

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: P489004

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-5HI-35-120-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: P489004
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-LD4-5HI-35-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

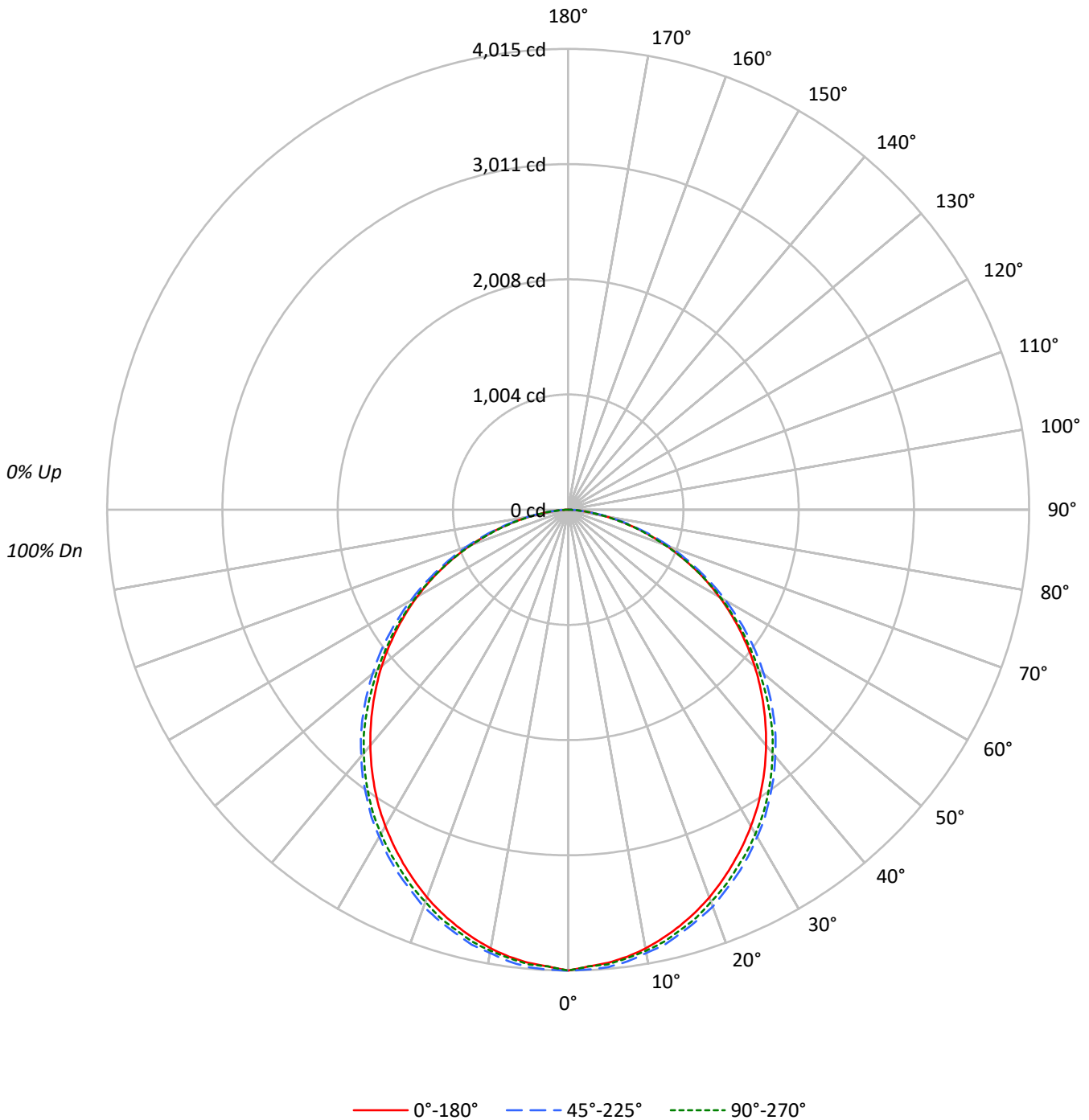
Lumens per Lamp: N/A
Luminaire Lumens: 10556.4 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 108
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: P489004

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-5HI-35-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P489004

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-5HI-35-120-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°	10805	10805	10805
5°	10705	10806	10739
10°	10607	10715	10663
15°	10460	10629	10554
20°	10296	10540	10413
25°	10095	10388	10269
30°	9891	10226	10133
35°	9668	10052	9958
40°	9417	9851	9726
45°	9153	9615	9433
50°	8878	9307	9063
55°	8556	8956	8681
60°	8191	8531	8268
65°	7720	8015	7725
70°	7103	7390	7024
75°	6255	6538	6159
80°	5083	5303	5024
85°	3538	3773	3680



TEST NUMBER: P489004

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-5HI-35-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.2	3.6
10°-20°	1071.6	10.2
20°-30°	1598.3	15.1
30°-40°	1894.0	17.9
40°-50°	1916.4	18.2
50°-60°	1673.7	15.9
60°-70°	1223.1	11.6
70°-80°	650.8	6.2
80°-90°	150.4	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
<hr/>		
0°-30°	3048.1	28.9
0°-40°	4942.0	46.8
0°-60°	8532.1	80.8
0°-90°	10556.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10556.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4015	4015	4015	4015	4015	
5°	3963	3970	4000	4009	3976	376
15°	3755	3780	3815	3838	3788	1058
25°	3400	3442	3499	3512	3458	1566
35°	2943	2989	3060	3081	3031	1841
45°	2405	2448	2526	2528	2479	1855
55°	1824	1860	1909	1881	1850	1630
65°	1212	1237	1259	1234	1213	1200
75°	602	615	629	606	592	640
85°	115	117	122	123	119	145
90°	0	0	0	0	0	



TEST NUMBER: P489004

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-5HI-35-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4015.3	4015.3	4015.3	4015.3	4015.3
2.5°	3983.9	3996.9	4010.3	4016.1	3983.5
5°	3963.0	3970.5	4000.2	4009.4	3975.5
7.5°	3928.7	3940.0	3968.8	3973.0	3940.4
10°	3881.8	3901.9	3921.2	3942.1	3902.3
12.5°	3822.0	3849.2	3881.8	3885.6	3855.5
15°	3754.6	3779.8	3815.3	3838.3	3788.5
17.5°	3679.3	3703.6	3749.6	3753.8	3723.7
20°	3595.3	3625.4	3680.6	3690.2	3636.3
22.5°	3499.9	3540.5	3586.5	3595.7	3555.9
25°	3399.9	3441.7	3498.6	3511.6	3458.5
27.5°	3295.3	3335.5	3399.5	3408.7	3363.9
30°	3183.2	3220.8	3291.1	3306.6	3261.0
32.5°	3069.4	3107.1	3184.9	3197.8	3153.5
35°	2943.1	2989.1	3059.8	3081.1	3031.3
37.5°	2814.2	2859.0	2939.3	2958.5	2905.0
40°	2680.8	2725.1	2804.2	2820.1	2768.6
42.5°	2544.4	2588.7	2673.2	2675.7	2633.1
45°	2405.1	2447.7	2526.4	2528.5	2478.7
47.5°	2263.7	2306.8	2377.0	2369.1	2322.2
50°	2120.6	2161.6	2223.1	2207.2	2164.9
52.5°	1972.5	2012.2	2070.4	2044.5	2004.7
55°	1823.6	1860.4	1908.9	1881.3	1850.3
57.5°	1673.4	1710.6	1747.8	1719.8	1693.0
60°	1521.9	1554.6	1585.1	1556.7	1536.2
62.5°	1368.0	1396.0	1422.4	1395.2	1375.9
65°	1212.4	1237.0	1258.8	1233.7	1213.2
67.5°	1057.6	1078.5	1098.6	1072.6	1051.3
70°	902.8	920.8	939.2	912.4	892.7
72.5°	750.1	766.0	782.3	756.4	739.2
75°	601.6	615.4	628.8	605.8	592.4
77.5°	459.8	471.5	480.7	466.0	453.1
80°	328.0	336.8	342.2	336.3	324.2
82.5°	210.8	217.1	220.0	219.6	211.7
85°	114.6	116.7	122.2	123.4	119.2
87.5°	44.3	47.3	48.5	52.3	48.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)