

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: P485960

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-4HI-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: P485960
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-LD4-4HI-50-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

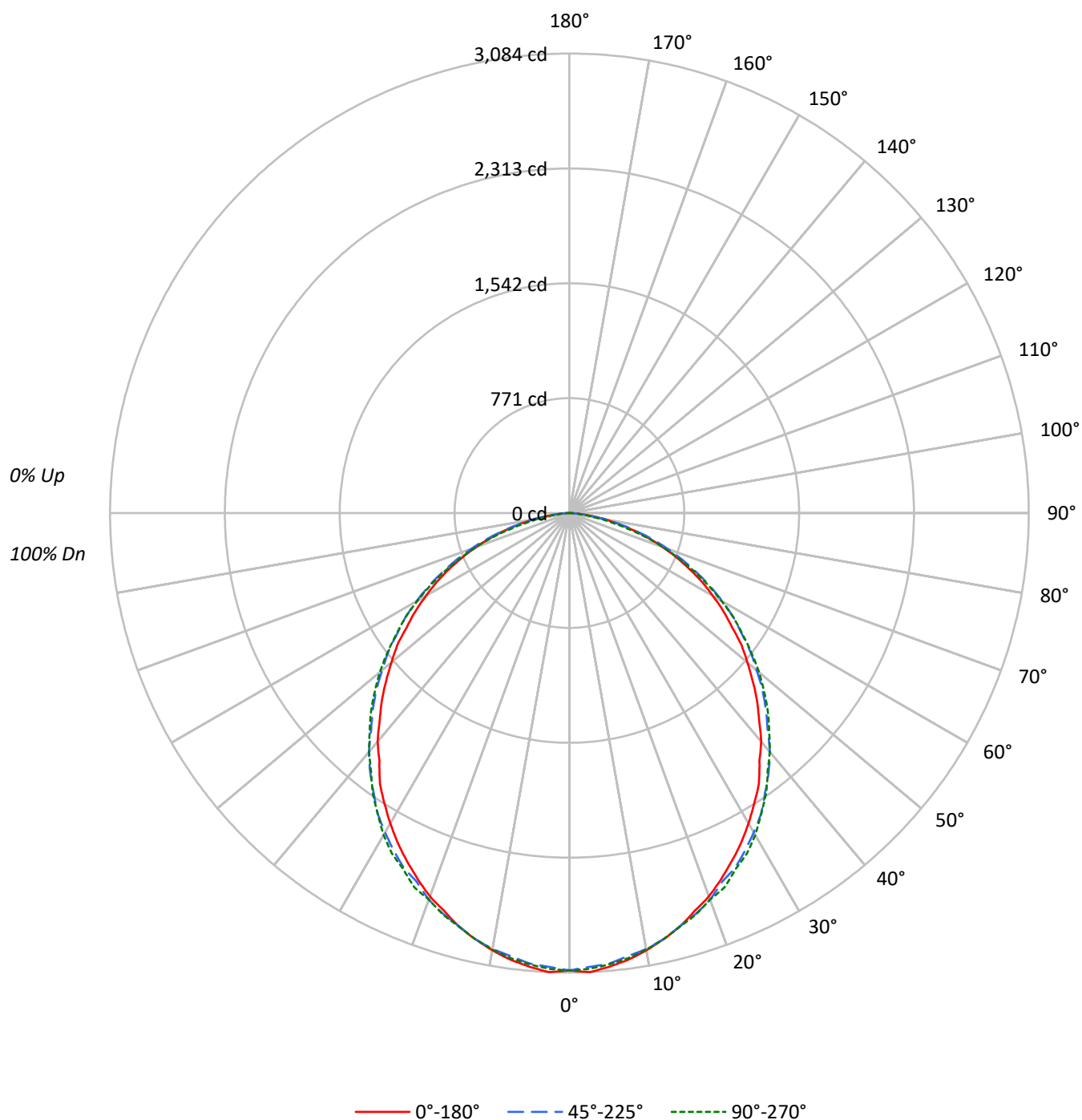
Lumens per Lamp: N/A
Luminaire Lumens: 7883.1 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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°	8259	8259	8259
5°	8259	8200	8213
10°	8143	8116	8125
15°	8003	7994	7999
20°	7842	7909	7905
25°	7658	7807	7832
30°	7472	7691	7753
35°	7287	7524	7557
40°	7038	7356	7351
45°	6782	7101	7171
50°	6526	6863	6954
55°	6251	6621	6660
60°	5987	6385	6340
65°	5673	5994	5876
70°	5228	5505	5254
75°	4624	4815	4205
80°	3719	3770	2938
85°	2436	2331	1711



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.5	3.7
10°-20°	811.1	10.3
20°-30°	1207.6	15.3
30°-40°	1421.5	18.0
40°-50°	1425.2	18.1
50°-60°	1249.8	15.9
60°-70°	913.9	11.6
70°-80°	471.0	6.0
80°-90°	94.5	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°	2307.3	29.3
0°-40°	3728.7	47.3
0°-60°	6403.7	81.2
0°-90°	7883.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7883.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3069	3069	3069	3069	3069	
5°	3057	3037	3036	3056	3040	289
15°	2873	2878	2869	2888	2871	808
25°	2579	2591	2629	2666	2638	1188
35°	2218	2228	2290	2316	2300	1382
45°	1782	1790	1866	1889	1884	1373
55°	1332	1362	1411	1431	1420	1196
65°	891	911	941	938	923	881
75°	445	448	463	431	404	471
85°	79	77	76	60	55	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3069.1	3069.1	3069.1	3069.1	3069.1
2.5°	3084.2	3069.1	3048.9	3065.7	3062.4
5°	3057.3	3037.2	3035.5	3055.6	3040.5
7.5°	3023.8	3020.4	3000.3	3022.1	3013.7
10°	2980.1	2976.8	2970.1	2985.2	2973.4
12.5°	2928.1	2924.8	2928.1	2936.5	2928.1
15°	2872.7	2877.8	2869.4	2887.8	2871.1
17.5°	2798.9	2803.9	2820.7	2827.4	2825.8
20°	2738.5	2741.9	2762.0	2788.8	2760.3
22.5°	2659.6	2668.0	2678.1	2726.8	2720.0
25°	2579.1	2590.8	2629.4	2666.3	2637.8
27.5°	2495.2	2506.9	2553.9	2580.8	2577.4
30°	2404.6	2416.3	2475.1	2512.0	2495.2
32.5°	2310.6	2330.7	2394.5	2426.4	2394.5
35°	2218.3	2228.4	2290.5	2315.6	2300.5
37.5°	2095.8	2134.4	2196.5	2213.3	2186.4
40°	2003.5	2005.2	2094.1	2094.1	2092.5
42.5°	1884.4	1911.2	1970.0	2001.9	1985.1
45°	1782.0	1790.4	1865.9	1889.4	1884.4
47.5°	1669.6	1703.2	1758.5	1785.4	1772.0
50°	1558.9	1582.4	1639.4	1674.6	1661.2
52.5°	1456.5	1475.0	1533.7	1553.8	1540.4
55°	1332.3	1362.5	1411.2	1431.3	1419.6
57.5°	1224.9	1246.8	1307.2	1313.9	1307.2
60°	1112.5	1137.7	1186.3	1191.4	1178.0
62.5°	1005.1	1021.9	1065.5	1067.2	1052.1
65°	891.0	911.2	941.4	938.0	922.9
67.5°	778.6	792.0	820.5	808.8	792.0
70°	664.5	676.2	699.7	682.9	667.8
72.5°	553.7	562.1	582.3	557.1	538.6
75°	444.7	448.0	463.1	431.2	404.4
77.5°	337.3	340.6	349.0	317.1	286.9
80°	240.0	240.0	243.3	209.8	189.6
82.5°	151.0	151.0	149.3	124.2	112.4
85°	78.9	77.2	75.5	60.4	55.4
87.5°	28.5	28.5	23.5	21.8	23.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)