

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: P489033

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-5STD-50-120-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: P489033
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-50-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

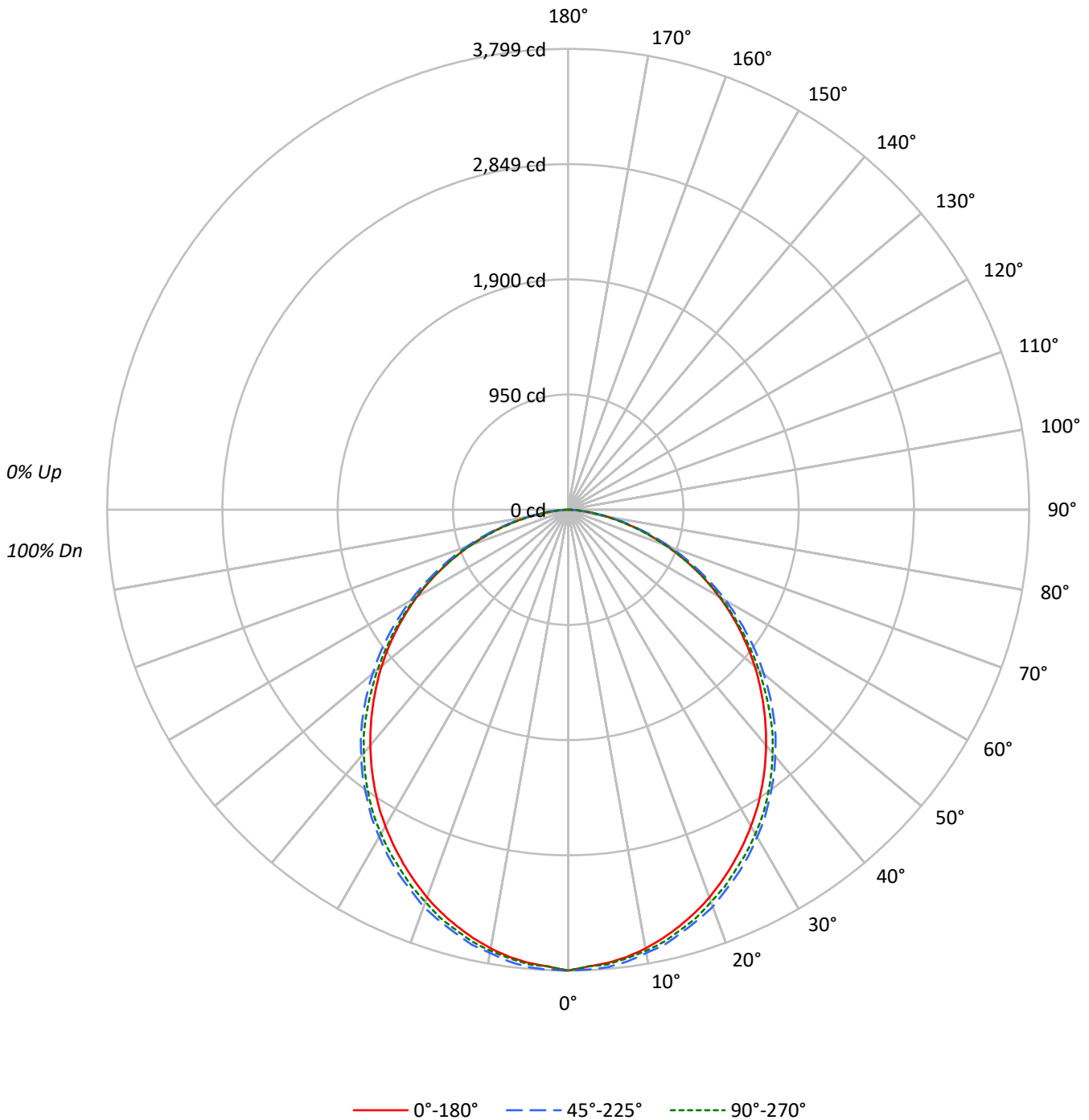
Lumens per Lamp: N/A
Luminaire Lumens: 9988.7 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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: P489033

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-5STD-50-120-EDD

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°	10224	10224	10224
5°	10129	10225	10161
10°	10037	10138	10090
15°	9897	10057	9987
20°	9742	9973	9853
25°	9552	9829	9717
30°	9359	9676	9588
35°	9148	9511	9423
40°	8911	9321	9203
45°	8660	9097	8926
50°	8400	8806	8576
55°	8095	8474	8214
60°	7751	8072	7823
65°	7305	7584	7310
70°	6721	6992	6646
75°	5918	6186	5828
80°	4809	5018	4754
85°	3350	3569	3483



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.8	3.6
10°-20°	1014.0	10.2
20°-30°	1512.3	15.1
30°-40°	1792.1	17.9
40°-50°	1813.3	18.2
50°-60°	1583.7	15.9
60°-70°	1157.3	11.6
70°-80°	615.8	6.2
80°-90°	142.3	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°	2884.1	28.9
0°-40°	4676.3	46.8
0°-60°	8073.3	80.8
0°-90°	9988.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9988.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3799	3799	3799	3799	3799	
5°	3750	3757	3785	3794	3762	356
15°	3553	3576	3610	3632	3585	1002
25°	3217	3257	3310	3323	3272	1482
35°	2785	2828	2895	2915	2868	1742
45°	2276	2316	2390	2392	2345	1756
55°	1726	1760	1806	1780	1751	1542
65°	1147	1170	1191	1167	1148	1135
75°	569	582	595	573	560	605
85°	108	110	116	117	113	137
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3799.3	3799.3	3799.3	3799.3	3799.3
2.5°	3769.7	3781.9	3794.6	3800.1	3769.3
5°	3749.9	3757.0	3785.1	3793.8	3761.7
7.5°	3717.4	3728.1	3755.4	3759.4	3728.5
10°	3673.1	3692.1	3710.3	3730.1	3692.5
12.5°	3616.5	3642.2	3673.1	3676.6	3648.1
15°	3552.7	3576.5	3610.1	3631.9	3584.8
17.5°	3481.5	3504.4	3548.0	3551.9	3523.4
20°	3401.9	3430.4	3482.7	3491.8	3440.7
22.5°	3311.7	3350.1	3393.6	3402.3	3364.7
25°	3217.1	3256.6	3310.5	3322.7	3272.5
27.5°	3118.1	3156.1	3216.7	3225.4	3183.0
30°	3012.0	3047.6	3114.1	3128.8	3085.6
32.5°	2904.3	2940.0	3013.6	3025.9	2983.9
35°	2784.8	2828.3	2895.2	2915.4	2868.3
37.5°	2662.9	2705.2	2781.2	2799.4	2748.8
40°	2536.6	2578.6	2653.4	2668.4	2619.7
42.5°	2407.5	2449.5	2529.5	2531.8	2491.5
45°	2275.7	2316.1	2390.5	2392.5	2345.4
47.5°	2141.9	2182.7	2249.2	2241.7	2197.4
50°	2006.6	2045.3	2103.5	2088.5	2048.5
52.5°	1866.4	1904.0	1959.1	1934.5	1896.9
55°	1725.5	1760.3	1806.3	1780.1	1750.8
57.5°	1583.4	1618.6	1653.9	1627.3	1602.0
60°	1440.1	1471.0	1499.9	1472.9	1453.6
62.5°	1294.4	1320.9	1345.9	1320.2	1301.9
65°	1147.2	1170.5	1191.1	1167.4	1148.0
67.5°	1000.7	1020.5	1039.5	1015.0	994.8
70°	854.2	871.3	888.7	863.3	844.7
72.5°	709.8	724.8	740.2	715.7	699.5
75°	569.2	582.3	595.0	573.2	560.5
77.5°	435.0	446.1	454.8	441.0	428.7
80°	310.3	318.7	323.8	318.3	306.8
82.5°	199.5	205.4	208.2	207.8	200.3
85°	108.5	110.4	115.6	116.8	112.8
87.5°	42.0	44.7	45.9	49.5	45.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)