

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: P489495

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-3STD-30-120-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: P489495
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-24-4-INS-A12125-LD4-3STD-30-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

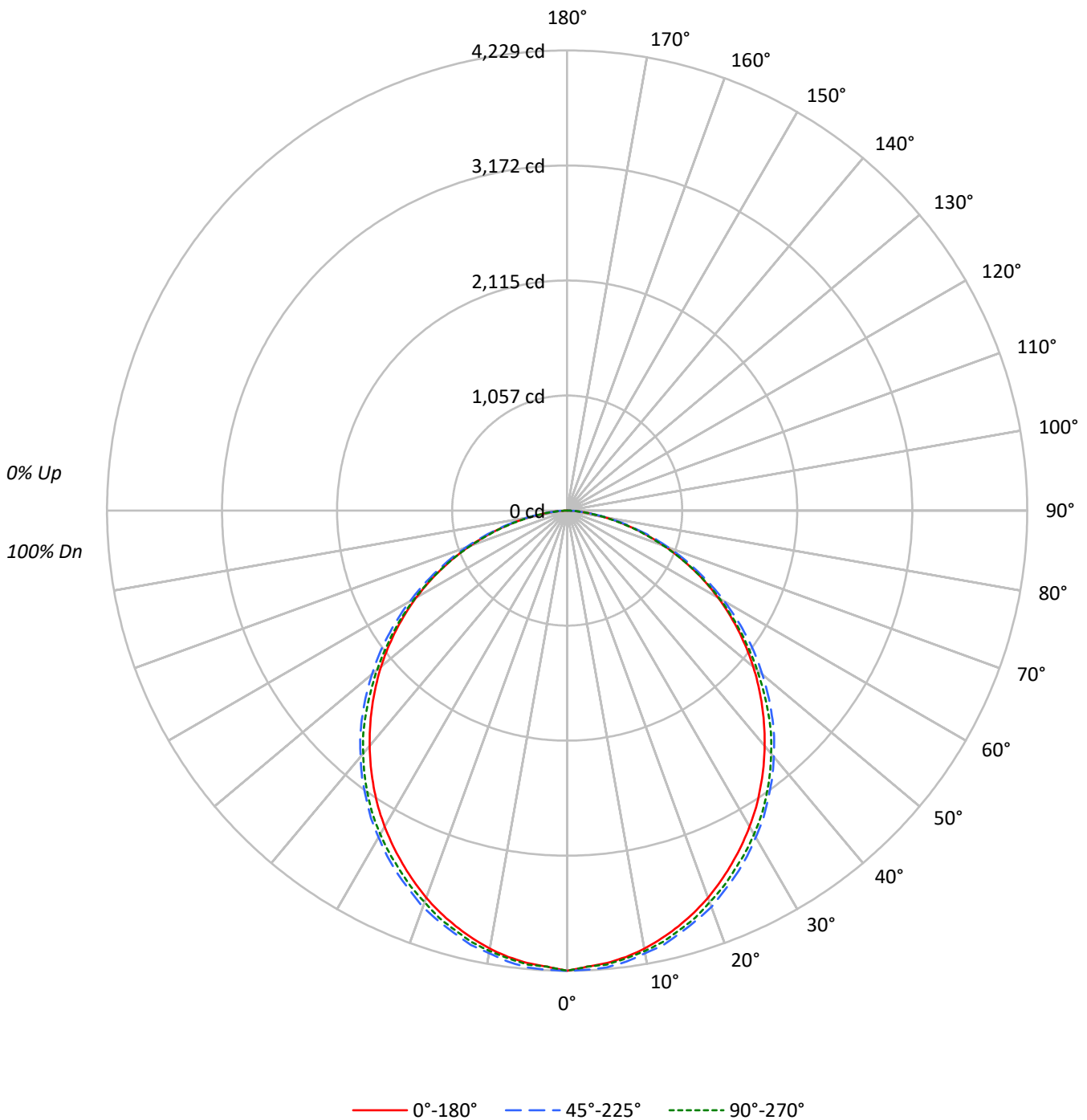
Lumens per Lamp: N/A
Luminaire Lumens: 11119.0 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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

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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°	5690	5690	5690
5°	5638	5691	5656
10°	5586	5643	5616
15°	5509	5598	5558
20°	5422	5551	5484
25°	5316	5471	5408
30°	5209	5386	5336
35°	5092	5294	5244
40°	4959	5188	5122
45°	4820	5063	4968
50°	4675	4901	4773
55°	4506	4716	4572
60°	4314	4493	4354
65°	4066	4221	4068
70°	3741	3891	3699
75°	3294	3443	3243
80°	2677	2793	2646
85°	1863	1987	1939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.3	3.6
10°-20°	1128.7	10.2
20°-30°	1683.5	15.1
30°-40°	1994.9	17.9
40°-50°	2018.5	18.2
50°-60°	1762.9	15.9
60°-70°	1288.3	11.6
70°-80°	685.5	6.2
80°-90°	158.4	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
0°-30°	3210.5	28.9
0°-40°	5205.4	46.8
0°-60°	8986.9	80.8
0°-90°	11119.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11119.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4229	4229	4229	4229	4229	
5°	4174	4182	4213	4223	4187	396
15°	3955	3981	4019	4043	3990	1115
25°	3581	3625	3685	3699	3643	1650
35°	3100	3148	3223	3245	3193	1939
45°	2533	2578	2661	2663	2611	1954
55°	1921	1960	2011	1982	1949	1717
65°	1277	1303	1326	1300	1278	1264
75°	634	648	662	638	624	674
85°	121	123	129	130	126	153
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4229.3	4229.3	4229.3	4229.3	4229.3
2.5°	4196.2	4209.9	4224.0	4230.2	4195.8
5°	4174.2	4182.1	4213.4	4223.1	4187.4
7.5°	4138.1	4150.0	4180.4	4184.8	4150.4
10°	4088.7	4109.9	4130.1	4152.2	4110.3
12.5°	4025.7	4054.3	4088.7	4092.7	4060.9
15°	3954.8	3981.2	4018.6	4042.9	3990.4
17.5°	3875.4	3901.0	3949.5	3953.9	3922.1
20°	3786.9	3818.6	3876.8	3886.9	3830.1
22.5°	3686.4	3729.1	3777.6	3787.3	3745.4
25°	3581.1	3625.2	3685.1	3698.7	3642.8
27.5°	3470.9	3513.2	3580.6	3590.3	3543.2
30°	3352.8	3392.5	3466.5	3482.8	3434.8
32.5°	3233.0	3272.6	3354.6	3368.3	3321.6
35°	3099.9	3148.4	3222.8	3245.3	3192.9
37.5°	2964.2	3011.3	3095.9	3116.2	3059.8
40°	2823.6	2870.3	2953.6	2970.4	2916.2
42.5°	2680.0	2726.7	2815.7	2818.3	2773.4
45°	2533.2	2578.2	2661.0	2663.2	2610.8
47.5°	2384.3	2429.7	2503.7	2495.3	2446.0
50°	2233.6	2276.8	2341.6	2324.8	2280.3
52.5°	2077.6	2119.5	2180.7	2153.4	2111.6
55°	1920.8	1959.5	2010.6	1981.6	1949.0
57.5°	1762.6	1801.8	1841.0	1811.5	1783.3
60°	1603.1	1637.4	1669.6	1639.6	1618.0
62.5°	1440.9	1470.4	1498.2	1469.5	1449.3
65°	1277.0	1303.0	1325.9	1299.5	1277.9
67.5°	1113.9	1136.0	1157.1	1129.8	1107.3
70°	950.9	969.9	989.2	961.0	940.3
72.5°	790.1	806.8	824.0	796.7	778.6
75°	633.6	648.2	662.3	638.0	623.9
77.5°	484.3	496.6	506.3	490.9	477.2
80°	345.5	354.7	360.4	354.3	341.5
82.5°	222.1	228.7	231.8	231.3	223.0
85°	120.7	122.9	128.7	130.0	125.6
87.5°	46.7	49.8	51.1	55.1	50.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)