

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: P489452

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-2LO-50-120-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: P489452  
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-LD4-2LO-50-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

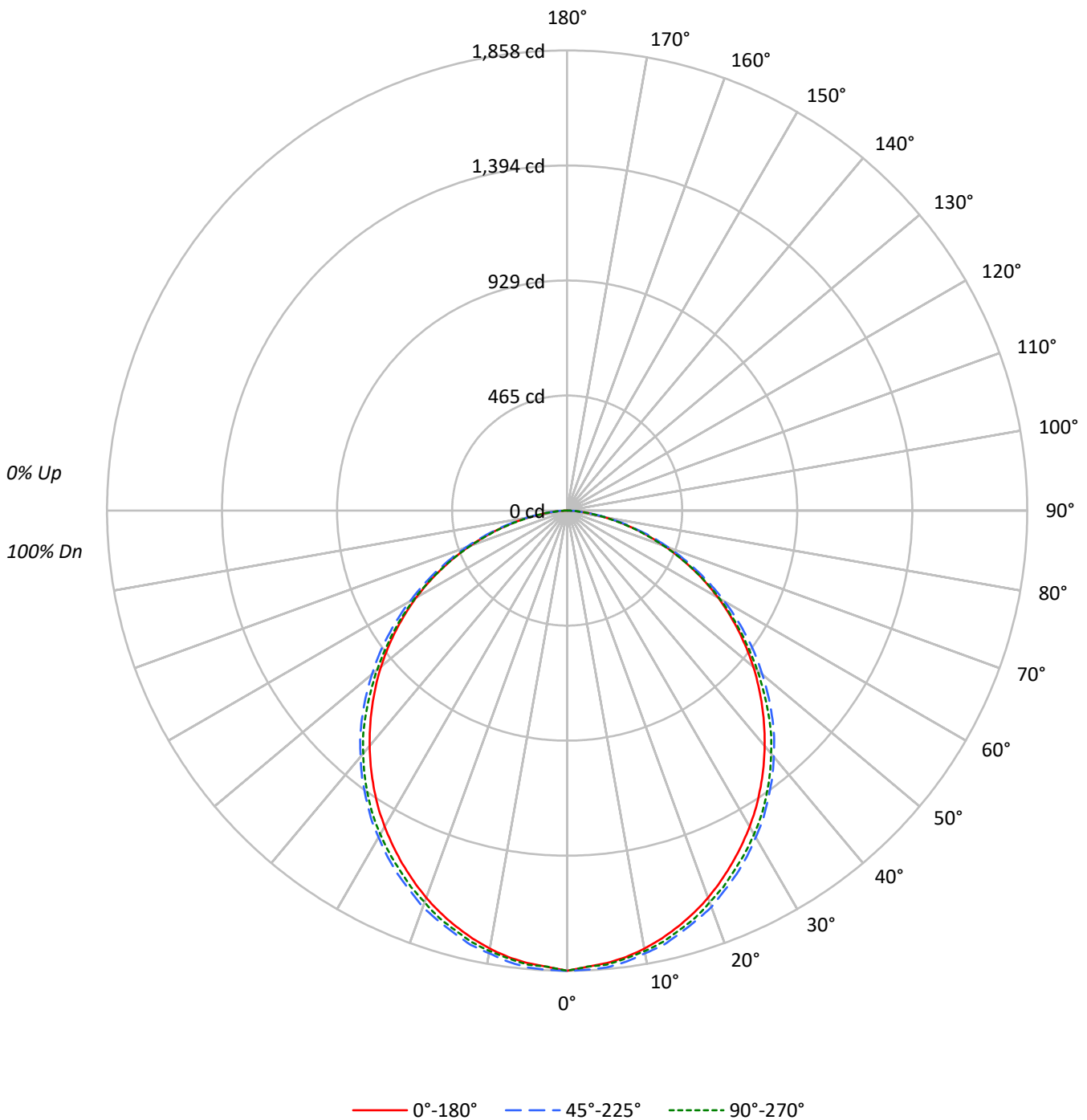
Lumens per Lamp: N/A  
Luminaire Lumens: 4885.5 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 46.8  
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	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°	2500	2500	2500
5°	2477	2500	2485
10°	2454	2479	2467
15°	2421	2460	2442
20°	2382	2439	2410
25°	2336	2404	2376
30°	2289	2366	2345
35°	2237	2326	2304
40°	2179	2279	2250
45°	2118	2225	2183
50°	2054	2153	2097
55°	1980	2072	2009
60°	1896	1974	1913
65°	1786	1855	1788
70°	1644	1710	1626
75°	1447	1513	1425
80°	1176	1227	1162
85°	818	872	852



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.0	3.6
10°-20°	495.9	10.2
20°-30°	739.7	15.1
30°-40°	876.5	17.9
40°-50°	886.9	18.2
50°-60°	774.6	15.9
60°-70°	566.0	11.6
70°-80°	301.2	6.2
80°-90°	69.6	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°	1410.6	28.9
0°-40°	2287.2	46.8
0°-60°	3948.7	80.8
0°-90°	4885.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4885.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1858	1858	1858	1858	1858	
5°	1834	1838	1851	1856	1840	174
15°	1738	1749	1766	1776	1753	490
25°	1574	1593	1619	1625	1601	725
35°	1362	1383	1416	1426	1403	852
45°	1113	1133	1169	1170	1147	859
55°	844	861	883	871	856	754
65°	561	572	583	571	562	555
75°	278	285	291	280	274	296
85°	53	54	56	57	55	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1858.3	1858.3	1858.3	1858.3	1858.3
2.5°	1843.7	1849.8	1855.9	1858.7	1843.6
5°	1834.1	1837.6	1851.3	1855.6	1839.9
7.5°	1818.2	1823.4	1836.8	1838.7	1823.6
10°	1796.5	1805.8	1814.7	1824.4	1806.0
12.5°	1768.8	1781.4	1796.5	1798.3	1784.3
15°	1737.7	1749.3	1765.7	1776.4	1753.3
17.5°	1702.8	1714.0	1735.3	1737.3	1723.3
20°	1663.9	1677.8	1703.4	1707.8	1682.9
22.5°	1619.7	1638.5	1659.8	1664.1	1645.7
25°	1573.5	1592.8	1619.2	1625.2	1600.6
27.5°	1525.1	1543.7	1573.3	1577.5	1556.8
30°	1473.2	1490.6	1523.1	1530.3	1509.2
32.5°	1420.5	1437.9	1474.0	1480.0	1459.4
35°	1362.0	1383.3	1416.1	1425.9	1402.9
37.5°	1302.4	1323.1	1360.3	1369.2	1344.4
40°	1240.7	1261.2	1297.8	1305.1	1281.3
42.5°	1177.5	1198.1	1237.2	1238.3	1218.6
45°	1113.1	1132.8	1169.2	1170.2	1147.1
47.5°	1047.6	1067.6	1100.1	1096.4	1074.7
50°	981.4	1000.4	1028.8	1021.5	1001.9
52.5°	912.9	931.3	958.2	946.2	927.8
55°	843.9	861.0	883.4	870.7	856.3
57.5°	774.4	791.7	808.9	795.9	783.5
60°	704.4	719.5	733.6	720.4	710.9
62.5°	633.1	646.1	658.3	645.7	636.8
65°	561.1	572.5	582.6	571.0	561.5
67.5°	489.4	499.1	508.4	496.4	486.5
70°	417.8	426.1	434.7	422.3	413.2
72.5°	347.1	354.5	362.1	350.0	342.1
75°	278.4	284.8	291.0	280.3	274.2
77.5°	212.8	218.2	222.5	215.7	209.7
80°	151.8	155.9	158.4	155.7	150.0
82.5°	97.6	100.5	101.8	101.6	98.0
85°	53.0	54.0	56.5	57.1	55.2
87.5°	20.5	21.9	22.5	24.2	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)