

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: P489303

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-3LO-30-120-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: P489303  
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-24-2-INS-P12125-LD4-3LO-30-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

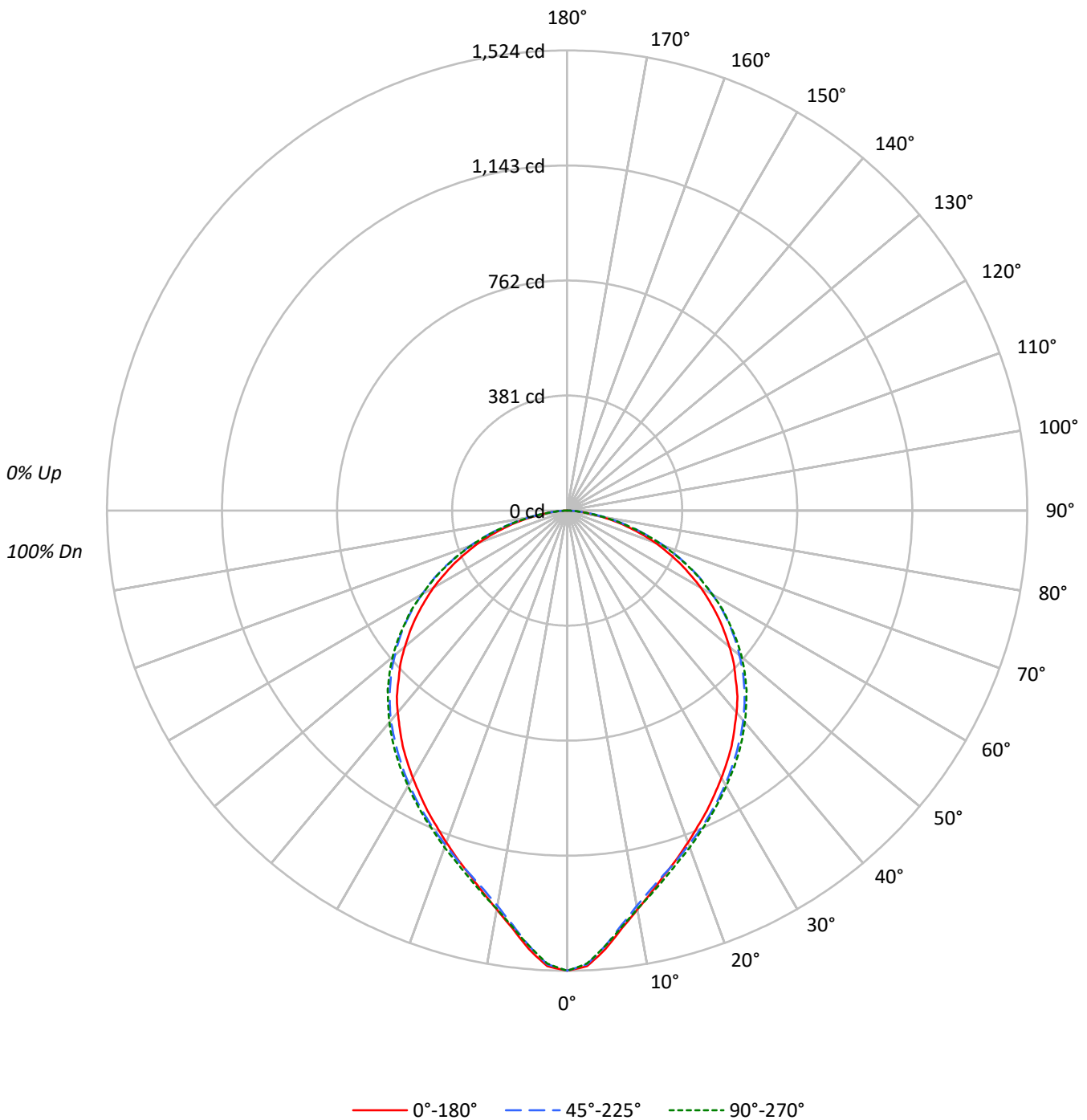
Lumens per Lamp: N/A  
Luminaire Lumens: 3539.5 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.1  
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: P489303

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-3LO-30-120-EDD

### Luminous Intensity Polar Plot





TEST NUMBER: P489303

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-3LO-30-120-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°	4101	4101	4101
5°	3937	3910	3910
10°	3664	3631	3659
15°	3477	3471	3505
20°	3350	3374	3400
25°	3254	3307	3326
30°	3175	3254	3274
35°	3121	3212	3245
40°	3066	3190	3217
45°	3002	3159	3197
50°	2936	3120	3161
55°	2854	3074	3087
60°	2752	2990	2984
65°	2609	2876	2856
70°	2435	2681	2648
75°	2150	2376	2352
80°	1746	1936	1841
85°	1210	1235	1189



TEST NUMBER: P489303

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-3LO-30-120-EDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.6	3.8
10°-20°	352.7	10.0
20°-30°	512.9	14.5
30°-40°	610.3	17.2
40°-50°	633.7	17.9
50°-60°	574.1	16.2
60°-70°	433.2	12.2
70°-80°	236.1	6.7
80°-90°	51.9	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°	1000.2	28.3
0°-40°	1610.5	45.5
0°-60°	2818.4	79.6
0°-90°	3539.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3539.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1524	1524	1524	1524	1524	
5°	1458	1454	1447	1446	1447	135
15°	1248	1245	1246	1254	1258	352
25°	1096	1105	1114	1123	1120	505
35°	950	961	978	993	988	594
45°	789	803	830	839	840	610
55°	608	623	655	660	658	543
65°	410	422	452	451	448	405
75°	207	215	228	230	226	220
85°	39	40	40	40	38	49
90°	0	0	0	0	0	



TEST NUMBER: P489303

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-3LO-30-120-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1523.8	1523.8	1523.8	1523.8	1523.8
2.5°	1510.5	1509.0	1504.0	1502.1	1501.7
5°	1457.6	1454.1	1447.3	1446.5	1447.3
7.5°	1394.3	1390.5	1383.7	1386.4	1389.8
10°	1341.0	1331.5	1328.8	1332.7	1339.1
12.5°	1293.4	1285.8	1283.5	1293.4	1298.0
15°	1248.1	1245.1	1245.9	1254.2	1258.0
17.5°	1208.9	1207.0	1212.0	1218.4	1220.3
20°	1169.7	1173.5	1178.1	1184.9	1187.2
22.5°	1131.2	1138.5	1146.1	1155.2	1152.2
25°	1095.8	1105.0	1113.7	1122.9	1120.2
27.5°	1058.1	1068.8	1081.0	1090.9	1087.1
30°	1021.9	1035.3	1047.1	1059.3	1053.6
32.5°	986.2	998.7	1012.8	1027.7	1021.2
35°	950.0	961.4	977.8	992.7	987.7
37.5°	910.0	924.1	942.7	955.7	952.3
40°	872.7	885.7	908.1	916.5	915.7
42.5°	835.0	845.7	869.3	878.8	877.3
45°	788.9	803.0	830.1	839.2	840.0
47.5°	748.2	760.0	788.9	796.2	797.7
50°	701.4	716.2	745.2	753.9	755.1
52.5°	655.3	671.3	701.0	707.1	708.2
55°	608.4	622.9	655.3	659.9	658.0
57.5°	559.3	576.9	606.6	608.8	610.7
60°	511.3	526.6	555.5	558.6	554.4
62.5°	459.2	474.8	504.5	505.3	501.8
65°	409.7	421.5	451.6	450.8	448.5
67.5°	357.9	372.4	394.5	395.2	393.3
70°	309.5	319.4	340.8	341.2	336.6
72.5°	257.4	268.1	285.2	282.9	281.8
75°	206.8	215.1	228.5	230.0	226.2
77.5°	160.3	166.4	176.3	175.2	171.0
80°	112.7	117.6	124.9	123.4	118.8
82.5°	71.9	75.0	79.6	77.7	75.8
85°	39.2	39.6	40.0	39.6	38.5
87.5°	14.5	14.9	14.9	14.5	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)