

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: P488927

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-3HI-20-120-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: P488927  
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-LD4-3HI-20-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

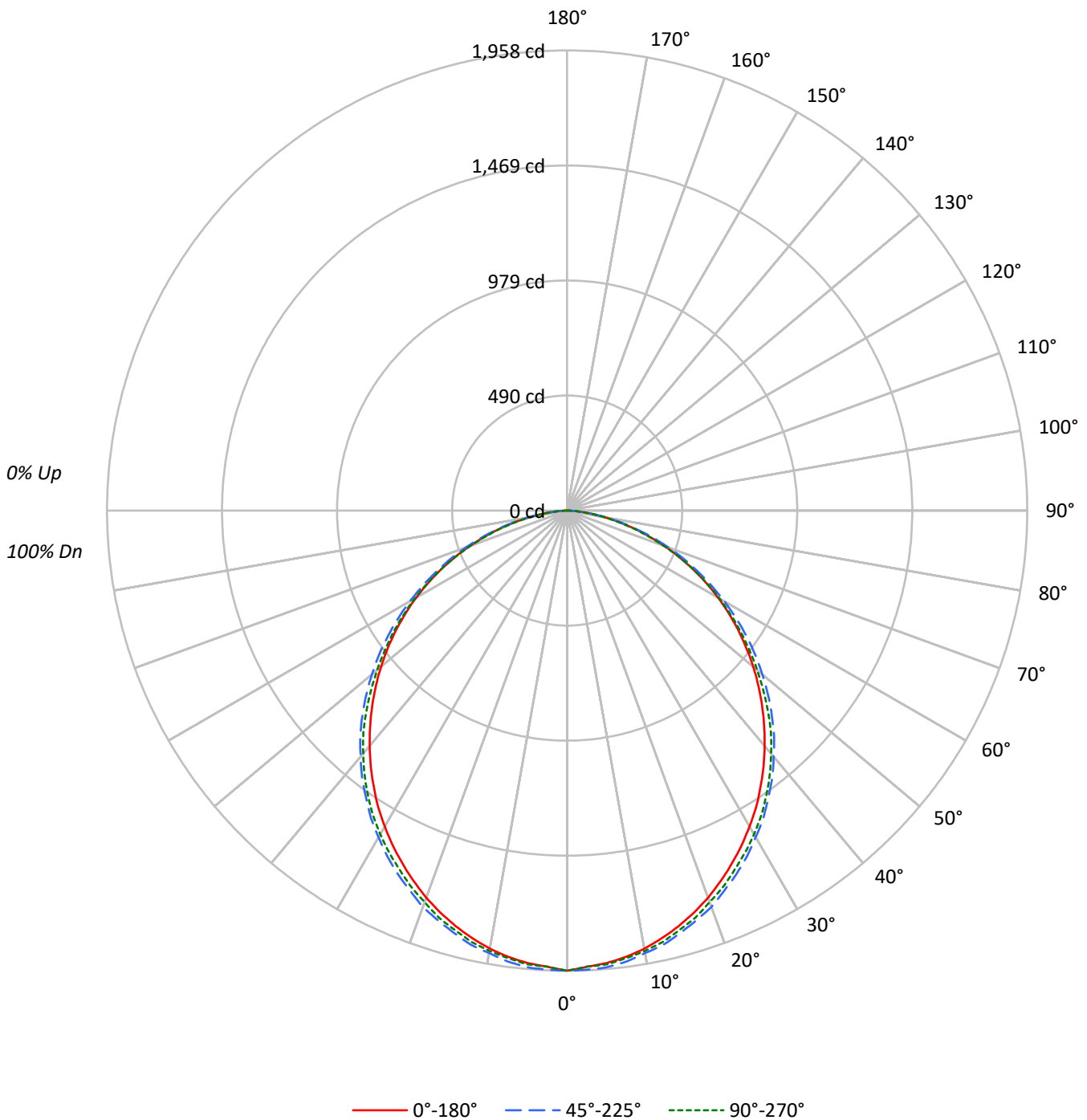
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5147.3 lumens  
Efficiency: N/A  
Efficacy: 79.4 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): 64.8  
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	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°	5268	5268	5268
5°	5220	5269	5236
10°	5172	5225	5199
15°	5100	5183	5146
20°	5020	5139	5077
25°	4922	5065	5007
30°	4823	4987	4941
35°	4714	4901	4856
40°	4592	4803	4742
45°	4463	4688	4599
50°	4329	4538	4419
55°	4172	4367	4233
60°	3994	4160	4031
65°	3764	3908	3767
70°	3463	3603	3425
75°	3049	3188	3003
80°	2478	2586	2450
85°	1726	1840	1794



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.4	3.6
10°-20°	522.5	10.2
20°-30°	779.3	15.1
30°-40°	923.5	17.9
40°-50°	934.4	18.2
50°-60°	816.1	15.9
60°-70°	596.4	11.6
70°-80°	317.3	6.2
80°-90°	73.4	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°	1486.2	28.9
0°-40°	2409.7	46.8
0°-60°	4160.3	80.8
0°-90°	5147.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5147.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1958	1958	1958	1958	1958	
5°	1932	1936	1950	1955	1938	183
15°	1831	1843	1860	1872	1847	516
25°	1658	1678	1706	1712	1686	764
35°	1435	1458	1492	1502	1478	897
45°	1173	1194	1232	1233	1209	905
55°	889	907	931	917	902	795
65°	591	603	614	602	592	585
75°	293	300	307	295	289	312
85°	56	57	60	60	58	71
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1957.8	1957.8	1957.8	1957.8	1957.8
2.5°	1942.6	1948.9	1955.4	1958.3	1942.3
5°	1932.4	1936.0	1950.5	1955.0	1938.5
7.5°	1915.6	1921.1	1935.2	1937.2	1921.3
10°	1892.8	1902.6	1912.0	1922.2	1902.8
12.5°	1863.6	1876.9	1892.8	1894.6	1879.9
15°	1830.8	1843.0	1860.3	1871.6	1847.3
17.5°	1794.0	1805.9	1828.3	1830.4	1815.7
20°	1753.0	1767.7	1794.7	1799.4	1773.0
22.5°	1706.5	1726.3	1748.8	1753.3	1733.9
25°	1657.8	1678.2	1705.9	1712.3	1686.3
27.5°	1606.8	1626.4	1657.6	1662.1	1640.2
30°	1552.1	1570.5	1604.8	1612.3	1590.1
32.5°	1496.6	1515.0	1552.9	1559.3	1537.6
35°	1435.0	1457.5	1491.9	1502.4	1478.1
37.5°	1372.2	1394.0	1433.2	1442.6	1416.5
40°	1307.1	1328.8	1367.3	1375.1	1350.0
42.5°	1240.6	1262.3	1303.5	1304.7	1283.9
45°	1172.7	1193.5	1231.9	1232.9	1208.6
47.5°	1103.8	1124.8	1159.0	1155.2	1132.3
50°	1034.0	1054.0	1084.0	1076.2	1055.6
52.5°	961.8	981.2	1009.5	996.9	977.5
55°	889.2	907.1	930.8	917.3	902.2
57.5°	815.9	834.1	852.3	838.6	825.5
60°	742.1	758.0	772.9	759.0	749.0
62.5°	667.0	680.7	693.5	680.3	670.9
65°	591.1	603.2	613.8	601.6	591.6
67.5°	515.7	525.9	535.7	523.0	512.6
70°	440.2	449.0	457.9	444.9	435.3
72.5°	365.7	373.5	381.5	368.8	360.4
75°	293.3	300.1	306.6	295.4	288.8
77.5°	224.2	229.9	234.4	227.2	220.9
80°	159.9	164.2	166.9	164.0	158.1
82.5°	102.8	105.9	107.3	107.1	103.2
85°	55.9	56.9	59.6	60.2	58.1
87.5°	21.6	23.1	23.7	25.5	23.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)