

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: P489405

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-1HI-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: P489405  
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-24-4-INS-A12125-LD4-1HI-50-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

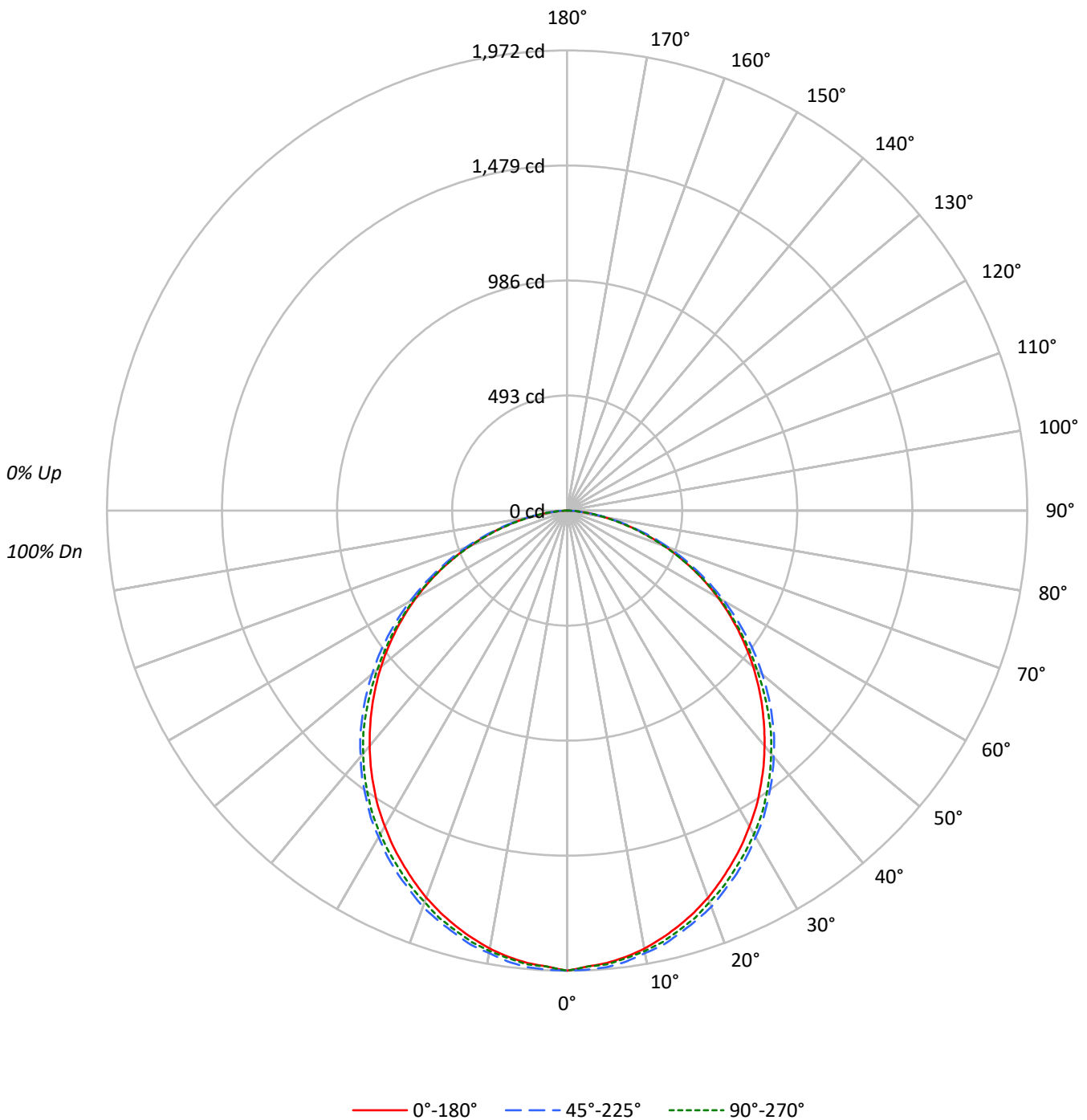
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5183.5 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: 4' 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	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°	2653	2653	2653
5°	2628	2653	2637
10°	2604	2631	2618
15°	2568	2610	2591
20°	2528	2588	2557
25°	2478	2550	2521
30°	2428	2511	2488
35°	2374	2468	2445
40°	2312	2418	2388
45°	2247	2360	2316
50°	2180	2285	2225
55°	2100	2199	2131
60°	2011	2094	2030
65°	1895	1968	1897
70°	1744	1814	1725
75°	1536	1605	1512
80°	1247	1302	1234
85°	869	926	903



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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°	600.6	11.6
70°-80°	319.5	6.2
80°-90°	73.9	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°	1496.7	28.9
0°-40°	2426.7	46.8
0°-60°	4189.5	80.8
0°-90°	5183.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5183.5	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	909	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°	1971.6	1971.6	1971.6	1971.6	1971.6
2.5°	1956.2	1962.6	1969.2	1972.0	1956.0
5°	1945.9	1949.6	1964.2	1968.7	1952.1
7.5°	1929.1	1934.6	1948.8	1950.9	1934.8
10°	1906.1	1916.0	1925.4	1935.7	1916.2
12.5°	1876.7	1890.1	1906.1	1907.9	1893.1
15°	1843.6	1856.0	1873.4	1884.7	1860.3
17.5°	1806.7	1818.6	1841.2	1843.2	1828.4
20°	1765.4	1780.2	1807.3	1812.0	1785.5
22.5°	1718.5	1738.5	1761.1	1765.6	1746.1
25°	1669.4	1690.0	1717.9	1724.3	1698.2
27.5°	1618.1	1637.8	1669.2	1673.8	1651.8
30°	1563.0	1581.5	1616.0	1623.6	1601.2
32.5°	1507.2	1525.7	1563.9	1570.2	1548.5
35°	1445.1	1467.7	1502.4	1512.9	1488.5
37.5°	1381.9	1403.8	1443.3	1452.7	1426.4
40°	1316.3	1338.1	1376.9	1384.7	1359.5
42.5°	1249.4	1271.1	1312.6	1313.9	1292.9
45°	1181.0	1201.9	1240.5	1241.6	1217.1
47.5°	1111.5	1132.7	1167.2	1163.3	1140.3
50°	1041.3	1061.4	1091.6	1083.8	1063.0
52.5°	968.6	988.1	1016.6	1003.9	984.4
55°	895.4	913.5	937.3	923.8	908.6
57.5°	821.7	840.0	858.2	844.5	831.3
60°	747.3	763.3	778.3	764.4	754.3
62.5°	671.7	685.5	698.4	685.1	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	461.2	448.0	438.4
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°	225.8	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	108.1	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)