

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: P489512

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-4HI-50-120-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: P489512
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-LD4-4HI-50-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

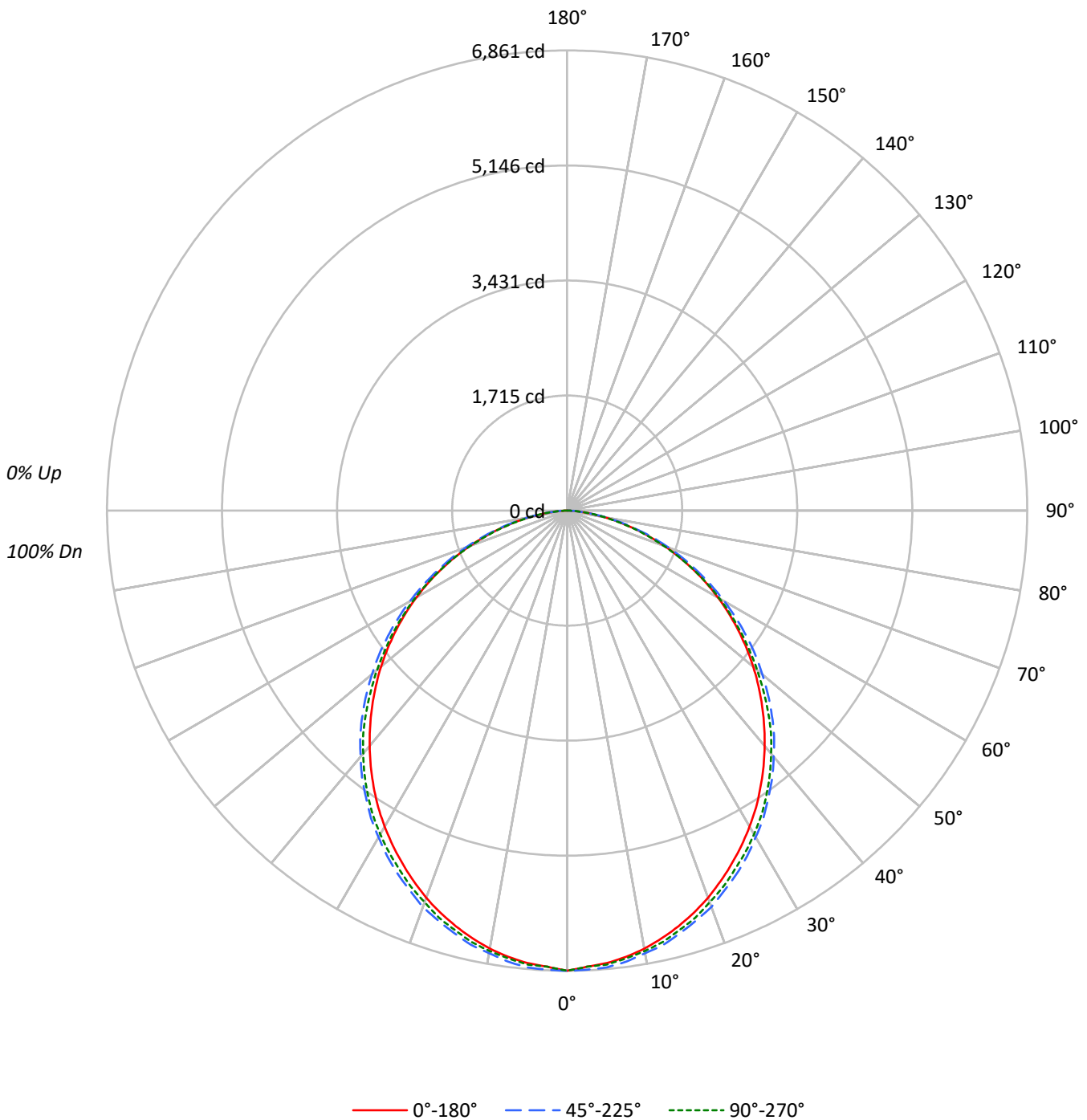
Lumens per Lamp: N/A
Luminaire Lumens: 18038.7 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 172.8
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: P489512

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4HI-50-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P489512

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4HI-50-120-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°	9232	9232	9232
5°	9146	9232	9175
10°	9063	9154	9111
15°	8937	9081	9018
20°	8797	9005	8897
25°	8625	8875	8774
30°	8451	8737	8657
35°	8260	8588	8508
40°	8046	8416	8310
45°	7820	8215	8060
50°	7585	7952	7744
55°	7310	7652	7417
60°	6998	7289	7064
65°	6596	6848	6600
70°	6069	6314	6001
75°	5344	5585	5262
80°	4343	4531	4293
85°	3024	3222	3145



TEST NUMBER: P489512

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4HI-50-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	646.2	3.6
10°-20°	1831.2	10.2
20°-30°	2731.1	15.1
30°-40°	3236.4	17.9
40°-50°	3274.8	18.2
50°-60°	2860.0	15.9
60°-70°	2090.0	11.6
70°-80°	1112.0	6.2
80°-90°	257.0	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°	5208.5	28.9
0°-40°	8444.9	46.8
0°-60°	14579.7	80.8
0°-90°	18038.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18038.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6861	6861	6861	6861	6861	
5°	6772	6785	6836	6851	6793	642
15°	6416	6459	6520	6559	6474	1809
25°	5810	5881	5978	6001	5910	2677
35°	5029	5108	5228	5265	5180	3145
45°	4110	4183	4317	4321	4236	3171
55°	3116	3179	3262	3215	3162	2786
65°	2072	2114	2151	2108	2073	2050
75°	1028	1052	1074	1035	1012	1093
85°	196	199	209	211	204	248
90°	0	0	0	0	0	



TEST NUMBER: P489512

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4HI-50-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6861.3	6861.3	6861.3	6861.3	6861.3
2.5°	6807.7	6829.8	6852.7	6862.7	6806.9
5°	6771.9	6784.8	6835.5	6851.3	6793.4
7.5°	6713.3	6732.6	6781.9	6789.1	6733.3
10°	6633.2	6667.6	6700.4	6736.2	6668.3
12.5°	6531.0	6577.5	6633.2	6639.7	6588.2
15°	6415.9	6458.8	6519.6	6558.9	6473.8
17.5°	6287.2	6328.7	6407.3	6414.5	6363.0
20°	6143.6	6195.0	6289.4	6305.8	6213.6
22.5°	5980.6	6049.9	6128.5	6144.3	6076.4
25°	5809.7	5881.2	5978.4	6000.6	5909.8
27.5°	5631.0	5699.6	5809.0	5824.7	5748.2
30°	5439.4	5503.7	5623.8	5650.3	5572.4
32.5°	5245.0	5309.3	5442.3	5464.4	5388.7
35°	5029.1	5107.7	5228.5	5265.0	5179.9
37.5°	4808.9	4885.4	5022.6	5055.5	4964.0
40°	4580.9	4656.6	4791.7	4818.9	4731.0
42.5°	4347.8	4423.6	4568.0	4572.3	4499.4
45°	4109.8	4182.7	4317.1	4320.6	4235.6
47.5°	3868.1	3941.8	4061.9	4048.3	3968.2
50°	3623.7	3693.7	3798.8	3771.6	3699.4
52.5°	3370.6	3438.5	3537.9	3493.5	3425.6
55°	3116.1	3179.0	3261.9	3214.8	3161.9
57.5°	2859.5	2923.1	2986.7	2938.8	2893.1
60°	2600.7	2656.4	2708.6	2660.0	2625.0
62.5°	2337.6	2385.5	2430.5	2384.1	2351.2
65°	2071.7	2113.9	2151.0	2108.1	2073.1
67.5°	1807.2	1842.9	1877.2	1832.9	1796.5
70°	1542.7	1573.4	1604.9	1559.1	1525.5
72.5°	1281.8	1308.9	1336.8	1292.5	1263.2
75°	1028.0	1051.6	1074.4	1035.1	1012.2
77.5°	785.6	805.7	821.4	796.4	774.2
80°	560.5	575.5	584.8	574.8	554.0
82.5°	360.3	371.0	376.0	375.3	361.7
85°	195.9	199.4	208.7	210.9	203.7
87.5°	75.8	80.8	82.9	89.4	82.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)