

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: P488879

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-1STD-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: P488879
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-20-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

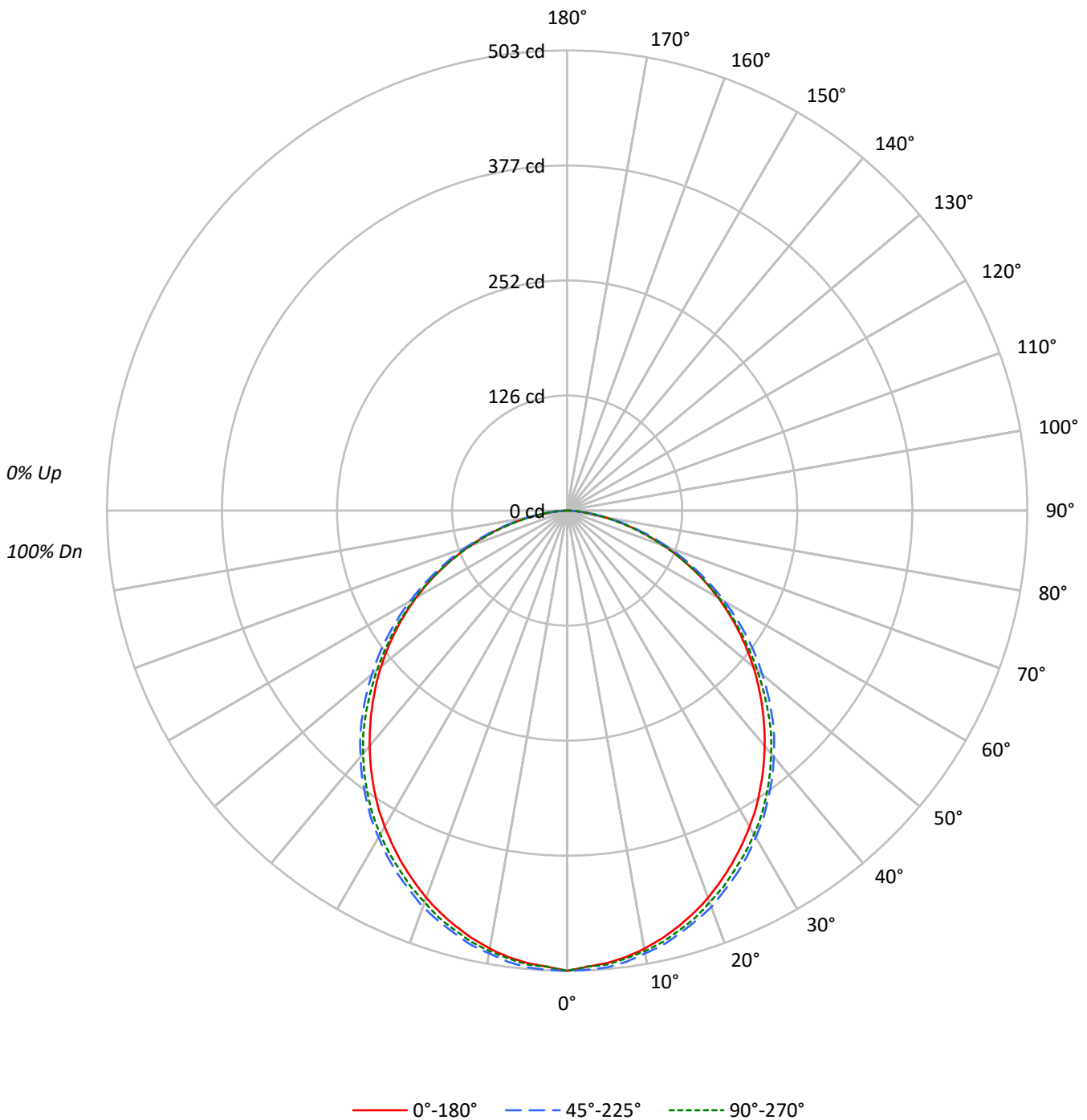
Lumens per Lamp: N/A
Luminaire Lumens: 1322.6 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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: P488879

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-1STD-20-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P488879

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-1STD-20-120-EDD

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	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°	1354	1354	1354
5°	1341	1354	1345
10°	1329	1342	1336
15°	1310	1332	1322
20°	1290	1320	1305
25°	1265	1301	1287
30°	1239	1281	1270
35°	1211	1259	1248
40°	1180	1234	1219
45°	1147	1204	1182
50°	1112	1166	1135
55°	1072	1122	1088
60°	1026	1069	1036
65°	967	1004	968
70°	890	926	880
75°	784	819	771
80°	637	665	629
85°	445	472	460



TEST NUMBER: P488879

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-1STD-20-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.4	3.6
10°-20°	134.3	10.2
20°-30°	200.2	15.1
30°-40°	237.3	17.9
40°-50°	240.1	18.2
50°-60°	209.7	15.9
60°-70°	153.2	11.6
70°-80°	81.5	6.2
80°-90°	18.8	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°	381.9	28.9
0°-40°	619.2	46.8
0°-60°	1069.0	80.8
0°-90°	1322.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1322.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	503	503	503	503	503	
5°	496	498	501	502	498	47
15°	470	474	478	481	475	133
25°	426	431	438	440	433	196
35°	369	374	383	386	380	231
45°	301	307	316	317	311	232
55°	228	233	239	236	232	204
65°	152	155	158	155	152	150
75°	75	77	79	76	74	80
85°	14	15	15	16	15	18
90°	0	0	0	0	0	



TEST NUMBER: P488879

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-1STD-20-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	503.1	503.1	503.1	503.1	503.1
2.5°	499.1	500.8	502.4	503.2	499.1
5°	496.5	497.5	501.2	502.3	498.1
7.5°	492.2	493.6	497.3	497.8	493.7
10°	486.3	488.9	491.3	493.9	488.9
12.5°	478.9	482.3	486.3	486.8	483.0
15°	470.4	473.6	478.0	480.9	474.7
17.5°	461.0	464.0	469.8	470.3	466.5
20°	450.4	454.2	461.1	462.3	455.6
22.5°	438.5	443.6	449.3	450.5	445.5
25°	426.0	431.2	438.3	440.0	433.3
27.5°	412.9	417.9	425.9	427.1	421.5
30°	398.8	403.5	412.3	414.3	408.6
32.5°	384.6	389.3	399.0	400.7	395.1
35°	368.7	374.5	383.4	386.0	379.8
37.5°	352.6	358.2	368.3	370.7	364.0
40°	335.9	341.4	351.3	353.3	346.9
42.5°	318.8	324.3	334.9	335.2	329.9
45°	301.3	306.7	316.5	316.8	310.6
47.5°	283.6	289.0	297.8	296.8	291.0
50°	265.7	270.8	278.5	276.5	271.2
52.5°	247.1	252.1	259.4	256.1	251.2
55°	228.5	233.1	239.2	235.7	231.8
57.5°	209.7	214.3	219.0	215.5	212.1
60°	190.7	194.8	198.6	195.0	192.5
62.5°	171.4	174.9	178.2	174.8	172.4
65°	151.9	155.0	157.7	154.6	152.0
67.5°	132.5	135.1	137.6	134.4	131.7
70°	113.1	115.4	117.7	114.3	111.9
72.5°	94.0	96.0	98.0	94.8	92.6
75°	75.4	77.1	78.8	75.9	74.2
77.5°	57.6	59.1	60.2	58.4	56.8
80°	41.1	42.2	42.9	42.1	40.6
82.5°	26.4	27.2	27.6	27.5	26.5
85°	14.4	14.6	15.3	15.5	14.9
87.5°	5.6	5.9	6.1	6.6	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)