

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: P485157

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-2STD-50-120-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: P485157
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
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

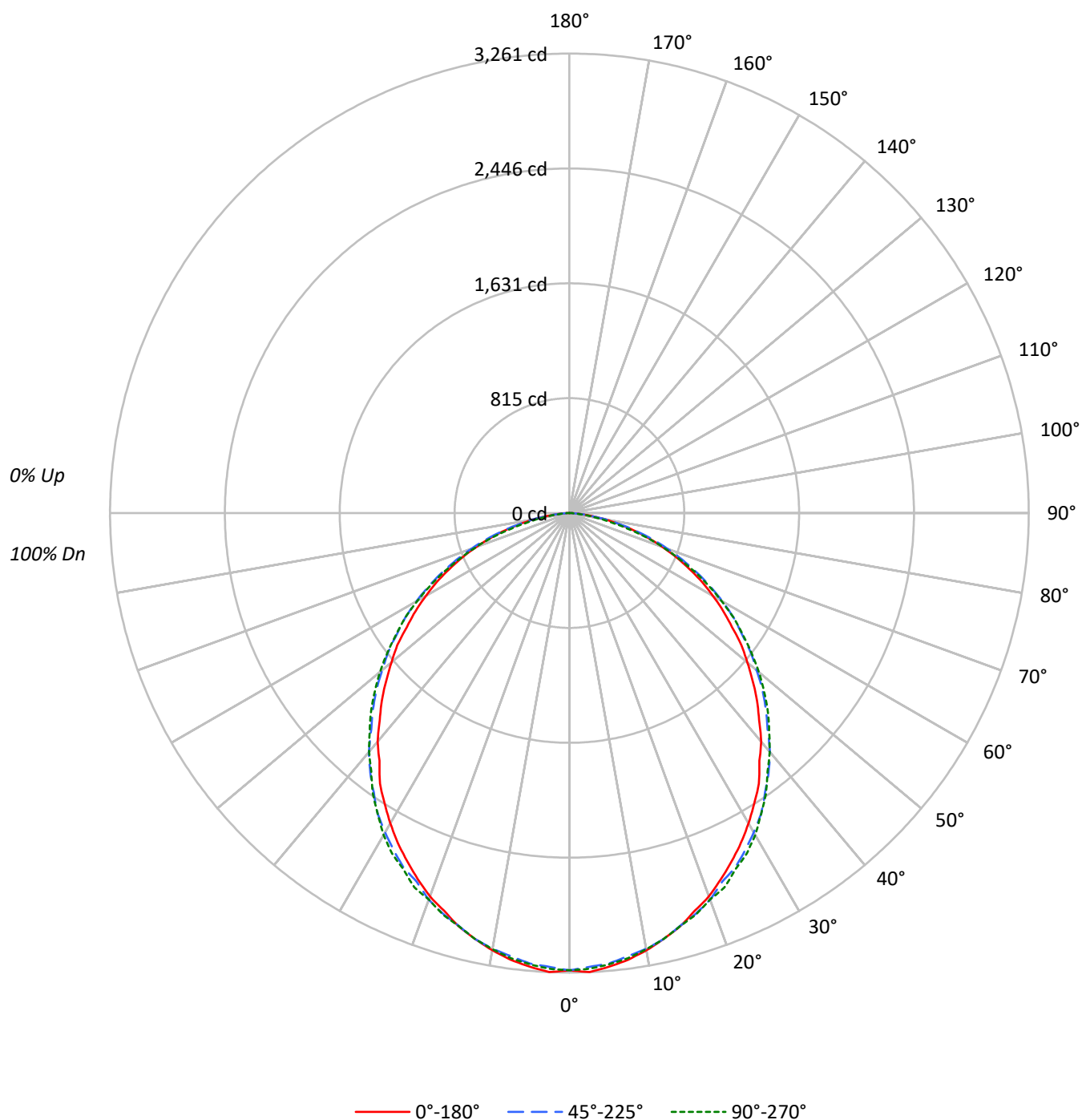
Lumens per Lamp: N/A
Luminaire Lumens: 8334.3 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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					0
RW	70	50	30	10	70	50	30	10	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	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°	8731	8731	8731
5°	8731	8669	8683
10°	8609	8580	8590
15°	8461	8451	8456
20°	8291	8362	8357
25°	8096	8254	8280
30°	7899	8131	8197
35°	7704	7955	7990
40°	7441	7777	7771
45°	7170	7507	7582
50°	6900	7256	7353
55°	6609	7000	7041
60°	6330	6751	6703
65°	5998	6337	6213
70°	5527	5821	5556
75°	4888	5090	4445
80°	3932	3986	3107
85°	2575	2464	1806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.0	3.7
10°-20°	857.6	10.3
20°-30°	1276.8	15.3
30°-40°	1502.8	18.0
40°-50°	1506.8	18.1
50°-60°	1321.3	15.9
60°-70°	966.2	11.6
70°-80°	497.9	6.0
80°-90°	99.9	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°	2439.3	29.3
0°-40°	3942.2	47.3
0°-60°	6770.3	81.2
0°-90°	8334.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8334.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3245	3245	3245	3245	3245	
5°	3232	3211	3209	3230	3215	306
15°	3037	3042	3034	3053	3035	855
25°	2727	2739	2780	2819	2789	1256
35°	2345	2356	2422	2448	2432	1461
45°	1884	1893	1973	1998	1992	1452
55°	1409	1440	1492	1513	1501	1264
65°	942	963	995	992	976	932
75°	470	474	490	456	428	498
85°	83	82	80	64	58	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3244.7	3244.7	3244.7	3244.7	3244.7
2.5°	3260.7	3244.7	3223.4	3241.2	3237.6
5°	3232.3	3211.0	3209.2	3230.5	3214.6
7.5°	3196.8	3193.3	3172.0	3195.1	3186.2
10°	3150.7	3147.2	3140.1	3156.0	3143.6
12.5°	3095.7	3092.2	3095.7	3104.6	3095.7
15°	3037.2	3042.5	3033.6	3053.1	3035.4
17.5°	2959.1	2964.4	2982.2	2989.3	2987.5
20°	2895.2	2898.8	2920.1	2948.5	2918.3
22.5°	2811.9	2820.7	2831.4	2882.8	2875.7
25°	2726.7	2739.1	2779.9	2819.0	2788.8
27.5°	2638.0	2650.4	2700.1	2728.5	2724.9
30°	2542.2	2554.6	2616.7	2655.7	2638.0
32.5°	2442.9	2464.1	2531.6	2565.3	2531.6
35°	2345.3	2355.9	2421.6	2448.2	2432.2
37.5°	2215.8	2256.6	2322.2	2340.0	2311.6
40°	2118.2	2120.0	2214.0	2214.0	2212.2
42.5°	1992.3	2020.6	2082.7	2116.4	2098.7
45°	1884.0	1892.9	1972.7	1997.6	1992.3
47.5°	1765.2	1800.7	1859.2	1887.6	1873.4
50°	1648.1	1672.9	1733.2	1770.5	1756.3
52.5°	1539.9	1559.4	1621.5	1642.8	1628.6
55°	1408.6	1440.5	1492.0	1513.3	1500.8
57.5°	1295.1	1318.1	1382.0	1389.1	1382.0
60°	1176.2	1202.8	1254.3	1259.6	1245.4
62.5°	1062.7	1080.4	1126.5	1128.3	1112.3
65°	942.0	963.3	995.2	991.7	975.7
67.5°	823.2	837.3	867.5	855.1	837.3
70°	702.5	714.9	739.8	722.0	706.1
72.5°	585.4	594.3	615.6	589.0	569.5
75°	470.1	473.7	489.6	455.9	427.5
77.5°	356.6	360.1	369.0	335.3	303.4
80°	253.7	253.7	257.2	221.8	200.5
82.5°	159.7	159.7	157.9	131.3	118.9
85°	83.4	81.6	79.8	63.9	58.5
87.5°	30.2	30.2	24.8	23.1	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)