

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: P488899

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-2HI-40-120-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: P488899  
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-40-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

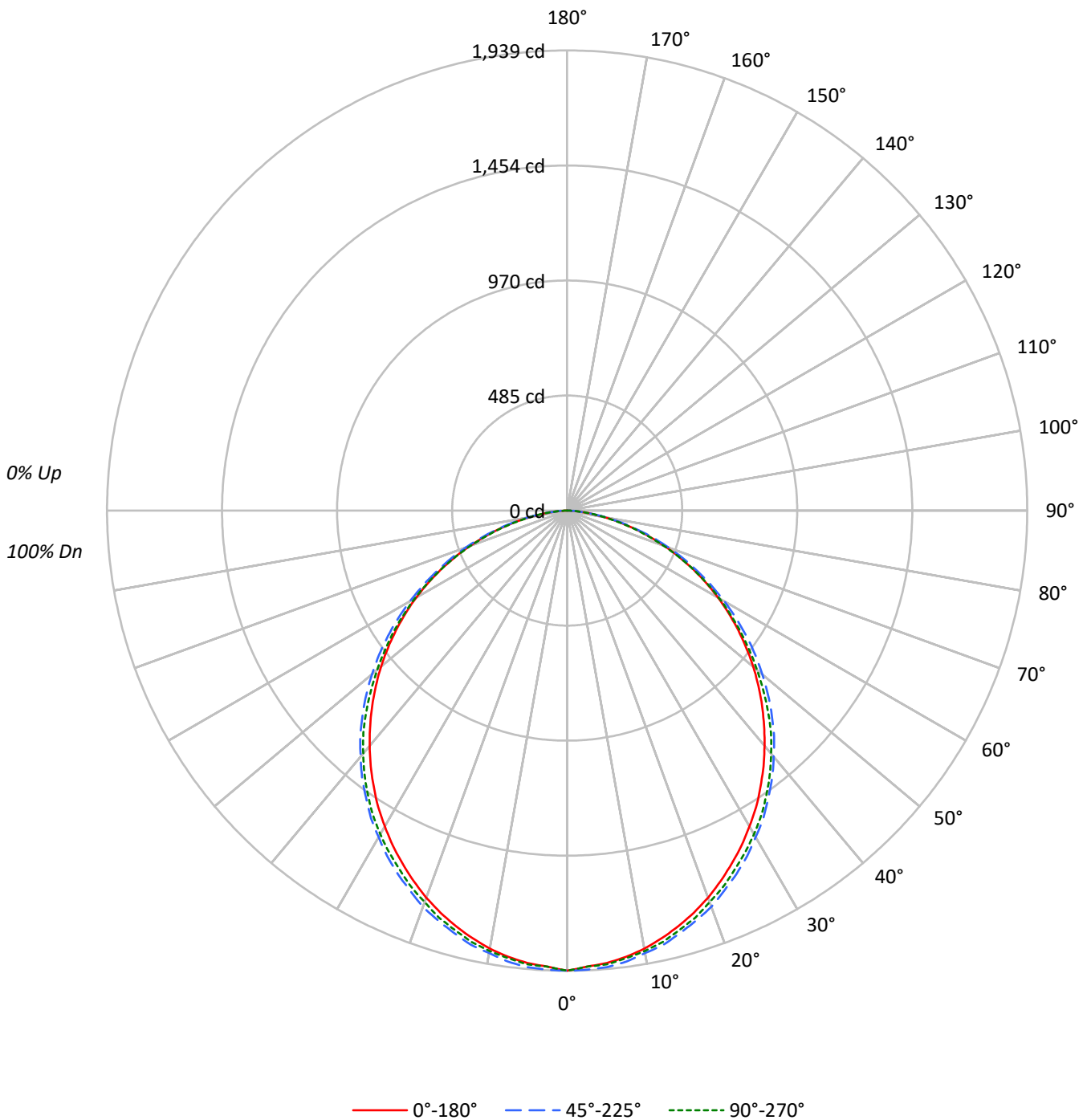
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5096.9 lumens  
Efficiency: N/A  
Efficacy: 118.0 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°	5217	5217	5217
5°	5169	5217	5185
10°	5121	5173	5148
15°	5050	5132	5096
20°	4971	5089	5028
25°	4874	5016	4958
30°	4776	4937	4892
35°	4668	4853	4808
40°	4547	4756	4696
45°	4419	4642	4555
50°	4286	4494	4376
55°	4131	4324	4191
60°	3955	4119	3992
65°	3727	3870	3730
70°	3430	3568	3391
75°	3020	3157	2974
80°	2455	2560	2425
85°	1707	1822	1778



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.6	3.6
10°-20°	517.4	10.2
20°-30°	771.7	15.1
30°-40°	914.5	17.9
40°-50°	925.3	18.2
50°-60°	808.1	15.9
60°-70°	590.5	11.6
70°-80°	314.2	6.2
80°-90°	72.6	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°	1471.7	28.9
0°-40°	2386.1	46.8
0°-60°	4119.5	80.8
0°-90°	5096.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5096.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1939	1939	1939	1939	1939	
5°	1913	1917	1931	1936	1920	181
15°	1813	1825	1842	1853	1829	511
25°	1642	1662	1689	1696	1670	756
35°	1421	1443	1477	1488	1464	889
45°	1161	1182	1220	1221	1197	896
55°	880	898	922	908	893	787
65°	585	597	608	596	586	579
75°	290	297	304	292	286	309
85°	55	56	59	60	58	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1938.7	1938.7	1938.7	1938.7	1938.7
2.5°	1923.5	1929.8	1936.3	1939.1	1923.3
5°	1913.4	1917.1	1931.4	1935.9	1919.5
7.5°	1896.9	1902.3	1916.3	1918.3	1902.5
10°	1874.2	1883.9	1893.2	1903.3	1884.1
12.5°	1845.4	1858.5	1874.2	1876.1	1861.5
15°	1812.8	1825.0	1842.1	1853.2	1829.2
17.5°	1776.5	1788.2	1810.4	1812.4	1797.9
20°	1735.9	1750.4	1777.1	1781.7	1755.7
22.5°	1689.8	1709.4	1731.6	1736.1	1716.9
25°	1641.6	1661.8	1689.2	1695.5	1669.8
27.5°	1591.1	1610.4	1641.4	1645.8	1624.2
30°	1536.9	1555.1	1589.0	1596.5	1574.5
32.5°	1482.0	1500.2	1537.7	1544.0	1522.6
35°	1421.0	1443.2	1477.3	1487.6	1463.6
37.5°	1358.8	1380.4	1419.2	1428.5	1402.6
40°	1294.3	1315.7	1353.9	1361.6	1336.8
42.5°	1228.5	1249.9	1290.7	1291.9	1271.3
45°	1161.2	1181.8	1219.8	1220.8	1196.8
47.5°	1093.0	1113.8	1147.7	1143.9	1121.2
50°	1023.9	1043.7	1073.4	1065.7	1045.3
52.5°	952.4	971.6	999.6	987.1	967.9
55°	880.5	898.2	921.7	908.3	893.4
57.5°	808.0	825.9	843.9	830.4	817.4
60°	734.8	750.6	765.3	751.6	741.7
62.5°	660.5	674.0	686.8	673.6	664.3
65°	585.4	597.3	607.8	595.7	585.8
67.5°	510.6	520.7	530.4	517.9	507.6
70°	435.9	444.6	453.5	440.5	431.0
72.5°	362.2	369.8	377.7	365.2	356.9
75°	290.5	297.1	303.6	292.5	286.0
77.5°	222.0	227.6	232.1	225.0	218.8
80°	158.4	162.6	165.2	162.4	156.5
82.5°	101.8	104.8	106.2	106.0	102.2
85°	55.3	56.4	59.0	59.6	57.6
87.5°	21.4	22.8	23.4	25.2	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)