

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: P488749

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-1HI-27-120-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: P488749  
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-LD4-1HI-27-120-EDD  
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

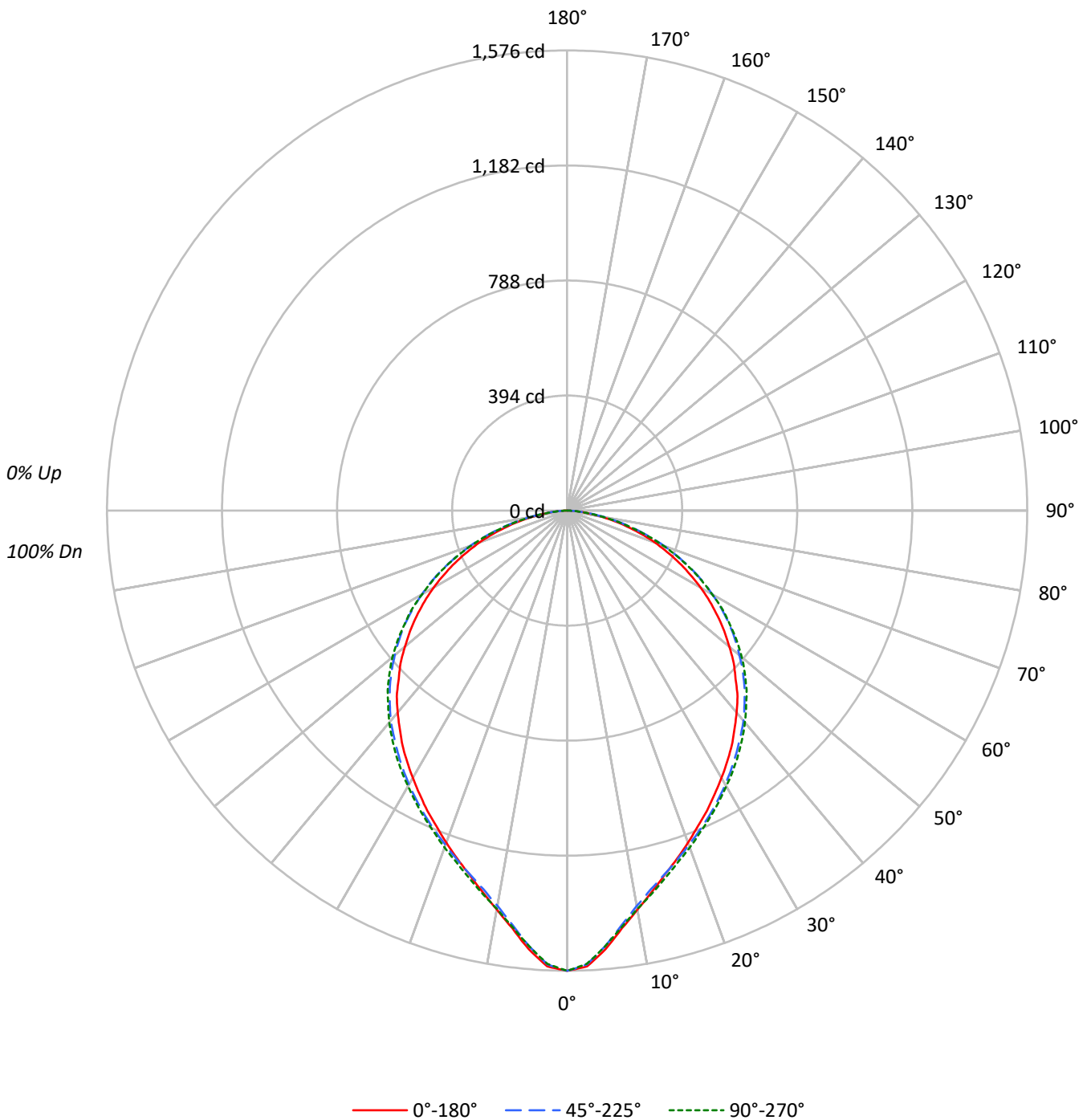
Lumens per Lamp: N/A  
Luminaire Lumens: 3661.5 lumens  
Efficiency: N/A  
Efficacy: 84.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P488749

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-1HI-27-120-EDD

### Luminous Intensity Polar Plot





TEST NUMBER: P488749

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-1HI-27-120-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°	4242	4242	4242
5°	4073	4044	4044
10°	3791	3756	3785
15°	3597	3590	3626
20°	3465	3490	3517
25°	3366	3421	3441
30°	3285	3366	3387
35°	3228	3323	3356
40°	3171	3300	3328
45°	3106	3268	3307
50°	3037	3227	3270
55°	2953	3180	3193
60°	2847	3093	3087
65°	2699	2974	2954
70°	2519	2773	2740
75°	2224	2457	2433
80°	1807	2002	1905
85°	1254	1275	1229



TEST NUMBER: P488749

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-1HI-27-120-EDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.3	3.8
10°-20°	364.8	10.0
20°-30°	530.6	14.5
30°-40°	631.3	17.2
40°-50°	655.6	17.9
50°-60°	593.9	16.2
60°-70°	448.2	12.2
70°-80°	244.2	6.7
80°-90°	53.7	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°	1034.7	28.3
0°-40°	1666.0	45.5
0°-60°	2915.5	79.6
0°-90°	3661.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3661.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1576	1576	1576	1576	1576	
5°	1508	1504	1497	1496	1497	140
15°	1291	1288	1289	1298	1301	364
25°	1134	1143	1152	1162	1159	522
35°	983	995	1012	1027	1022	614
45°	816	831	859	868	869	631
55°	629	644	678	683	681	562
65°	424	436	467	466	464	419
75°	214	223	236	238	234	228
85°	41	41	41	41	40	51
90°	0	0	0	0	0	



TEST NUMBER: P488749

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-1HI-27-120-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1576.3	1576.3	1576.3	1576.3	1576.3
2.5°	1562.5	1561.0	1555.8	1553.9	1553.5
5°	1507.8	1504.2	1497.2	1496.4	1497.2
7.5°	1442.4	1438.5	1431.4	1434.1	1437.7
10°	1387.3	1377.4	1374.6	1378.6	1385.3
12.5°	1338.0	1330.1	1327.8	1338.0	1342.8
15°	1291.1	1288.0	1288.8	1297.5	1301.4
17.5°	1250.6	1248.6	1253.7	1260.4	1262.4
20°	1210.0	1214.0	1218.7	1225.8	1228.1
22.5°	1170.2	1177.7	1185.6	1195.0	1191.9
25°	1133.6	1143.1	1152.1	1161.6	1158.8
27.5°	1094.6	1105.6	1118.2	1128.5	1124.5
30°	1057.2	1071.0	1083.2	1095.8	1089.9
32.5°	1020.2	1033.2	1047.7	1063.1	1056.4
35°	982.7	994.6	1011.5	1026.9	1021.7
37.5°	941.4	956.0	975.2	988.6	985.1
40°	902.8	916.2	939.4	948.1	947.3
42.5°	863.8	874.8	899.2	909.1	907.5
45°	816.1	830.7	858.7	868.1	868.9
47.5°	774.0	786.2	816.1	823.6	825.2
50°	725.5	740.9	770.8	779.9	781.1
52.5°	677.9	694.4	725.1	731.4	732.6
55°	629.4	644.4	677.9	682.6	680.6
57.5°	578.6	596.7	627.5	629.8	631.8
60°	529.0	544.7	574.7	577.8	573.5
62.5°	475.0	491.2	521.9	522.7	519.1
65°	423.8	436.0	467.1	466.4	464.0
67.5°	370.2	385.2	408.1	408.8	406.9
70°	320.2	330.5	352.5	352.9	348.2
72.5°	266.3	277.3	295.0	292.7	291.5
75°	213.9	222.6	236.3	237.9	234.0
77.5°	165.8	172.1	182.4	181.2	176.8
80°	116.6	121.7	129.2	127.6	122.9
82.5°	74.4	77.6	82.3	80.4	78.4
85°	40.6	40.9	41.3	40.9	39.8
87.5°	15.0	15.4	15.4	15.0	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)