

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: P489913

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-5LO-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: P489913  
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-24-4-INS-P12125-LD4-5LO-27-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

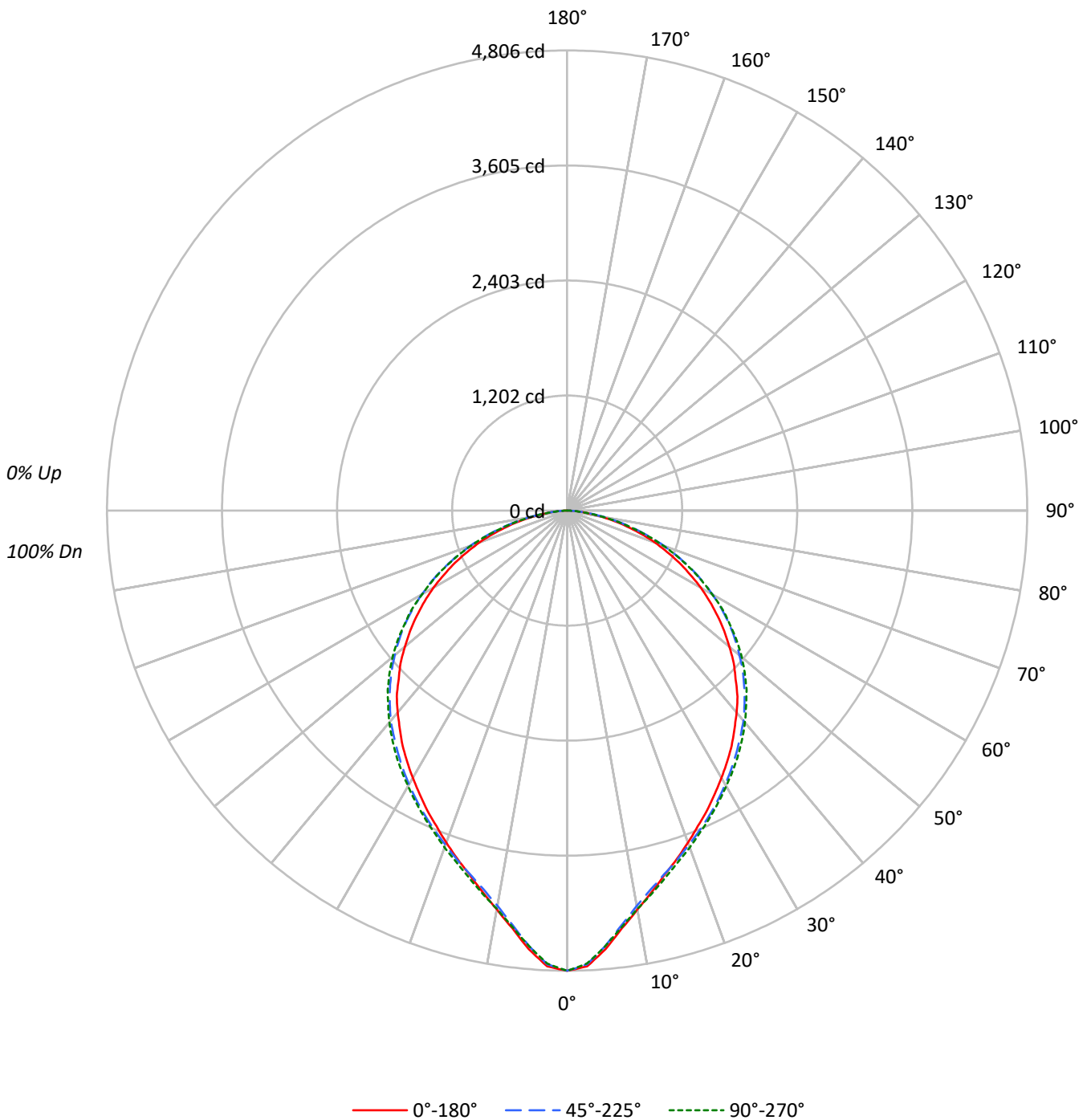
Lumens per Lamp: N/A  
Luminaire Lumens: 11164.0 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 117  
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: P489913

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-5LO-27-120-EDD

### Luminous Intensity Polar Plot





TEST NUMBER: P489913

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-5LO-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	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°	6467	6467	6467
5°	6209	6165	6165
10°	5779	5726	5771
15°	5484	5474	5527
20°	5283	5320	5362
25°	5131	5215	5245
30°	5008	5131	5163
35°	4922	5066	5117
40°	4835	5031	5073
45°	4735	4982	5041
50°	4631	4920	4985
55°	4502	4848	4868
60°	4340	4715	4705
65°	4114	4535	4504
70°	3841	4229	4177
75°	3390	3746	3709
80°	2755	3052	2903
85°	1910	1947	1873



TEST NUMBER: P489913

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-5LO-27-120-EDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	424.7	3.8
10°-20°	1112.4	10.0
20°-30°	1617.7	14.5
30°-40°	1925.0	17.2
40°-50°	1998.8	17.9
50°-60°	1810.8	16.2
60°-70°	1366.4	12.2
70°-80°	744.5	6.7
80°-90°	163.6	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°	3154.8	28.3
0°-40°	5079.8	45.5
0°-60°	8889.4	79.6
0°-90°	11164.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11164.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4806	4806	4806	4806	4806	
5°	4597	4586	4565	4562	4565	427
15°	3937	3927	3930	3956	3968	1111
25°	3456	3485	3513	3542	3533	1593
35°	2996	3032	3084	3131	3115	1873
45°	2488	2533	2618	2647	2649	1923
55°	1919	1965	2067	2081	2075	1713
65°	1292	1330	1424	1422	1415	1277
75°	652	679	721	725	713	695
85°	124	125	126	125	121	156
90°	0	0	0	0	0	



TEST NUMBER: P489913

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-5LO-27-120-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4806.3	4806.3	4806.3	4806.3	4806.3
2.5°	4764.2	4759.4	4743.8	4737.8	4736.6
5°	4597.3	4586.5	4564.8	4562.5	4564.8
7.5°	4397.9	4385.9	4364.4	4372.7	4383.5
10°	4229.8	4199.8	4191.3	4203.4	4223.8
12.5°	4079.6	4055.6	4048.4	4079.6	4094.1
15°	3936.7	3927.1	3929.6	3956.0	3968.0
17.5°	3813.1	3807.1	3822.7	3843.1	3849.1
20°	3689.4	3701.4	3715.8	3737.4	3744.6
22.5°	3568.1	3590.9	3614.9	3643.7	3634.1
25°	3456.4	3485.2	3512.9	3541.6	3533.3
27.5°	3337.5	3371.1	3409.5	3440.8	3428.7
30°	3223.3	3265.4	3302.7	3341.0	3323.1
32.5°	3110.5	3150.1	3194.6	3241.4	3221.0
35°	2996.4	3032.4	3084.1	3131.0	3115.3
37.5°	2870.3	2914.7	2973.5	3014.4	3003.7
40°	2752.6	2793.5	2864.3	2890.8	2888.3
42.5°	2633.7	2667.4	2741.8	2771.8	2767.0
45°	2488.4	2532.8	2618.1	2647.0	2649.3
47.5°	2359.9	2397.2	2488.4	2511.2	2516.0
50°	2212.2	2259.0	2350.3	2377.9	2381.5
52.5°	2066.8	2117.2	2211.0	2230.2	2233.8
55°	1919.1	1964.7	2066.8	2081.3	2075.3
57.5°	1764.2	1819.5	1913.2	1920.3	1926.4
60°	1612.8	1660.9	1752.2	1761.8	1748.6
62.5°	1448.4	1497.6	1591.3	1593.7	1582.8
65°	1292.2	1329.5	1424.3	1421.9	1414.7
67.5°	1128.9	1174.5	1244.2	1246.6	1240.6
70°	976.3	1007.6	1074.9	1076.1	1061.7
72.5°	811.9	845.5	899.5	892.3	888.8
75°	652.1	678.6	720.6	725.4	713.4
77.5°	505.6	524.8	556.1	552.5	539.2
80°	355.5	371.1	393.9	389.1	374.7
82.5°	226.9	236.6	251.0	245.0	239.0
85°	123.7	124.9	126.1	124.9	121.3
87.5°	45.6	46.9	46.9	45.6	42.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)