

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: P485108

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-1LO-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: P485108
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-LD4-1LO-50-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

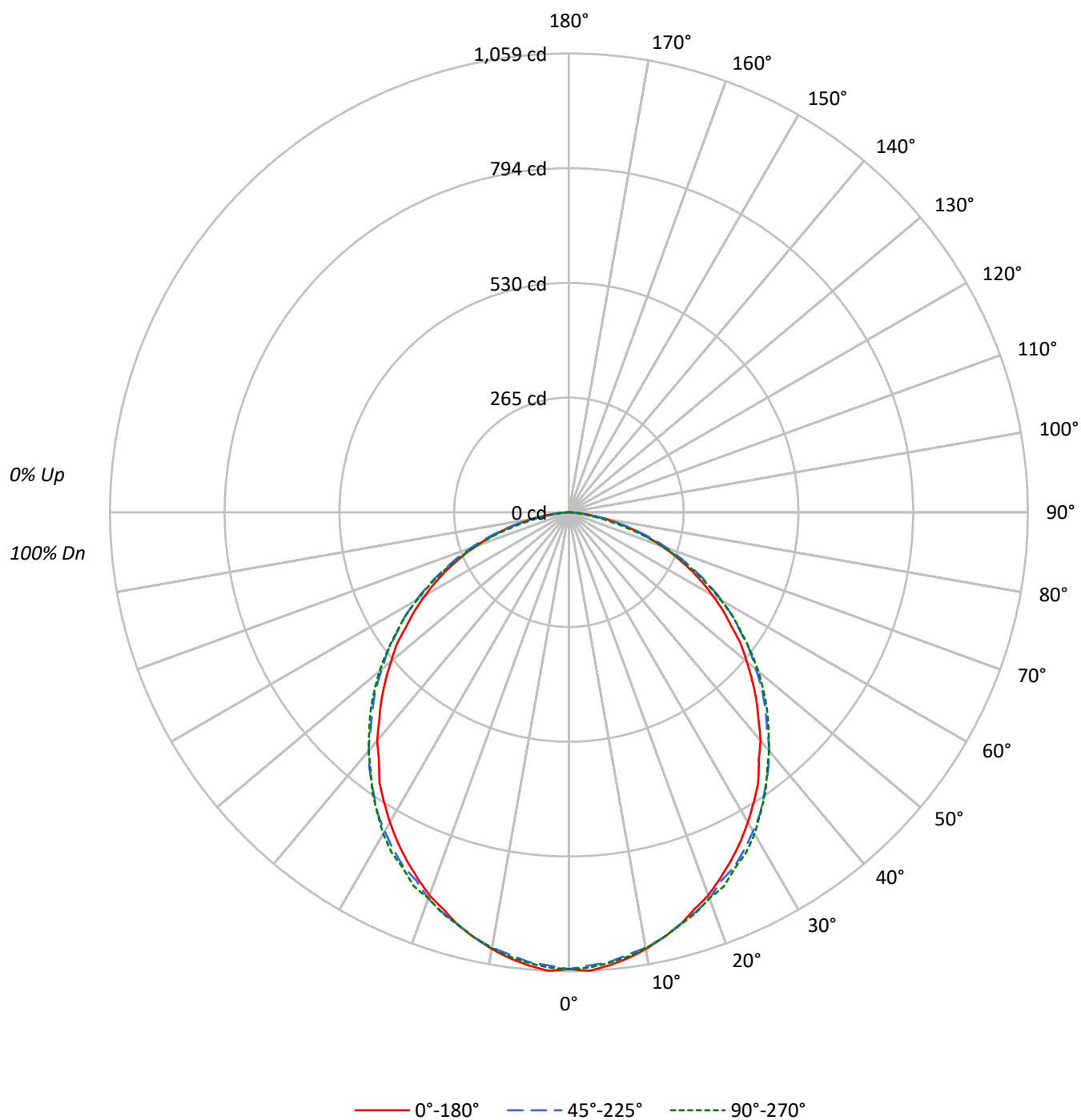
Lumens per Lamp: N/A
Luminaire Lumens: 2707.2 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	2836	2836	2836
5°	2836	2816	2821
10°	2796	2787	2790
15°	2749	2745	2747
20°	2693	2716	2714
25°	2630	2681	2690
30°	2566	2641	2663
35°	2503	2584	2595
40°	2417	2526	2524
45°	2329	2439	2463
50°	2241	2357	2388
55°	2146	2274	2287
60°	2056	2193	2177
65°	1948	2059	2018
70°	1795	1891	1805
75°	1588	1653	1444
80°	1277	1296	1009
85°	837	800	587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.1	3.7
10°-20°	278.6	10.3
20°-30°	414.7	15.3
30°-40°	488.2	18.0
40°-50°	489.4	18.1
50°-60°	429.2	15.9
60°-70°	313.8	11.6
70°-80°	161.7	6.0
80°-90°	32.5	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°	792.4	29.3
0°-40°	1280.5	47.3
0°-60°	2199.2	81.2
0°-90°	2707.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2707.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1050	1043	1042	1049	1044	99
15°	987	988	985	992	986	278
25°	886	890	903	916	906	408
35°	762	765	787	795	790	474
45°	612	615	641	649	647	472
55°	458	468	485	492	488	411
65°	306	313	323	322	317	303
75°	153	154	159	148	139	162
85°	27	26	26	21	19	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1054.0	1054.0	1054.0	1054.0	1054.0
2.5°	1059.2	1054.0	1047.1	1052.8	1051.7
5°	1049.9	1043.0	1042.4	1049.4	1044.2
7.5°	1038.4	1037.3	1030.3	1037.8	1035.0
10°	1023.4	1022.3	1020.0	1025.2	1021.1
12.5°	1005.6	1004.4	1005.6	1008.4	1005.6
15°	986.6	988.3	985.4	991.7	986.0
17.5°	961.2	962.9	968.7	971.0	970.4
20°	940.5	941.6	948.5	957.7	947.9
22.5°	913.4	916.2	919.7	936.4	934.1
25°	885.7	889.7	903.0	915.7	905.9
27.5°	856.9	860.9	877.1	886.3	885.1
30°	825.8	829.8	850.0	862.7	856.9
32.5°	793.5	800.4	822.3	833.3	822.3
35°	761.8	765.3	786.6	795.2	790.0
37.5°	719.7	733.0	754.3	760.1	750.9
40°	688.1	688.6	719.2	719.2	718.6
42.5°	647.1	656.4	676.5	687.5	681.7
45°	612.0	614.9	640.8	648.9	647.1
47.5°	573.4	584.9	603.9	613.1	608.5
50°	535.3	543.4	563.0	575.1	570.5
52.5°	500.2	506.5	526.7	533.6	529.0
55°	457.5	467.9	484.6	491.5	487.5
57.5°	420.7	428.2	448.9	451.2	448.9
60°	382.1	390.7	407.4	409.1	404.5
62.5°	345.2	350.9	365.9	366.5	361.3
65°	306.0	312.9	323.3	322.1	316.9
67.5°	267.4	272.0	281.8	277.8	272.0
70°	228.2	232.2	240.3	234.5	229.4
72.5°	190.2	193.0	200.0	191.3	185.0
75°	152.7	153.9	159.0	148.1	138.9
77.5°	115.8	117.0	119.9	108.9	98.5
80°	82.4	82.4	83.6	72.0	65.1
82.5°	51.9	51.9	51.3	42.6	38.6
85°	27.1	26.5	25.9	20.7	19.0
87.5°	9.8	9.8	8.1	7.5	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)