

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: P485158

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-3HI-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: P485158
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-LD4-3HI-20-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

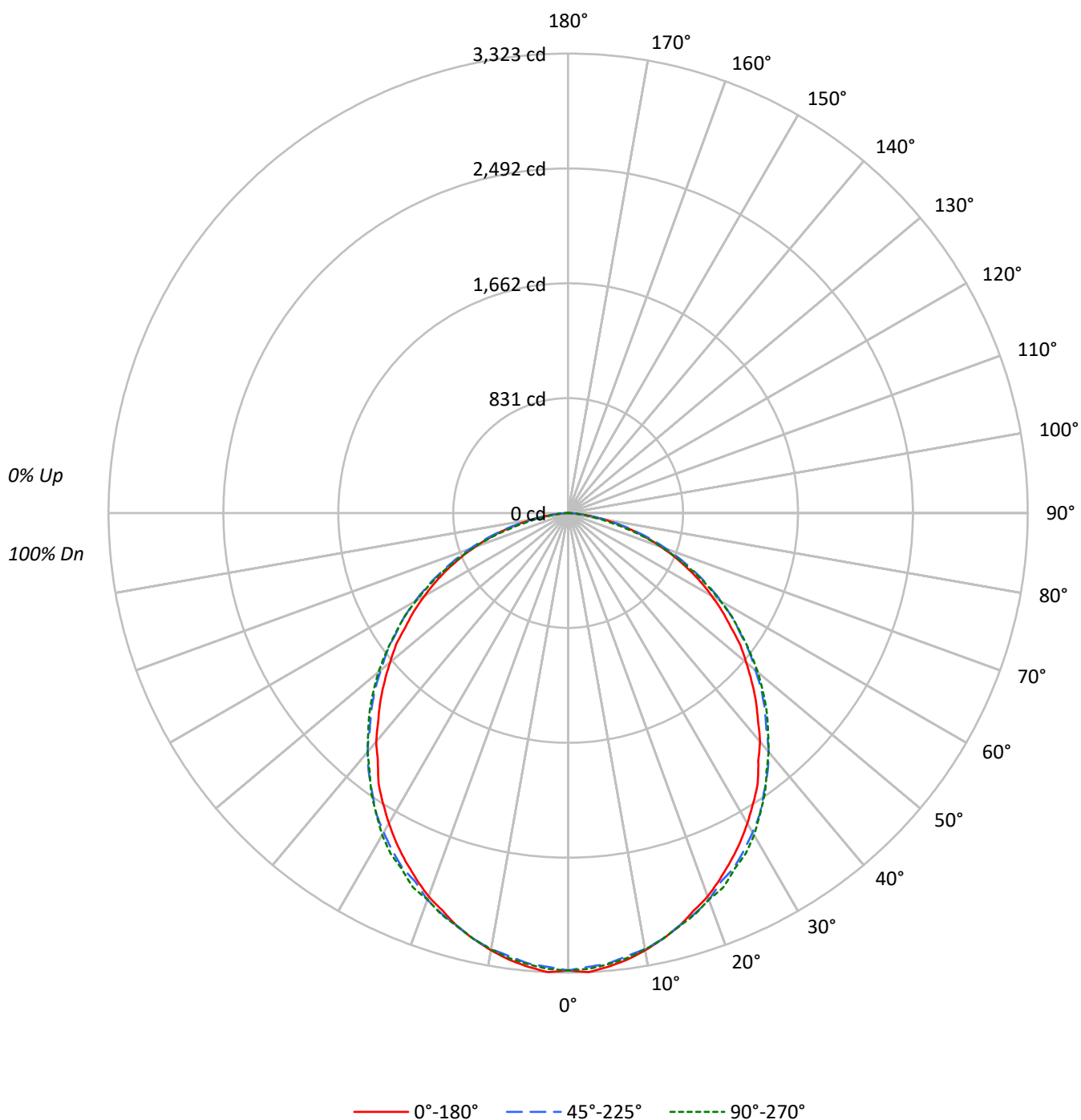
Lumens per Lamp: N/A
Luminaire Lumens: 8494.3 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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°	8899	8899	8899
5°	8899	8836	8850
10°	8775	8745	8755
15°	8624	8614	8619
20°	8450	8523	8517
25°	8252	8413	8439
30°	8051	8287	8354
35°	7852	8108	8143
40°	7584	7927	7920
45°	7308	7652	7727
50°	7032	7395	7494
55°	6735	7134	7177
60°	6452	6880	6831
65°	6113	6458	6332
70°	5633	5932	5662
75°	4981	5188	4531
80°	4007	4063	3166
85°	2624	2513	1843



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.8	3.7
10°-20°	874.0	10.3
20°-30°	1301.3	15.3
30°-40°	1531.7	18.0
40°-50°	1535.7	18.1
50°-60°	1346.7	15.9
60°-70°	984.7	11.6
70°-80°	507.5	6.0
80°-90°	101.8	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°	2486.2	29.3
0°-40°	4017.9	47.3
0°-60°	6900.2	81.2
0°-90°	8494.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8494.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3307	3307	3307	3307	3307	
5°	3294	3273	3271	3293	3276	312
15°	3096	3101	3092	3112	3094	871
25°	2779	2792	2833	2873	2842	1280
35°	2390	2401	2468	2495	2479	1489
45°	1920	1929	2011	2036	2030	1480
55°	1436	1468	1521	1542	1530	1289
65°	960	982	1014	1011	994	950
75°	479	483	499	465	436	508
85°	85	83	81	65	60	111
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3307.0	3307.0	3307.0	3307.0	3307.0
2.5°	3323.3	3307.0	3285.3	3303.4	3299.8
5°	3294.4	3272.7	3270.9	3292.6	3276.3
7.5°	3258.2	3254.6	3232.9	3256.4	3247.4
10°	3211.2	3207.6	3200.3	3216.6	3204.0
12.5°	3155.1	3151.5	3155.1	3164.2	3155.1
15°	3095.5	3100.9	3091.9	3111.7	3093.7
17.5°	3015.9	3021.3	3039.4	3046.7	3044.8
20°	2950.8	2954.4	2976.1	3005.1	2974.3
22.5°	2865.8	2874.9	2885.7	2938.2	2930.9
25°	2779.1	2791.7	2833.3	2873.1	2842.3
27.5°	2688.6	2701.3	2751.9	2780.9	2777.2
30°	2591.0	2603.7	2667.0	2706.7	2688.6
32.5°	2489.8	2511.5	2580.2	2614.5	2580.2
35°	2390.3	2401.2	2468.1	2495.2	2478.9
37.5°	2258.3	2299.9	2366.8	2384.9	2356.0
40°	2158.9	2160.7	2256.5	2256.5	2254.7
42.5°	2030.5	2059.4	2122.7	2157.1	2139.0
45°	1920.2	1929.2	2010.6	2035.9	2030.5
47.5°	1799.1	1835.2	1894.9	1923.8	1909.4
50°	1679.7	1705.0	1766.5	1804.5	1790.0
52.5°	1569.4	1589.3	1652.6	1674.3	1659.8
55°	1435.6	1468.2	1520.6	1542.3	1529.7
57.5°	1319.9	1343.4	1408.5	1415.7	1408.5
60°	1198.8	1225.9	1278.3	1283.8	1269.3
62.5°	1083.1	1101.1	1148.1	1150.0	1133.7
65°	960.1	981.8	1014.3	1010.7	994.5
67.5°	839.0	853.4	884.2	871.5	853.4
70°	716.0	728.7	754.0	735.9	719.6
72.5°	596.7	605.7	627.4	600.3	580.4
75°	479.1	482.8	499.0	464.7	435.8
77.5°	363.4	367.0	376.1	341.7	309.2
80°	258.6	258.6	262.2	226.0	204.3
82.5°	162.7	162.7	160.9	133.8	121.1
85°	85.0	83.2	81.4	65.1	59.7
87.5°	30.7	30.7	25.3	23.5	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)