

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: P488500

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-2HI-35-120-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: P488500  
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-12-2-INS-P12125-LD4-2HI-35-120-EDD-90  
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

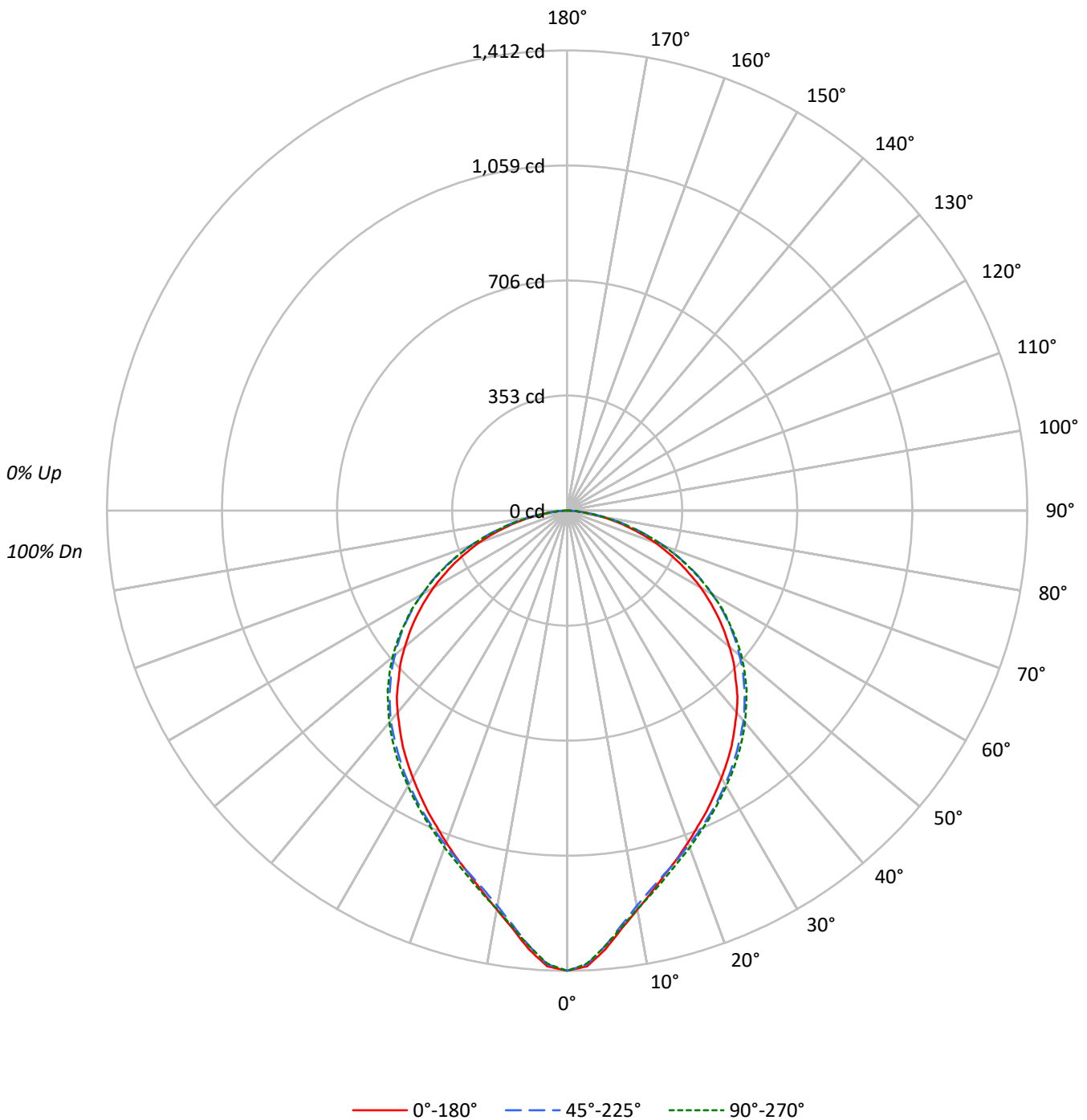
Lumens per Lamp: N/A  
Luminaire Lumens: 3279.7 lumens  
Efficiency: N/A  
Efficacy: 75.9 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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: P488500

CATALOG NUMBER: CLM-12-2-INS-P12125-LD4-2HI-35-120-EDD-90

### Luminous Intensity Polar Plot





TEST NUMBER: P488500

CATALOG NUMBER: CLM-12-2-INS-P12125-LD4-2HI-35-120-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°	7599	7599	7599
5°	7297	7245	7245
10°	6791	6729	6781
15°	6444	6432	6495
20°	6207	6252	6301
25°	6030	6128	6164
30°	5885	6029	6067
35°	5784	5953	6013
40°	5682	5912	5961
45°	5564	5854	5924
50°	5442	5781	5858
55°	5290	5697	5721
60°	5100	5540	5529
65°	4834	5328	5293
70°	4513	4969	4908
75°	3984	4402	4358
80°	3236	3586	3412
85°	2242	2285	2198



TEST NUMBER: P488500

CATALOG NUMBER: CLM-12-2-INS-P12125-LD4-2HI-35-120-EDD-90

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.8	3.8
10°-20°	326.8	10.0
20°-30°	475.2	14.5
30°-40°	565.5	17.2
40°-50°	587.2	17.9
50°-60°	532.0	16.2
60°-70°	401.4	12.2
70°-80°	218.7	6.7
80°-90°	48.1	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°	926.8	28.3
0°-40°	1492.3	45.5
0°-60°	2611.5	79.6
0°-90°	3279.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3279.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1412	1412	1412	1412	1412	
5°	1351	1347	1341	1340	1341	125
15°	1156	1154	1154	1162	1166	326
25°	1015	1024	1032	1040	1038	468
35°	880	891	906	920	915	550
45°	731	744	769	778	778	565
55°	564	577	607	611	610	503
65°	380	391	418	418	416	375
75°	192	199	212	213	210	204
85°	36	37	37	37	36	46
90°	0	0	0	0	0	



TEST NUMBER: P488500

CATALOG NUMBER: CLM-12-2-INS-P12125-LD4-2HI-35-120-EDD-90

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1412.0	1412.0	1412.0	1412.0	1412.0
2.5°	1399.6	1398.2	1393.6	1391.8	1391.5
5°	1350.6	1347.4	1341.0	1340.3	1341.0
7.5°	1292.0	1288.5	1282.1	1284.6	1287.8
10°	1242.6	1233.8	1231.3	1234.8	1240.8
12.5°	1198.5	1191.4	1189.3	1198.5	1202.8
15°	1156.5	1153.7	1154.4	1162.2	1165.7
17.5°	1120.2	1118.4	1123.0	1129.0	1130.8
20°	1083.8	1087.4	1091.6	1098.0	1100.1
22.5°	1048.2	1054.9	1062.0	1070.4	1067.6
25°	1015.4	1023.9	1032.0	1040.4	1038.0
27.5°	980.5	990.3	1001.6	1010.8	1007.3
30°	946.9	959.3	970.2	981.5	976.2
32.5°	913.8	925.4	938.5	952.2	946.2
35°	880.3	890.9	906.0	919.8	915.2
37.5°	843.2	856.3	873.6	885.5	882.4
40°	808.7	820.6	841.5	849.2	848.5
42.5°	773.7	783.6	805.5	814.3	812.9
45°	731.0	744.1	769.1	777.6	778.3
47.5°	693.3	704.2	731.0	737.7	739.1
50°	649.9	663.7	690.5	698.6	699.6
52.5°	607.2	622.0	649.5	655.2	656.2
55°	563.8	577.2	607.2	611.4	609.7
57.5°	518.3	534.5	562.0	564.1	565.9
60°	473.8	487.9	514.7	517.6	513.7
62.5°	425.5	440.0	467.5	468.2	465.0
65°	379.6	390.6	418.4	417.7	415.6
67.5°	331.6	345.0	365.5	366.2	364.5
70°	286.8	296.0	315.8	316.1	311.9
72.5°	238.5	248.4	264.2	262.1	261.1
75°	191.6	199.3	211.7	213.1	209.6
77.5°	148.5	154.2	163.4	162.3	158.4
80°	104.4	109.0	115.7	114.3	110.1
82.5°	66.7	69.5	73.7	72.0	70.2
85°	36.3	36.7	37.0	36.7	35.6
87.5°	13.4	13.8	13.8	13.4	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)