

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: P489011

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-5LO-20-120-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: P489011
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-LD4-5LO-20-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

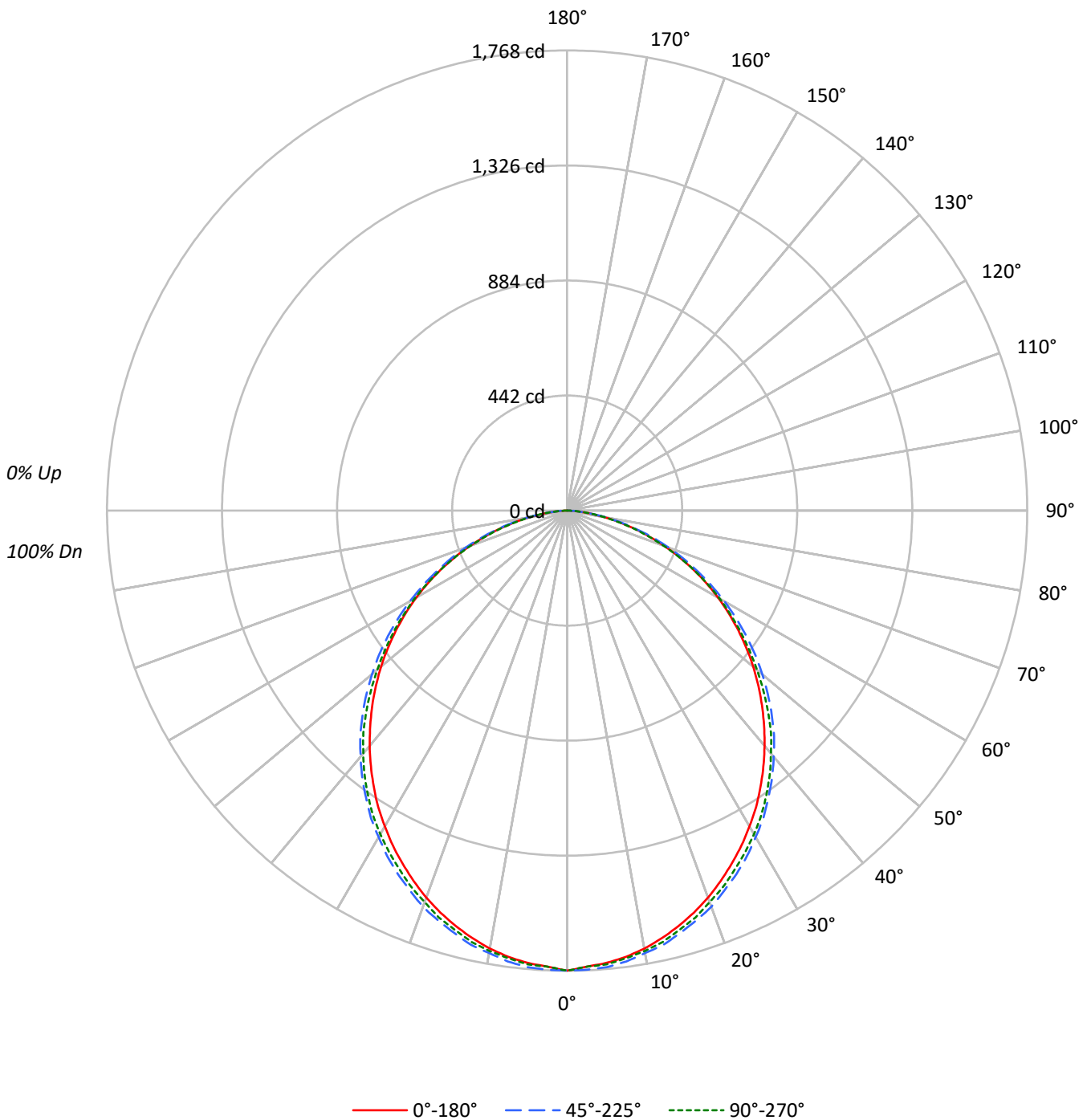
Lumens per Lamp: N/A
Luminaire Lumens: 4646.9 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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°	4756	4756	4756
5°	4712	4757	4727
10°	4669	4717	4694
15°	4605	4679	4646
20°	4532	4640	4584
25°	4444	4573	4520
30°	4354	4502	4460
35°	4256	4425	4384
40°	4145	4336	4281
45°	4029	4232	4152
50°	3908	4097	3990
55°	3766	3942	3821
60°	3606	3756	3639
65°	3398	3528	3400
70°	3127	3253	3092
75°	2753	2878	2712
80°	2238	2334	2211
85°	1559	1661	1621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.5	3.6
10°-20°	471.7	10.2
20°-30°	703.6	15.1
30°-40°	833.7	17.9
40°-50°	843.6	18.2
50°-60°	736.8	15.9
60°-70°	538.4	11.6
70°-80°	286.5	6.2
80°-90°	66.2	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°	1341.7	28.9
0°-40°	2175.5	46.8
0°-60°	3755.8	80.8
0°-90°	4646.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4646.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1768	1768	1768	1768	1768	
5°	1744	1748	1761	1765	1750	165
15°	1653	1664	1680	1690	1668	466
25°	1497	1515	1540	1546	1522	689
35°	1296	1316	1347	1356	1334	810
45°	1059	1078	1112	1113	1091	817
55°	803	819	840	828	814	718
65°	534	544	554	543	534	528
75°	265	271	277	267	261	282
85°	50	51	54	54	52	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1767.5	1767.5	1767.5	1767.5	1767.5
2.5°	1753.7	1759.4	1765.3	1767.9	1753.5
5°	1744.5	1747.8	1760.9	1764.9	1750.0
7.5°	1729.4	1734.4	1747.1	1748.9	1734.6
10°	1708.8	1717.6	1726.1	1735.3	1717.8
12.5°	1682.4	1694.4	1708.8	1710.4	1697.2
15°	1652.8	1663.8	1679.5	1689.6	1667.7
17.5°	1619.6	1630.3	1650.6	1652.4	1639.2
20°	1582.6	1595.9	1620.2	1624.4	1600.7
22.5°	1540.6	1558.5	1578.8	1582.8	1565.3
25°	1496.6	1515.0	1540.1	1545.8	1522.4
27.5°	1450.6	1468.3	1496.4	1500.5	1480.8
30°	1401.2	1417.8	1448.7	1455.6	1435.5
32.5°	1351.1	1367.7	1402.0	1407.7	1388.2
35°	1295.5	1315.8	1346.9	1356.3	1334.4
37.5°	1238.8	1258.5	1293.9	1302.3	1278.8
40°	1180.1	1199.6	1234.4	1241.4	1218.7
42.5°	1120.0	1139.5	1176.7	1177.9	1159.1
45°	1058.7	1077.5	1112.1	1113.0	1091.1
47.5°	996.5	1015.4	1046.4	1042.9	1022.2
50°	933.5	951.5	978.6	971.6	953.0
52.5°	868.3	885.8	911.4	900.0	882.5
55°	802.7	818.9	840.3	828.1	814.5
57.5°	736.6	753.0	769.4	757.1	745.3
60°	670.0	684.3	697.8	685.2	676.2
62.5°	602.2	614.5	626.1	614.2	605.7
65°	533.7	544.5	554.1	543.1	534.0
67.5°	465.5	474.8	483.6	472.2	462.8
70°	397.4	405.3	413.4	401.6	393.0
72.5°	330.2	337.2	344.4	333.0	325.4
75°	264.8	270.9	276.8	266.7	260.8
77.5°	202.4	207.5	211.6	205.1	199.4
80°	144.4	148.2	150.6	148.1	142.7
82.5°	92.8	95.6	96.9	96.7	93.2
85°	50.5	51.4	53.8	54.3	52.5
87.5°	19.5	20.8	21.4	23.0	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)