

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: P488901

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-2HI-50-120-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: P488901  
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-LD4-2HI-50-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

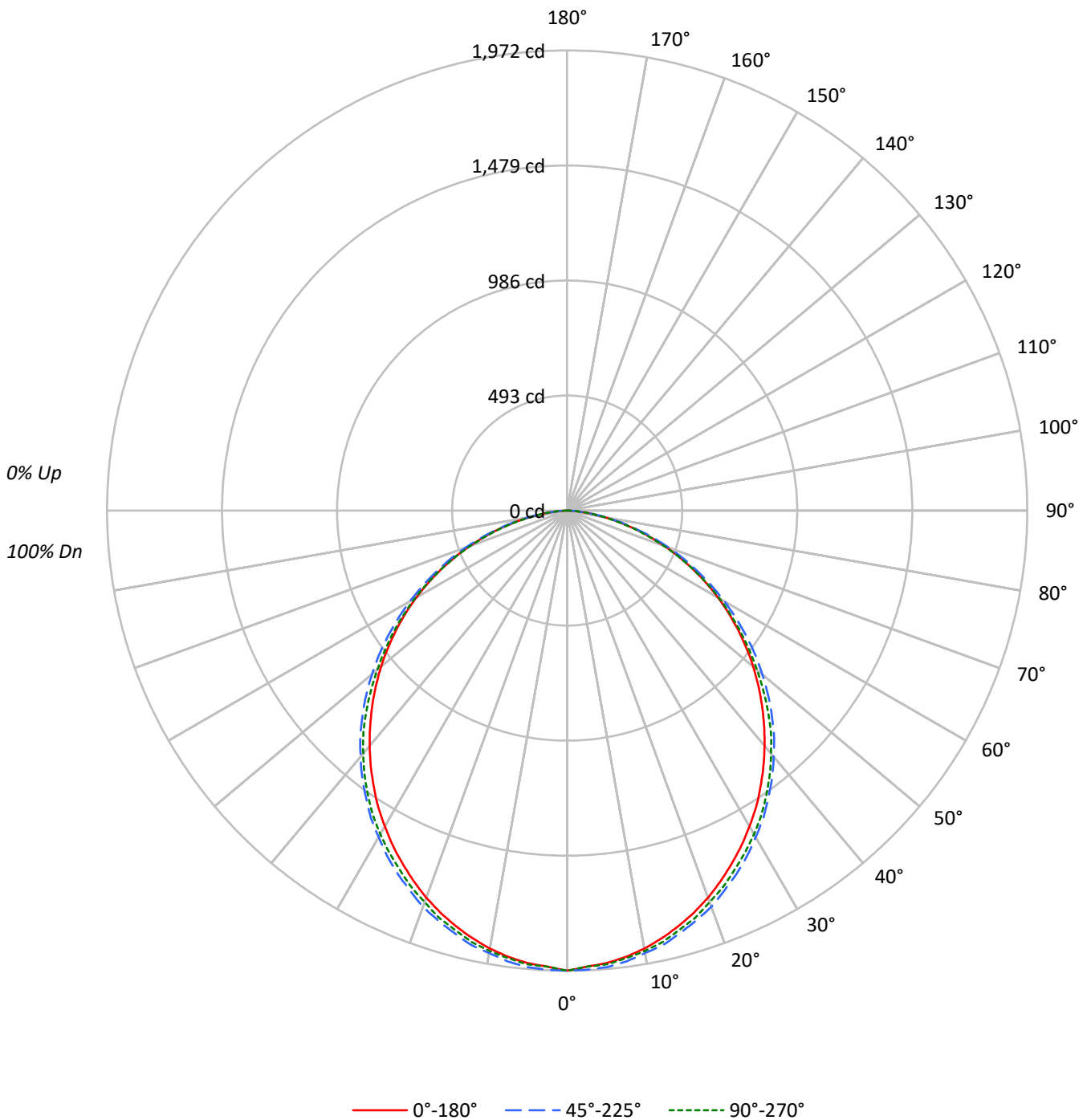
Lumens per Lamp: N/A  
Luminaire Lumens: 5183.3 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.2  
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°	5305	5305	5305
5°	5256	5306	5273
10°	5208	5261	5236
15°	5136	5219	5182
20°	5055	5175	5113
25°	4957	5101	5042
30°	4857	5021	4975
35°	4747	4936	4890
40°	4624	4837	4775
45°	4494	4721	4632
50°	4359	4570	4450
55°	4201	4397	4262
60°	4022	4189	4060
65°	3791	3936	3793
70°	3488	3628	3448
75°	3071	3210	3025
80°	2495	2603	2467
85°	1738	1853	1806



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.7	3.6
10°-20°	526.2	10.2
20°-30°	784.8	15.1
30°-40°	930.0	17.9
40°-50°	941.0	18.2
50°-60°	821.8	15.9
60°-70°	600.5	11.6
70°-80°	319.5	6.2
80°-90°	73.8	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°	1496.6	28.9
0°-40°	2426.6	46.8
0°-60°	4189.4	80.8
0°-90°	5183.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5183.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1972	1972	1972	1972	1972	
5°	1946	1950	1964	1969	1952	185
15°	1844	1856	1873	1885	1860	520
25°	1669	1690	1718	1724	1698	769
35°	1445	1468	1502	1513	1488	904
45°	1181	1202	1240	1242	1217	911
55°	895	914	937	924	908	800
65°	595	607	618	606	596	589
75°	295	302	309	297	291	314
85°	56	57	60	61	58	71
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1971.5	1971.5	1971.5	1971.5	1971.5
2.5°	1956.1	1962.5	1969.1	1972.0	1955.9
5°	1945.9	1949.6	1964.1	1968.7	1952.0
7.5°	1929.0	1934.6	1948.7	1950.8	1934.8
10°	1906.0	1915.9	1925.3	1935.6	1916.1
12.5°	1876.6	1890.0	1906.0	1907.9	1893.1
15°	1843.6	1855.9	1873.4	1884.7	1860.2
17.5°	1806.6	1818.5	1841.1	1843.2	1828.4
20°	1765.3	1780.1	1807.2	1811.9	1785.4
22.5°	1718.5	1738.4	1761.0	1765.5	1746.0
25°	1669.4	1689.9	1717.9	1724.2	1698.1
27.5°	1618.0	1637.7	1669.2	1673.7	1651.7
30°	1563.0	1581.5	1616.0	1623.6	1601.2
32.5°	1507.1	1525.6	1563.8	1570.2	1548.4
35°	1445.1	1467.7	1502.4	1512.9	1488.4
37.5°	1381.8	1403.8	1443.2	1452.7	1426.4
40°	1316.3	1338.1	1376.9	1384.7	1359.4
42.5°	1249.3	1271.1	1312.6	1313.8	1292.9
45°	1180.9	1201.9	1240.5	1241.5	1217.1
47.5°	1111.5	1132.6	1167.2	1163.2	1140.2
50°	1041.2	1061.4	1091.6	1083.8	1063.0
52.5°	968.5	988.0	1016.6	1003.8	984.3
55°	895.4	913.5	937.3	923.7	908.5
57.5°	821.6	839.9	858.2	844.4	831.3
60°	747.3	763.3	778.3	764.3	754.3
62.5°	671.7	685.5	698.4	685.0	675.6
65°	595.3	607.4	618.1	605.8	595.7
67.5°	519.3	529.6	539.4	526.7	516.2
70°	443.3	452.1	461.1	448.0	438.3
72.5°	368.3	376.1	384.1	371.4	363.0
75°	295.4	302.2	308.7	297.4	290.9
77.5°	225.7	231.5	236.0	228.8	222.5
80°	161.0	165.4	168.0	165.2	159.2
82.5°	103.5	106.6	108.0	107.8	103.9
85°	56.3	57.3	60.0	60.6	58.5
87.5°	21.8	23.2	23.8	25.7	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)