

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: P489003

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-5HI-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: P489003
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-LD4-5HI-30-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

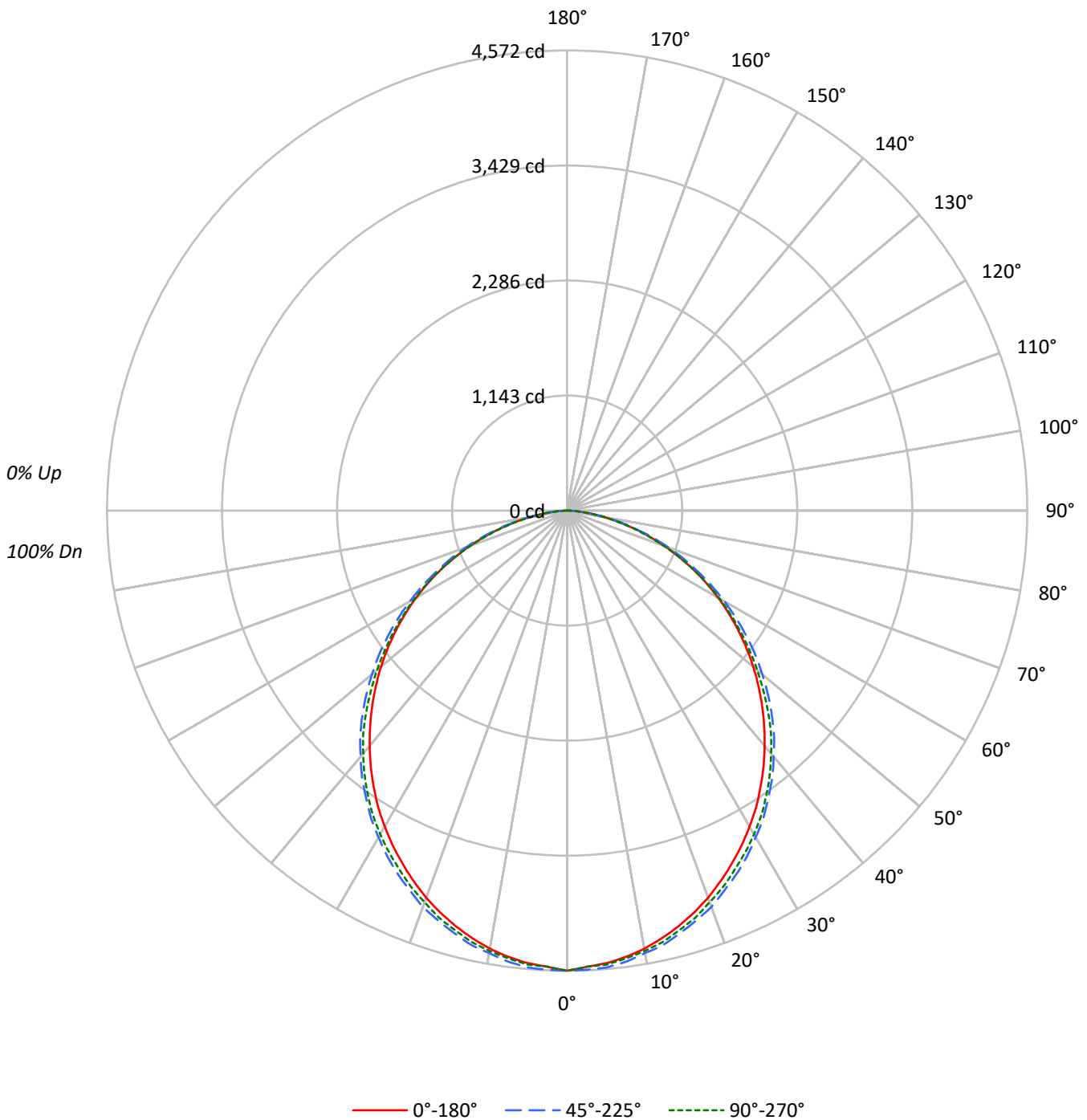
Lumens per Lamp: N/A
Luminaire Lumens: 12020.1 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 108
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: P489003

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-5HI-30-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P489003

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-5HI-30-120-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°	12303	12303	12303
5°	12189	12304	12228
10°	12078	12200	12142
15°	11911	12103	12018
20°	11723	12001	11857
25°	11495	11828	11693
30°	11263	11645	11538
35°	11009	11445	11339
40°	10723	11216	11074
45°	10422	10948	10741
50°	10109	10597	10320
55°	9742	10198	9885
60°	9327	9714	9414
65°	8790	9126	8796
70°	8088	8414	7998
75°	7122	7444	7013
80°	5788	6039	5721
85°	4029	4295	4193



TEST NUMBER: P489003

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-5HI-30-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.6	3.6
10°-20°	1220.2	10.2
20°-30°	1819.9	15.1
30°-40°	2156.6	17.9
40°-50°	2182.1	18.2
50°-60°	1905.8	15.9
60°-70°	1392.7	11.6
70°-80°	741.0	6.2
80°-90°	171.3	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°	3470.7	28.9
0°-40°	5627.3	46.8
0°-60°	9715.2	80.8
0°-90°	12020.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12020.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4572	4572	4572	4572	4572	
5°	4512	4521	4555	4565	4527	428
15°	4275	4304	4344	4370	4314	1205
25°	3871	3919	3984	3998	3938	1784
35°	3351	3404	3484	3508	3452	2096
45°	2738	2787	2877	2879	2822	2113
55°	2076	2118	2174	2142	2107	1856
65°	1380	1409	1433	1405	1381	1366
75°	685	701	716	690	674	728
85°	130	133	139	140	136	165
90°	0	0	0	0	0	



TEST NUMBER: P489003

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-5HI-30-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4572.0	4572.0	4572.0	4572.0	4572.0
2.5°	4536.3	4551.1	4566.3	4573.0	4535.8
5°	4512.5	4521.0	4554.9	4565.3	4526.8
7.5°	4473.4	4486.3	4519.1	4523.9	4486.8
10°	4420.1	4442.9	4464.8	4488.7	4443.4
12.5°	4351.9	4382.9	4420.1	4424.3	4390.1
15°	4275.3	4303.8	4344.3	4370.5	4313.8
17.5°	4189.5	4217.1	4269.5	4274.3	4240.0
20°	4093.8	4128.1	4190.9	4201.9	4140.4
22.5°	3985.2	4031.4	4083.8	4094.2	4049.0
25°	3871.3	3918.9	3983.7	3998.5	3938.0
27.5°	3752.2	3797.9	3870.8	3881.3	3830.3
30°	3624.6	3667.4	3747.5	3765.1	3713.2
32.5°	3495.0	3537.9	3626.5	3641.2	3590.7
35°	3351.1	3403.5	3484.0	3508.3	3451.6
37.5°	3204.4	3255.4	3346.8	3368.8	3307.8
40°	3052.5	3103.0	3193.0	3211.1	3152.5
42.5°	2897.2	2947.7	3043.9	3046.7	2998.2
45°	2738.5	2787.1	2876.7	2879.1	2822.4
47.5°	2577.5	2626.6	2706.6	2697.6	2644.2
50°	2414.6	2461.3	2531.3	2513.2	2465.1
52.5°	2246.0	2291.2	2357.5	2327.9	2282.7
55°	2076.4	2118.3	2173.6	2142.2	2106.9
57.5°	1905.4	1947.8	1990.2	1958.3	1927.8
60°	1733.0	1770.1	1804.9	1772.5	1749.2
62.5°	1557.7	1589.6	1619.6	1588.6	1566.7
65°	1380.5	1408.6	1433.3	1404.8	1381.4
67.5°	1204.2	1228.0	1250.9	1221.4	1197.1
70°	1028.0	1048.4	1069.4	1038.9	1016.5
72.5°	854.1	872.2	890.8	861.2	841.7
75°	685.0	700.7	716.0	689.8	674.5
77.5°	523.5	536.8	547.3	530.7	515.9
80°	373.5	383.5	389.7	383.0	369.2
82.5°	240.1	247.2	250.6	250.1	241.0
85°	130.5	132.9	139.1	140.5	135.8
87.5°	50.5	53.8	55.3	59.5	54.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)