

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: P488954

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-3STD-30-120-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: P488954
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-LD4-3STD-30-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

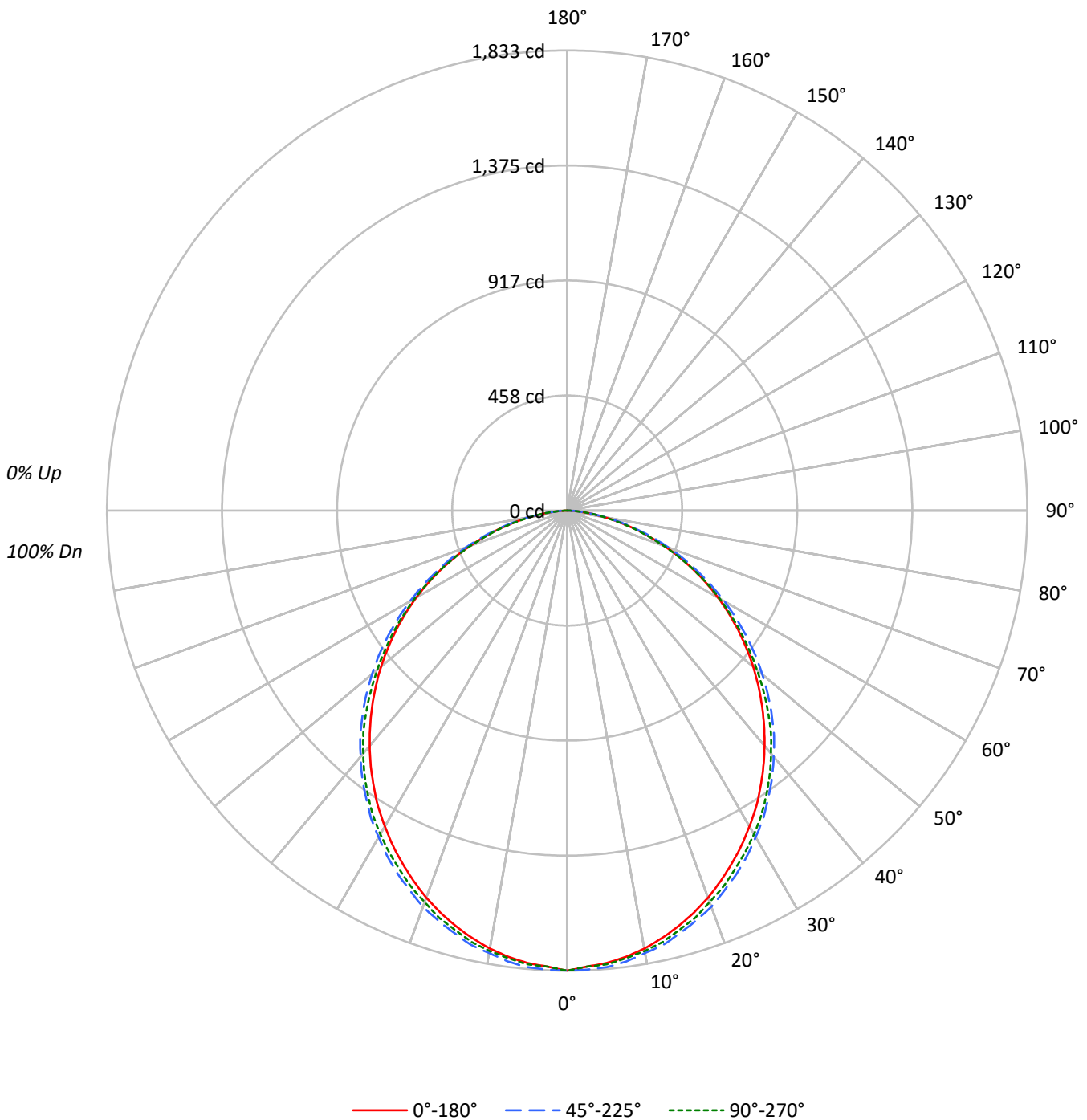
Lumens per Lamp: N/A
Luminaire Lumens: 4818.0 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	4931	4931	4931
5°	4886	4932	4901
10°	4841	4890	4867
15°	4774	4851	4817
20°	4699	4810	4753
25°	4607	4741	4687
30°	4514	4667	4625
35°	4413	4588	4545
40°	4298	4496	4439
45°	4177	4388	4305
50°	4052	4248	4137
55°	3905	4087	3962
60°	3738	3894	3773
65°	3523	3658	3526
70°	3242	3372	3206
75°	2855	2984	2811
80°	2320	2421	2294
85°	1615	1723	1680



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.6	3.6
10°-20°	489.1	10.2
20°-30°	729.5	15.1
30°-40°	864.4	17.9
40°-50°	874.7	18.2
50°-60°	763.9	15.9
60°-70°	558.2	11.6
70°-80°	297.0	6.2
80°-90°	68.6	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°	1391.1	28.9
0°-40°	2255.6	46.8
0°-60°	3894.1	80.8
0°-90°	4818.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4818.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1833	1833	1833	1833	1833	
5°	1809	1812	1826	1830	1814	172
15°	1714	1725	1741	1752	1729	483
25°	1552	1571	1597	1603	1578	715
35°	1343	1364	1396	1406	1384	840
45°	1098	1117	1153	1154	1131	847
55°	832	849	871	859	844	744
65°	553	565	574	563	554	548
75°	275	281	287	276	270	292
85°	52	53	56	56	54	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1832.6	1832.6	1832.6	1832.6	1832.6
2.5°	1818.3	1824.2	1830.3	1833.0	1818.1
5°	1808.7	1812.2	1825.7	1829.9	1814.5
7.5°	1793.1	1798.2	1811.4	1813.3	1798.4
10°	1771.7	1780.9	1789.6	1799.2	1781.0
12.5°	1744.4	1756.8	1771.7	1773.4	1759.7
15°	1713.6	1725.1	1741.3	1751.8	1729.1
17.5°	1679.3	1690.3	1711.4	1713.3	1699.5
20°	1640.9	1654.6	1679.8	1684.2	1659.6
22.5°	1597.4	1615.9	1636.9	1641.1	1622.9
25°	1551.7	1570.8	1596.8	1602.7	1578.5
27.5°	1504.0	1522.3	1551.5	1555.7	1535.3
30°	1452.8	1470.0	1502.1	1509.2	1488.3
32.5°	1400.9	1418.1	1453.6	1459.5	1439.3
35°	1343.2	1364.2	1396.5	1406.2	1383.5
37.5°	1284.4	1304.9	1341.5	1350.3	1325.9
40°	1223.5	1243.8	1279.8	1287.1	1263.6
42.5°	1161.3	1181.5	1220.1	1221.2	1201.7
45°	1097.7	1117.2	1153.1	1154.0	1131.3
47.5°	1033.2	1052.8	1084.9	1081.3	1059.9
50°	967.9	986.6	1014.6	1007.4	988.1
52.5°	900.3	918.4	944.9	933.1	915.0
55°	832.3	849.1	871.2	858.6	844.5
57.5°	763.7	780.7	797.7	784.9	772.7
60°	694.6	709.5	723.5	710.5	701.1
62.5°	624.4	637.2	649.2	636.8	628.0
65°	553.3	564.6	574.5	563.1	553.7
67.5°	482.7	492.2	501.4	489.6	479.8
70°	412.0	420.2	428.6	416.4	407.5
72.5°	342.3	349.6	357.0	345.2	337.4
75°	274.6	280.9	287.0	276.5	270.4
77.5°	209.8	215.2	219.4	212.7	206.8
80°	149.7	153.7	156.2	153.5	148.0
82.5°	96.2	99.1	100.4	100.2	96.6
85°	52.3	53.3	55.8	56.3	54.4
87.5°	20.2	21.6	22.1	23.9	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)