

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: P489526

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-4STD-20-120-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: P489526
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-LD4-4STD-20-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

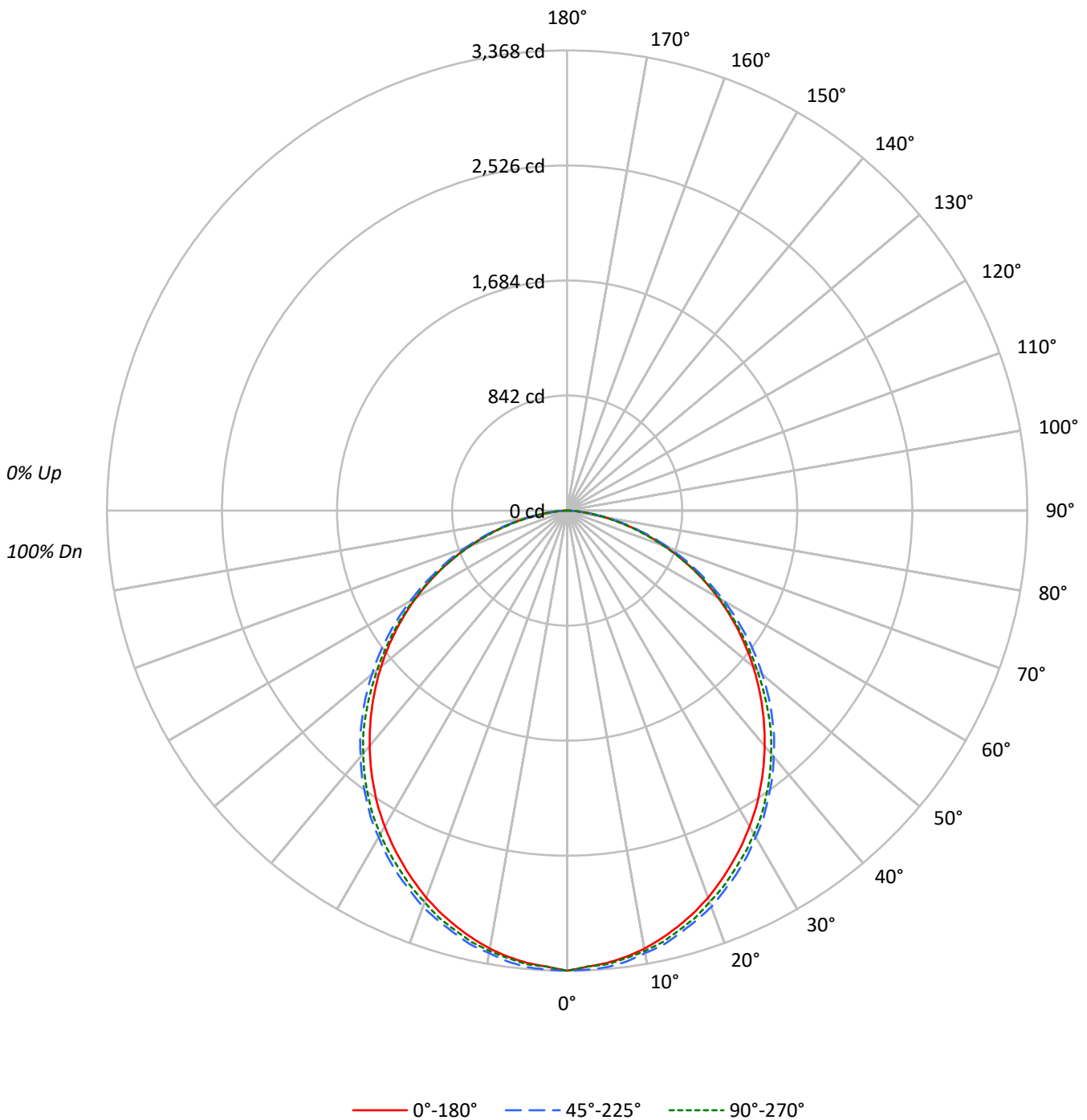
Lumens per Lamp: N/A
Luminaire Lumens: 8853.7 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
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: P489526

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4STD-20-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P489526

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4STD-20-120-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°	4531	4531	4531
5°	4489	4531	4503
10°	4448	4493	4472
15°	4386	4457	4426
20°	4318	4420	4367
25°	4233	4356	4306
30°	4148	4289	4249
35°	4054	4215	4176
40°	3949	4131	4078
45°	3838	4032	3956
50°	3723	3903	3801
55°	3588	3756	3640
60°	3435	3577	3467
65°	3237	3361	3239
70°	2979	3099	2946
75°	2623	2742	2583
80°	2132	2224	2107
85°	1484	1582	1544



TEST NUMBER: P489526

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4STD-20-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.2	3.6
10°-20°	898.8	10.2
20°-30°	1340.5	15.1
30°-40°	1588.5	17.9
40°-50°	1607.3	18.2
50°-60°	1403.7	15.9
60°-70°	1025.8	11.6
70°-80°	545.8	6.2
80°-90°	126.1	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°	2556.4	28.9
0°-40°	4144.9	46.8
0°-60°	7155.9	80.8
0°-90°	8853.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8853.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3368	3368	3368	3368	3368	
5°	3324	3330	3355	3363	3334	315
15°	3149	3170	3200	3219	3178	888
25°	2852	2887	2934	2945	2901	1314
35°	2468	2507	2566	2584	2542	1544
45°	2017	2053	2119	2121	2079	1556
55°	1529	1560	1601	1578	1552	1367
65°	1017	1038	1056	1035	1018	1006
75°	504	516	527	508	497	536
85°	96	98	102	104	100	122
90°	0	0	0	0	0	



TEST NUMBER: P489526

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4STD-20-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3367.6	3367.6	3367.6	3367.6	3367.6
2.5°	3341.3	3352.2	3363.4	3368.3	3341.0
5°	3323.8	3330.1	3355.0	3362.7	3334.3
7.5°	3295.0	3304.5	3328.7	3332.2	3304.8
10°	3255.7	3272.5	3288.7	3306.2	3272.9
12.5°	3205.5	3228.3	3255.7	3258.9	3233.6
15°	3149.0	3170.1	3199.9	3219.2	3177.5
17.5°	3085.9	3106.2	3144.8	3148.3	3123.1
20°	3015.4	3040.6	3086.9	3095.0	3049.7
22.5°	2935.4	2969.4	3008.0	3015.7	2982.4
25°	2851.5	2886.6	2934.3	2945.2	2900.6
27.5°	2763.8	2797.5	2851.2	2858.9	2821.3
30°	2669.8	2701.3	2760.3	2773.3	2735.0
32.5°	2574.3	2605.9	2671.2	2682.0	2644.8
35°	2468.4	2507.0	2566.2	2584.1	2542.4
37.5°	2360.3	2397.8	2465.2	2481.3	2436.4
40°	2248.4	2285.6	2351.9	2365.2	2322.0
42.5°	2134.0	2171.2	2242.0	2244.2	2208.4
45°	2017.1	2052.9	2118.9	2120.6	2078.9
47.5°	1898.5	1934.7	1993.6	1987.0	1947.7
50°	1778.6	1812.9	1864.5	1851.2	1815.7
52.5°	1654.3	1687.7	1736.4	1714.7	1681.4
55°	1529.4	1560.3	1601.0	1577.9	1551.9
57.5°	1403.5	1434.7	1465.9	1442.4	1420.0
60°	1276.5	1303.8	1329.4	1305.6	1288.4
62.5°	1147.3	1170.8	1193.0	1170.1	1154.0
65°	1016.8	1037.5	1055.8	1034.7	1017.5
67.5°	887.0	904.5	921.4	899.6	881.7
70°	757.2	772.3	787.7	765.2	748.8
72.5°	629.1	642.4	656.1	634.4	620.0
75°	504.5	516.1	527.4	508.1	496.8
77.5°	385.6	395.4	403.1	390.9	380.0
80°	275.1	282.4	287.0	282.1	271.9
82.5°	176.8	182.1	184.6	184.2	177.5
85°	96.1	97.9	102.5	103.5	100.0
87.5°	37.2	39.6	40.7	43.9	40.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)