

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: P488800

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-2LO-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: P488800
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-12-4-INS-P12125-LD4-2LO-35-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

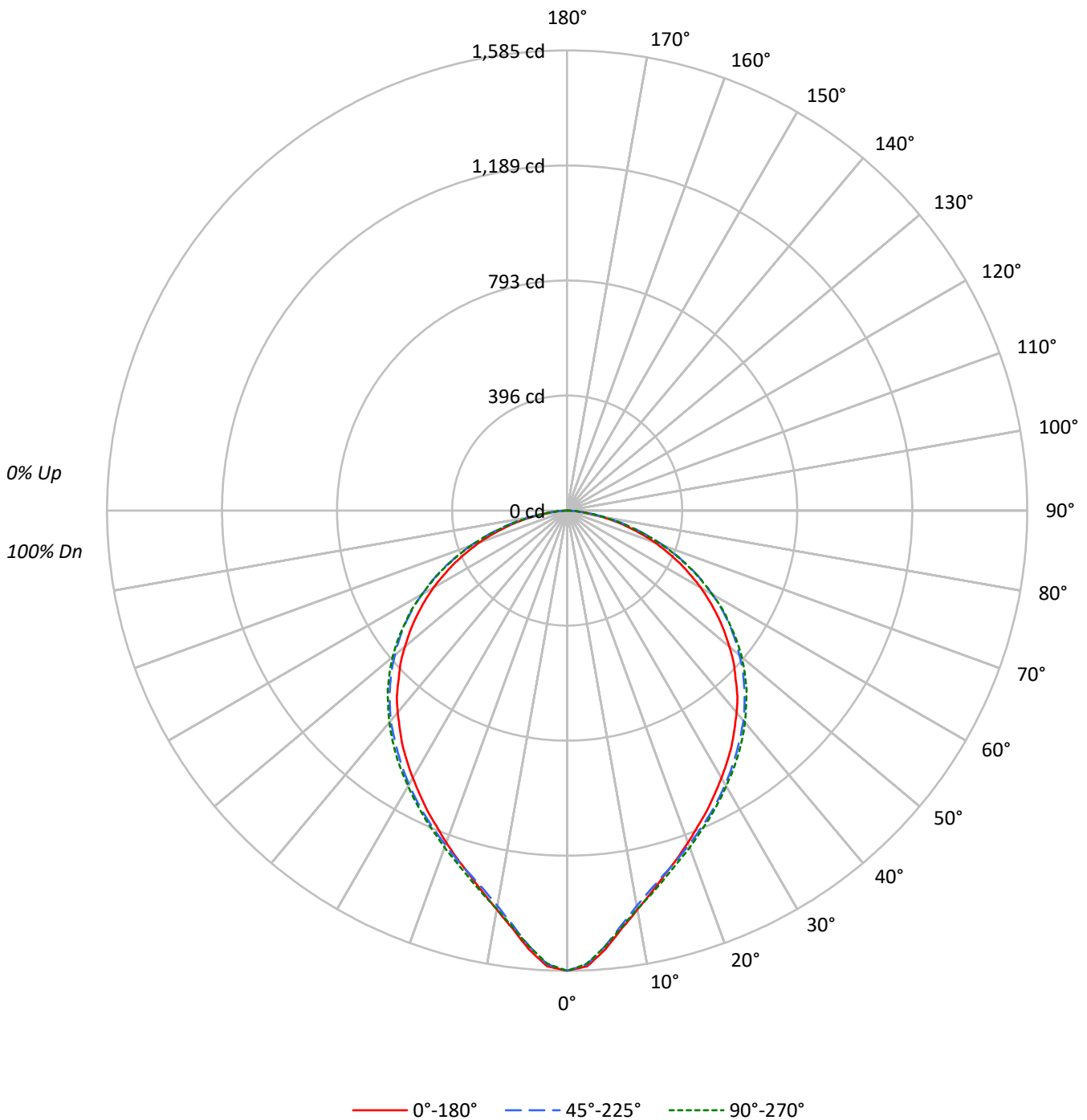
Lumens per Lamp: N/A
Luminaire Lumens: 3681.7 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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: P488800

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-2LO-35-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P488800

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-2LO-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°	4265	4265	4265
5°	4095	4066	4066
10°	3812	3777	3806
15°	3617	3610	3646
20°	3484	3509	3536
25°	3385	3440	3460
30°	3303	3384	3405
35°	3246	3341	3375
40°	3189	3318	3346
45°	3123	3286	3325
50°	3054	3245	3288
55°	2969	3198	3211
60°	2863	3110	3104
65°	2713	2991	2970
70°	2533	2789	2755
75°	2236	2470	2446
80°	1816	2013	1915
85°	1260	1284	1235



TEST NUMBER: P488800

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-2LO-35-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.1	3.8
10°-20°	366.9	10.0
20°-30°	533.5	14.5
30°-40°	634.8	17.2
40°-50°	659.2	17.9
50°-60°	597.2	16.2
60°-70°	450.6	12.2
70°-80°	245.5	6.7
80°-90°	54.0	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°	1040.4	28.3
0°-40°	1675.2	45.5
0°-60°	2931.6	79.6
0°-90°	3681.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3681.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1585	1585	1585	1585	1585	
5°	1516	1512	1505	1505	1505	141
15°	1298	1295	1296	1305	1309	366
25°	1140	1149	1158	1168	1165	525
35°	988	1000	1017	1032	1027	618
45°	821	835	863	873	874	634
55°	633	648	682	686	684	565
65°	426	438	470	469	466	421
75°	215	224	238	239	235	229
85°	41	41	42	41	40	51
90°	0	0	0	0	0	



TEST NUMBER: P488800

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-2LO-35-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1585.0	1585.0	1585.0	1585.0	1585.0
2.5°	1571.2	1569.6	1564.4	1562.4	1562.0
5°	1516.1	1512.5	1505.4	1504.6	1505.4
7.5°	1450.4	1446.4	1439.3	1442.1	1445.6
10°	1394.9	1385.0	1382.2	1386.2	1392.9
12.5°	1345.4	1337.5	1335.1	1345.4	1350.2
15°	1298.3	1295.1	1295.9	1304.6	1308.6
17.5°	1257.5	1255.5	1260.7	1267.4	1269.4
20°	1216.7	1220.7	1225.4	1232.5	1234.9
22.5°	1176.7	1184.2	1192.1	1201.6	1198.5
25°	1139.9	1149.4	1158.5	1168.0	1165.2
27.5°	1100.6	1111.7	1124.4	1134.7	1130.7
30°	1063.0	1076.9	1089.2	1101.8	1095.9
32.5°	1025.8	1038.9	1053.5	1069.0	1062.2
35°	988.2	1000.0	1017.1	1032.5	1027.4
37.5°	946.6	961.2	980.6	994.1	990.6
40°	907.8	921.2	944.6	953.3	952.5
42.5°	868.5	879.7	904.2	914.1	912.5
45°	820.6	835.3	863.4	872.9	873.7
47.5°	778.3	790.5	820.6	828.2	829.7
50°	729.5	745.0	775.1	784.2	785.4
52.5°	681.6	698.2	729.1	735.5	736.7
55°	632.9	647.9	681.6	686.4	684.4
57.5°	581.8	600.0	630.9	633.3	635.3
60°	531.9	547.7	577.8	581.0	576.7
62.5°	477.7	493.9	524.8	525.6	522.0
65°	426.1	438.4	469.7	468.9	466.5
67.5°	372.3	387.3	410.3	411.1	409.1
70°	322.0	332.3	354.5	354.9	350.1
72.5°	267.7	278.8	296.6	294.3	293.1
75°	215.1	223.8	237.6	239.2	235.3
77.5°	166.7	173.1	183.4	182.2	177.8
80°	117.2	122.4	129.9	128.3	123.6
82.5°	74.8	78.0	82.8	80.8	78.8
85°	40.8	41.2	41.6	41.2	40.0
87.5°	15.0	15.5	15.5	15.0	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)