

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: P485912

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-2STD-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: P485912
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-LD4-2STD-50-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

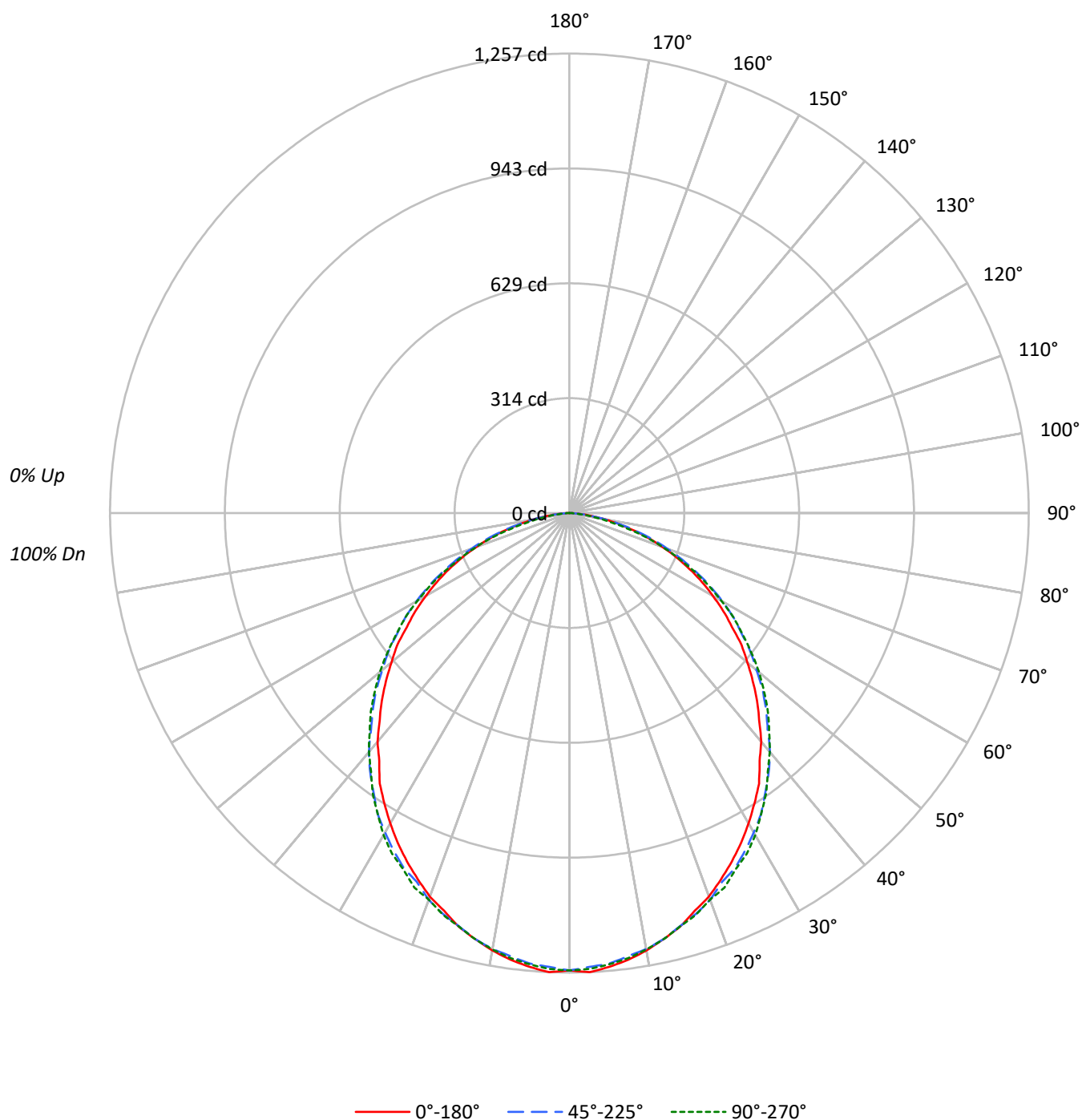
Lumens per Lamp: N/A
Luminaire Lumens: 3213.5 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	3367	3367	3367
5°	3367	3343	3348
10°	3319	3308	3312
15°	3263	3259	3261
20°	3197	3224	3222
25°	3122	3183	3193
30°	3046	3135	3160
35°	2971	3067	3081
40°	2869	2999	2996
45°	2764	2895	2923
50°	2660	2798	2835
55°	2548	2699	2715
60°	2441	2603	2584
65°	2313	2443	2395
70°	2131	2244	2142
75°	1885	1963	1714
80°	1516	1537	1198
85°	991	951	698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.6	3.7
10°-20°	330.7	10.3
20°-30°	492.3	15.3
30°-40°	579.5	18.0
40°-50°	581.0	18.1
50°-60°	509.5	15.9
60°-70°	372.5	11.6
70°-80°	192.0	6.0
80°-90°	38.5	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°	940.5	29.3
0°-40°	1520.0	47.3
0°-60°	2610.5	81.2
0°-90°	3213.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3213.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1251	1251	1251	1251	1251	
5°	1246	1238	1237	1246	1240	118
15°	1171	1173	1170	1177	1170	330
25°	1051	1056	1072	1087	1075	484
35°	904	908	934	944	938	563
45°	726	730	761	770	768	560
55°	543	555	575	584	579	488
65°	363	371	384	382	376	359
75°	181	183	189	176	165	192
85°	32	32	31	25	23	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1251.1	1251.1	1251.1	1251.1	1251.1
2.5°	1257.2	1251.1	1242.9	1249.7	1248.4
5°	1246.3	1238.1	1237.4	1245.6	1239.5
7.5°	1232.6	1231.3	1223.0	1231.9	1228.5
10°	1214.8	1213.5	1210.7	1216.9	1212.1
12.5°	1193.6	1192.3	1193.6	1197.0	1193.6
15°	1171.1	1173.1	1169.7	1177.2	1170.4
17.5°	1141.0	1143.0	1149.9	1152.6	1151.9
20°	1116.3	1117.7	1125.9	1136.9	1125.2
22.5°	1084.2	1087.6	1091.7	1111.5	1108.8
25°	1051.4	1056.1	1071.9	1086.9	1075.3
27.5°	1017.1	1021.9	1041.1	1052.0	1050.7
30°	980.2	985.0	1008.9	1024.0	1017.1
32.5°	941.9	950.1	976.1	989.1	976.1
35°	904.3	908.4	933.7	944.0	937.8
37.5°	854.4	870.1	895.4	902.2	891.3
40°	816.7	817.4	853.7	853.7	853.0
42.5°	768.2	779.1	803.0	816.0	809.2
45°	726.4	729.9	760.6	770.2	768.2
47.5°	680.6	694.3	716.9	727.8	722.3
50°	635.5	645.0	668.3	682.7	677.2
52.5°	593.7	601.3	625.2	633.4	627.9
55°	543.1	555.4	575.3	583.5	578.7
57.5°	499.3	508.2	532.9	535.6	532.9
60°	453.5	463.8	483.6	485.7	480.2
62.5°	409.7	416.6	434.4	435.0	428.9
65°	363.2	371.4	383.7	382.4	376.2
67.5°	317.4	322.9	334.5	329.7	322.9
70°	270.9	275.7	285.2	278.4	272.2
72.5°	225.7	229.1	237.4	227.1	219.6
75°	181.3	182.6	188.8	175.8	164.9
77.5°	137.5	138.9	142.3	129.3	117.0
80°	97.8	97.8	99.2	85.5	77.3
82.5°	61.6	61.6	60.9	50.6	45.8
85°	32.1	31.5	30.8	24.6	22.6
87.5°	11.6	11.6	9.6	8.9	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)