

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: P488798

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-2LO-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: P488798  
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-30-120-EDD-90  
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

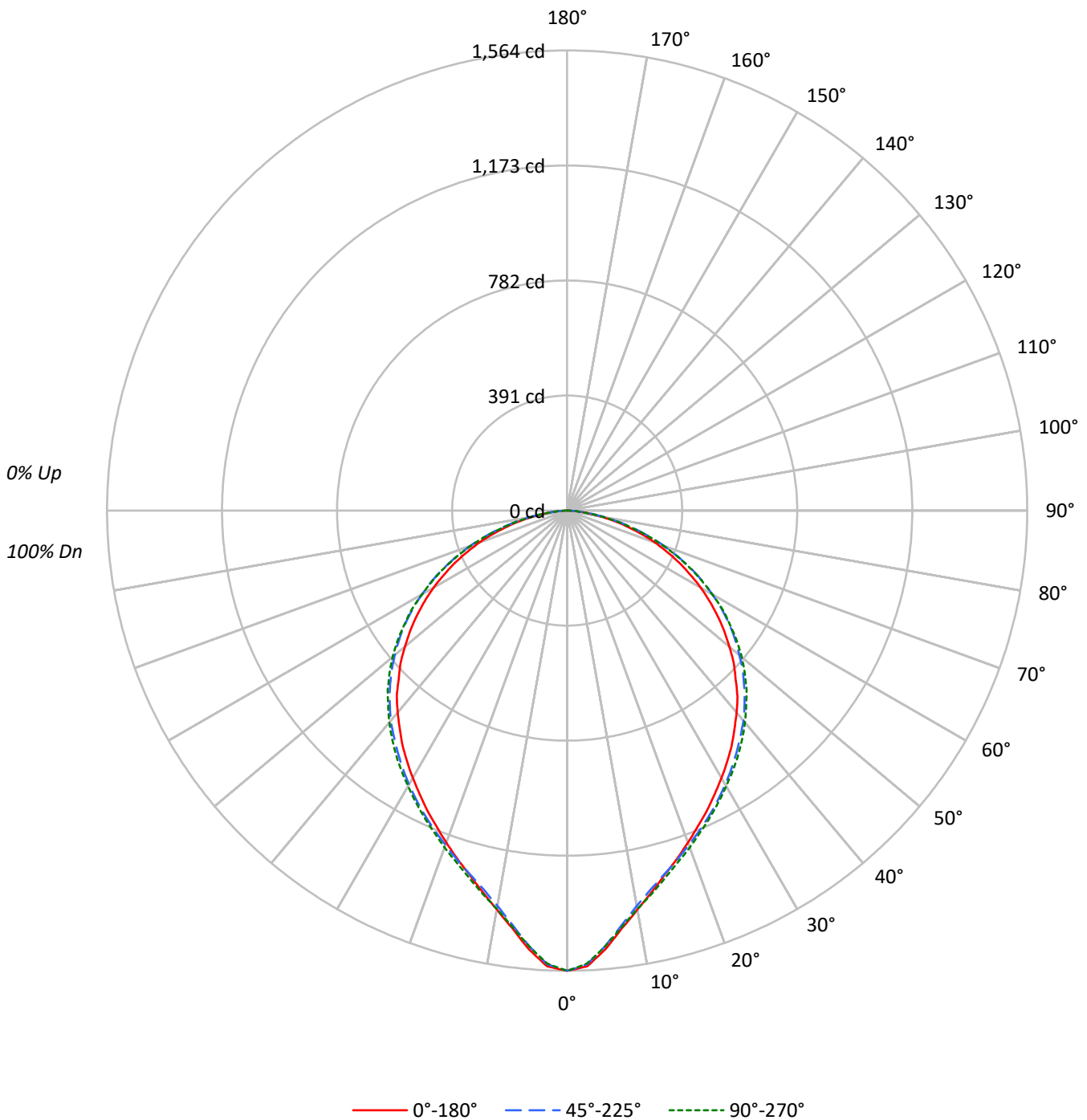
Lumens per Lamp: N/A  
Luminaire Lumens: 3633.1 lumens  
Efficiency: N/A  
Efficacy: 77.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

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: P488798

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-2LO-30-120-EDD-90

### Luminous Intensity Polar Plot





TEST NUMBER: P488798

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-2LO-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°	4209	4209	4209
5°	4041	4013	4013
10°	3761	3727	3756
15°	3569	3563	3597
20°	3438	3463	3490
25°	3340	3394	3414
30°	3260	3340	3360
35°	3203	3297	3330
40°	3147	3274	3302
45°	3082	3242	3281
50°	3014	3202	3244
55°	2930	3156	3169
60°	2825	3069	3063
65°	2677	2951	2932
70°	2500	2752	2718
75°	2206	2438	2414
80°	1793	1987	1889
85°	1244	1266	1220



TEST NUMBER: P488798

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-2LO-30-120-EDD-90

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.2	3.8
10°-20°	362.0	10.0
20°-30°	526.4	14.5
30°-40°	626.5	17.2
40°-50°	650.5	17.9
50°-60°	589.3	16.2
60°-70°	444.7	12.2
70°-80°	242.3	6.7
80°-90°	53.2	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°	1026.7	28.3
0°-40°	1653.1	45.5
0°-60°	2892.9	79.6
0°-90°	3633.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3633.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1564	1564	1564	1564	1564	
5°	1496	1493	1486	1485	1486	139
15°	1281	1278	1279	1287	1291	362
25°	1125	1134	1143	1153	1150	518
35°	975	987	1004	1019	1014	610
45°	810	824	852	861	862	626
55°	624	639	673	677	675	558
65°	420	433	464	463	460	416
75°	212	221	234	236	232	226
85°	40	41	41	41	40	51
90°	0	0	0	0	0	



TEST NUMBER: P488798

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-2LO-30-120-EDD-90

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1564.1	1564.1	1564.1	1564.1	1564.1
2.5°	1550.4	1548.9	1543.8	1541.8	1541.4
5°	1496.1	1492.6	1485.5	1484.8	1485.5
7.5°	1431.2	1427.3	1420.3	1423.0	1426.5
10°	1376.5	1366.7	1364.0	1367.9	1374.5
12.5°	1327.6	1319.8	1317.5	1327.6	1332.4
15°	1281.1	1278.0	1278.8	1287.4	1291.3
17.5°	1240.9	1238.9	1244.0	1250.7	1252.6
20°	1200.6	1204.5	1209.2	1216.3	1218.6
22.5°	1161.2	1168.6	1176.4	1185.8	1182.7
25°	1124.8	1134.2	1143.2	1152.6	1149.8
27.5°	1086.1	1097.0	1109.6	1119.7	1115.8
30°	1049.0	1062.7	1074.8	1087.3	1081.4
32.5°	1012.3	1025.2	1039.6	1054.9	1048.2
35°	975.1	986.8	1003.7	1018.9	1013.8
37.5°	934.1	948.5	967.7	981.0	977.5
40°	895.8	909.1	932.1	940.7	939.9
42.5°	857.1	868.0	892.3	902.0	900.5
45°	809.8	824.3	852.0	861.4	862.2
47.5°	768.0	780.1	809.8	817.2	818.8
50°	719.9	735.2	764.9	773.8	775.0
52.5°	672.6	689.0	719.5	725.8	727.0
55°	624.5	639.4	672.6	677.3	675.4
57.5°	574.1	592.1	622.6	624.9	626.9
60°	524.9	540.5	570.2	573.3	569.1
62.5°	471.3	487.4	517.9	518.6	515.1
65°	420.5	432.6	463.5	462.7	460.4
67.5°	367.4	382.2	404.9	405.7	403.7
70°	317.7	327.9	349.8	350.2	345.5
72.5°	264.2	275.1	292.7	290.4	289.2
75°	212.2	220.8	234.5	236.1	232.2
77.5°	164.5	170.8	181.0	179.8	175.5
80°	115.7	120.8	128.2	126.6	121.9
82.5°	73.9	77.0	81.7	79.7	77.8
85°	40.3	40.6	41.0	40.6	39.5
87.5°	14.9	15.2	15.2	14.9	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)