

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: P485854

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-1LO-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: P485854
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-20-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

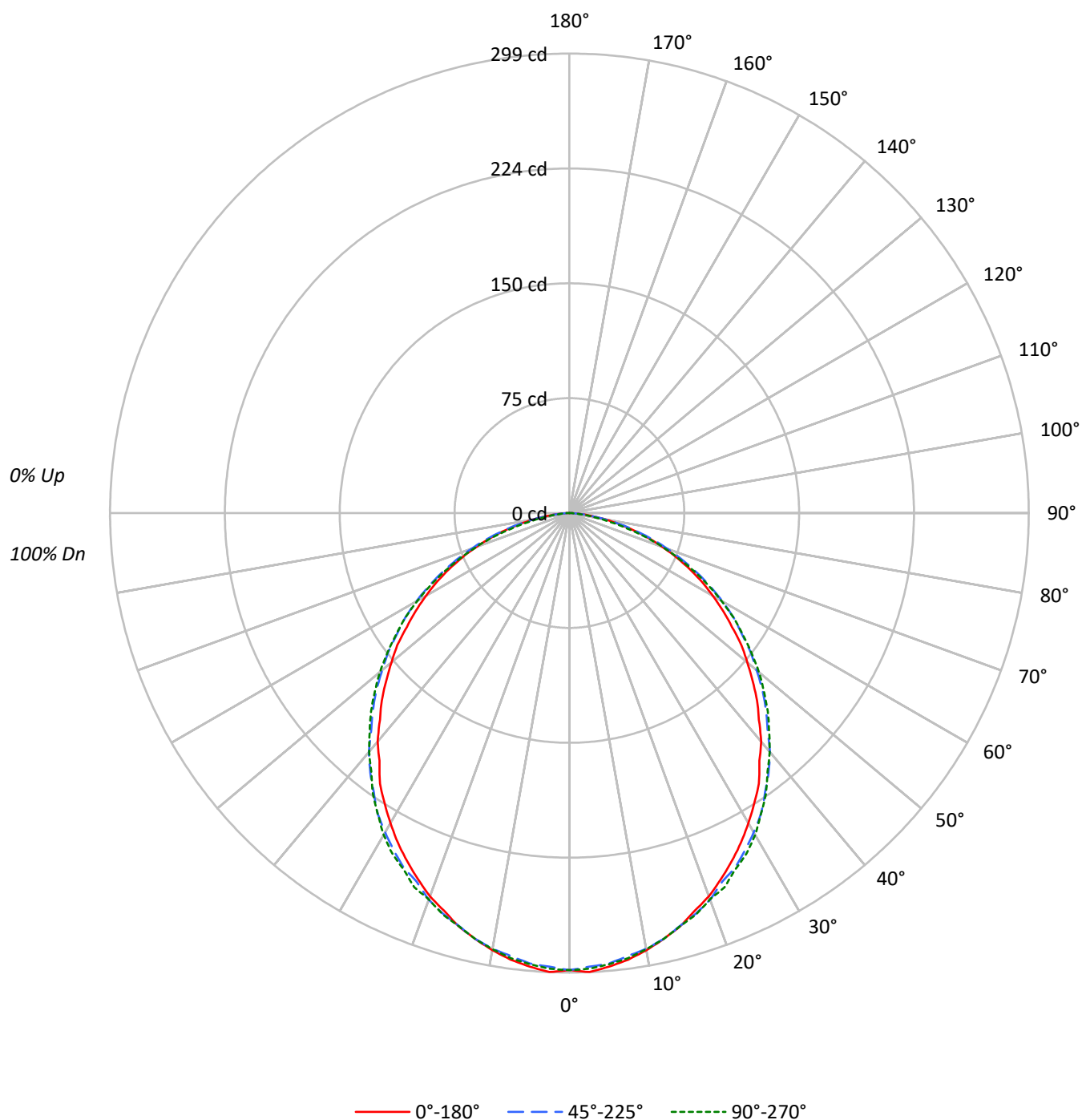
Lumens per Lamp: N/A
Luminaire Lumens: 764.0 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	800	800	800
5°	800	795	796
10°	789	786	788
15°	776	775	775
20°	760	767	766
25°	742	757	759
30°	724	745	751
35°	706	729	733
40°	682	713	712
45°	657	688	695
50°	633	665	674
55°	606	642	646
60°	580	619	615
65°	550	581	569
70°	507	533	509
75°	448	467	408
80°	361	366	285
85°	235	225	167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.0	3.7
10°-20°	78.6	10.3
20°-30°	117.0	15.3
30°-40°	137.8	18.0
40°-50°	138.1	18.1
50°-60°	121.1	15.9
60°-70°	88.6	11.6
70°-80°	45.6	6.0
80°-90°	9.2	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°	223.6	29.3
0°-40°	361.4	47.3
0°-60°	620.6	81.2
0°-90°	764.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	764.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	297	297	297	297	297	
5°	296	294	294	296	295	28
15°	278	279	278	280	278	78
25°	250	251	255	258	256	115
35°	215	216	222	224	223	134
45°	173	174	181	183	183	133
55°	129	132	137	139	138	116
65°	86	88	91	91	89	85
75°	43	43	45	42	39	46
85°	8	8	7	6	5	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	297.4	297.4	297.4	297.4	297.4
2.5°	298.9	297.4	295.5	297.1	296.8
5°	296.3	294.4	294.2	296.1	294.7
7.5°	293.1	292.7	290.8	292.9	292.1
10°	288.8	288.5	287.8	289.3	288.2
12.5°	283.8	283.5	283.8	284.6	283.8
15°	278.4	278.9	278.1	279.9	278.3
17.5°	271.3	271.7	273.4	274.0	273.9
20°	265.4	265.7	267.7	270.3	267.5
22.5°	257.8	258.6	259.6	264.3	263.6
25°	250.0	251.1	254.8	258.4	255.6
27.5°	241.8	243.0	247.5	250.1	249.8
30°	233.0	234.2	239.9	243.5	241.8
32.5°	223.9	225.9	232.1	235.2	232.1
35°	215.0	216.0	222.0	224.4	223.0
37.5°	203.1	206.9	212.9	214.5	211.9
40°	194.2	194.3	203.0	203.0	202.8
42.5°	182.6	185.2	190.9	194.0	192.4
45°	172.7	173.5	180.8	183.1	182.6
47.5°	161.8	165.1	170.4	173.0	171.7
50°	151.1	153.4	158.9	162.3	161.0
52.5°	141.2	142.9	148.6	150.6	149.3
55°	129.1	132.1	136.8	138.7	137.6
57.5°	118.7	120.8	126.7	127.3	126.7
60°	107.8	110.3	115.0	115.5	114.2
62.5°	97.4	99.0	103.3	103.4	102.0
65°	86.4	88.3	91.2	90.9	89.4
67.5°	75.5	76.8	79.5	78.4	76.8
70°	64.4	65.5	67.8	66.2	64.7
72.5°	53.7	54.5	56.4	54.0	52.2
75°	43.1	43.4	44.9	41.8	39.2
77.5°	32.7	33.0	33.8	30.7	27.8
80°	23.3	23.3	23.6	20.3	18.4
82.5°	14.6	14.6	14.5	12.0	10.9
85°	7.6	7.5	7.3	5.9	5.4
87.5°	2.8	2.8	2.3	2.1	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)