

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: P489247

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-1STD-40-120-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: P489247  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)  
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-P12125-LD4-1STD-40-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

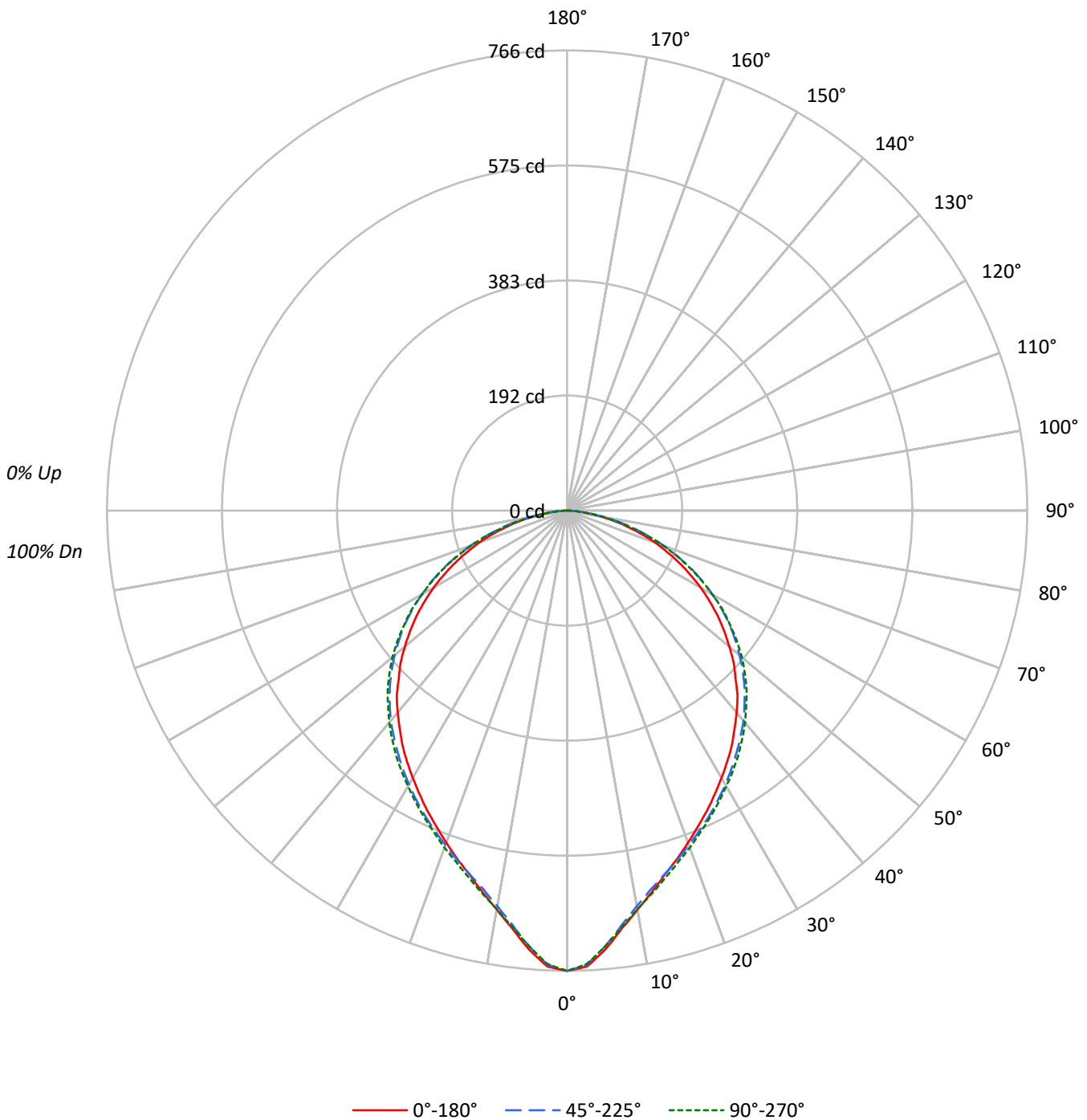
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1779.9 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 16.6  
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: P489247

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-1STD-40-120-EDD

### Luminous Intensity Polar Plot





TEST NUMBER: P489247

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-1STD-40-120-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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2062	2062	2062
5°	1980	1966	1966
10°	1843	1826	1840
15°	1748	1745	1762
20°	1684	1696	1710
25°	1636	1663	1673
30°	1597	1636	1646
35°	1569	1615	1632
40°	1542	1604	1618
45°	1510	1588	1607
50°	1477	1569	1590
55°	1436	1546	1552
60°	1384	1504	1500
65°	1312	1446	1436
70°	1225	1349	1332
75°	1081	1195	1182
80°	879	973	925
85°	608	621	596



TEST NUMBER: P489247

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-1STD-40-120-EDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.7	3.8
10°-20°	177.4	10.0
20°-30°	257.9	14.5
30°-40°	306.9	17.2
40°-50°	318.7	17.9
50°-60°	288.7	16.2
60°-70°	217.9	12.2
70°-80°	118.7	6.7
80°-90°	26.1	1.5
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°	503.0	28.3
0°-40°	809.9	45.5
0°-60°	1417.3	79.6
0°-90°	1779.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1779.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	766	766	766	766	766	
5°	733	731	728	727	728	68
15°	628	626	626	631	633	177
25°	551	556	560	565	563	254
35°	478	484	492	499	497	299
45°	397	404	417	422	422	307
55°	306	313	330	332	331	273
65°	206	212	227	227	226	204
75°	104	108	115	116	114	111
85°	20	20	20	20	19	25
90°	0	0	0	0	0	



TEST NUMBER: P489247

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-1STD-40-120-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	766.3	766.3	766.3	766.3	766.3
2.5°	759.6	758.8	756.3	755.4	755.2
5°	733.0	731.2	727.8	727.4	727.8
7.5°	701.2	699.3	695.8	697.2	698.9
10°	674.4	669.6	668.2	670.2	673.4
12.5°	650.4	646.6	645.4	650.4	652.7
15°	627.6	626.1	626.5	630.7	632.6
17.5°	607.9	607.0	609.5	612.7	613.7
20°	588.2	590.1	592.4	595.9	597.0
22.5°	568.9	572.5	576.3	580.9	579.4
25°	551.1	555.7	560.1	564.7	563.3
27.5°	532.1	537.5	543.6	548.6	546.7
30°	513.9	520.6	526.6	532.7	529.8
32.5°	495.9	502.2	509.3	516.8	513.5
35°	477.7	483.5	491.7	499.2	496.7
37.5°	457.6	464.7	474.1	480.6	478.9
40°	438.9	445.4	456.7	460.9	460.5
42.5°	419.9	425.3	437.1	441.9	441.2
45°	396.7	403.8	417.4	422.0	422.4
47.5°	376.2	382.2	396.7	400.4	401.1
50°	352.7	360.2	374.7	379.1	379.7
52.5°	329.5	337.6	352.5	355.6	356.1
55°	306.0	313.2	329.5	331.8	330.9
57.5°	281.3	290.1	305.0	306.2	307.1
60°	257.1	264.8	279.4	280.9	278.8
62.5°	230.9	238.8	253.7	254.1	252.4
65°	206.0	212.0	227.1	226.7	225.5
67.5°	180.0	187.3	198.4	198.7	197.8
70°	155.7	160.6	171.4	171.6	169.3
72.5°	129.4	134.8	143.4	142.3	141.7
75°	104.0	108.2	114.9	115.7	113.7
77.5°	80.6	83.7	88.7	88.1	86.0
80°	56.7	59.2	62.8	62.0	59.7
82.5°	36.2	37.7	40.0	39.1	38.1
85°	19.7	19.9	20.1	19.9	19.3
87.5°	7.3	7.5	7.5	7.3	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)