

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: P485859

Luminaire Tested: **ORLG-24-2-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: P485859
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-24-2-INS-A125-LD4-1LO-30-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

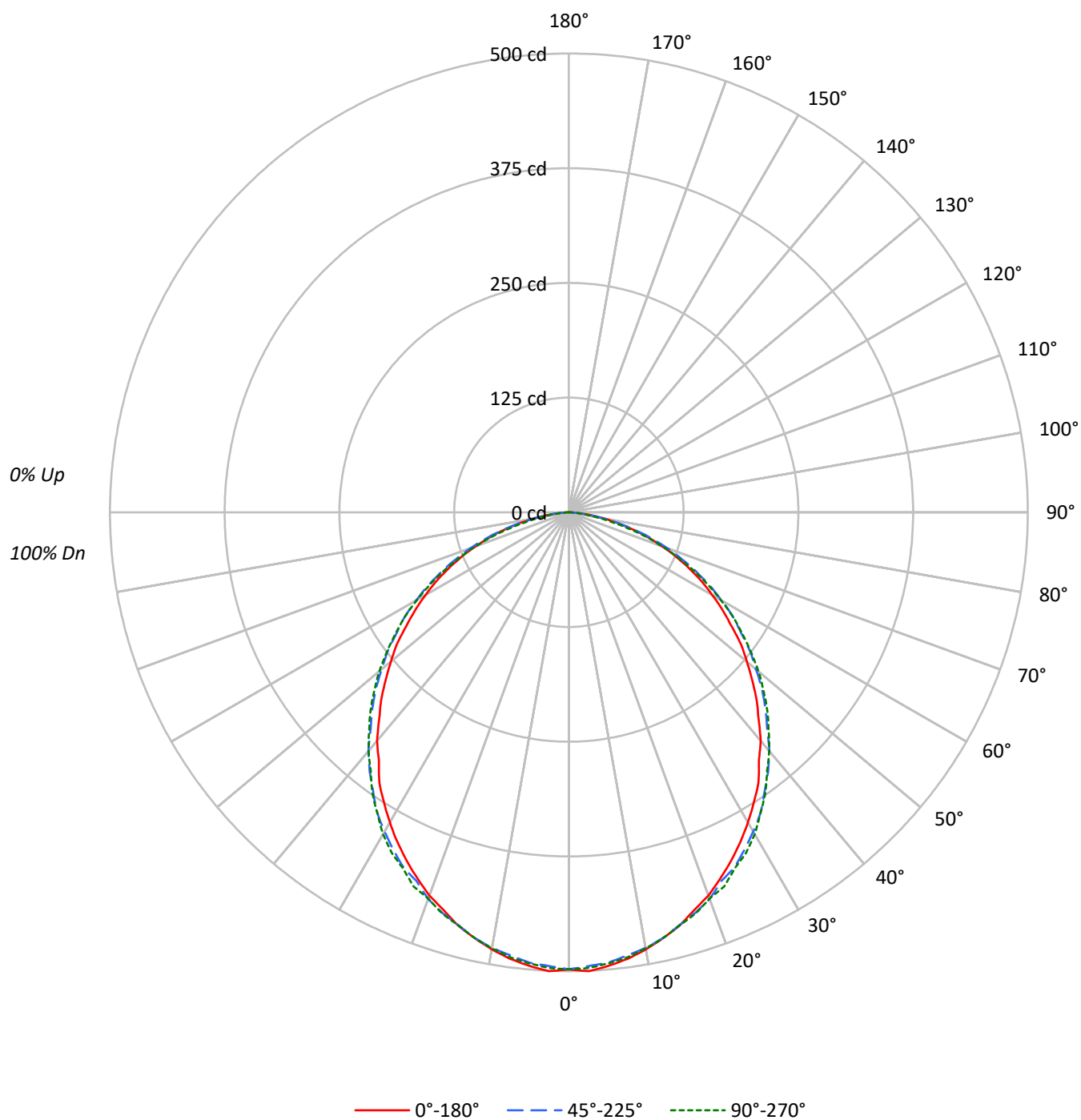
Lumens per Lamp: N/A
Luminaire Lumens: 1279.2 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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	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°	1340	1340	1340
5°	1340	1331	1333
10°	1321	1317	1318
15°	1299	1297	1298
20°	1273	1284	1283
25°	1243	1267	1271
30°	1212	1248	1258
35°	1183	1221	1226
40°	1142	1194	1193
45°	1101	1152	1164
50°	1059	1114	1129
55°	1014	1074	1081
60°	971	1036	1028
65°	921	973	954
70°	848	893	853
75°	751	782	682
80°	603	612	477
85°	395	380	278



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.8	3.7
10°-20°	131.6	10.3
20°-30°	196.0	15.3
30°-40°	230.7	18.0
40°-50°	231.3	18.1
50°-60°	202.8	15.9
60°-70°	148.3	11.6
70°-80°	76.4	6.0
80°-90°	15.3	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°	374.4	29.3
0°-40°	605.1	47.3
0°-60°	1039.1	81.2
0°-90°	1279.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1279.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	498	498	498	498	498	
5°	496	493	493	496	493	47
15°	466	467	466	469	466	131
25°	418	420	427	433	428	193
35°	360	362	372	376	373	224
45°	289	290	303	307	306	223
55°	216	221	229	232	230	194
65°	145	148	153	152	150	143
75°	72	73	75	70	66	76
85°	13	12	12	10	9	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	498.0	498.0	498.0	498.0	498.0
2.5°	500.5	498.0	494.8	497.5	496.9
5°	496.1	492.8	492.6	495.8	493.4
7.5°	490.7	490.1	486.9	490.4	489.0
10°	483.6	483.0	482.0	484.4	482.5
12.5°	475.1	474.6	475.1	476.5	475.1
15°	466.2	467.0	465.6	468.6	465.9
17.5°	454.2	455.0	457.7	458.8	458.5
20°	444.4	444.9	448.2	452.5	447.9
22.5°	431.6	432.9	434.6	442.5	441.4
25°	418.5	420.4	426.7	432.7	428.0
27.5°	404.9	406.8	414.4	418.8	418.2
30°	390.2	392.1	401.6	407.6	404.9
32.5°	374.9	378.2	388.6	393.7	388.6
35°	360.0	361.6	371.7	375.8	373.3
37.5°	340.1	346.4	356.4	359.2	354.8
40°	325.1	325.4	339.8	339.8	339.5
42.5°	305.8	310.1	319.7	324.8	322.1
45°	289.2	290.5	302.8	306.6	305.8
47.5°	270.9	276.4	285.4	289.7	287.5
50°	253.0	256.8	266.0	271.7	269.6
52.5°	236.3	239.3	248.9	252.1	250.0
55°	216.2	221.1	229.0	232.3	230.4
57.5°	198.8	202.3	212.1	213.2	212.1
60°	180.5	184.6	192.5	193.3	191.1
62.5°	163.1	165.8	172.9	173.2	170.7
65°	144.6	147.9	152.8	152.2	149.8
67.5°	126.3	128.5	133.2	131.2	128.5
70°	107.8	109.7	113.5	110.8	108.4
72.5°	89.9	91.2	94.5	90.4	87.4
75°	72.2	72.7	75.2	70.0	65.6
77.5°	54.7	55.3	56.6	51.5	46.6
80°	38.9	38.9	39.5	34.0	30.8
82.5°	24.5	24.5	24.2	20.1	18.2
85°	12.8	12.5	12.3	9.8	9.0
87.5°	4.6	4.6	3.8	3.5	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)