

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: P488963

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-4HI-20-120-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: P488963  
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-LD4-4HI-20-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

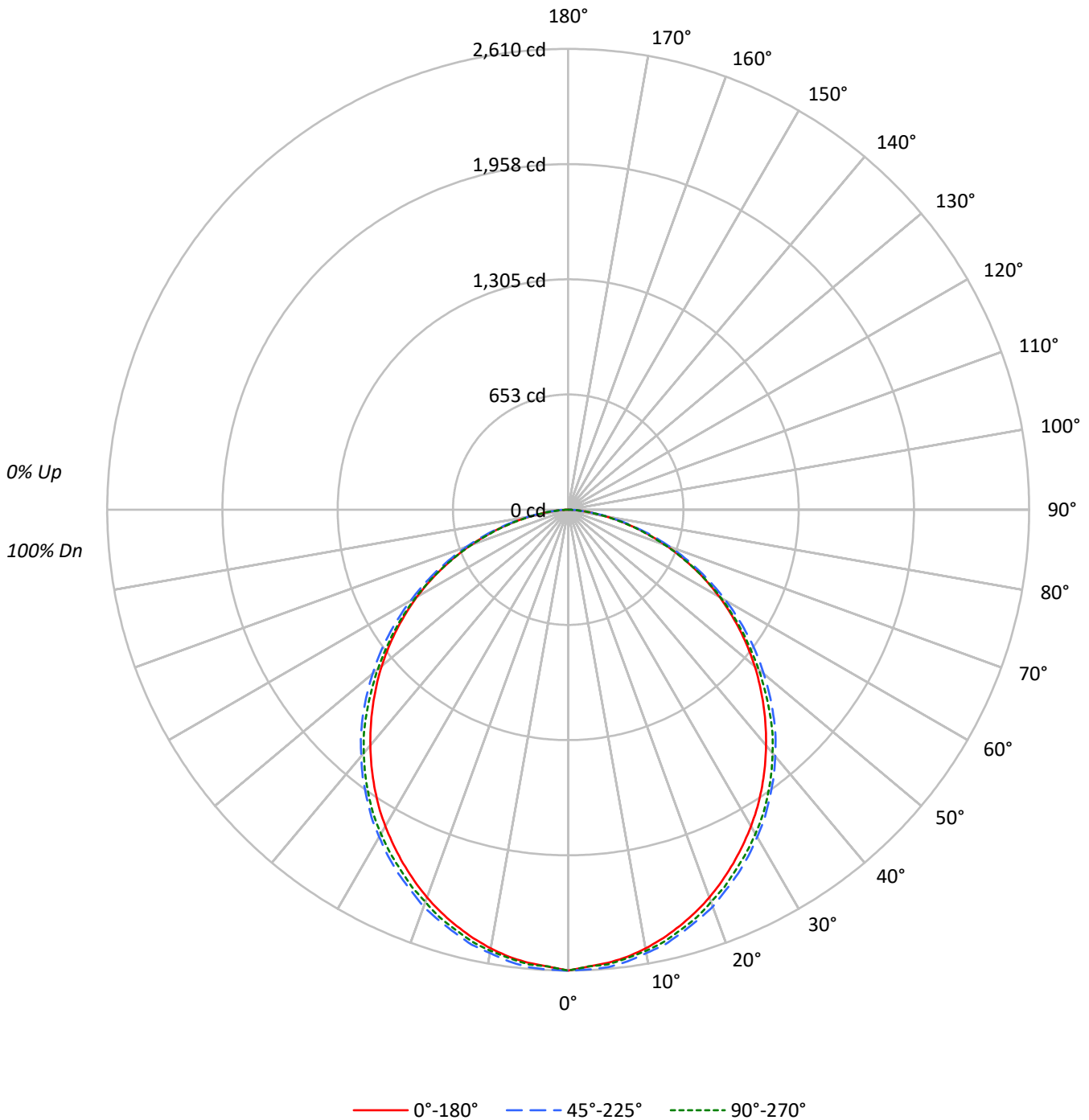
Lumens per Lamp: N/A  
Luminaire Lumens: 6863.1 lumens  
Efficiency: N/A  
Efficacy: 79.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 86.4  
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: P488963

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-4HI-20-120-EDD

### Luminous Intensity Polar Plot





TEST NUMBER: P488963

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-4HI-20-120-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°	7025	7025	7025
5°	6960	7025	6982
10°	6896	6966	6932
15°	6800	6910	6862
20°	6694	6852	6770
25°	6563	6754	6676
30°	6431	6649	6588
35°	6286	6535	6474
40°	6122	6404	6323
45°	5950	6251	6133
50°	5772	6051	5892
55°	5562	5823	5644
60°	5325	5546	5375
65°	5019	5211	5022
70°	4618	4804	4567
75°	4066	4250	4004
80°	3304	3448	3267
85°	2300	2452	2393



TEST NUMBER: P488963

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-4HI-20-120-EDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.9	3.6
10°-20°	696.7	10.2
20°-30°	1039.1	15.1
30°-40°	1231.3	17.9
40°-50°	1245.9	18.2
50°-60°	1088.1	15.9
60°-70°	795.2	11.6
70°-80°	423.1	6.2
80°-90°	97.8	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°	1981.7	28.9
0°-40°	3213.0	46.8
0°-60°	5547.1	80.8
0°-90°	6863.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6863.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2610	2610	2610	2610	2610	
5°	2576	2581	2601	2607	2585	244
15°	2441	2457	2480	2495	2463	688
25°	2210	2238	2275	2283	2248	1018
35°	1913	1943	1989	2003	1971	1197
45°	1564	1591	1642	1644	1612	1206
55°	1186	1210	1241	1223	1203	1060
65°	788	804	818	802	789	780
75°	391	400	409	394	385	416
85°	74	76	79	80	78	94
90°	0	0	0	0	0	



TEST NUMBER: P488963

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-4HI-20-120-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2610.5	2610.5	2610.5	2610.5	2610.5
2.5°	2590.1	2598.5	2607.2	2611.0	2589.8
5°	2576.5	2581.4	2600.7	2606.7	2584.6
7.5°	2554.2	2561.5	2580.3	2583.0	2561.8
10°	2523.7	2536.8	2549.3	2562.9	2537.0
12.5°	2484.8	2502.5	2523.7	2526.2	2506.6
15°	2441.0	2457.4	2480.5	2495.4	2463.1
17.5°	2392.1	2407.9	2437.8	2440.5	2420.9
20°	2337.4	2357.0	2392.9	2399.1	2364.1
22.5°	2275.4	2301.8	2331.7	2337.7	2311.8
25°	2210.4	2237.6	2274.6	2283.0	2248.5
27.5°	2142.4	2168.5	2210.1	2216.1	2187.0
30°	2069.5	2094.0	2139.7	2149.7	2120.1
32.5°	1995.5	2020.0	2070.6	2079.0	2050.2
35°	1913.4	1943.3	1989.3	2003.1	1970.8
37.5°	1829.6	1858.7	1910.9	1923.5	1888.6
40°	1742.9	1771.7	1823.1	1833.4	1800.0
42.5°	1654.2	1683.0	1738.0	1739.6	1711.9
45°	1563.6	1591.4	1642.5	1643.9	1611.5
47.5°	1471.7	1499.7	1545.4	1540.2	1509.8
50°	1378.7	1405.3	1445.3	1435.0	1407.5
52.5°	1282.4	1308.2	1346.0	1329.2	1303.3
55°	1185.6	1209.5	1241.1	1223.1	1203.0
57.5°	1087.9	1112.1	1136.3	1118.1	1100.7
60°	989.5	1010.7	1030.5	1012.0	998.7
62.5°	889.4	907.6	924.7	907.1	894.5
65°	788.2	804.2	818.4	802.1	788.7
67.5°	687.6	701.2	714.2	697.4	683.5
70°	586.9	598.6	610.6	593.2	580.4
72.5°	487.7	498.0	508.6	491.7	480.6
75°	391.1	400.1	408.8	393.8	385.1
77.5°	298.9	306.5	312.5	303.0	294.6
80°	213.2	218.9	222.5	218.7	210.8
82.5°	137.1	141.2	143.1	142.8	137.6
85°	74.5	75.9	79.4	80.2	77.5
87.5°	28.8	30.7	31.5	34.0	31.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)