

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: P489103

Luminaire Tested: **CLM-24-2-INS-A19156-LD4-2STD-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: P489103  
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-A19156-LD4-2STD-40-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A19156 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

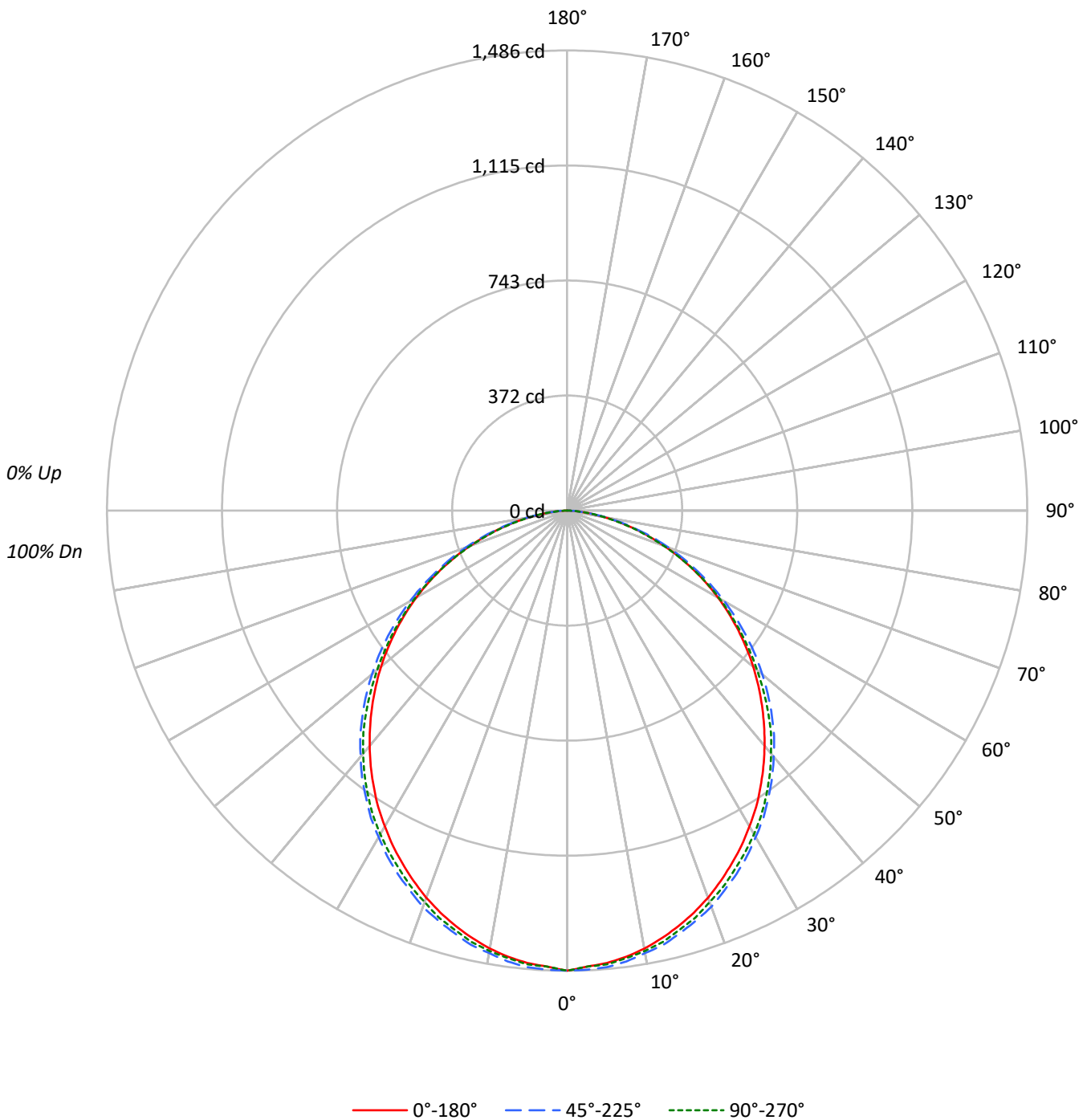
Lumens per Lamp: N/A  
Luminaire Lumens: 3906.0 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P489103

CATALOG NUMBER: CLM-24-2-INS-A19156-LD4-2STD-40-120-EDD

### Luminous Intensity Polar Plot







TEST NUMBER: P489103

CATALOG NUMBER: CLM-24-2-INS-A19156-LD4-2STD-40-120-EDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.9	3.6
10°-20°	396.5	10.2
20°-30°	591.4	15.1
30°-40°	700.8	17.9
40°-50°	709.1	18.2
50°-60°	619.3	15.9
60°-70°	452.6	11.6
70°-80°	240.8	6.2
80°-90°	55.7	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°	1127.8	28.9
0°-40°	1828.6	46.8
0°-60°	3157.0	80.8
0°-90°	3906.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3906.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1486	1486	1486	1486	1486	
5°	1466	1469	1480	1484	1471	139
15°	1389	1399	1412	1420	1402	392
25°	1258	1274	1294	1299	1280	580
35°	1089	1106	1132	1140	1122	681
45°	890	906	935	936	917	687
55°	675	688	706	696	685	603
65°	449	458	466	456	449	444
75°	223	228	233	224	219	237
85°	42	43	45	46	44	54
90°	0	0	0	0	0	



TEST NUMBER: P489103

CATALOG NUMBER: CLM-24-2-INS-A19156-LD4-2STD-40-120-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1485.7	1485.7	1485.7	1485.7	1485.7
2.5°	1474.1	1478.9	1483.8	1486.0	1473.9
5°	1466.4	1469.1	1480.1	1483.5	1471.0
7.5°	1453.7	1457.8	1468.5	1470.1	1458.0
10°	1436.3	1443.8	1450.9	1458.6	1443.9
12.5°	1414.2	1424.3	1436.3	1437.7	1426.6
15°	1389.3	1398.6	1411.7	1420.2	1401.8
17.5°	1361.4	1370.4	1387.4	1389.0	1377.8
20°	1330.3	1341.4	1361.9	1365.4	1345.5
22.5°	1295.0	1310.0	1327.0	1330.4	1315.7
25°	1258.0	1273.5	1294.5	1299.3	1279.7
27.5°	1219.3	1234.2	1257.8	1261.3	1244.7
30°	1177.8	1191.8	1217.8	1223.5	1206.6
32.5°	1135.7	1149.6	1178.4	1183.2	1166.8
35°	1089.0	1106.0	1132.2	1140.1	1121.6
37.5°	1041.3	1057.9	1087.6	1094.7	1074.9
40°	991.9	1008.3	1037.6	1043.5	1024.4
42.5°	941.5	957.9	989.1	990.1	974.3
45°	889.9	905.7	934.8	935.6	917.1
47.5°	837.6	853.5	879.5	876.6	859.3
50°	784.6	799.8	822.6	816.7	801.1
52.5°	729.8	744.6	766.1	756.5	741.8
55°	674.7	688.4	706.3	696.1	684.6
57.5°	619.2	632.9	646.7	636.4	626.4
60°	563.1	575.2	586.5	576.0	568.4
62.5°	506.2	516.5	526.3	516.2	509.1
65°	448.6	457.7	465.8	456.5	448.9
67.5°	391.3	399.1	406.5	396.9	389.0
70°	334.0	340.7	347.5	337.6	330.3
72.5°	277.5	283.4	289.5	279.9	273.5
75°	222.6	227.7	232.7	224.1	219.2
77.5°	170.1	174.5	177.9	172.4	167.6
80°	121.4	124.6	126.6	124.5	120.0
82.5°	78.0	80.3	81.4	81.3	78.3
85°	42.4	43.2	45.2	45.7	44.1
87.5°	16.4	17.5	18.0	19.3	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)