

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: P485842

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-1HI-20-120-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: P485842
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-LD4-1HI-20-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

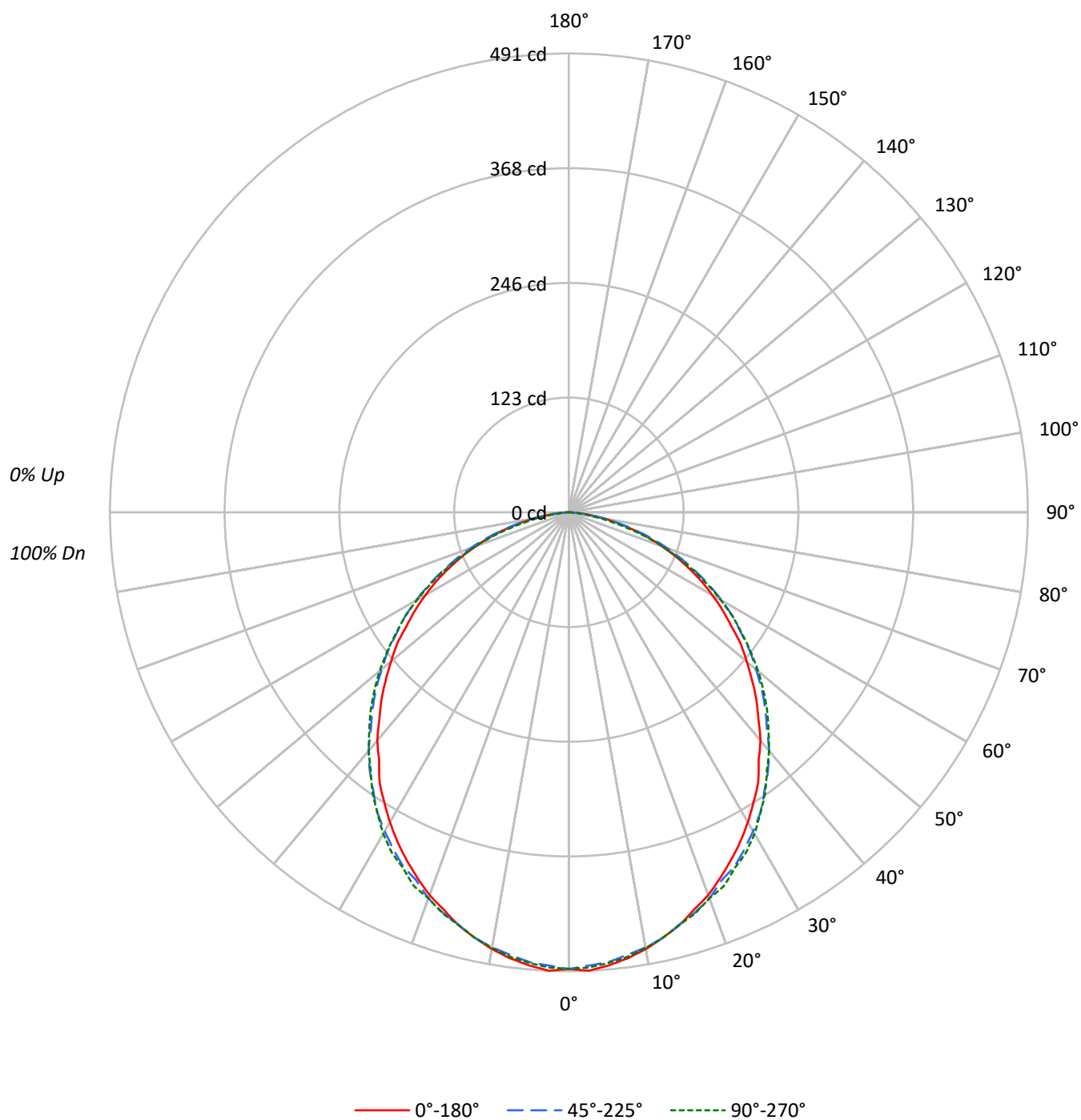
Lumens per Lamp: N/A
Luminaire Lumens: 1254.9 lumens
Efficiency: N/A
Efficacy: 57.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 22
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°	1315	1315	1315
5°	1315	1305	1307
10°	1296	1292	1293
15°	1274	1273	1273
20°	1248	1259	1258
25°	1219	1243	1247
30°	1189	1224	1234
35°	1160	1198	1203
40°	1120	1171	1170
45°	1080	1130	1142
50°	1039	1093	1107
55°	995	1054	1060
60°	953	1017	1009
65°	903	954	935
70°	832	876	836
75°	736	766	670
80°	592	600	468
85°	389	371	272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.9	3.7
10°-20°	129.1	10.3
20°-30°	192.2	15.3
30°-40°	226.3	18.0
40°-50°	226.9	18.1
50°-60°	199.0	15.9
60°-70°	145.5	11.6
70°-80°	75.0	6.0
80°-90°	15.0	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°	367.3	29.3
0°-40°	593.6	47.3
0°-60°	1019.4	81.2
0°-90°	1254.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1254.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	489	489	489	489	489	
5°	487	484	483	486	484	46
15°	457	458	457	460	457	129
25°	411	412	419	424	420	189
35°	353	355	365	369	366	220
45°	284	285	297	301	300	219
55°	212	217	225	228	226	190
65°	142	145	150	149	147	140
75°	71	71	74	69	64	75
85°	13	12	12	10	9	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	488.6	488.6	488.6	488.6	488.6
2.5°	491.0	488.6	485.4	488.0	487.5
5°	486.7	483.5	483.2	486.4	484.0
7.5°	481.3	480.8	477.6	481.1	479.7
10°	474.4	473.9	472.8	475.2	473.3
12.5°	466.1	465.6	466.1	467.5	466.1
15°	457.3	458.1	456.8	459.7	457.0
17.5°	445.6	446.4	449.0	450.1	449.8
20°	435.9	436.5	439.7	444.0	439.4
22.5°	423.4	424.7	426.3	434.1	433.0
25°	410.6	412.4	418.6	424.5	419.9
27.5°	397.2	399.1	406.6	410.8	410.3
30°	382.8	384.7	394.0	399.9	397.2
32.5°	367.8	371.0	381.2	386.3	381.2
35°	353.1	354.7	364.6	368.6	366.2
37.5°	333.6	339.8	349.7	352.3	348.1
40°	318.9	319.2	333.4	333.4	333.1
42.5°	300.0	304.2	313.6	318.7	316.0
45°	283.7	285.0	297.0	300.8	300.0
47.5°	265.8	271.1	279.9	284.2	282.1
50°	248.2	251.9	261.0	266.6	264.4
52.5°	231.9	234.8	244.1	247.4	245.2
55°	212.1	216.9	224.6	227.9	226.0
57.5°	195.0	198.5	208.1	209.2	208.1
60°	177.1	181.1	188.9	189.7	187.5
62.5°	160.0	162.7	169.6	169.9	167.5
65°	141.8	145.0	149.9	149.3	146.9
67.5°	123.9	126.1	130.6	128.8	126.1
70°	105.8	107.6	111.4	108.7	106.3
72.5°	88.1	89.5	92.7	88.7	85.7
75°	70.8	71.3	73.7	68.6	64.4
77.5°	53.7	54.2	55.6	50.5	45.7
80°	38.2	38.2	38.7	33.4	30.2
82.5°	24.0	24.0	23.8	19.8	17.9
85°	12.6	12.3	12.0	9.6	8.8
87.5°	4.5	4.5	3.7	3.5	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)