

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: P487174

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-2HI-20-120-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: P487174
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-LD4-2HI-20-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

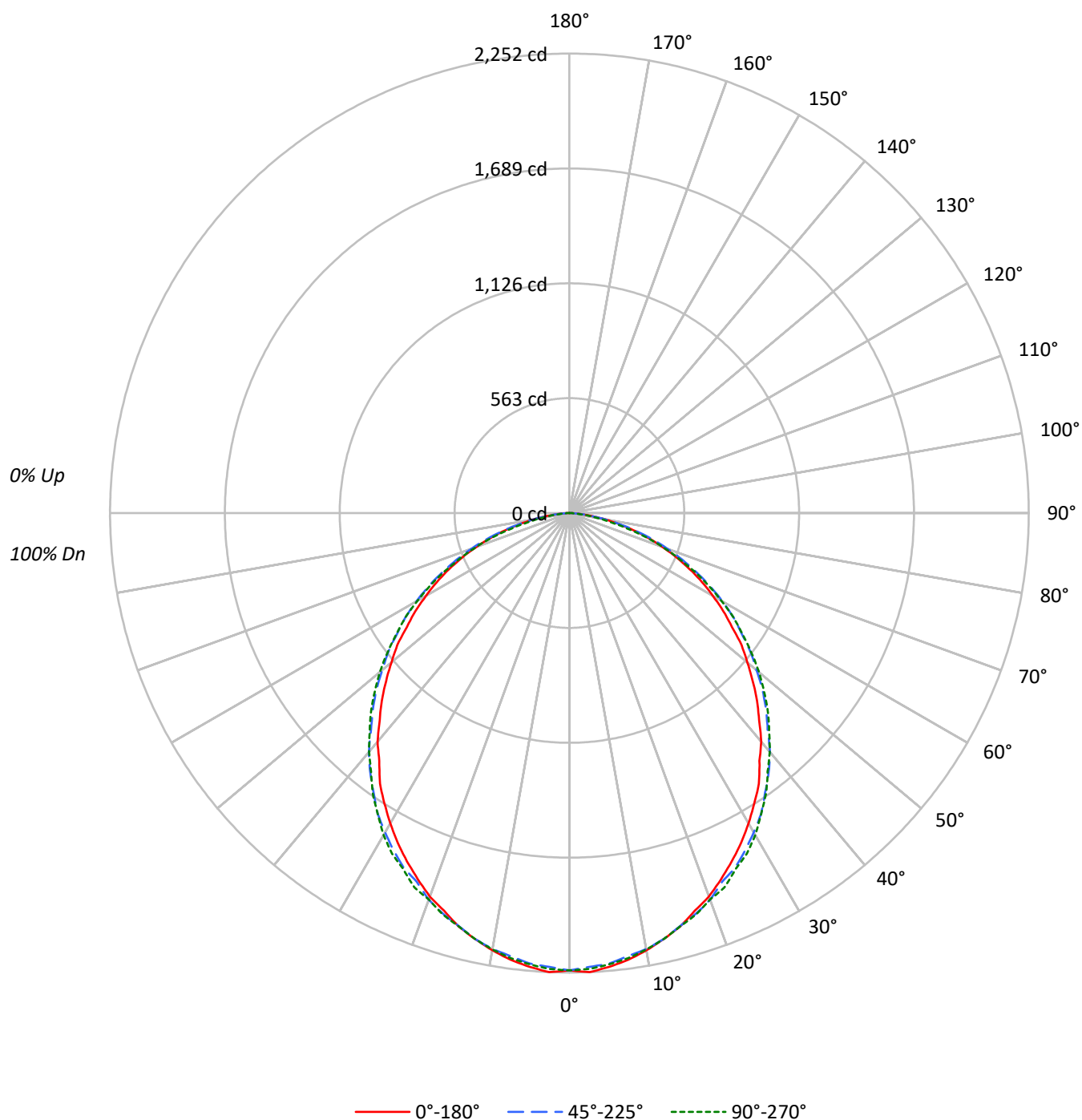
Lumens per Lamp: N/A
Luminaire Lumens: 5756.6 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 88
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°	3016	3016	3016
5°	3015	2994	2999
10°	2973	2963	2967
15°	2922	2919	2920
20°	2863	2888	2886
25°	2796	2851	2860
30°	2728	2808	2831
35°	2661	2747	2759
40°	2570	2686	2684
45°	2476	2593	2618
50°	2383	2506	2539
55°	2282	2417	2432
60°	2186	2331	2315
65°	2072	2188	2145
70°	1909	2010	1919
75°	1688	1758	1535
80°	1358	1377	1073
85°	889	851	624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.7	3.7
10°-20°	592.3	10.3
20°-30°	881.9	15.3
30°-40°	1038.0	18.0
40°-50°	1040.8	18.1
50°-60°	912.7	15.9
60°-70°	667.4	11.6
70°-80°	343.9	6.0
80°-90°	69.0	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°	1684.9	29.3
0°-40°	2722.9	47.3
0°-60°	4676.3	81.2
0°-90°	5756.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5756.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2241	2241	2241	2241	2241	
5°	2233	2218	2217	2231	2220	211
15°	2098	2102	2095	2109	2097	590
25°	1883	1892	1920	1947	1926	868
35°	1620	1627	1673	1691	1680	1009
45°	1301	1308	1363	1380	1376	1003
55°	973	995	1030	1045	1037	873
65°	651	665	687	685	674	644
75°	325	327	338	315	295	344
85°	58	56	55	44	40	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2241.2	2241.2	2241.2	2241.2	2241.2
2.5°	2252.2	2241.2	2226.5	2238.7	2236.3
5°	2232.6	2217.9	2216.7	2231.4	2220.3
7.5°	2208.1	2205.6	2190.9	2206.9	2200.7
10°	2176.2	2173.8	2168.9	2179.9	2171.3
12.5°	2138.2	2135.8	2138.2	2144.4	2138.2
15°	2097.8	2101.5	2095.4	2108.8	2096.6
17.5°	2043.9	2047.6	2059.8	2064.7	2063.5
20°	1999.8	2002.2	2016.9	2036.5	2015.7
22.5°	1942.2	1948.3	1955.7	1991.2	1986.3
25°	1883.4	1891.9	1920.1	1947.1	1926.3
27.5°	1822.1	1830.7	1865.0	1884.6	1882.1
30°	1755.9	1764.5	1807.4	1834.4	1822.1
32.5°	1687.3	1702.0	1748.6	1771.9	1748.6
35°	1619.9	1627.3	1672.6	1691.0	1680.0
37.5°	1530.5	1558.7	1604.0	1616.2	1596.6
40°	1463.1	1464.3	1529.2	1529.2	1528.0
42.5°	1376.1	1395.7	1438.6	1461.8	1449.6
45°	1301.3	1307.5	1362.6	1379.7	1376.1
47.5°	1219.2	1243.7	1284.2	1303.8	1294.0
50°	1138.4	1155.5	1197.2	1222.9	1213.1
52.5°	1063.6	1077.1	1120.0	1134.7	1124.9
55°	972.9	995.0	1030.5	1045.2	1036.6
57.5°	894.5	910.4	954.6	959.5	954.6
60°	812.4	830.8	866.3	870.0	860.2
62.5°	734.0	746.2	778.1	779.3	768.3
65°	650.7	665.4	687.4	685.0	673.9
67.5°	568.6	578.4	599.2	590.6	578.4
70°	485.2	493.8	511.0	498.7	487.7
72.5°	404.4	410.5	425.2	406.8	393.3
75°	324.7	327.2	338.2	314.9	295.3
77.5°	246.3	248.7	254.9	231.6	209.5
80°	175.2	175.2	177.7	153.2	138.5
82.5°	110.3	110.3	109.1	90.7	82.1
85°	57.6	56.4	55.1	44.1	40.4
87.5°	20.8	20.8	17.2	15.9	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)