

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: P489009

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-5HI-50-120-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: P489009
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-50-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

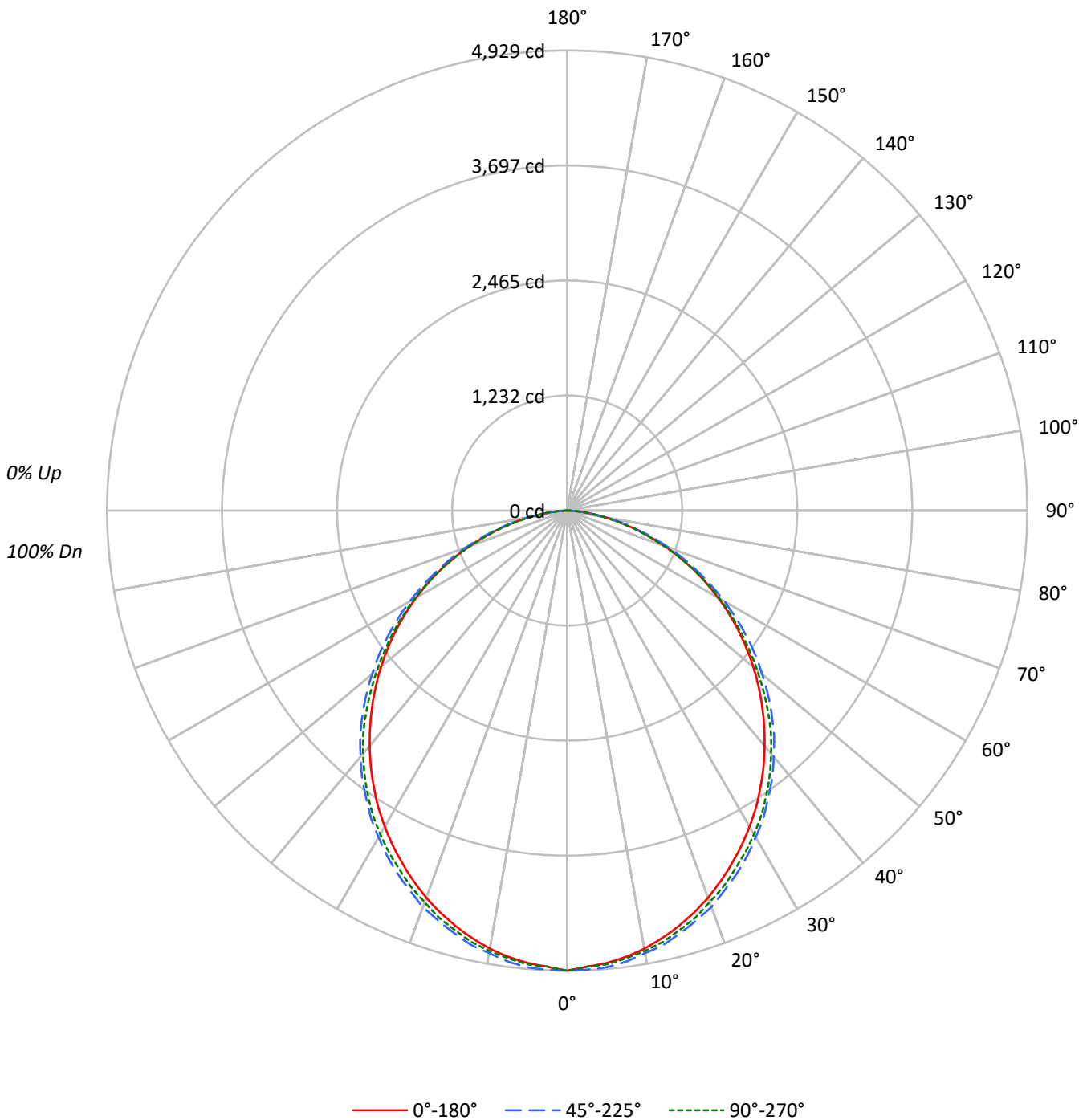
Lumens per Lamp: N/A
Luminaire Lumens: 12958.3 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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: P489009

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-5HI-50-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P489009

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-5HI-50-120-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°	13264	13264	13264
5°	13141	13264	13182
10°	13021	13152	13089
15°	12840	13048	12956
20°	12638	12938	12782
25°	12392	12752	12605
30°	12142	12553	12438
35°	11868	12339	12224
40°	11560	12092	11939
45°	11235	11802	11579
50°	10898	11424	11125
55°	10502	10993	10656
60°	10055	10472	10149
65°	9476	9839	9482
70°	8719	9071	8622
75°	7678	8025	7561
80°	6239	6510	6168
85°	4344	4631	4520



TEST NUMBER: P489009

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-5HI-50-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.2	3.6
10°-20°	1315.5	10.2
20°-30°	1961.9	15.1
30°-40°	2324.9	17.9
40°-50°	2352.4	18.2
50°-60°	2054.5	15.9
60°-70°	1501.4	11.6
70°-80°	798.9	6.2
80°-90°	184.6	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°	3741.6	28.9
0°-40°	6066.5	46.8
0°-60°	10473.5	80.8
0°-90°	12958.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12958.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4929	4929	4929	4929	4929	
5°	4865	4874	4910	4922	4880	461
15°	4609	4640	4683	4712	4650	1299
25°	4174	4225	4295	4311	4245	1923
35°	3613	3669	3756	3782	3721	2259
45°	2952	3005	3101	3104	3043	2278
55°	2238	2284	2343	2309	2271	2001
65°	1488	1518	1545	1514	1489	1473
75°	738	755	772	744	727	785
85°	141	143	150	152	146	178
90°	0	0	0	0	0	



TEST NUMBER: P489009

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-5HI-50-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4928.9	4928.9	4928.9	4928.9	4928.9
2.5°	4890.4	4906.3	4922.7	4929.9	4889.8
5°	4864.7	4873.9	4910.4	4921.7	4880.1
7.5°	4822.6	4836.4	4871.9	4877.0	4837.0
10°	4765.1	4789.7	4813.3	4839.0	4790.2
12.5°	4691.6	4725.0	4765.1	4769.7	4732.7
15°	4608.9	4639.8	4683.4	4711.7	4650.5
17.5°	4516.5	4546.3	4602.8	4607.9	4570.9
20°	4413.3	4450.3	4518.1	4529.9	4463.6
22.5°	4296.2	4346.0	4402.5	4413.8	4365.0
25°	4173.5	4224.8	4294.7	4310.6	4245.4
27.5°	4045.1	4094.4	4173.0	4184.3	4129.3
30°	3907.5	3953.7	4040.0	4059.0	4003.0
32.5°	3767.8	3814.0	3909.5	3925.4	3871.0
35°	3612.7	3669.2	3756.0	3782.2	3721.0
37.5°	3454.5	3509.5	3608.1	3631.7	3566.0
40°	3290.7	3345.1	3442.2	3461.7	3398.6
42.5°	3123.3	3177.7	3281.5	3284.5	3232.2
45°	2952.3	3004.7	3101.2	3103.8	3042.7
47.5°	2778.7	2831.6	2917.9	2908.1	2850.6
50°	2603.1	2653.4	2728.9	2709.4	2657.5
52.5°	2421.3	2470.1	2541.5	2509.6	2460.8
55°	2238.5	2283.7	2343.2	2309.4	2271.4
57.5°	2054.1	2099.8	2145.5	2111.1	2078.3
60°	1868.2	1908.3	1945.8	1910.9	1885.7
62.5°	1679.2	1713.7	1746.0	1712.6	1689.0
65°	1488.2	1518.5	1545.2	1514.4	1489.2
67.5°	1298.2	1323.9	1348.5	1316.7	1290.5
70°	1108.2	1130.3	1152.9	1120.0	1095.9
72.5°	920.8	940.3	960.3	928.5	907.4
75°	738.5	755.4	771.8	743.6	727.2
77.5°	564.4	578.8	590.0	572.1	556.2
80°	402.6	413.4	420.1	412.9	398.0
82.5°	258.8	266.5	270.1	269.6	259.8
85°	140.7	143.3	150.0	151.5	146.4
87.5°	54.4	58.0	59.6	64.2	59.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)