

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: P486012

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-5STD-27-120-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: P486012
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-24-2-INS-A125-LD4-5STD-27-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

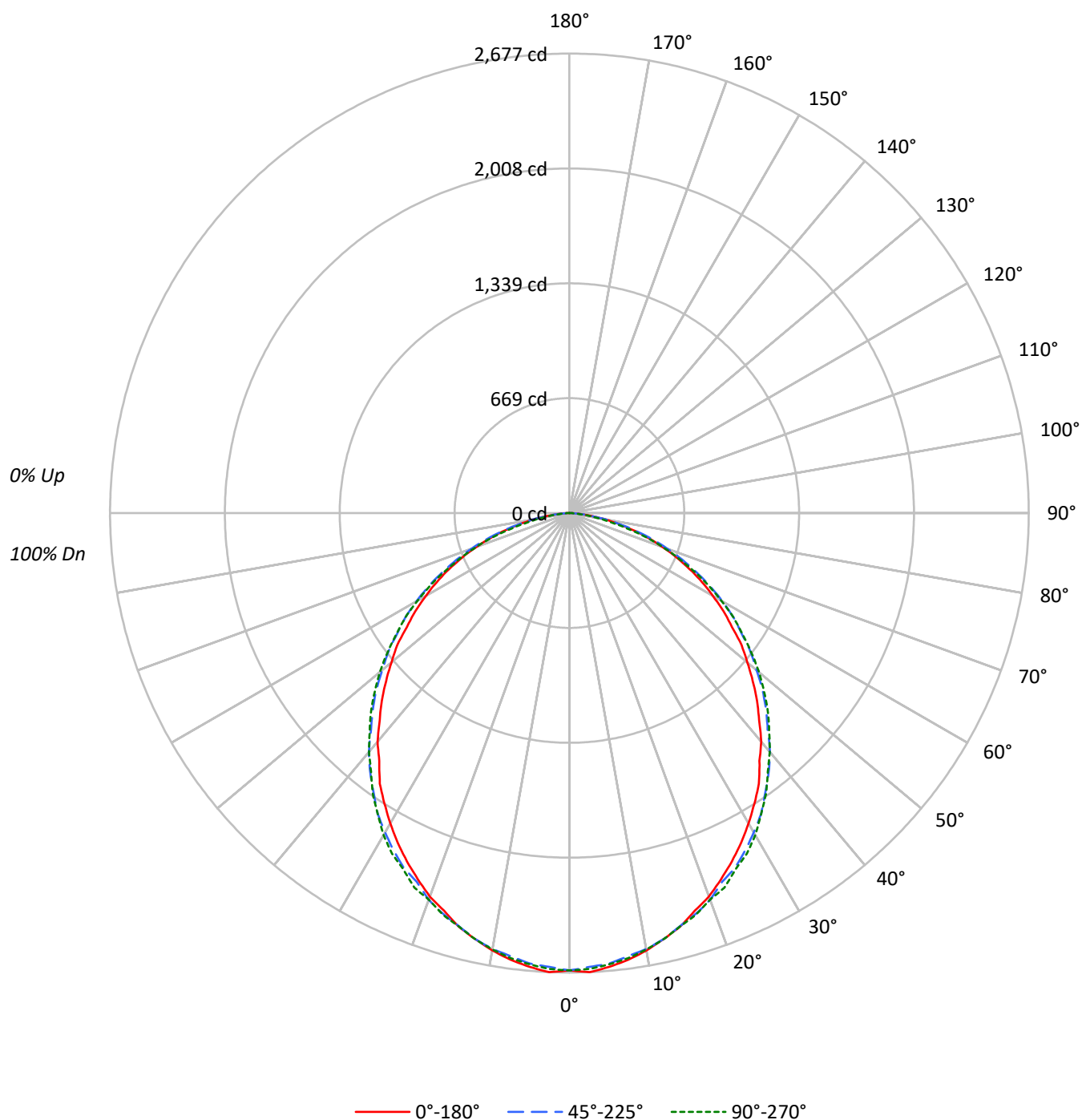
Lumens per Lamp: N/A
Luminaire Lumens: 6843.5 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 83.2
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
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°	7170	7170	7170
5°	7169	7118	7130
10°	7069	7045	7053
15°	6948	6940	6944
20°	6808	6866	6862
25°	6648	6778	6799
30°	6486	6677	6731
35°	6326	6532	6561
40°	6110	6386	6381
45°	5887	6165	6226
50°	5665	5958	6037
55°	5426	5748	5782
60°	5198	5543	5504
65°	4925	5203	5102
70°	4539	4779	4562
75°	4013	4181	3650
80°	3228	3273	2551
85°	2115	2025	1485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.4	3.7
10°-20°	704.2	10.3
20°-30°	1048.4	15.3
30°-40°	1234.0	18.0
40°-50°	1237.3	18.1
50°-60°	1085.0	15.9
60°-70°	793.4	11.6
70°-80°	408.9	6.0
80°-90°	82.0	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°	2003.0	29.3
0°-40°	3237.0	47.3
0°-60°	5559.3	81.2
0°-90°	6843.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6843.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2664	2664	2664	2664	2664	
5°	2654	2637	2635	2653	2640	251
15°	2494	2498	2491	2507	2492	702
25°	2239	2249	2283	2315	2290	1031
35°	1926	1934	1988	2010	1997	1199
45°	1547	1554	1620	1640	1636	1192
55°	1157	1183	1225	1243	1232	1038
65°	774	791	817	814	801	765
75°	386	389	402	374	351	409
85°	68	67	66	52	48	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2664.3	2664.3	2664.3	2664.3	2664.3
2.5°	2677.4	2664.3	2646.8	2661.4	2658.5
5°	2654.1	2636.7	2635.2	2652.7	2639.6
7.5°	2625.0	2622.1	2604.6	2623.5	2616.3
10°	2587.1	2584.2	2578.4	2591.5	2581.3
12.5°	2542.0	2539.1	2542.0	2549.2	2542.0
15°	2493.9	2498.3	2491.0	2507.0	2492.4
17.5°	2429.8	2434.2	2448.7	2454.6	2453.1
20°	2377.4	2380.3	2397.7	2421.1	2396.3
22.5°	2308.9	2316.2	2324.9	2367.2	2361.3
25°	2239.0	2249.2	2282.7	2314.7	2290.0
27.5°	2166.1	2176.3	2217.1	2240.4	2237.5
30°	2087.5	2097.7	2148.7	2180.7	2166.1
32.5°	2005.9	2023.4	2078.7	2106.4	2078.7
35°	1925.8	1934.5	1988.4	2010.3	1997.2
37.5°	1819.4	1852.9	1906.8	1921.4	1898.1
40°	1739.3	1740.8	1818.0	1818.0	1816.5
42.5°	1635.9	1659.2	1710.2	1737.9	1723.3
45°	1547.0	1554.3	1619.9	1640.3	1635.9
47.5°	1449.4	1478.6	1526.6	1549.9	1538.3
50°	1353.3	1373.7	1423.2	1453.8	1442.1
52.5°	1264.4	1280.5	1331.4	1348.9	1337.3
55°	1156.6	1182.9	1225.1	1242.6	1232.4
57.5°	1063.4	1082.3	1134.8	1140.6	1134.8
60°	965.8	987.7	1029.9	1034.3	1022.6
62.5°	872.6	887.1	925.0	926.5	913.4
65°	773.5	791.0	817.2	814.3	801.2
67.5°	675.9	687.6	712.3	702.1	687.6
70°	576.9	587.1	607.4	592.9	579.8
72.5°	480.7	488.0	505.5	483.6	467.6
75°	386.0	388.9	402.1	374.4	351.1
77.5°	292.8	295.7	303.0	275.3	249.1
80°	208.3	208.3	211.2	182.1	164.6
82.5°	131.1	131.1	129.6	107.8	97.6
85°	68.5	67.0	65.6	52.4	48.1
87.5°	24.8	24.8	20.4	18.9	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)