

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: P488882

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-1STD-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: P488882
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-LD4-1STD-30-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

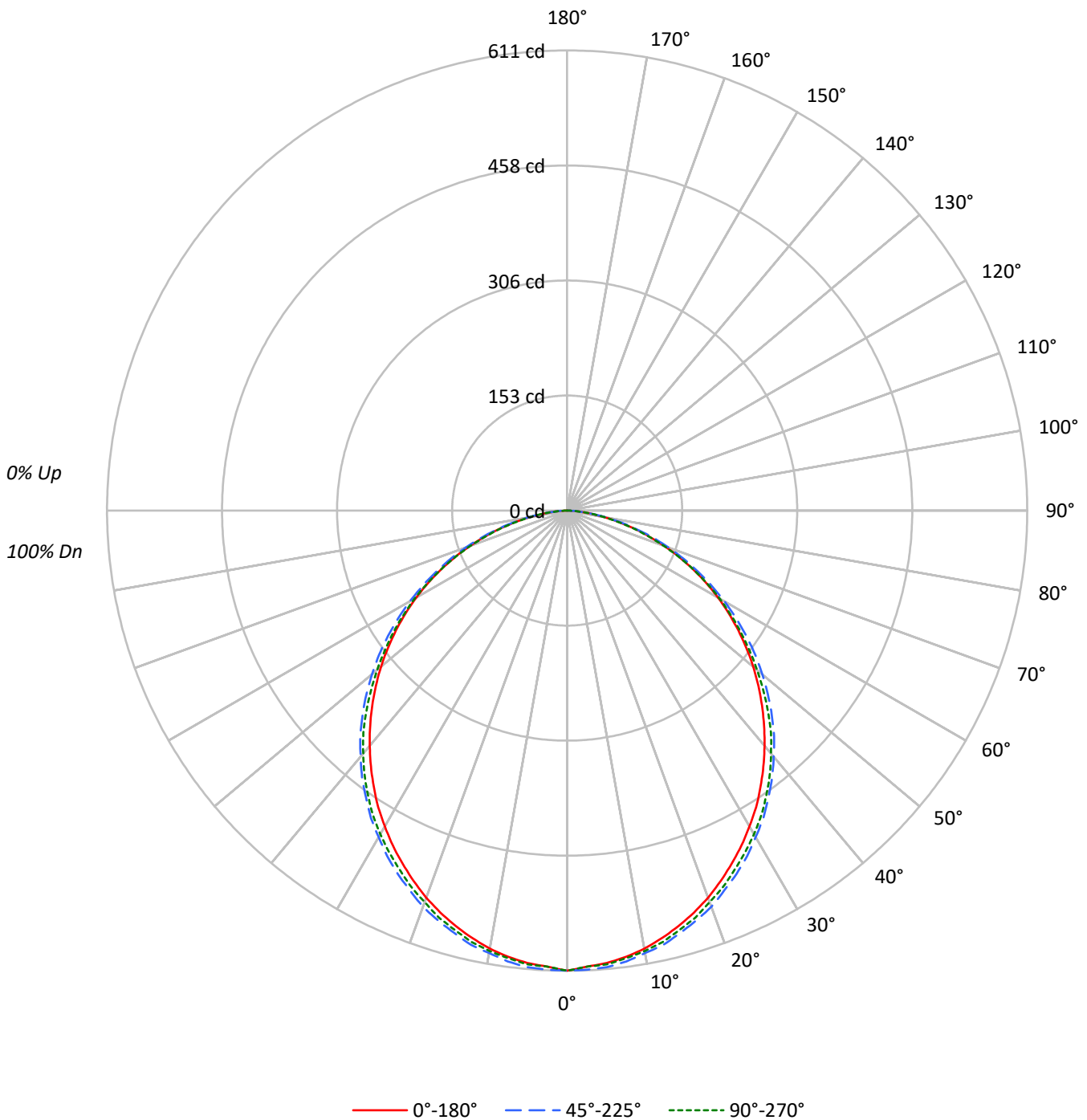
Lumens per Lamp: N/A
Luminaire Lumens: 1606.0 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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: P488882

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-1STD-30-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P488882

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-1STD-30-120-EDD-90

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°	1644	1644	1644
5°	1629	1644	1634
10°	1614	1630	1622
15°	1591	1617	1606
20°	1566	1603	1584
25°	1536	1580	1562
30°	1505	1556	1542
35°	1471	1529	1515
40°	1433	1499	1480
45°	1392	1463	1435
50°	1351	1416	1379
55°	1301	1362	1321
60°	1246	1298	1258
65°	1174	1219	1175
70°	1080	1124	1068
75°	951	995	937
80°	773	807	764
85°	537	574	559



TEST NUMBER: P488882

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-1STD-30-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.5	3.6
10°-20°	163.0	10.2
20°-30°	243.2	15.1
30°-40°	288.1	17.9
40°-50°	291.6	18.2
50°-60°	254.6	15.9
60°-70°	186.1	11.6
70°-80°	99.0	6.2
80°-90°	22.9	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°	463.7	28.9
0°-40°	751.9	46.8
0°-60°	1298.0	80.8
0°-90°	1606.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1606.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	611	611	611	611	611	
5°	603	604	609	610	605	57
15°	571	575	580	584	576	161
25°	517	524	532	534	526	238
35°	448	455	466	469	461	280
45°	366	372	384	385	377	282
55°	277	283	290	286	282	248
65°	184	188	192	188	185	182
75°	92	94	96	92	90	97
85°	17	18	19	19	18	22
90°	0	0	0	0	0	



TEST NUMBER: P488882

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-1STD-30-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	610.9	610.9	610.9	610.9	610.9
2.5°	606.1	608.1	610.1	611.0	606.0
5°	602.9	604.1	608.6	610.0	604.8
7.5°	597.7	599.4	603.8	604.4	599.5
10°	590.6	593.6	596.5	599.7	593.7
12.5°	581.5	585.6	590.6	591.1	586.6
15°	571.2	575.0	580.4	583.9	576.4
17.5°	559.8	563.4	570.5	571.1	566.5
20°	547.0	551.5	559.9	561.4	553.2
22.5°	532.5	538.6	545.6	547.0	541.0
25°	517.2	523.6	532.3	534.2	526.2
27.5°	501.3	507.4	517.2	518.6	511.8
30°	484.3	490.0	500.7	503.1	496.1
32.5°	467.0	472.7	484.5	486.5	479.8
35°	447.7	454.7	465.5	468.7	461.2
37.5°	428.1	435.0	447.2	450.1	442.0
40°	407.8	414.6	426.6	429.0	421.2
42.5°	387.1	393.8	406.7	407.1	400.6
45°	365.9	372.4	384.4	384.7	377.1
47.5°	344.4	350.9	361.6	360.4	353.3
50°	322.6	328.9	338.2	335.8	329.4
52.5°	300.1	306.1	315.0	311.0	305.0
55°	277.4	283.0	290.4	286.2	281.5
57.5°	254.6	260.2	265.9	261.6	257.6
60°	231.5	236.5	241.2	236.8	233.7
62.5°	208.1	212.4	216.4	212.3	209.3
65°	184.4	188.2	191.5	187.7	184.6
67.5°	160.9	164.1	167.1	163.2	159.9
70°	137.3	140.1	142.9	138.8	135.8
72.5°	114.1	116.5	119.0	115.1	112.5
75°	91.5	93.6	95.7	92.2	90.1
77.5°	69.9	71.7	73.1	70.9	68.9
80°	49.9	51.2	52.1	51.2	49.3
82.5°	32.1	33.0	33.5	33.4	32.2
85°	17.4	17.8	18.6	18.8	18.1
87.5°	6.7	7.2	7.4	8.0	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)