

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: P488965

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-4HI-27-120-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: P488965  
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-27-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

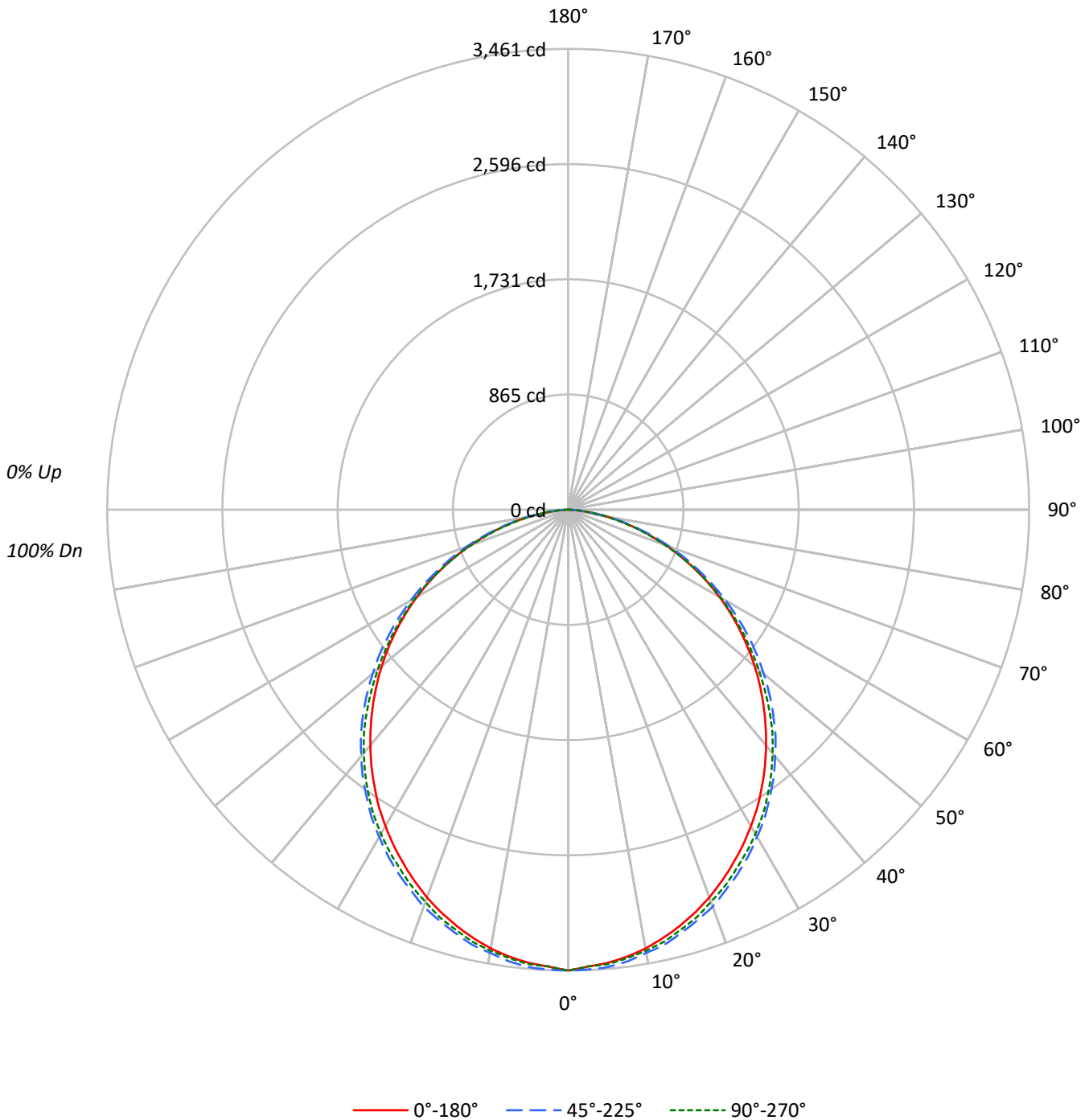
Lumens per Lamp: N/A  
Luminaire Lumens: 9098.7 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P488965

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-4HI-27-120-EDD

### Luminous Intensity Polar Plot





TEST NUMBER: P488965

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-4HI-27-120-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°	9313	9313	9313
5°	9227	9313	9256
10°	9142	9235	9191
15°	9016	9161	9097
20°	8874	9085	8975
25°	8701	8954	8851
30°	8525	8814	8734
35°	8333	8664	8583
40°	8117	8490	8383
45°	7889	8287	8130
50°	7652	8022	7812
55°	7374	7719	7482
60°	7060	7353	7126
65°	6654	6909	6658
70°	6122	6369	6054
75°	5391	5634	5309
80°	4381	4572	4330
85°	3051	3251	3174



TEST NUMBER: P488965

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-4HI-27-120-EDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	325.9	3.6
10°-20°	923.7	10.2
20°-30°	1377.6	15.1
30°-40°	1632.4	17.9
40°-50°	1651.8	18.2
50°-60°	1442.6	15.9
60°-70°	1054.2	11.6
70°-80°	560.9	6.2
80°-90°	129.6	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°	2627.2	28.9
0°-40°	4259.6	46.8
0°-60°	7354.0	80.8
0°-90°	9098.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9098.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3461	3461	3461	3461	3461	
5°	3416	3422	3448	3456	3427	324
15°	3236	3258	3288	3308	3265	912
25°	2930	2966	3016	3027	2981	1350
35°	2537	2576	2637	2656	2613	1586
45°	2073	2110	2178	2179	2136	1599
55°	1572	1604	1645	1622	1595	1405
65°	1045	1066	1085	1063	1046	1034
75°	518	530	542	522	511	551
85°	99	101	105	106	103	125
90°	0	0	0	0	0	



TEST NUMBER: P488965

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-4HI-27-120-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3460.8	3460.8	3460.8	3460.8	3460.8
2.5°	3433.8	3445.0	3456.5	3461.5	3433.4
5°	3415.7	3422.2	3447.8	3455.8	3426.6
7.5°	3386.2	3395.9	3420.8	3424.4	3396.3
10°	3345.8	3363.1	3379.7	3397.7	3363.5
12.5°	3294.2	3317.7	3345.8	3349.0	3323.1
15°	3236.2	3257.8	3288.5	3308.3	3265.4
17.5°	3171.3	3192.2	3231.9	3235.5	3209.5
20°	3098.8	3124.8	3172.4	3180.7	3134.1
22.5°	3016.6	3051.6	3091.2	3099.2	3064.9
25°	2930.4	2966.5	3015.5	3026.7	2980.9
27.5°	2840.3	2874.9	2930.1	2938.0	2899.4
30°	2743.6	2776.1	2836.7	2850.0	2810.7
32.5°	2645.6	2678.0	2745.1	2756.3	2718.0
35°	2536.7	2576.3	2637.3	2655.7	2612.7
37.5°	2425.6	2464.2	2533.4	2550.0	2503.8
40°	2310.6	2348.8	2417.0	2430.7	2386.3
42.5°	2193.0	2231.3	2304.1	2306.3	2269.5
45°	2073.0	2109.7	2177.5	2179.3	2136.4
47.5°	1951.1	1988.2	2048.8	2041.9	2001.6
50°	1827.8	1863.1	1916.1	1902.4	1866.0
52.5°	1700.1	1734.4	1784.5	1762.1	1727.9
55°	1571.8	1603.5	1645.3	1621.5	1594.8
57.5°	1442.3	1474.4	1506.5	1482.3	1459.3
60°	1311.8	1339.9	1366.2	1341.7	1324.0
62.5°	1179.1	1203.2	1226.0	1202.5	1185.9
65°	1045.0	1066.2	1085.0	1063.3	1045.7
67.5°	911.5	929.6	946.9	924.5	906.1
70°	778.1	793.6	809.5	786.4	769.5
72.5°	646.5	660.2	674.3	651.9	637.1
75°	518.5	530.4	541.9	522.1	510.6
77.5°	396.3	406.4	414.3	401.7	390.5
80°	282.7	290.3	295.0	289.9	279.4
82.5°	181.7	187.1	189.7	189.3	182.5
85°	98.8	100.6	105.3	106.4	102.8
87.5°	38.2	40.7	41.8	45.1	41.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)