

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: P489008

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-5HI-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: P489008  
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-90  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

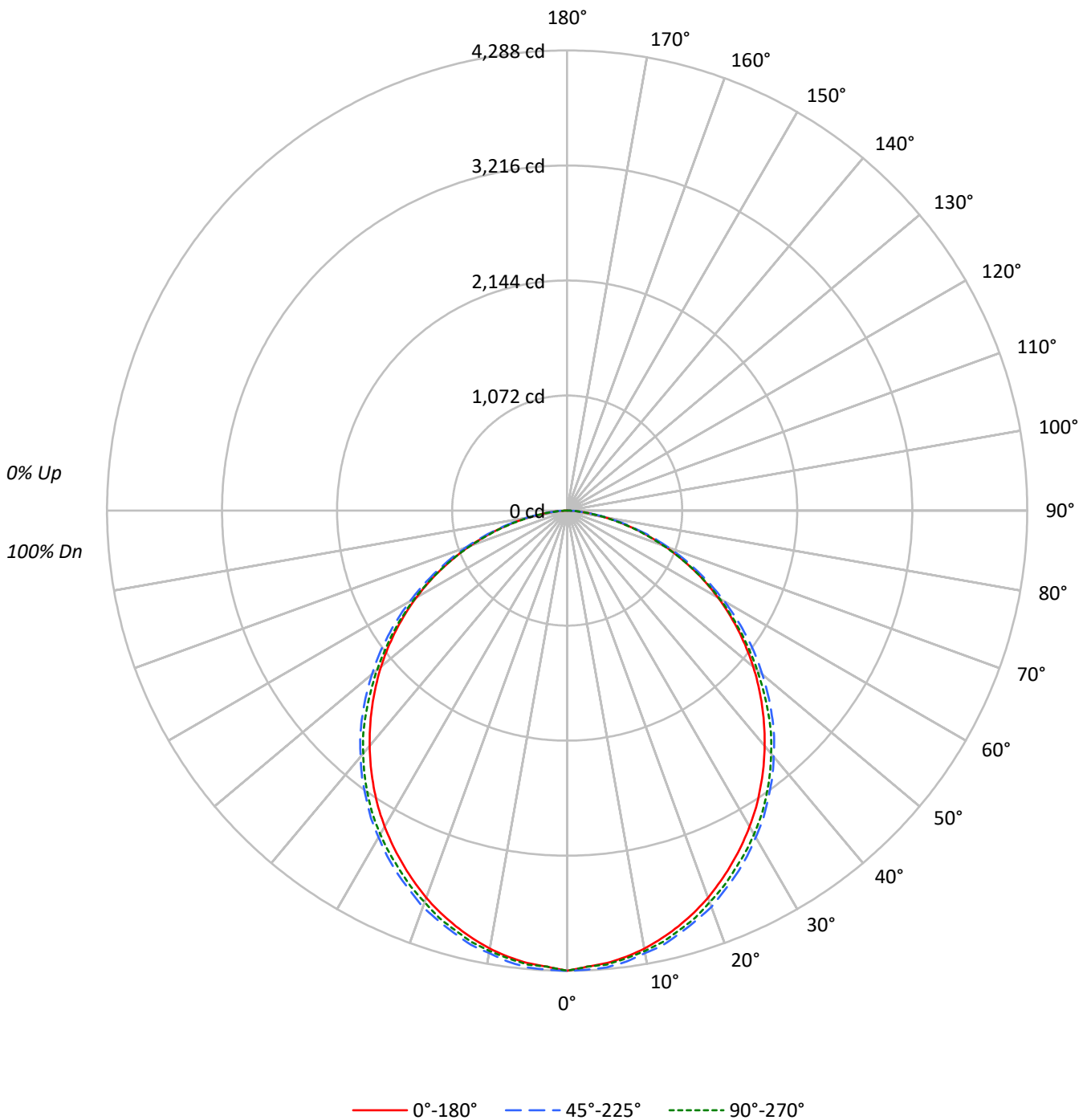
Lumens per Lamp: N/A  
Luminaire Lumens: 11273.8 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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

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### Luminous Intensity Polar Plot





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**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°	11539	11539	11539
5°	11433	11540	11469
10°	11328	11443	11388
15°	11171	11351	11272
20°	10995	11256	11121
25°	10781	11094	10967
30°	10563	10921	10821
35°	10325	10735	10635
40°	10057	10520	10387
45°	9775	10268	10074
50°	9481	9939	9679
55°	9137	9564	9271
60°	8748	9111	8830
65°	8245	8560	8250
70°	7585	7891	7501
75°	6680	6982	6577
80°	5429	5664	5367
85°	3779	4029	3930



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	403.9	3.6
10°-20°	1144.4	10.2
20°-30°	1706.9	15.1
30°-40°	2022.7	17.9
40°-50°	2046.7	18.2
50°-60°	1787.4	15.9
60°-70°	1306.2	11.6
70°-80°	695.0	6.2
80°-90°	160.6	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°	3255.2	28.9
0°-40°	5277.9	46.8
0°-60°	9112.0	80.8
0°-90°	11273.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11273.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4288	4288	4288	4288	4288	
5°	4232	4240	4272	4282	4246	401
15°	4010	4037	4075	4099	4046	1130
25°	3631	3676	3736	3750	3694	1673
35°	3143	3192	3268	3290	3237	1966
45°	2568	2614	2698	2700	2647	1982
55°	1948	1987	2039	2009	1976	1741
65°	1295	1321	1344	1318	1296	1281
75°	642	657	672	647	633	683
85°	122	125	130	132	127	155
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4288.2	4288.2	4288.2	4288.2	4288.2
2.5°	4254.6	4268.5	4282.8	4289.0	4254.2
5°	4232.3	4240.3	4272.1	4281.9	4245.7
7.5°	4195.7	4207.7	4238.6	4243.0	4208.2
10°	4145.6	4167.1	4187.6	4210.0	4167.5
12.5°	4081.7	4110.8	4145.6	4149.7	4117.5
15°	4009.8	4036.6	4074.6	4099.2	4046.0
17.5°	3929.4	3955.3	4004.4	4008.9	3976.7
20°	3839.6	3871.8	3930.7	3941.0	3883.4
22.5°	3737.7	3781.1	3830.2	3840.0	3797.6
25°	3630.9	3675.6	3736.4	3750.2	3693.5
27.5°	3519.3	3562.1	3630.5	3640.3	3592.5
30°	3399.5	3439.7	3514.8	3531.3	3482.6
32.5°	3278.0	3318.2	3401.3	3415.2	3367.8
35°	3143.1	3192.2	3267.7	3290.5	3237.3
37.5°	3005.5	3053.3	3139.0	3159.6	3102.4
40°	2862.9	2910.3	2994.7	3011.7	2956.8
42.5°	2717.3	2764.6	2854.9	2857.6	2812.0
45°	2568.5	2614.1	2698.1	2700.3	2647.1
47.5°	2417.5	2463.5	2538.6	2530.1	2480.1
50°	2264.7	2308.5	2374.2	2357.2	2312.1
52.5°	2106.5	2149.0	2211.1	2183.4	2140.9
55°	1947.5	1986.8	2038.6	2009.1	1976.1
57.5°	1787.1	1826.9	1866.6	1836.7	1808.1
60°	1625.4	1660.2	1692.8	1662.5	1640.6
62.5°	1461.0	1490.9	1519.0	1490.0	1469.4
65°	1294.8	1321.1	1344.3	1317.5	1295.6
67.5°	1129.4	1151.8	1173.2	1145.5	1122.7
70°	964.1	983.4	1003.0	974.4	953.4
72.5°	801.1	818.0	835.5	807.8	789.5
75°	642.5	657.2	671.5	646.9	632.6
77.5°	491.0	503.5	513.3	497.7	483.9
80°	350.3	359.7	365.5	359.2	346.3
82.5°	225.2	231.9	235.0	234.6	226.1
85°	122.4	124.7	130.5	131.8	127.3
87.5°	47.4	50.5	51.8	55.8	51.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)