

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: P485866

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-1STD-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: P485866
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-LD4-1STD-20-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

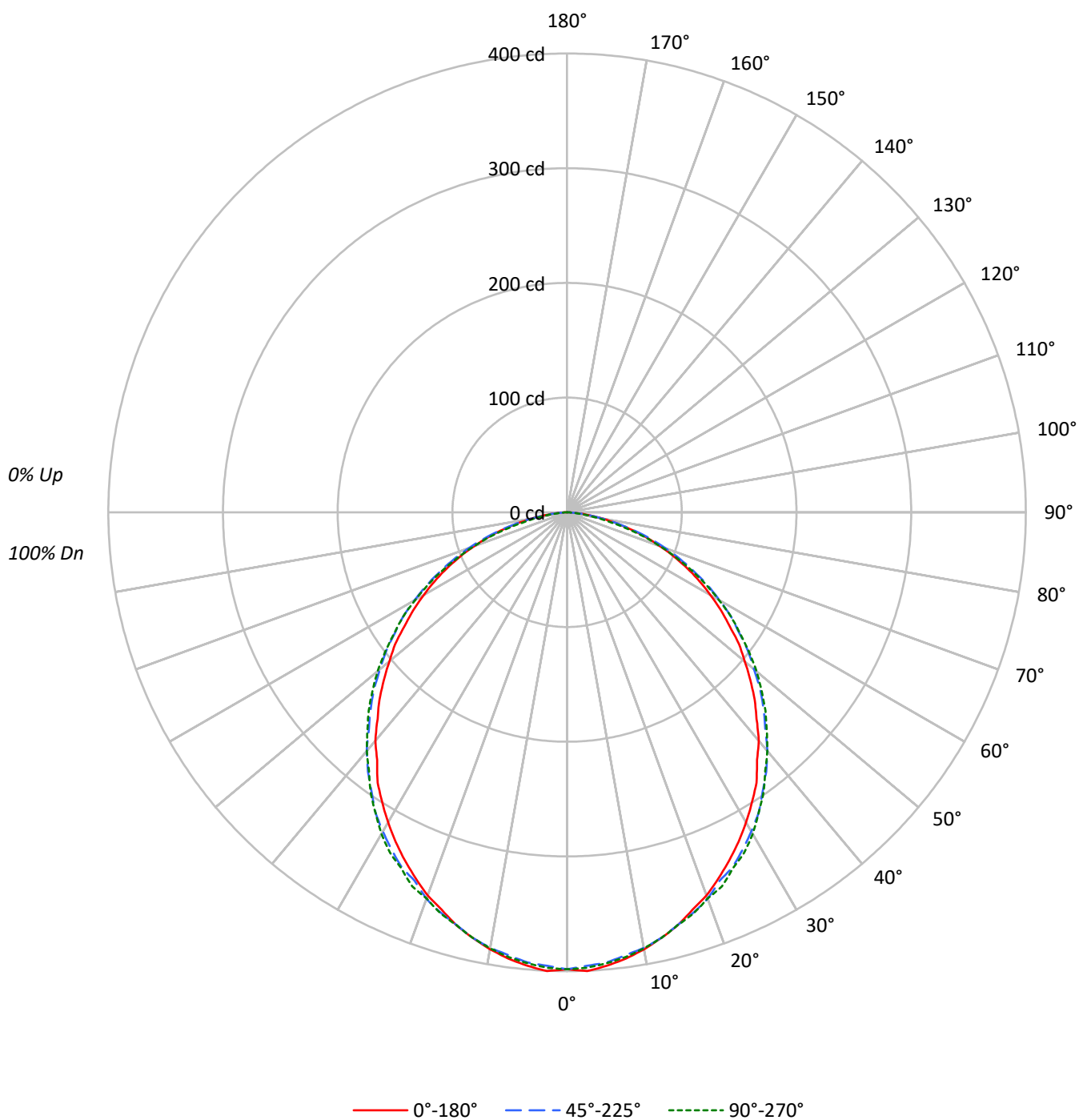
Lumens per Lamp: N/A
Luminaire Lumens: 1023.1 lumens
Efficiency: N/A
Efficacy: 61.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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°	1072	1072	1072
5°	1072	1064	1066
10°	1057	1053	1054
15°	1039	1037	1038
20°	1018	1027	1026
25°	994	1013	1016
30°	970	998	1006
35°	946	977	981
40°	913	955	954
45°	880	922	931
50°	847	891	903
55°	811	859	864
60°	777	829	823
65°	736	778	763
70°	678	714	682
75°	600	625	546
80°	482	490	381
85°	315	303	222



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.4	3.7
10°-20°	105.3	10.3
20°-30°	156.7	15.3
30°-40°	184.5	18.0
40°-50°	185.0	18.1
50°-60°	162.2	15.9
60°-70°	118.6	11.6
70°-80°	61.1	6.0
80°-90°	12.2	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°	299.4	29.3
0°-40°	483.9	47.3
0°-60°	831.1	81.2
0°-90°	1023.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1023.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	398	398	398	398	398	
5°	397	394	394	397	395	38
15°	373	374	372	375	373	105
25°	335	336	341	346	342	154
35°	288	289	297	300	299	179
45°	231	232	242	245	245	178
55°	173	177	183	186	184	155
65°	116	118	122	122	120	114
75°	58	58	60	56	52	61
85°	10	10	10	8	7	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	398.3	398.3	398.3	398.3	398.3
2.5°	400.3	398.3	395.7	397.9	397.4
5°	396.8	394.2	394.0	396.6	394.6
7.5°	392.4	392.0	389.4	392.2	391.1
10°	386.8	386.3	385.5	387.4	385.9
12.5°	380.0	379.6	380.0	381.1	380.0
15°	372.8	373.5	372.4	374.8	372.6
17.5°	363.3	363.9	366.1	367.0	366.7
20°	355.4	355.8	358.5	361.9	358.2
22.5°	345.2	346.3	347.6	353.9	353.0
25°	334.7	336.2	341.3	346.0	342.3
27.5°	323.8	325.4	331.5	334.9	334.5
30°	312.1	313.6	321.2	326.0	323.8
32.5°	299.9	302.5	310.8	314.9	310.8
35°	287.9	289.2	297.3	300.5	298.6
37.5°	272.0	277.0	285.1	287.2	283.8
40°	260.0	260.2	271.8	271.8	271.6
42.5°	244.6	248.0	255.7	259.8	257.6
45°	231.3	232.4	242.2	245.2	244.6
47.5°	216.7	221.0	228.2	231.7	230.0
50°	202.3	205.4	212.8	217.3	215.6
52.5°	189.0	191.4	199.0	201.7	199.9
55°	172.9	176.8	183.2	185.8	184.2
57.5°	159.0	161.8	169.6	170.5	169.6
60°	144.4	147.7	154.0	154.6	152.9
62.5°	130.4	132.6	138.3	138.5	136.5
65°	115.6	118.3	122.2	121.7	119.8
67.5°	101.0	102.8	106.5	105.0	102.8
70°	86.2	87.8	90.8	88.6	86.7
72.5°	71.9	73.0	75.6	72.3	69.9
75°	57.7	58.1	60.1	56.0	52.5
77.5°	43.8	44.2	45.3	41.2	37.2
80°	31.1	31.1	31.6	27.2	24.6
82.5°	19.6	19.6	19.4	16.1	14.6
85°	10.2	10.0	9.8	7.8	7.2
87.5°	3.7	3.7	3.0	2.8	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)