

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: P489400

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-1HI-35-120-EDD-90**

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: P489400  
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-35-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

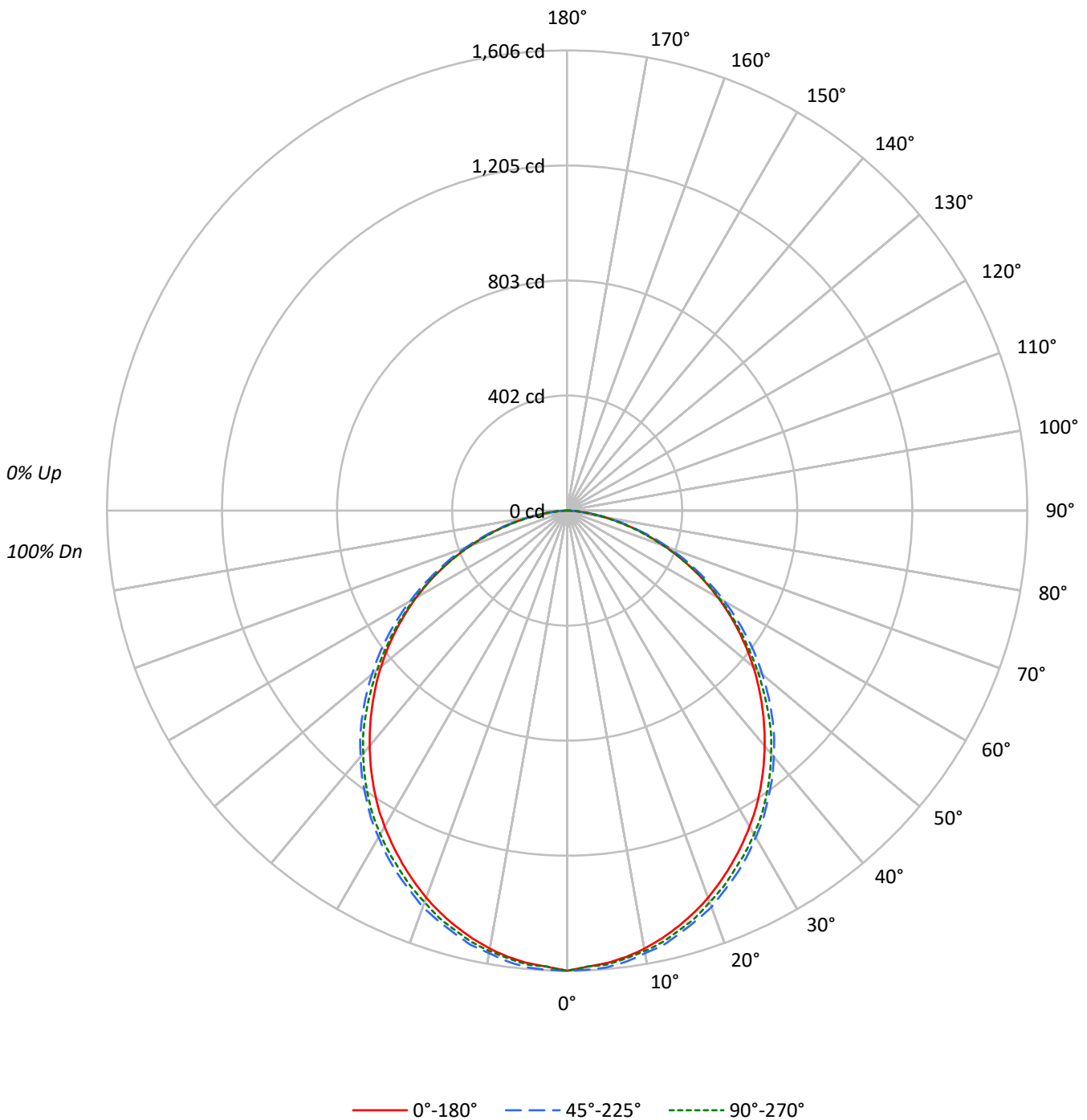
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4222.7 lumens  
Efficiency: N/A  
Efficacy: 97.7 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	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°	2161	2161	2161
5°	2141	2161	2148
10°	2122	2143	2133
15°	2092	2126	2111
20°	2059	2108	2083
25°	2019	2078	2054
30°	1978	2045	2027
35°	1934	2010	1992
40°	1883	1970	1945
45°	1831	1923	1887
50°	1776	1861	1813
55°	1711	1791	1736
60°	1638	1706	1654
65°	1544	1603	1545
70°	1421	1478	1405
75°	1251	1307	1232
80°	1017	1061	1005
85°	709	755	736



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.3	3.6
10°-20°	428.7	10.2
20°-30°	639.3	15.1
30°-40°	757.6	17.9
40°-50°	766.6	18.2
50°-60°	669.5	15.9
60°-70°	489.2	11.6
70°-80°	260.3	6.2
80°-90°	60.2	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°	1219.3	28.9
0°-40°	1976.9	46.8
0°-60°	3413.0	80.8
0°-90°	4222.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4222.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1606	1606	1606	1606	1606	
5°	1585	1588	1600	1604	1590	150
15°	1502	1512	1526	1535	1516	423
25°	1360	1377	1400	1405	1383	627
35°	1177	1196	1224	1232	1213	736
45°	962	979	1011	1011	992	742
55°	730	744	764	752	740	652
65°	485	495	504	494	485	480
75°	241	246	252	242	237	256
85°	46	47	49	49	48	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1606.2	1606.2	1606.2	1606.2	1606.2
2.5°	1593.6	1598.8	1604.2	1606.5	1593.4
5°	1585.2	1588.3	1600.1	1603.8	1590.3
7.5°	1571.5	1576.0	1587.6	1589.3	1576.2
10°	1552.8	1560.8	1568.5	1576.9	1561.0
12.5°	1528.9	1539.7	1552.8	1554.3	1542.2
15°	1501.9	1512.0	1526.2	1535.4	1515.5
17.5°	1471.8	1481.5	1499.9	1501.6	1489.5
20°	1438.2	1450.2	1472.3	1476.1	1454.6
22.5°	1400.0	1416.2	1434.6	1438.3	1422.4
25°	1360.0	1376.7	1399.5	1404.7	1383.4
27.5°	1318.2	1334.2	1359.8	1363.5	1345.6
30°	1273.3	1288.4	1316.5	1322.7	1304.4
32.5°	1227.8	1242.9	1274.0	1279.2	1261.4
35°	1177.3	1195.7	1224.0	1232.5	1212.6
37.5°	1125.7	1143.6	1175.8	1183.5	1162.0
40°	1072.3	1090.1	1121.7	1128.1	1107.5
42.5°	1017.8	1035.5	1069.3	1070.3	1053.3
45°	962.1	979.1	1010.6	1011.4	991.5
47.5°	905.5	922.7	950.8	947.7	928.9
50°	848.3	864.7	889.3	882.9	866.0
52.5°	789.0	804.9	828.2	817.8	801.9
55°	729.5	744.2	763.6	752.5	740.2
57.5°	669.4	684.3	699.2	687.9	677.2
60°	608.8	621.8	634.1	622.7	614.5
62.5°	547.2	558.4	569.0	558.1	550.4
65°	485.0	494.8	503.5	493.5	485.3
67.5°	423.0	431.4	439.4	429.1	420.5
70°	361.1	368.3	375.7	365.0	357.1
72.5°	300.0	306.4	312.9	302.6	295.7
75°	240.6	246.2	251.5	242.3	237.0
77.5°	183.9	188.6	192.3	186.4	181.2
80°	131.2	134.7	136.9	134.5	129.7
82.5°	84.3	86.9	88.0	87.9	84.7
85°	45.9	46.7	48.9	49.4	47.7
87.5°	17.7	18.9	19.4	20.9	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)