

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: P488984

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-4LO-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: P488984
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-A12125-LD4-4LO-50-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

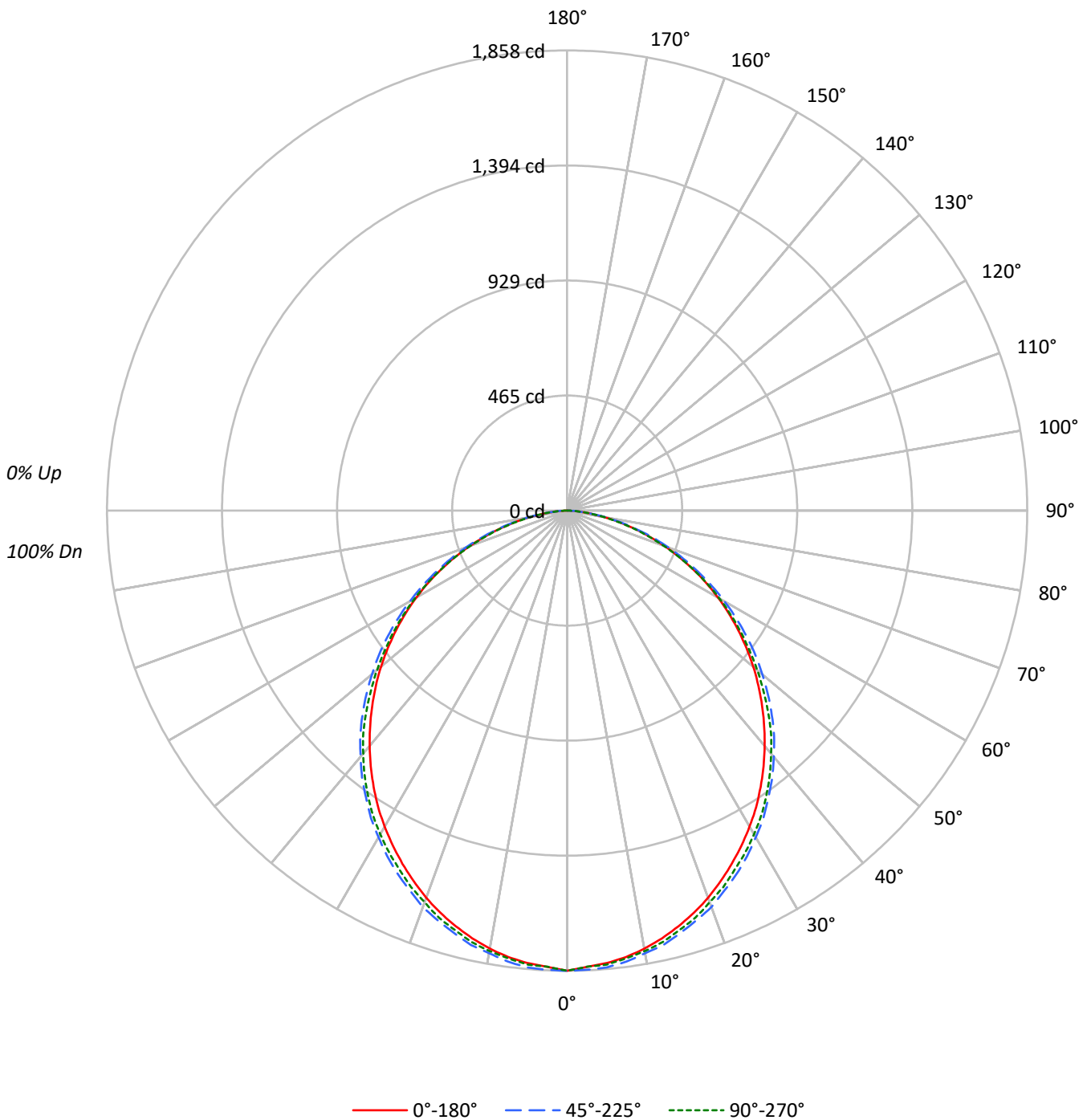
Lumens per Lamp: N/A
Luminaire Lumens: 4885.3 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	5000	5000	5000
5°	4954	5001	4970
10°	4909	4958	4935
15°	4841	4919	4885
20°	4765	4878	4819
25°	4672	4807	4752
30°	4577	4733	4689
35°	4474	4652	4608
40°	4358	4559	4501
45°	4236	4450	4365
50°	4109	4307	4194
55°	3959	4145	4017
60°	3791	3948	3826
65°	3573	3709	3575
70°	3287	3419	3250
75°	2895	3026	2850
80°	2352	2455	2325
85°	1636	1744	1704



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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°	774.5	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°	2287.1	46.8
0°-60°	3948.5	80.8
0°-90°	4885.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4885.3	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°	1573	1593	1619	1625	1600	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	582	571	561	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°	1858.2	1858.2	1858.2	1858.2	1858.2
2.5°	1843.7	1849.7	1855.9	1858.6	1843.5
5°	1834.0	1837.5	1851.2	1855.5	1839.8
7.5°	1818.1	1823.3	1836.7	1838.6	1823.5
10°	1796.4	1805.7	1814.6	1824.3	1805.9
12.5°	1768.8	1781.3	1796.4	1798.2	1784.2
15°	1737.6	1749.2	1765.7	1776.3	1753.3
17.5°	1702.7	1714.0	1735.3	1737.2	1723.3
20°	1663.8	1677.8	1703.3	1707.8	1682.8
22.5°	1619.7	1638.5	1659.8	1664.0	1645.6
25°	1573.4	1592.8	1619.1	1625.1	1600.5
27.5°	1525.0	1543.6	1573.2	1577.5	1556.8
30°	1473.1	1490.5	1523.1	1530.2	1509.1
32.5°	1420.5	1437.9	1473.9	1479.9	1459.4
35°	1362.0	1383.3	1416.0	1425.9	1402.8
37.5°	1302.4	1323.1	1360.2	1369.2	1344.4
40°	1240.6	1261.1	1297.7	1305.1	1281.3
42.5°	1177.5	1198.0	1237.1	1238.3	1218.5
45°	1113.0	1132.8	1169.2	1170.1	1147.1
47.5°	1047.6	1067.5	1100.0	1096.4	1074.7
50°	981.4	1000.3	1028.8	1021.4	1001.9
52.5°	912.8	931.2	958.1	946.1	927.7
55°	843.9	860.9	883.4	870.6	856.3
57.5°	774.4	791.6	808.9	795.9	783.5
60°	704.3	719.4	733.6	720.4	710.9
62.5°	633.1	646.1	658.2	645.7	636.8
65°	561.1	572.5	582.5	570.9	561.4
67.5°	489.4	499.1	508.4	496.4	486.5
70°	417.8	426.1	434.6	422.2	413.1
72.5°	347.1	354.5	362.0	350.0	342.1
75°	278.4	284.8	291.0	280.3	274.1
77.5°	212.8	218.2	222.4	215.7	209.7
80°	151.8	155.8	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)