

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: P489423

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-1STD-30-120-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: P489423  
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-LD4-1STD-30-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

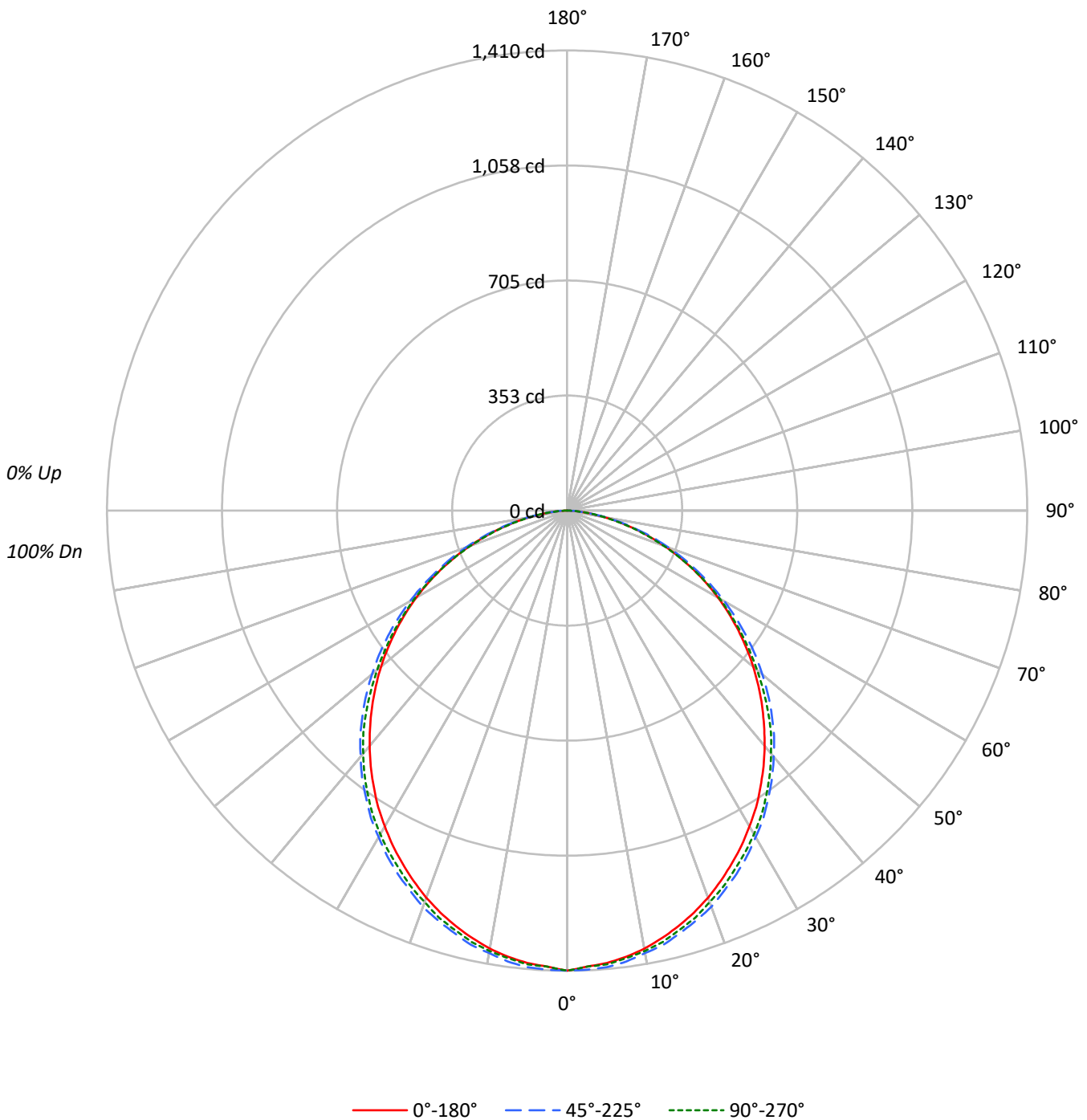
Lumens per Lamp: N/A  
Luminaire Lumens: 3706.3 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
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

TEST NUMBER: P489423

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-1STD-30-120-EDD

### Luminous Intensity Polar Plot





TEST NUMBER: P489423

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-1STD-30-120-EDD

**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°	1897	1897	1897
5°	1879	1897	1885
10°	1862	1881	1872
15°	1836	1866	1853
20°	1807	1850	1828
25°	1772	1824	1803
30°	1736	1795	1779
35°	1697	1765	1748
40°	1653	1729	1707
45°	1607	1688	1656
50°	1558	1634	1591
55°	1502	1572	1524
60°	1438	1498	1451
65°	1355	1407	1356
70°	1247	1297	1233
75°	1098	1148	1081
80°	893	931	882
85°	621	662	647



TEST NUMBER: P489423

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-1STD-30-120-EDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.8	3.6
10°-20°	376.2	10.2
20°-30°	561.1	15.1
30°-40°	665.0	17.9
40°-50°	672.8	18.2
50°-60°	587.6	15.9
60°-70°	429.4	11.6
70°-80°	228.5	6.2
80°-90°	52.8	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°	1070.2	28.9
0°-40°	1735.1	46.8
0°-60°	2995.6	80.8
0°-90°	3706.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3706.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1410	1410	1410	1410	1410	
5°	1391	1394	1404	1408	1396	132
15°	1318	1327	1340	1348	1330	372
25°	1194	1208	1228	1233	1214	550
35°	1033	1050	1074	1082	1064	646
45°	844	859	887	888	870	651
55°	640	653	670	660	650	572
65°	426	434	442	433	426	421
75°	211	216	221	213	208	225
85°	40	41	43	43	42	51
90°	0	0	0	0	0	



TEST NUMBER: P489423

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-1STD-30-120-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1409.7	1409.7	1409.7	1409.7	1409.7
2.5°	1398.7	1403.3	1408.0	1410.0	1398.6
5°	1391.4	1394.0	1404.5	1407.7	1395.8
7.5°	1379.3	1383.3	1393.4	1394.9	1383.5
10°	1362.9	1369.9	1376.7	1384.0	1370.1
12.5°	1341.9	1351.4	1362.9	1364.2	1353.6
15°	1318.2	1327.1	1339.5	1347.6	1330.1
17.5°	1291.8	1300.3	1316.5	1317.9	1307.4
20°	1262.3	1272.9	1292.2	1295.6	1276.7
22.5°	1228.8	1243.0	1259.2	1262.4	1248.5
25°	1193.7	1208.4	1228.3	1232.9	1214.2
27.5°	1157.0	1171.1	1193.5	1196.8	1181.1
30°	1117.6	1130.8	1155.5	1160.9	1144.9
32.5°	1077.7	1090.9	1118.2	1122.7	1107.2
35°	1033.3	1049.5	1074.3	1081.8	1064.3
37.5°	988.1	1003.8	1032.0	1038.7	1019.9
40°	941.2	956.8	984.5	990.1	972.0
42.5°	893.3	908.9	938.6	939.4	924.5
45°	844.4	859.4	887.0	887.7	870.3
47.5°	794.8	809.9	834.6	831.8	815.3
50°	744.5	758.9	780.5	774.9	760.1
52.5°	692.5	706.5	726.9	717.8	703.8
55°	640.2	653.2	670.2	660.5	649.6
57.5°	587.5	600.6	613.7	603.8	594.4
60°	534.3	545.8	556.5	546.5	539.3
62.5°	480.3	490.1	499.4	489.8	483.1
65°	425.7	434.3	442.0	433.1	425.9
67.5°	371.3	378.7	385.7	376.6	369.1
70°	317.0	323.3	329.7	320.3	313.4
72.5°	263.4	268.9	274.7	265.6	259.5
75°	211.2	216.1	220.8	212.7	208.0
77.5°	161.4	165.5	168.8	163.6	159.1
80°	115.2	118.2	120.1	118.1	113.8
82.5°	74.0	76.2	77.3	77.1	74.3
85°	40.2	41.0	42.9	43.3	41.9
87.5°	15.6	16.6	17.0	18.4	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)