579	2580
20°	2530	2551	2550
25°	2470	2518	2526
30°	2410	2481	2501
35°	2351	2427	2438
40°	2270	2373	2371
45°	2188	2291	2313
50°	2105	2214	2244
55°	2016	2136	2149
60°	1932	2060	2045
65°	1830	1933	1896
70°	1686	1776	1695
75°	1491	1553	1356
80°	1199	1216	948
85°	786	752	551



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.1	3.7
10°-20°	523.3	10.3
20°-30°	779.1	15.3
30°-40°	917.1	18.0
40°-50°	919.5	18.1
50°-60°	806.3	15.9
60°-70°	589.6	11.6
70°-80°	303.9	6.0
80°-90°	61.0	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°	1488.6	29.3
0°-40°	2405.7	47.3
0°-60°	4131.5	81.2
0°-90°	5085.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5085.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1980	1980	1980	1980	1980	
5°	1972	1960	1958	1971	1962	187
15°	1853	1857	1851	1863	1852	522
25°	1664	1672	1696	1720	1702	766
35°	1431	1438	1478	1494	1484	891
45°	1150	1155	1204	1219	1216	886
55°	860	879	910	923	916	772
65°	575	588	607	605	595	569
75°	287	289	299	278	261	304
85°	51	50	49	39	36	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1980.1	1980.1	1980.1	1980.1	1980.1
2.5°	1989.8	1980.1	1967.1	1977.9	1975.7
5°	1972.5	1959.5	1958.4	1971.4	1961.7
7.5°	1950.8	1948.7	1935.7	1949.7	1944.3
10°	1922.7	1920.5	1916.2	1925.9	1918.3
12.5°	1889.1	1887.0	1889.1	1894.5	1889.1
15°	1853.4	1856.6	1851.2	1863.1	1852.3
17.5°	1805.8	1809.0	1819.8	1824.2	1823.1
20°	1766.8	1769.0	1781.9	1799.3	1780.9
22.5°	1715.9	1721.3	1727.8	1759.2	1754.9
25°	1663.9	1671.5	1696.4	1720.2	1701.8
27.5°	1609.8	1617.4	1647.7	1665.0	1662.9
30°	1551.3	1558.9	1596.8	1620.6	1609.8
32.5°	1490.7	1503.7	1544.9	1565.4	1544.9
35°	1431.2	1437.7	1477.7	1494.0	1484.2
37.5°	1352.2	1377.1	1417.1	1427.9	1410.6
40°	1292.6	1293.7	1351.1	1351.1	1350.0
42.5°	1215.7	1233.1	1271.0	1291.5	1280.7
45°	1149.7	1155.1	1203.8	1219.0	1215.7
47.5°	1077.2	1098.8	1134.6	1151.9	1143.2
50°	1005.7	1020.9	1057.7	1080.4	1071.8
52.5°	939.7	951.6	989.5	1002.5	993.8
55°	859.6	879.1	910.5	923.4	915.9
57.5°	790.3	804.4	843.3	847.7	843.3
60°	717.8	734.0	765.4	768.6	760.0
62.5°	648.5	659.3	687.4	688.5	678.8
65°	574.9	587.8	607.3	605.2	595.4
67.5°	502.3	511.0	529.4	521.8	511.0
70°	428.7	436.3	451.4	440.6	430.9
72.5°	357.3	362.7	375.7	359.4	347.5
75°	286.9	289.1	298.8	278.2	260.9
77.5°	217.6	219.8	225.2	204.6	185.1
80°	154.8	154.8	157.0	135.3	122.3
82.5°	97.4	97.4	96.4	80.1	72.5
85°	50.9	49.8	48.7	39.0	35.7
87.5°	18.4	18.4	15.2	14.1	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)