

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: P485103

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-1LO-30-120-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: P485103
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-30-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

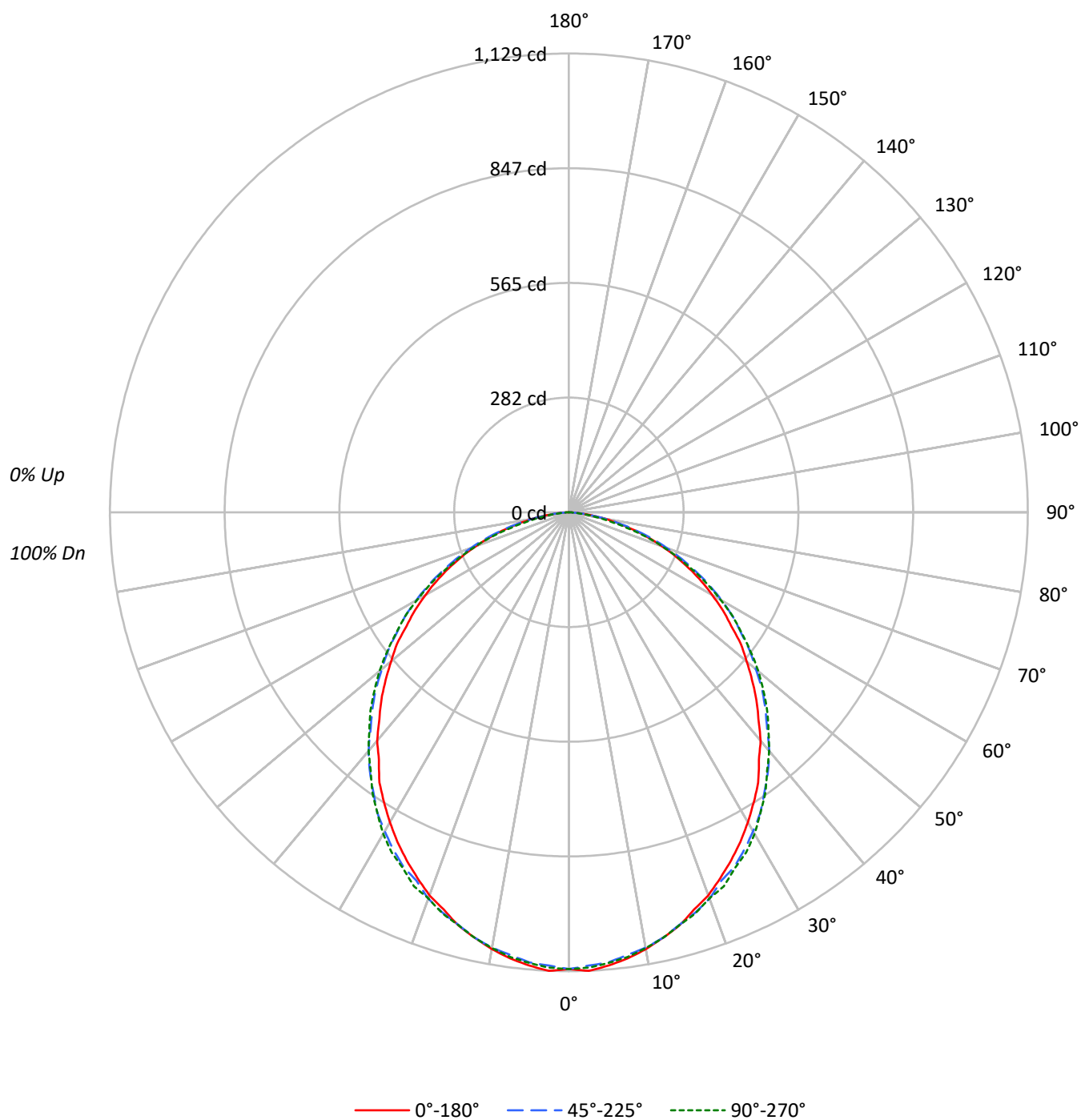
Lumens per Lamp: N/A
Luminaire Lumens: 2886.4 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	3024	3024	3024
5°	3024	3002	3007
10°	2982	2972	2975
15°	2930	2927	2929
20°	2871	2896	2894
25°	2804	2859	2868
30°	2736	2816	2839
35°	2668	2755	2767
40°	2577	2694	2692
45°	2483	2600	2626
50°	2390	2513	2547
55°	2289	2424	2439
60°	2192	2338	2321
65°	2077	2195	2152
70°	1914	2016	1924
75°	1693	1763	1540
80°	1362	1381	1075
85°	892	852	627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.6	3.7
10°-20°	297.0	10.3
20°-30°	442.2	15.3
30°-40°	520.5	18.0
40°-50°	521.8	18.1
50°-60°	457.6	15.9
60°-70°	334.6	11.6
70°-80°	172.4	6.0
80°-90°	34.6	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°	844.8	29.3
0°-40°	1365.3	47.3
0°-60°	2344.7	81.2
0°-90°	2886.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2886.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1124	1124	1124	1124	1124	
5°	1119	1112	1112	1119	1113	106
15°	1052	1054	1051	1057	1051	296
25°	944	949	963	976	966	435
35°	812	816	839	848	842	506
45°	652	656	683	692	690	503
55°	488	499	517	524	520	438
65°	326	334	345	344	338	323
75°	163	164	170	158	148	173
85°	29	28	28	22	20	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1123.7	1123.7	1123.7	1123.7	1123.7
2.5°	1129.3	1123.7	1116.4	1122.5	1121.3
5°	1119.4	1112.1	1111.5	1118.8	1113.3
7.5°	1107.2	1105.9	1098.5	1106.5	1103.5
10°	1091.2	1089.9	1087.5	1093.0	1088.7
12.5°	1072.1	1070.9	1072.1	1075.2	1072.1
15°	1051.9	1053.7	1050.6	1057.4	1051.2
17.5°	1024.8	1026.7	1032.8	1035.3	1034.7
20°	1002.7	1003.9	1011.3	1021.1	1010.7
22.5°	973.8	976.9	980.6	998.4	995.9
25°	944.3	948.6	962.8	976.3	965.8
27.5°	913.6	917.9	935.1	944.9	943.7
30°	880.4	884.7	906.2	919.8	913.6
32.5°	846.0	853.4	876.8	888.4	876.8
35°	812.2	815.9	838.7	847.9	842.3
37.5°	767.4	781.5	804.3	810.4	800.6
40°	733.6	734.2	766.8	766.8	766.2
42.5°	690.0	699.8	721.3	733.0	726.8
45°	652.5	655.6	683.2	691.8	690.0
47.5°	611.3	623.6	643.9	653.7	648.8
50°	570.8	579.4	600.3	613.2	608.3
52.5°	533.3	540.1	561.6	568.9	564.0
55°	487.8	498.9	516.7	524.1	519.8
57.5°	448.5	456.5	478.6	481.1	478.6
60°	407.3	416.6	434.4	436.2	431.3
62.5°	368.0	374.2	390.1	390.8	385.2
65°	326.2	333.6	344.7	343.5	337.9
67.5°	285.1	290.0	300.4	296.1	290.0
70°	243.3	247.6	256.2	250.1	244.5
72.5°	202.8	205.8	213.2	204.0	197.2
75°	162.8	164.0	169.6	157.9	148.1
77.5°	123.5	124.7	127.8	116.1	105.1
80°	87.9	87.9	89.1	76.8	69.4
82.5°	55.3	55.3	54.7	45.5	41.2
85°	28.9	28.3	27.6	22.1	20.3
87.5°	10.4	10.4	8.6	8.0	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)