

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: P488967

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-4HI-30-120-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: P488967  
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-LD4-4HI-30-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

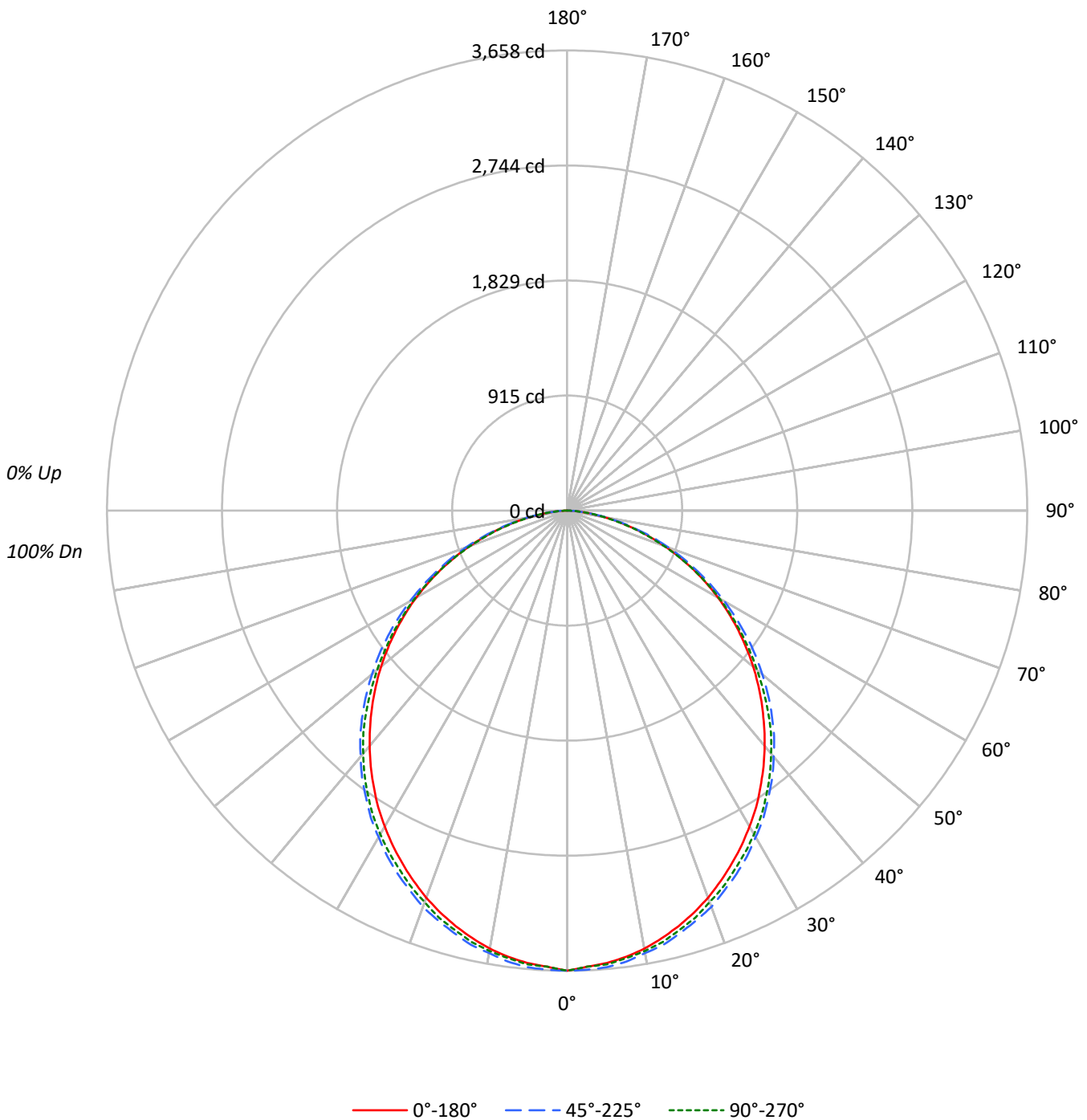
Lumens per Lamp: N/A  
Luminaire Lumens: 9616.1 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 86.4  
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°	9843	9843	9843
5°	9752	9843	9782
10°	9662	9760	9713
15°	9528	9682	9614
20°	9379	9601	9486
25°	9196	9463	9354
30°	9010	9316	9230
35°	8807	9156	9071
40°	8578	8973	8859
45°	8337	8758	8593
50°	8087	8478	8256
55°	7793	8158	7908
60°	7462	7771	7531
65°	7032	7301	7037
70°	6471	6731	6398
75°	5698	5955	5610
80°	4630	4830	4576
85°	3223	3436	3353



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.5	3.6
10°-20°	976.2	10.2
20°-30°	1455.9	15.1
30°-40°	1725.3	17.9
40°-50°	1745.7	18.2
50°-60°	1524.6	15.9
60°-70°	1114.1	11.6
70°-80°	592.8	6.2
80°-90°	137.0	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°	2776.6	28.9
0°-40°	4501.8	46.8
0°-60°	7772.2	80.8
0°-90°	9616.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9616.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3658	3658	3658	3658	3658	
5°	3610	3617	3644	3652	3621	342
15°	3420	3443	3476	3496	3451	964
25°	3097	3135	3187	3199	3150	1427
35°	2681	2723	2787	2807	2761	1677
45°	2191	2230	2301	2303	2258	1690
55°	1661	1695	1739	1714	1686	1485
65°	1104	1127	1147	1124	1105	1093
75°	548	561	573	552	540	583
85°	104	106	111	112	109	132
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3657.6	3657.6	3657.6	3657.6	3657.6
2.5°	3629.0	3640.9	3653.0	3658.4	3628.7
5°	3610.0	3616.8	3643.9	3652.3	3621.4
7.5°	3578.7	3589.0	3615.3	3619.1	3589.4
10°	3536.1	3554.3	3571.9	3590.9	3554.7
12.5°	3481.6	3506.3	3536.1	3539.5	3512.0
15°	3420.2	3443.1	3475.5	3496.4	3451.1
17.5°	3351.6	3373.7	3415.6	3419.4	3392.0
20°	3275.0	3302.5	3352.8	3361.5	3312.4
22.5°	3188.1	3225.1	3267.0	3275.4	3239.2
25°	3097.1	3135.2	3187.0	3198.8	3150.4
27.5°	3001.8	3038.4	3096.7	3105.1	3064.3
30°	2899.7	2933.9	2998.0	3012.1	2970.5
32.5°	2796.0	2830.3	2901.2	2913.0	2872.6
35°	2680.9	2722.8	2787.2	2806.7	2761.3
37.5°	2563.5	2604.3	2677.5	2695.0	2646.2
40°	2442.0	2482.4	2554.4	2568.9	2522.0
42.5°	2317.7	2358.1	2435.1	2437.4	2398.5
45°	2190.8	2229.7	2301.4	2303.3	2257.9
47.5°	2062.0	2101.3	2165.3	2158.1	2115.4
50°	1931.7	1969.0	2025.1	2010.6	1972.1
52.5°	1796.8	1833.0	1886.0	1862.3	1826.1
55°	1661.1	1694.7	1738.9	1713.7	1685.5
57.5°	1524.3	1558.2	1592.2	1566.6	1542.2
60°	1386.4	1416.1	1443.9	1418.0	1399.3
62.5°	1246.1	1271.7	1295.7	1270.9	1253.4
65°	1104.4	1126.9	1146.7	1123.8	1105.1
67.5°	963.4	982.4	1000.7	977.1	957.7
70°	822.4	838.8	855.5	831.1	813.2
72.5°	683.3	697.8	712.6	689.0	673.4
75°	548.0	560.6	572.8	551.8	539.6
77.5°	418.8	429.5	437.9	424.5	412.7
80°	298.8	306.8	311.7	306.4	295.3
82.5°	192.1	197.8	200.4	200.1	192.8
85°	104.4	106.3	111.3	112.4	108.6
87.5°	40.4	43.1	44.2	47.6	43.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)