

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: P489031

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-5STD-40-120-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: P489031
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-LD4-5STD-40-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

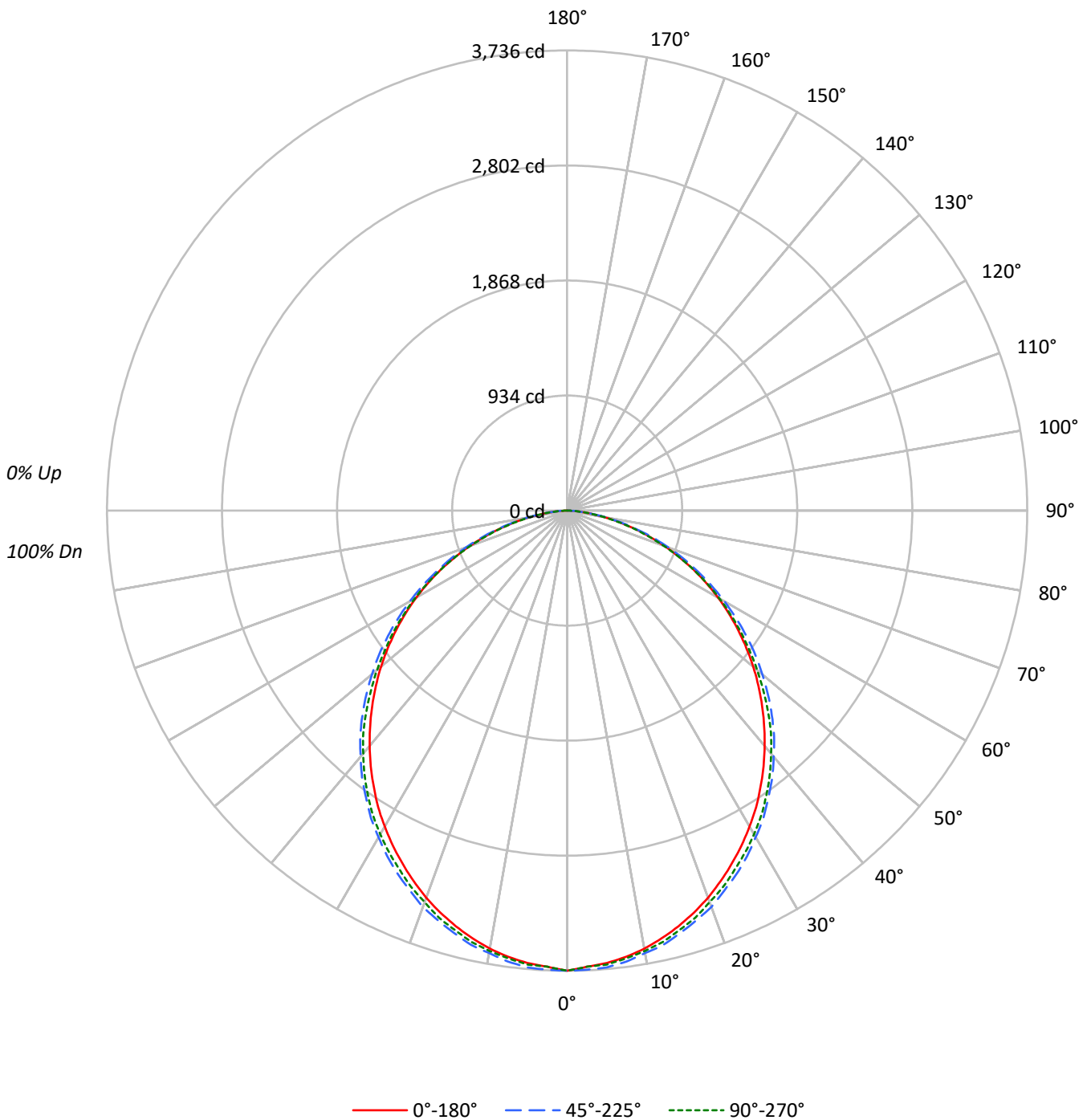
Lumens per Lamp: N/A
Luminaire Lumens: 9822.1 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 83.2
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: P489031

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-5STD-40-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P489031

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-5STD-40-120-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	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°	10053	10053	10053
5°	9960	10054	9992
10°	9869	9969	9921
15°	9733	9890	9820
20°	9580	9807	9689
25°	9393	9666	9554
30°	9203	9515	9428
35°	8996	9352	9266
40°	8762	9165	9049
45°	8516	8946	8777
50°	8260	8660	8433
55°	7960	8333	8077
60°	7621	7938	7692
65°	7182	7457	7188
70°	6609	6876	6535
75°	5819	6082	5731
80°	4730	4934	4675
85°	3294	3511	3424



TEST NUMBER: P489031

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-5STD-40-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.9	3.6
10°-20°	997.1	10.2
20°-30°	1487.1	15.1
30°-40°	1762.2	17.9
40°-50°	1783.1	18.2
50°-60°	1557.3	15.9
60°-70°	1138.0	11.6
70°-80°	605.5	6.2
80°-90°	140.0	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°	2836.0	28.9
0°-40°	4598.3	46.8
0°-60°	7938.7	80.8
0°-90°	9822.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9822.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3736	3736	3736	3736	3736	
5°	3687	3694	3722	3730	3699	350
15°	3494	3517	3550	3571	3525	985
25°	3163	3202	3255	3267	3218	1457
35°	2738	2781	2847	2867	2820	1712
45°	2238	2278	2351	2353	2306	1726
55°	1697	1731	1776	1750	1722	1517
65°	1128	1151	1171	1148	1129	1116
75°	560	573	585	564	551	595
85°	107	109	114	115	111	135
90°	0	0	0	0	0	



TEST NUMBER: P489031

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-5STD-40-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3736.0	3736.0	3736.0	3736.0	3736.0
2.5°	3706.8	3718.9	3731.3	3736.8	3706.4
5°	3687.3	3694.3	3722.0	3730.5	3699.0
7.5°	3655.4	3665.9	3692.8	3696.7	3666.3
10°	3611.8	3630.5	3648.4	3667.9	3630.9
12.5°	3556.1	3581.4	3611.8	3615.3	3587.3
15°	3493.5	3516.8	3549.9	3571.3	3525.0
17.5°	3423.4	3446.0	3488.8	3492.7	3464.7
20°	3345.2	3373.2	3424.6	3433.5	3383.3
22.5°	3256.4	3294.2	3337.0	3345.6	3308.6
25°	3163.4	3202.3	3255.3	3267.3	3217.9
27.5°	3066.1	3103.5	3163.0	3171.6	3129.9
30°	2961.8	2996.8	3062.2	3076.6	3034.2
32.5°	2855.9	2890.9	2963.3	2975.4	2934.1
35°	2738.3	2781.2	2846.9	2866.8	2820.5
37.5°	2618.5	2660.1	2734.8	2752.7	2702.9
40°	2494.3	2535.5	2609.1	2623.9	2576.0
42.5°	2367.4	2408.7	2487.3	2489.6	2449.9
45°	2237.8	2277.5	2350.7	2352.6	2306.3
47.5°	2106.2	2146.3	2211.7	2204.3	2160.7
50°	1973.1	2011.2	2068.5	2053.7	2014.3
52.5°	1835.3	1872.3	1926.4	1902.2	1865.3
55°	1696.7	1731.0	1776.1	1750.4	1721.6
57.5°	1557.0	1591.6	1626.3	1600.2	1575.3
60°	1416.1	1446.4	1474.9	1448.4	1429.3
62.5°	1272.8	1298.9	1323.4	1298.1	1280.2
65°	1128.0	1151.0	1171.2	1147.9	1128.8
67.5°	984.0	1003.5	1022.2	998.0	978.2
70°	840.0	856.7	873.9	848.9	830.6
72.5°	697.9	712.7	727.9	703.8	687.8
75°	559.7	572.6	585.0	563.6	551.2
77.5°	427.8	438.7	447.2	433.6	421.6
80°	305.2	313.3	318.4	313.0	301.7
82.5°	196.2	202.0	204.7	204.4	197.0
85°	106.7	108.6	113.7	114.8	110.9
87.5°	41.3	44.0	45.2	48.7	44.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)