

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: P485156

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-2STD-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: P485156
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-12-4-INS-A125-LD4-2STD-50-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

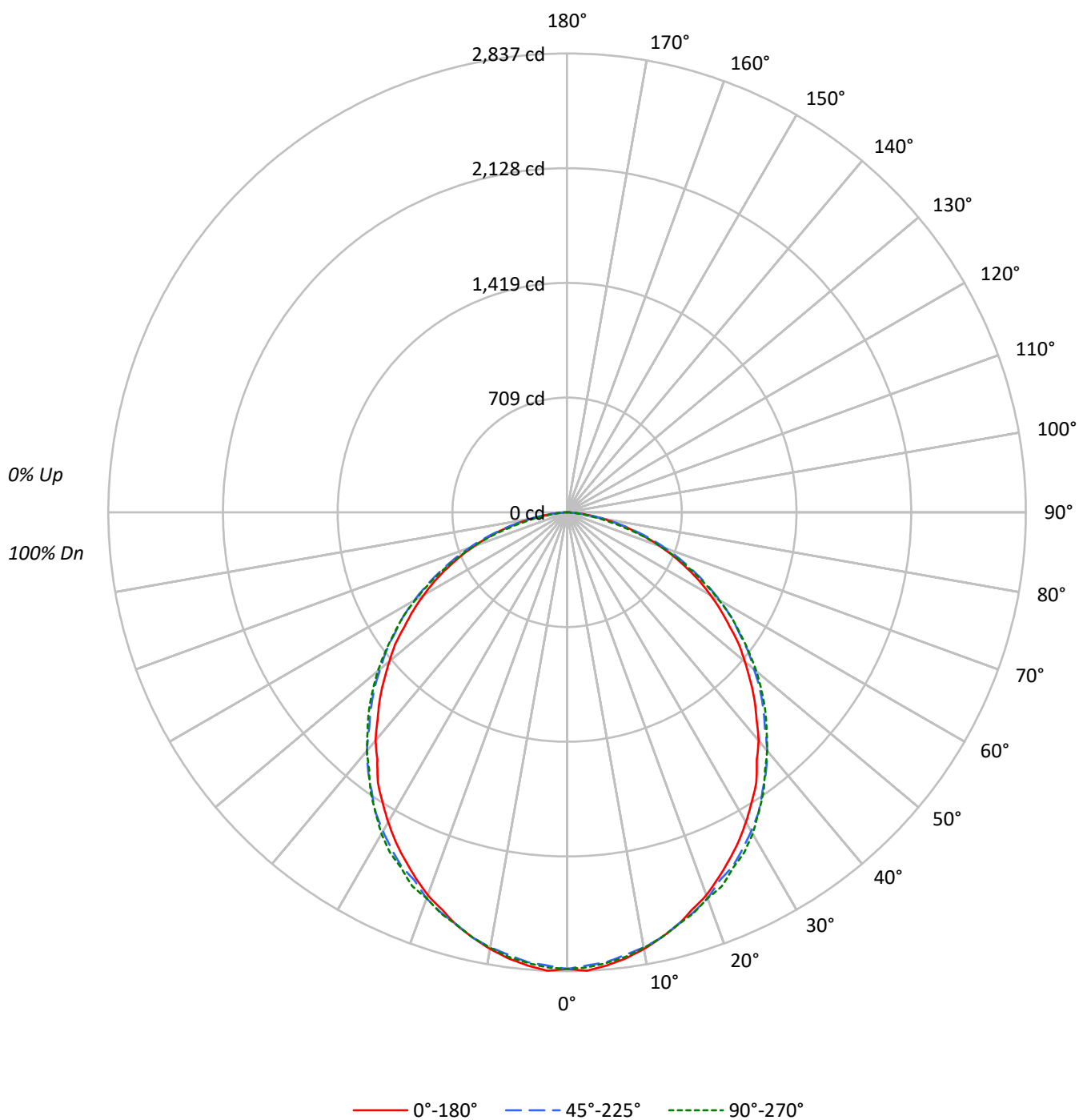
Lumens per Lamp: N/A
Luminaire Lumens: 7250.8 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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°	7596	7596	7596
5°	7596	7542	7555
10°	7490	7465	7473
15°	7361	7353	7357
20°	7213	7275	7271
25°	7043	7181	7204
30°	6872	7074	7132
35°	6703	6921	6951
40°	6473	6766	6761
45°	6238	6532	6596
50°	6002	6313	6397
55°	5750	6090	6126
60°	5507	5873	5831
65°	5219	5514	5405
70°	4809	5064	4833
75°	4252	4429	3868
80°	3420	3468	2703
85°	2238	2146	1572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.3	3.7
10°-20°	746.1	10.3
20°-30°	1110.8	15.3
30°-40°	1307.5	18.0
40°-50°	1310.9	18.1
50°-60°	1149.5	15.9
60°-70°	840.6	11.6
70°-80°	433.2	6.0
80°-90°	86.9	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°	2122.2	29.3
0°-40°	3429.7	47.3
0°-60°	5890.1	81.2
0°-90°	7250.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7250.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2823	2823	2823	2823	2823	
5°	2812	2794	2792	2811	2797	266
15°	2642	2647	2639	2656	2641	744
25°	2372	2383	2418	2452	2426	1093
35°	2040	2050	2107	2130	2116	1271
45°	1639	1647	1716	1738	1733	1263
55°	1226	1253	1298	1316	1306	1100
65°	820	838	866	863	849	811
75°	409	412	426	397	372	433
85°	72	71	70	56	51	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2822.9	2822.9	2822.9	2822.9	2822.9
2.5°	2836.8	2822.9	2804.4	2819.8	2816.7
5°	2812.1	2793.6	2792.0	2810.6	2796.7
7.5°	2781.2	2778.1	2759.6	2779.7	2772.0
10°	2741.1	2738.0	2731.8	2745.7	2734.9
12.5°	2693.3	2690.2	2693.3	2701.0	2693.3
15°	2642.3	2647.0	2639.2	2656.2	2640.8
17.5°	2574.4	2579.0	2594.5	2600.6	2599.1
20°	2518.8	2521.9	2540.5	2565.1	2538.9
22.5°	2446.3	2454.0	2463.3	2508.0	2501.9
25°	2372.2	2383.0	2418.5	2452.5	2426.2
27.5°	2295.1	2305.9	2349.1	2373.8	2370.7
30°	2211.7	2222.5	2276.5	2310.5	2295.1
32.5°	2125.3	2143.8	2202.4	2231.8	2202.4
35°	2040.4	2049.6	2106.8	2129.9	2116.0
37.5°	1927.7	1963.2	2020.3	2035.8	2011.1
40°	1842.8	1844.4	1926.2	1926.2	1924.6
42.5°	1733.3	1757.9	1812.0	1841.3	1825.9
45°	1639.1	1646.8	1716.3	1737.9	1733.3
47.5°	1535.7	1566.6	1617.5	1642.2	1629.8
50°	1433.8	1455.4	1507.9	1540.3	1528.0
52.5°	1339.7	1356.7	1410.7	1429.2	1416.9
55°	1225.5	1253.2	1298.0	1316.5	1305.7
57.5°	1126.7	1146.8	1202.3	1208.5	1202.3
60°	1023.3	1046.4	1091.2	1095.8	1083.5
62.5°	924.5	939.9	980.1	981.6	967.7
65°	819.6	838.1	865.9	862.8	848.9
67.5°	716.1	728.5	754.7	743.9	728.5
70°	611.2	622.0	643.6	628.2	614.3
72.5°	509.3	517.0	535.6	512.4	495.4
75°	409.0	412.1	426.0	396.7	372.0
77.5°	310.2	313.3	321.0	291.7	263.9
80°	220.7	220.7	223.8	192.9	174.4
82.5°	138.9	138.9	137.4	114.2	103.4
85°	72.5	71.0	69.5	55.6	50.9
87.5°	26.2	26.2	21.6	20.1	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)