

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: P485125

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-2HI-27-120-EDD**

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: P485125
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-LD4-2HI-27-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

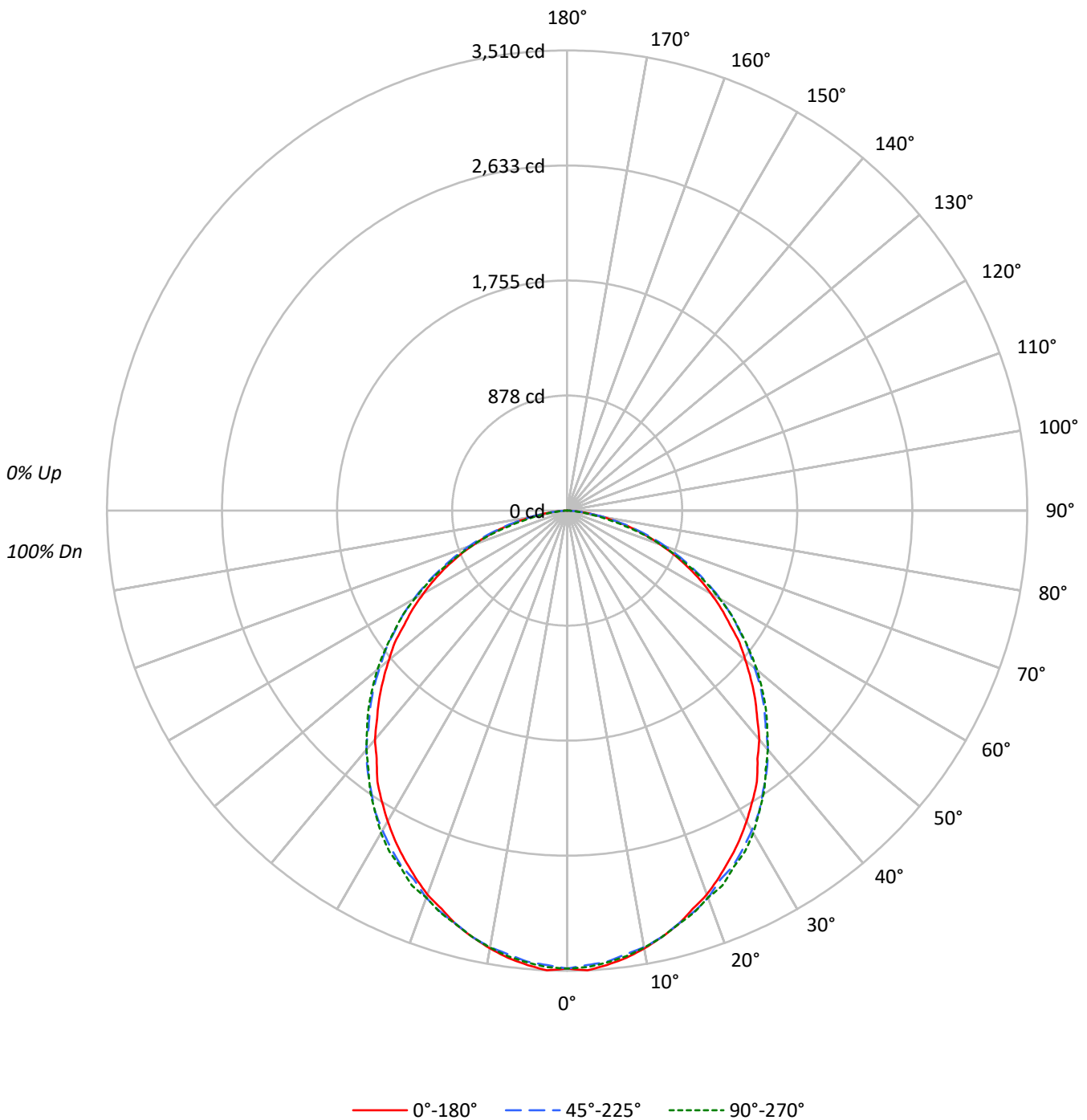
Lumens per Lamp: N/A
Luminaire Lumens: 8972.3 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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					0
RW	70	50	30	10	70	50	30	10	50	30	10	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					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39					39			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9400	9400	9400
5°	9400	9333	9348
10°	9268	9237	9248
15°	9109	9098	9104
20°	8926	9002	8997
25°	8716	8886	8914
30°	8504	8753	8824
35°	8294	8564	8602
40°	8011	8373	8366
45°	7719	8082	8162
50°	7428	7811	7916
55°	7114	7536	7580
60°	6815	7267	7216
65°	6457	6822	6688
70°	5950	6266	5980
75°	5262	5480	4786
80°	4232	4291	3344
85°	2773	2652	1945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.3	3.7
10°-20°	923.2	10.3
20°-30°	1374.5	15.3
30°-40°	1617.9	18.0
40°-50°	1622.1	18.1
50°-60°	1422.5	15.9
60°-70°	1040.1	11.6
70°-80°	536.0	6.0
80°-90°	107.6	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°	2626.1	29.3
0°-40°	4243.9	47.3
0°-60°	7288.6	81.2
0°-90°	8972.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8972.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3493	3493	3493	3493	3493	
5°	3480	3457	3455	3478	3461	329
15°	3270	3275	3266	3287	3268	920
25°	2935	2949	2993	3035	3002	1352
35°	2525	2536	2607	2636	2618	1572
45°	2028	2038	2124	2150	2145	1563
55°	1516	1551	1606	1629	1616	1361
65°	1014	1037	1071	1068	1050	1003
75°	506	510	527	491	460	536
85°	90	88	86	69	63	117
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3493.1	3493.1	3493.1	3493.1	3493.1
2.5°	3510.3	3493.1	3470.2	3489.3	3485.5
5°	3479.7	3456.8	3454.9	3477.8	3460.7
7.5°	3441.6	3437.7	3414.8	3439.6	3430.1
10°	3391.9	3388.1	3380.4	3397.6	3384.3
12.5°	3332.7	3328.9	3332.7	3342.2	3332.7
15°	3269.7	3275.4	3265.8	3286.9	3267.8
17.5°	3185.6	3191.4	3210.5	3218.1	3216.2
20°	3116.9	3120.7	3143.6	3174.2	3141.7
22.5°	3027.1	3036.7	3048.1	3103.5	3095.9
25°	2935.4	2948.8	2992.7	3034.8	3002.3
27.5°	2839.9	2853.3	2906.8	2937.4	2933.5
30°	2736.8	2750.2	2817.0	2859.0	2839.9
32.5°	2629.9	2652.8	2725.4	2761.6	2725.4
35°	2524.8	2536.3	2606.9	2635.6	2618.4
37.5°	2385.4	2429.3	2500.0	2519.1	2488.5
40°	2280.4	2282.3	2383.5	2383.5	2381.6
42.5°	2144.8	2175.3	2242.2	2278.5	2259.4
45°	2028.3	2037.8	2123.8	2150.5	2144.8
47.5°	1900.3	1938.5	2001.5	2032.1	2016.8
50°	1774.3	1801.0	1865.9	1906.0	1890.8
52.5°	1657.8	1678.8	1745.6	1768.5	1753.2
55°	1516.4	1550.8	1606.2	1629.1	1615.7
57.5°	1394.2	1419.0	1487.8	1495.4	1487.8
60°	1266.2	1294.9	1350.3	1356.0	1340.7
62.5°	1144.0	1163.1	1212.8	1214.7	1197.5
65°	1014.1	1037.0	1071.4	1067.6	1050.4
67.5°	886.2	901.4	933.9	920.5	901.4
70°	756.3	769.7	796.4	777.3	760.1
72.5°	630.3	639.8	662.7	634.1	613.1
75°	506.1	509.9	527.1	490.8	460.3
77.5°	383.9	387.7	397.2	361.0	326.6
80°	273.1	273.1	276.9	238.7	215.8
82.5°	171.9	171.9	170.0	141.3	128.0
85°	89.8	87.9	85.9	68.8	63.0
87.5°	32.5	32.5	26.7	24.8	26.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)