

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: P489762

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-1HI-40-120-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: P489762  
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-LD4-1HI-40-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

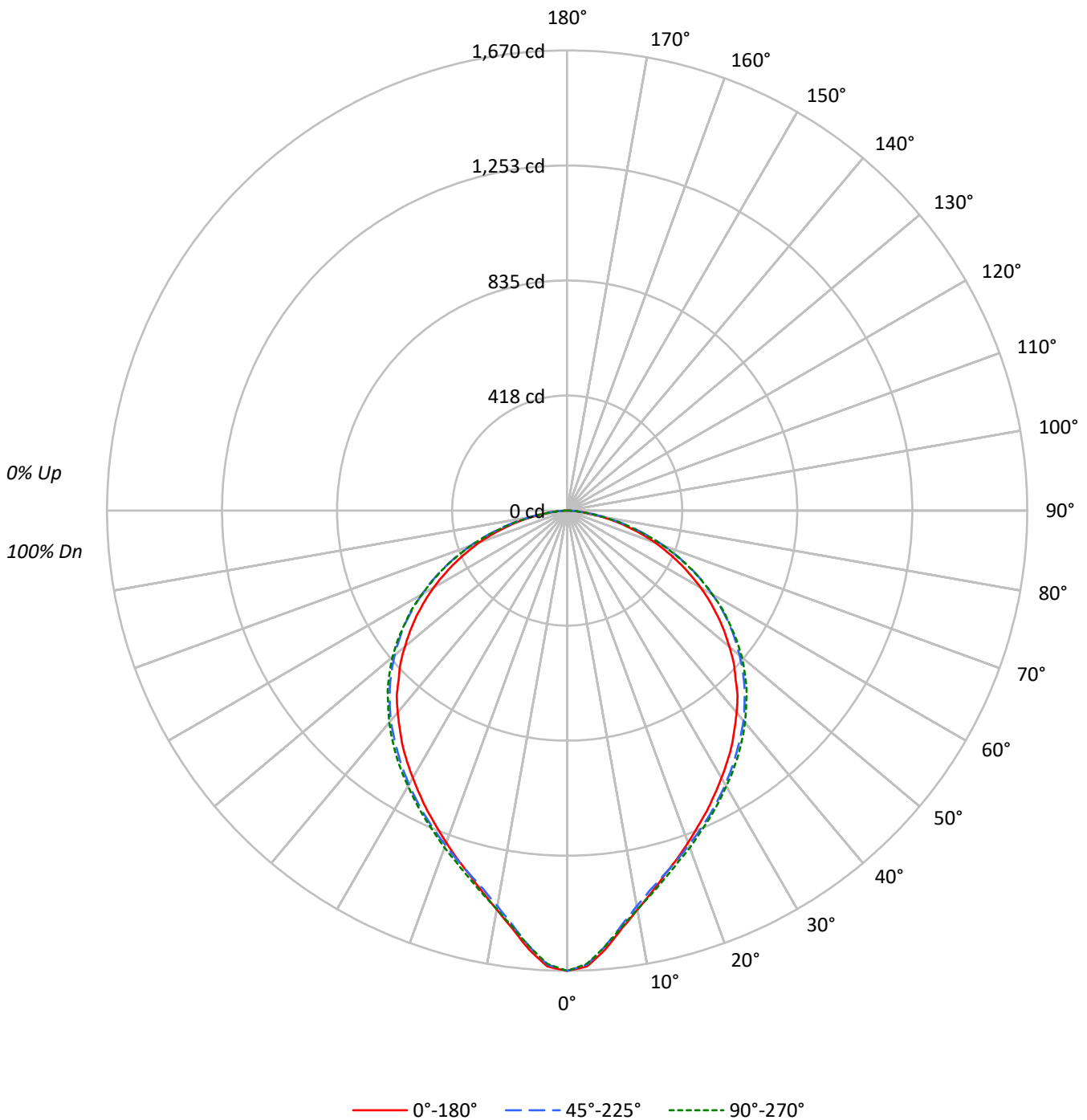
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3880.3 lumens  
Efficiency: N/A  
Efficacy: 89.8 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): 43.2  
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: P489762

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-1HI-40-120-EDD-90

### Luminous Intensity Polar Plot





TEST NUMBER: P489762

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-1HI-40-120-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°	2248	2248	2248
5°	2158	2143	2143
10°	2009	1990	2006
15°	1906	1902	1921
20°	1836	1849	1864
25°	1784	1813	1823
30°	1741	1783	1794
35°	1711	1761	1779
40°	1680	1749	1763
45°	1646	1732	1752
50°	1609	1710	1733
55°	1565	1685	1692
60°	1509	1639	1636
65°	1430	1576	1565
70°	1335	1470	1452
75°	1179	1302	1289
80°	957	1061	1009
85°	664	676	651



TEST NUMBER: P489762

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-1HI-40-120-EDD-90

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.6	3.8
10°-20°	386.7	10.0
20°-30°	562.3	14.5
30°-40°	669.1	17.2
40°-50°	694.7	17.9
50°-60°	629.4	16.2
60°-70°	474.9	12.2
70°-80°	258.8	6.7
80°-90°	56.9	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°	1096.5	28.3
0°-40°	1765.6	45.5
0°-60°	3089.7	79.6
0°-90°	3880.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3880.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1670	1670	1670	1670	1670	
5°	1598	1594	1587	1586	1587	148
15°	1368	1365	1366	1375	1379	386
25°	1201	1211	1221	1231	1228	554
35°	1042	1054	1072	1088	1083	651
45°	865	880	910	920	921	669
55°	667	683	718	723	721	596
65°	449	462	495	494	492	444
75°	227	236	250	252	248	241
85°	43	43	44	43	42	54
90°	0	0	0	0	0	



TEST NUMBER: P489762

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-1HI-40-120-EDD-90

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1670.5	1670.5	1670.5	1670.5	1670.5
2.5°	1655.9	1654.2	1648.8	1646.7	1646.3
5°	1597.9	1594.1	1586.6	1585.8	1586.6
7.5°	1528.6	1524.4	1516.9	1519.8	1523.6
10°	1470.2	1459.7	1456.8	1461.0	1468.1
12.5°	1418.0	1409.6	1407.1	1418.0	1423.0
15°	1368.3	1365.0	1365.8	1375.0	1379.2
17.5°	1325.3	1323.2	1328.7	1335.8	1337.9
20°	1282.3	1286.5	1291.5	1299.0	1301.5
22.5°	1240.2	1248.1	1256.5	1266.5	1263.1
25°	1201.4	1211.4	1221.0	1231.0	1228.1
27.5°	1160.0	1171.7	1185.1	1195.9	1191.7
30°	1120.3	1135.0	1147.9	1161.3	1155.0
32.5°	1081.1	1094.9	1110.3	1126.6	1119.5
35°	1041.5	1054.0	1071.9	1088.2	1082.8
37.5°	997.6	1013.1	1033.5	1047.7	1044.0
40°	956.7	970.9	995.6	1004.7	1003.9
42.5°	915.4	927.1	953.0	963.4	961.7
45°	864.9	880.3	910.0	920.0	920.8
47.5°	820.2	833.2	864.9	872.8	874.5
50°	768.9	785.2	816.9	826.5	827.8
52.5°	718.4	735.9	768.5	775.1	776.4
55°	667.0	682.9	718.4	723.4	721.3
57.5°	613.2	632.4	665.0	667.5	669.5
60°	560.6	577.3	609.0	612.3	607.8
62.5°	503.4	520.5	553.1	553.9	550.1
65°	449.1	462.1	495.0	494.2	491.7
67.5°	392.4	408.2	432.5	433.3	431.2
70°	339.4	350.2	373.6	374.0	369.0
72.5°	282.2	293.9	312.6	310.1	308.9
75°	226.7	235.8	250.5	252.1	247.9
77.5°	175.7	182.4	193.3	192.0	187.4
80°	123.5	129.0	136.9	135.3	130.2
82.5°	78.9	82.2	87.3	85.2	83.1
85°	43.0	43.4	43.8	43.4	42.2
87.5°	15.9	16.3	16.3	15.9	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)