

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: P488982

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-4LO-40-120-EDD-90**

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: P488982  
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-LD4-4LO-40-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

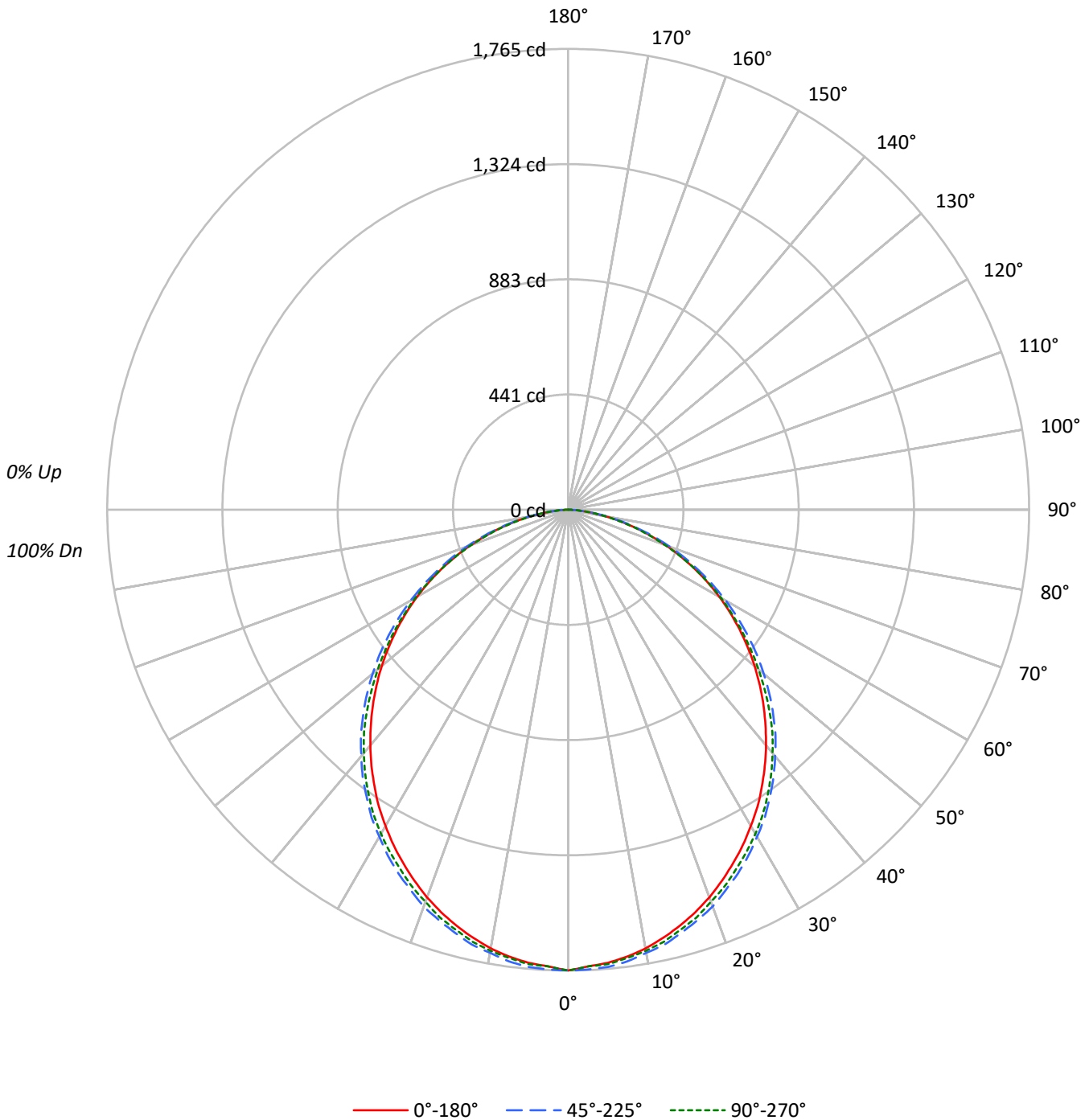
Lumens per Lamp: N/A  
Luminaire Lumens: 4639.4 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 46.8  
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°	4749	4749	4749
5°	4705	4749	4720
10°	4662	4709	4686
15°	4597	4671	4639
20°	4525	4632	4576
25°	4437	4565	4513
30°	4347	4494	4453
35°	4249	4417	4376
40°	4139	4329	4274
45°	4023	4225	4146
50°	3902	4090	3983
55°	3760	3936	3815
60°	3600	3749	3633
65°	3393	3522	3395
70°	3122	3248	3087
75°	2749	2873	2706
80°	2233	2331	2208
85°	1556	1658	1618



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.2	3.6
10°-20°	471.0	10.2
20°-30°	702.4	15.1
30°-40°	832.4	17.9
40°-50°	842.2	18.2
50°-60°	735.6	15.9
60°-70°	537.5	11.6
70°-80°	286.0	6.2
80°-90°	66.1	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°	1339.6	28.9
0°-40°	2172.0	46.8
0°-60°	3749.8	80.8
0°-90°	4639.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4639.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1765	1765	1765	1765	1765	
5°	1742	1745	1758	1762	1747	165
15°	1650	1661	1677	1687	1665	465
25°	1494	1513	1538	1543	1520	688
35°	1293	1314	1345	1354	1332	809
45°	1057	1076	1110	1111	1089	815
55°	801	818	839	827	813	716
65°	533	544	553	542	533	527
75°	264	270	276	266	260	281
85°	50	51	54	54	52	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1764.7	1764.7	1764.7	1764.7	1764.7
2.5°	1750.9	1756.6	1762.5	1765.0	1750.7
5°	1741.7	1745.0	1758.0	1762.1	1747.2
7.5°	1726.6	1731.6	1744.3	1746.1	1731.8
10°	1706.0	1714.8	1723.3	1732.5	1715.0
12.5°	1679.7	1691.7	1706.0	1707.7	1694.4
15°	1650.1	1661.2	1676.8	1686.9	1665.0
17.5°	1617.0	1627.7	1647.9	1649.8	1636.5
20°	1580.1	1593.3	1617.6	1621.8	1598.1
22.5°	1538.2	1556.0	1576.2	1580.3	1562.8
25°	1494.2	1512.6	1537.6	1543.3	1519.9
27.5°	1448.2	1465.9	1494.0	1498.1	1478.4
30°	1399.0	1415.5	1446.4	1453.2	1433.2
32.5°	1349.0	1365.5	1399.7	1405.4	1385.9
35°	1293.4	1313.7	1344.7	1354.1	1332.2
37.5°	1236.8	1256.5	1291.8	1300.2	1276.7
40°	1178.2	1197.6	1232.4	1239.4	1216.8
42.5°	1118.2	1137.7	1174.8	1176.0	1157.2
45°	1057.0	1075.7	1110.3	1111.2	1089.4
47.5°	994.9	1013.8	1044.7	1041.2	1020.6
50°	932.0	950.0	977.0	970.0	951.5
52.5°	866.9	884.4	909.9	898.5	881.0
55°	801.4	817.6	838.9	826.8	813.2
57.5°	735.4	751.8	768.2	755.8	744.1
60°	668.9	683.2	696.6	684.1	675.1
62.5°	601.2	613.5	625.1	613.2	604.7
65°	532.8	543.7	553.2	542.2	533.2
67.5°	464.8	474.0	482.8	471.4	462.0
70°	396.8	404.7	412.8	401.0	392.4
72.5°	329.7	336.6	343.8	332.4	324.9
75°	264.4	270.5	276.3	266.2	260.3
77.5°	202.1	207.2	211.3	204.8	199.1
80°	144.1	148.0	150.4	147.8	142.5
82.5°	92.7	95.4	96.7	96.5	93.0
85°	50.4	51.3	53.7	54.2	52.4
87.5°	19.5	20.8	21.3	23.0	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)