

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: P489553

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5LO-27-120-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: P489553
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-LD4-5LO-27-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

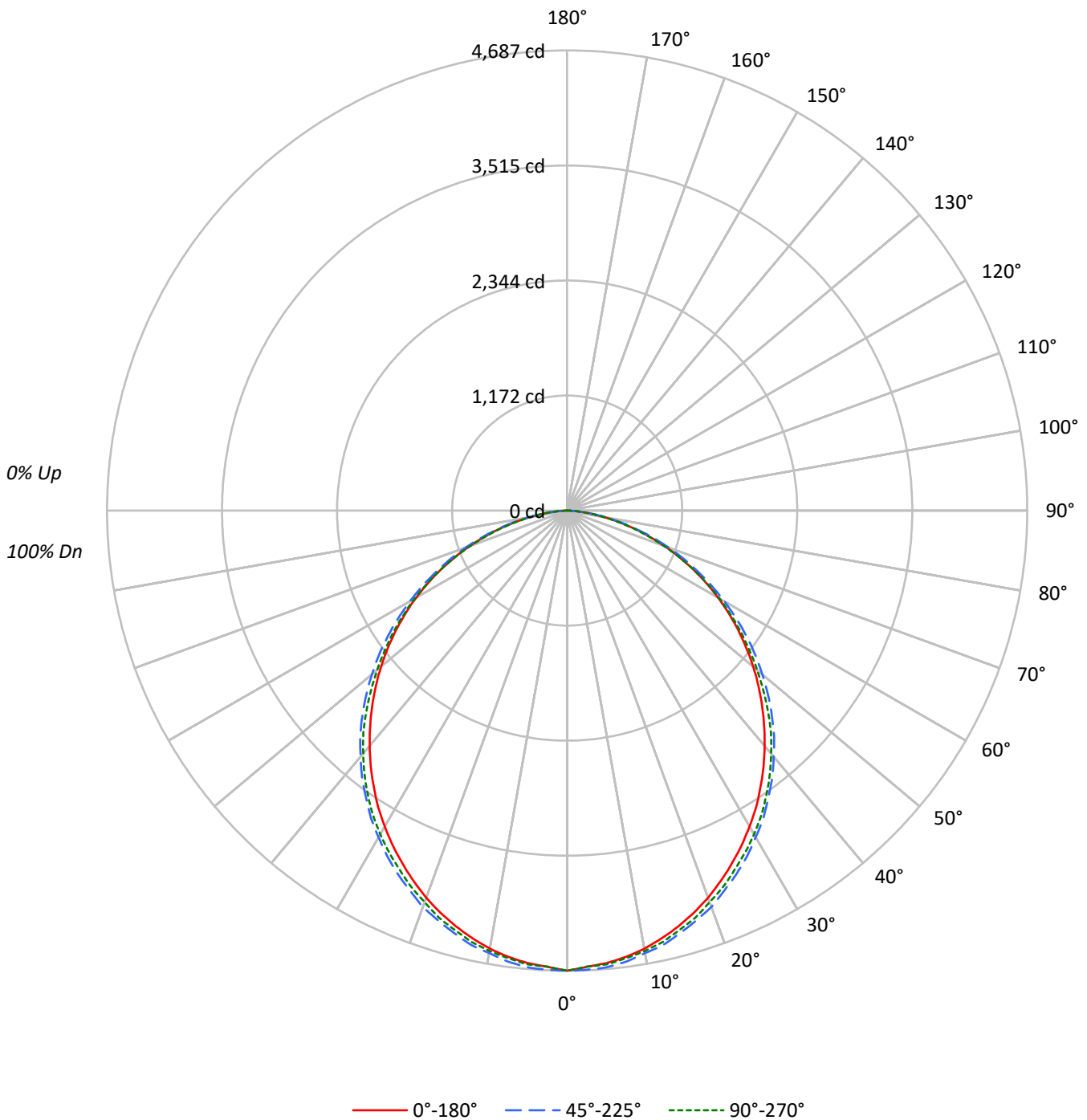
Lumens per Lamp: N/A
Luminaire Lumens: 12321.7 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 117
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: P489553

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-5LO-27-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P489553

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-5LO-27-120-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°	6306	6306	6306
5°	6248	6306	6267
10°	6190	6253	6223
15°	6105	6203	6160
20°	6009	6151	6077
25°	5891	6063	5993
30°	5773	5968	5914
35°	5642	5866	5812
40°	5496	5749	5676
45°	5342	5611	5505
50°	5181	5431	5290
55°	4993	5227	5066
60°	4780	4979	4825
65°	4505	4678	4508
70°	4146	4312	4099
75°	3650	3815	3594
80°	2966	3095	2932
85°	2066	2201	2149



TEST NUMBER: P489553

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-5LO-27-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.4	3.6
10°-20°	1250.8	10.2
20°-30°	1865.5	15.1
30°-40°	2210.7	17.9
40°-50°	2236.9	18.2
50°-60°	1953.6	15.9
60°-70°	1427.6	11.6
70°-80°	759.6	6.2
80°-90°	175.6	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°	3557.8	28.9
0°-40°	5768.5	46.8
0°-60°	9958.9	80.8
0°-90°	12321.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12321.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4687	4687	4687	4687	4687	
5°	4626	4634	4669	4680	4640	439
15°	4382	4412	4453	4480	4422	1235
25°	3968	4017	4084	4099	4037	1828
35°	3435	3489	3572	3596	3538	2148
45°	2807	2857	2949	2951	2893	2166
55°	2128	2172	2228	2196	2160	1903
65°	1415	1444	1469	1440	1416	1400
75°	702	718	734	707	691	747
85°	134	136	143	144	139	169
90°	0	0	0	0	0	



TEST NUMBER: P489553

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-5LO-27-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4686.7	4686.7	4686.7	4686.7	4686.7
2.5°	4650.1	4665.3	4680.9	4687.7	4649.6
5°	4625.7	4634.5	4669.2	4679.9	4640.3
7.5°	4585.7	4598.8	4632.5	4637.4	4599.3
10°	4531.0	4554.4	4576.9	4601.3	4554.9
12.5°	4461.1	4492.9	4531.0	4535.4	4500.2
15°	4382.5	4411.8	4453.3	4480.2	4422.1
17.5°	4294.6	4323.0	4376.7	4381.5	4346.4
20°	4196.5	4231.6	4296.1	4307.3	4244.3
22.5°	4085.1	4132.5	4186.2	4197.0	4150.6
25°	3968.4	4017.3	4083.7	4098.8	4036.8
27.5°	3846.4	3893.2	3968.0	3978.7	3926.4
30°	3715.5	3759.4	3841.5	3859.6	3806.3
32.5°	3582.7	3626.6	3717.5	3732.6	3680.8
35°	3435.2	3488.9	3571.5	3596.4	3538.2
37.5°	3284.8	3337.1	3430.8	3453.3	3390.8
40°	3129.0	3180.8	3273.1	3291.7	3231.6
42.5°	2969.9	3021.6	3120.3	3123.2	3073.4
45°	2807.3	2857.1	2948.9	2951.3	2893.2
47.5°	2642.2	2692.5	2774.5	2765.3	2710.6
50°	2475.2	2523.1	2594.8	2576.3	2527.0
52.5°	2302.4	2348.7	2416.6	2386.3	2339.9
55°	2128.5	2171.5	2228.1	2195.9	2159.8
57.5°	1953.2	1996.7	2040.1	2007.4	1976.2
60°	1776.4	1814.5	1850.2	1817.0	1793.1
62.5°	1596.8	1629.5	1660.2	1628.5	1606.0
65°	1415.1	1443.9	1469.3	1440.0	1416.1
67.5°	1234.4	1258.8	1282.3	1252.0	1227.1
70°	1053.8	1074.8	1096.2	1065.0	1042.0
72.5°	875.5	894.1	913.1	882.9	862.8
75°	702.2	718.3	733.9	707.1	691.4
77.5°	536.6	550.3	561.1	544.0	528.8
80°	382.8	393.1	399.4	392.6	378.4
82.5°	246.1	253.4	256.8	256.4	247.1
85°	133.8	136.2	142.6	144.0	139.2
87.5°	51.8	55.2	56.6	61.0	56.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)