

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: P488881

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-1STD-27-120-EDD**

Issue Date: 3/11/2021

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: P488881  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/11/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: CLM-24-2-INS-A12125-LD4-1STD-27-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

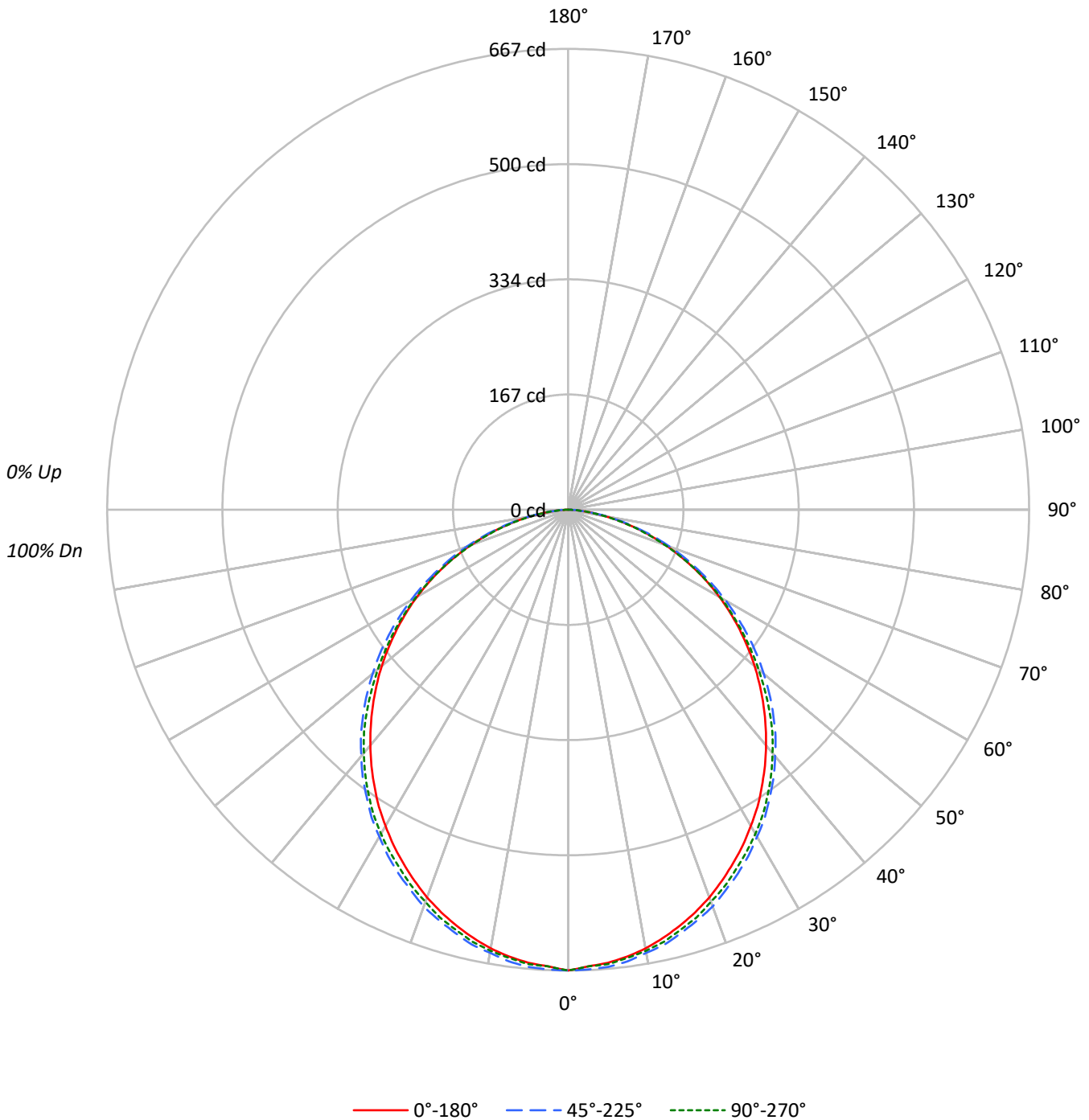
Lumens per Lamp: N/A  
Luminaire Lumens: 1753.4 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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	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	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1795	1795	1795
5°	1778	1795	1784
10°	1762	1780	1771
15°	1737	1765	1753
20°	1710	1751	1730
25°	1677	1725	1705
30°	1643	1698	1683
35°	1606	1669	1654
40°	1564	1636	1616
45°	1520	1597	1567
50°	1474	1546	1505
55°	1421	1488	1442
60°	1361	1417	1373
65°	1282	1331	1283
70°	1180	1227	1167
75°	1039	1085	1023
80°	845	880	835
85°	587	627	611



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.8	3.6
10°-20°	178.0	10.2
20°-30°	265.5	15.1
30°-40°	314.6	17.9
40°-50°	318.3	18.2
50°-60°	278.0	15.9
60°-70°	203.2	11.6
70°-80°	108.1	6.2
80°-90°	25.0	1.4
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°	506.3	28.9
0°-40°	820.9	46.8
0°-60°	1417.2	80.8
0°-90°	1753.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1753.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	667	667	667	667	667	
5°	658	660	664	666	660	62
15°	624	628	634	638	629	176
25°	565	572	581	583	574	260
35°	489	496	508	512	504	306
45°	400	407	420	420	412	308
55°	303	309	317	312	307	271
65°	201	206	209	205	202	199
75°	100	102	104	101	98	106
85°	19	19	20	20	20	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	666.9	666.9	666.9	666.9	666.9
2.5°	661.7	663.9	666.1	667.1	661.6
5°	658.2	659.5	664.4	666.0	660.3
7.5°	652.5	654.4	659.2	659.9	654.5
10°	644.8	648.1	651.3	654.8	648.2
12.5°	634.8	639.3	644.8	645.4	640.4
15°	623.6	627.8	633.7	637.5	629.3
17.5°	611.1	615.2	622.8	623.5	618.5
20°	597.2	602.2	611.3	612.9	604.0
22.5°	581.3	588.1	595.7	597.2	590.6
25°	564.7	571.7	581.1	583.3	574.4
27.5°	547.3	554.0	564.6	566.2	558.7
30°	528.7	535.0	546.6	549.2	541.6
32.5°	509.8	516.1	529.0	531.2	523.8
35°	488.8	496.5	508.2	511.8	503.5
37.5°	467.4	474.9	488.2	491.4	482.5
40°	445.3	452.6	465.8	468.4	459.9
42.5°	422.6	430.0	444.0	444.4	437.3
45°	399.5	406.6	419.6	420.0	411.7
47.5°	376.0	383.1	394.8	393.5	385.7
50°	352.2	359.0	369.3	366.6	359.6
52.5°	327.6	334.2	343.9	339.6	333.0
55°	302.9	309.0	317.1	312.5	307.3
57.5°	277.9	284.1	290.3	285.7	281.2
60°	252.8	258.2	263.3	258.6	255.2
62.5°	227.2	231.9	236.3	231.7	228.5
65°	201.4	205.5	209.1	204.9	201.5
67.5°	175.7	179.1	182.5	178.2	174.6
70°	150.0	152.9	156.0	151.5	148.3
72.5°	124.6	127.2	129.9	125.6	122.8
75°	99.9	102.2	104.4	100.6	98.4
77.5°	76.4	78.3	79.8	77.4	75.3
80°	54.5	55.9	56.8	55.9	53.9
82.5°	35.0	36.1	36.5	36.5	35.2
85°	19.0	19.4	20.3	20.5	19.8
87.5°	7.4	7.9	8.1	8.7	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)