

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: P488952

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-3STD-27-120-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: P488952
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-27-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

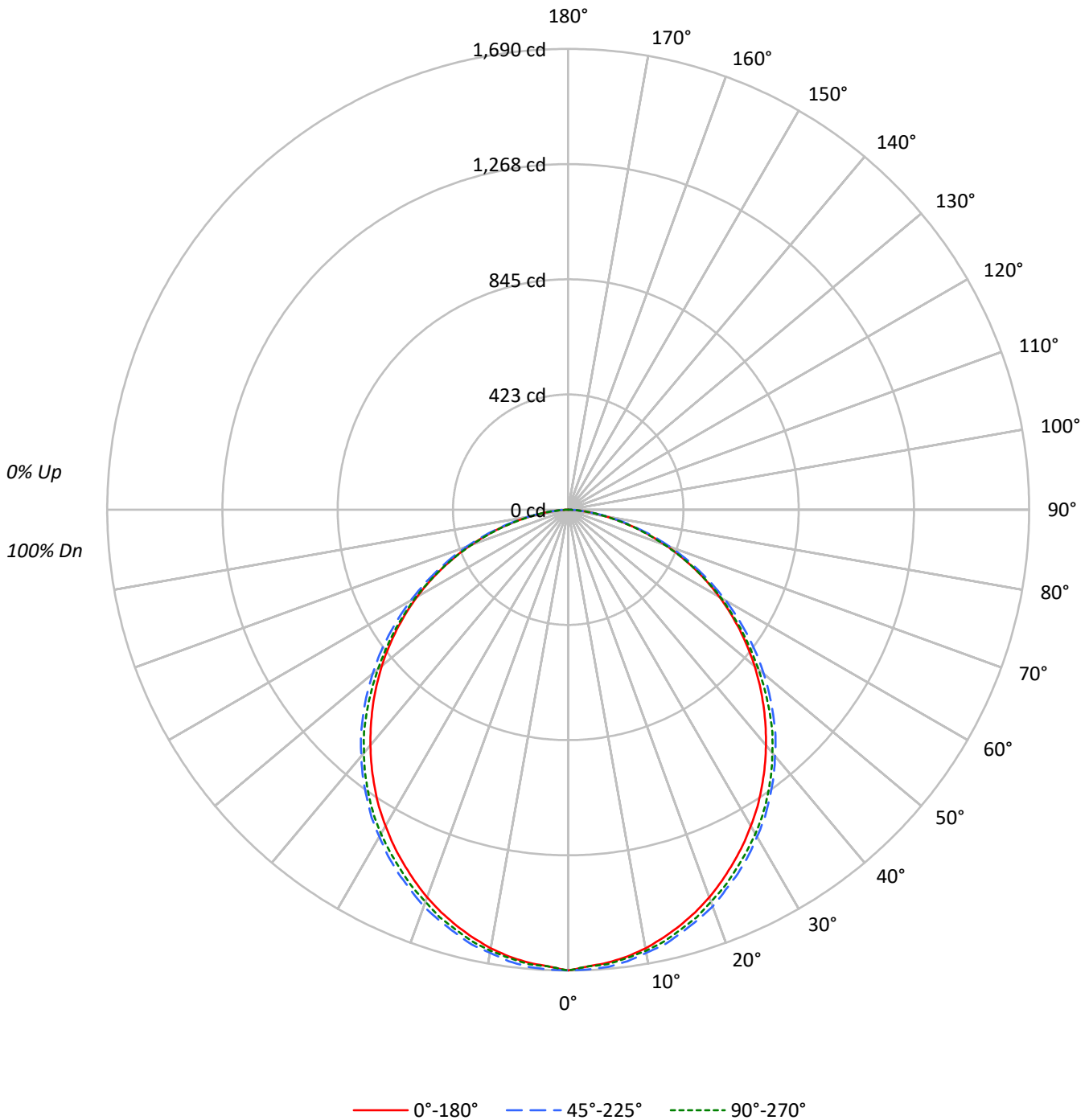
Lumens per Lamp: N/A
Luminaire Lumens: 4441.7 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P488952

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-3STD-27-120-EDD-90

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°	4546	4546	4546
5°	4504	4546	4518
10°	4463	4508	4486
15°	4401	4472	4441
20°	4332	4435	4381
25°	4247	4371	4321
30°	4162	4303	4263
35°	4068	4229	4190
40°	3962	4145	4092
45°	3851	4045	3969
50°	3736	3916	3813
55°	3600	3768	3652
60°	3447	3589	3479
65°	3248	3373	3251
70°	2989	3109	2955
75°	2632	2751	2591
80°	2139	2232	2114
85°	1488	1587	1550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.1	3.6
10°-20°	450.9	10.2
20°-30°	672.5	15.1
30°-40°	796.9	17.9
40°-50°	806.4	18.2
50°-60°	704.2	15.9
60°-70°	514.6	11.6
70°-80°	273.8	6.2
80°-90°	63.3	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°	1282.5	28.9
0°-40°	2079.4	46.8
0°-60°	3590.0	80.8
0°-90°	4441.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4441.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1690	1690	1690	1690	1690	
5°	1668	1671	1683	1687	1673	158
15°	1580	1590	1605	1615	1594	445
25°	1430	1448	1472	1478	1455	659
35°	1238	1258	1287	1296	1276	774
45°	1012	1030	1063	1064	1043	781
55°	767	783	803	792	778	686
65°	510	520	530	519	510	505
75°	253	259	265	255	249	269
85°	48	49	51	52	50	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1689.5	1689.5	1689.5	1689.5	1689.5
2.5°	1676.3	1681.7	1687.4	1689.8	1676.1
5°	1667.5	1670.6	1683.1	1687.0	1672.7
7.5°	1653.0	1657.8	1669.9	1671.7	1658.0
10°	1633.3	1641.8	1649.9	1658.7	1641.9
12.5°	1608.1	1619.6	1633.3	1634.9	1622.2
15°	1579.8	1590.4	1605.3	1615.0	1594.1
17.5°	1548.1	1558.3	1577.7	1579.5	1566.8
20°	1512.7	1525.4	1548.6	1552.7	1530.0
22.5°	1472.6	1489.7	1509.0	1512.9	1496.2
25°	1430.5	1448.1	1472.1	1477.5	1455.2
27.5°	1386.5	1403.4	1430.4	1434.2	1415.4
30°	1339.4	1355.2	1384.8	1391.3	1372.1
32.5°	1291.5	1307.3	1340.1	1345.5	1326.9
35°	1238.3	1257.7	1287.4	1296.4	1275.5
37.5°	1184.1	1202.9	1236.7	1244.8	1222.3
40°	1128.0	1146.6	1179.9	1186.6	1164.9
42.5°	1070.6	1089.2	1124.8	1125.8	1107.9
45°	1012.0	1029.9	1063.0	1063.9	1042.9
47.5°	952.5	970.6	1000.2	996.8	977.1
50°	892.3	909.5	935.4	928.7	910.9
52.5°	829.9	846.7	871.1	860.2	843.5
55°	767.3	782.8	803.2	791.6	778.5
57.5°	704.1	719.8	735.4	723.6	712.4
60°	640.4	654.1	666.9	655.0	646.4
62.5°	575.6	587.4	598.5	587.0	578.9
65°	510.1	520.5	529.7	519.1	510.5
67.5°	445.0	453.8	462.2	451.3	442.3
70°	379.9	387.4	395.2	383.9	375.6
72.5°	315.6	322.3	329.2	318.2	311.0
75°	253.1	258.9	264.6	254.9	249.2
77.5°	193.4	198.4	202.2	196.1	190.6
80°	138.0	141.7	144.0	141.5	136.4
82.5°	88.7	91.4	92.6	92.4	89.1
85°	48.2	49.1	51.4	51.9	50.2
87.5°	18.7	19.9	20.4	22.0	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)