

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: P489818

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-2STD-30-120-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: P489818  
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-LD4-2STD-30-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

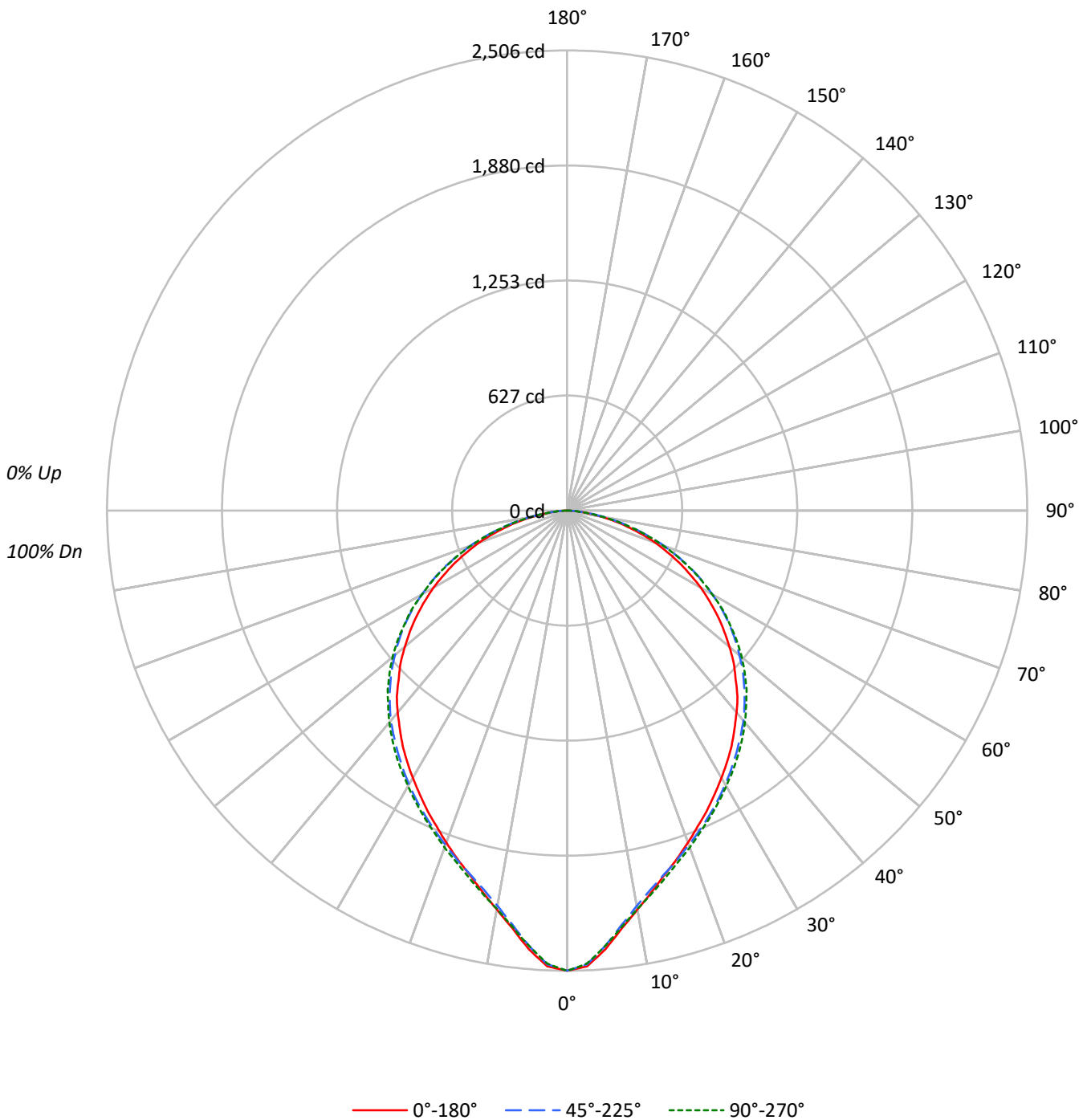
Lumens per Lamp: N/A  
Luminaire Lumens: 5820.7 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 66.6  
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: P489818

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-2STD-30-120-EDD-90

### Luminous Intensity Polar Plot





TEST NUMBER: P489818

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-2STD-30-120-EDD-90

**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°	3372	3372	3372
5°	3237	3214	3214
10°	3013	2986	3009
15°	2859	2854	2882
20°	2754	2774	2796
25°	2675	2719	2735
30°	2611	2675	2692
35°	2566	2641	2668
40°	2521	2623	2645
45°	2469	2597	2628
50°	2414	2565	2599
55°	2347	2528	2538
60°	2263	2458	2453
65°	2145	2364	2348
70°	2002	2205	2177
75°	1768	1953	1933
80°	1436	1592	1513
85°	996	1014	976



TEST NUMBER: P489818

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-2STD-30-120-EDD-90

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.4	3.8
10°-20°	580.0	10.0
20°-30°	843.4	14.5
30°-40°	1003.7	17.2
40°-50°	1042.1	17.9
50°-60°	944.1	16.2
60°-70°	712.4	12.2
70°-80°	388.2	6.7
80°-90°	85.3	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°	1644.9	28.3
0°-40°	2648.5	45.5
0°-60°	4634.8	79.6
0°-90°	5820.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5820.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2506	2506	2506	2506	2506	
5°	2397	2391	2380	2379	2380	222
15°	2052	2048	2049	2063	2069	579
25°	1802	1817	1832	1846	1842	830
35°	1562	1581	1608	1632	1624	977
45°	1297	1321	1365	1380	1381	1003
55°	1001	1024	1078	1085	1082	893
65°	674	693	743	741	738	666
75°	340	354	376	378	372	362
85°	64	65	66	65	63	81
90°	0	0	0	0	0	



TEST NUMBER: P489818

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-2STD-30-120-EDD-90

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2505.9	2505.9	2505.9	2505.9	2505.9
2.5°	2484.0	2481.5	2473.3	2470.2	2469.6
5°	2397.0	2391.3	2380.0	2378.8	2380.0
7.5°	2293.0	2286.7	2275.5	2279.9	2285.5
10°	2205.3	2189.7	2185.3	2191.6	2202.2
12.5°	2127.0	2114.5	2110.8	2127.0	2134.6
15°	2052.5	2047.5	2048.8	2062.6	2068.8
17.5°	1988.1	1984.9	1993.1	2003.7	2006.9
20°	1923.6	1929.8	1937.4	1948.6	1952.4
22.5°	1860.3	1872.2	1884.8	1899.8	1894.8
25°	1802.1	1817.1	1831.5	1846.5	1842.2
27.5°	1740.1	1757.6	1777.7	1794.0	1787.7
30°	1680.6	1702.5	1721.9	1742.0	1732.6
32.5°	1621.8	1642.4	1665.6	1690.0	1679.4
35°	1562.3	1581.1	1608.0	1632.4	1624.3
37.5°	1496.5	1519.7	1550.3	1571.6	1566.1
40°	1435.2	1456.5	1493.4	1507.2	1505.9
42.5°	1373.2	1390.7	1429.5	1445.2	1442.7
45°	1297.4	1320.6	1365.0	1380.1	1381.3
47.5°	1230.4	1249.8	1297.4	1309.3	1311.8
50°	1153.4	1177.8	1225.4	1239.8	1241.7
52.5°	1077.6	1103.9	1152.8	1162.8	1164.7
55°	1000.6	1024.4	1077.6	1085.2	1082.0
57.5°	919.8	948.6	997.5	1001.2	1004.4
60°	840.9	866.0	913.6	918.6	911.7
62.5°	755.2	780.8	829.7	830.9	825.3
65°	673.7	693.2	742.6	741.4	737.6
67.5°	588.6	612.4	648.7	649.9	646.8
70°	509.0	525.3	560.4	561.0	553.5
72.5°	423.3	440.8	469.0	465.2	463.4
75°	340.0	353.8	375.7	378.2	371.9
77.5°	263.6	273.6	289.9	288.1	281.1
80°	185.3	193.5	205.4	202.9	195.3
82.5°	118.3	123.4	130.9	127.7	124.6
85°	64.5	65.1	65.7	65.1	63.2
87.5°	23.8	24.4	24.4	23.8	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)