

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: P488778

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-1STD-40-120-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: P488778  
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-LD4-1STD-40-120-EDD-90  
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

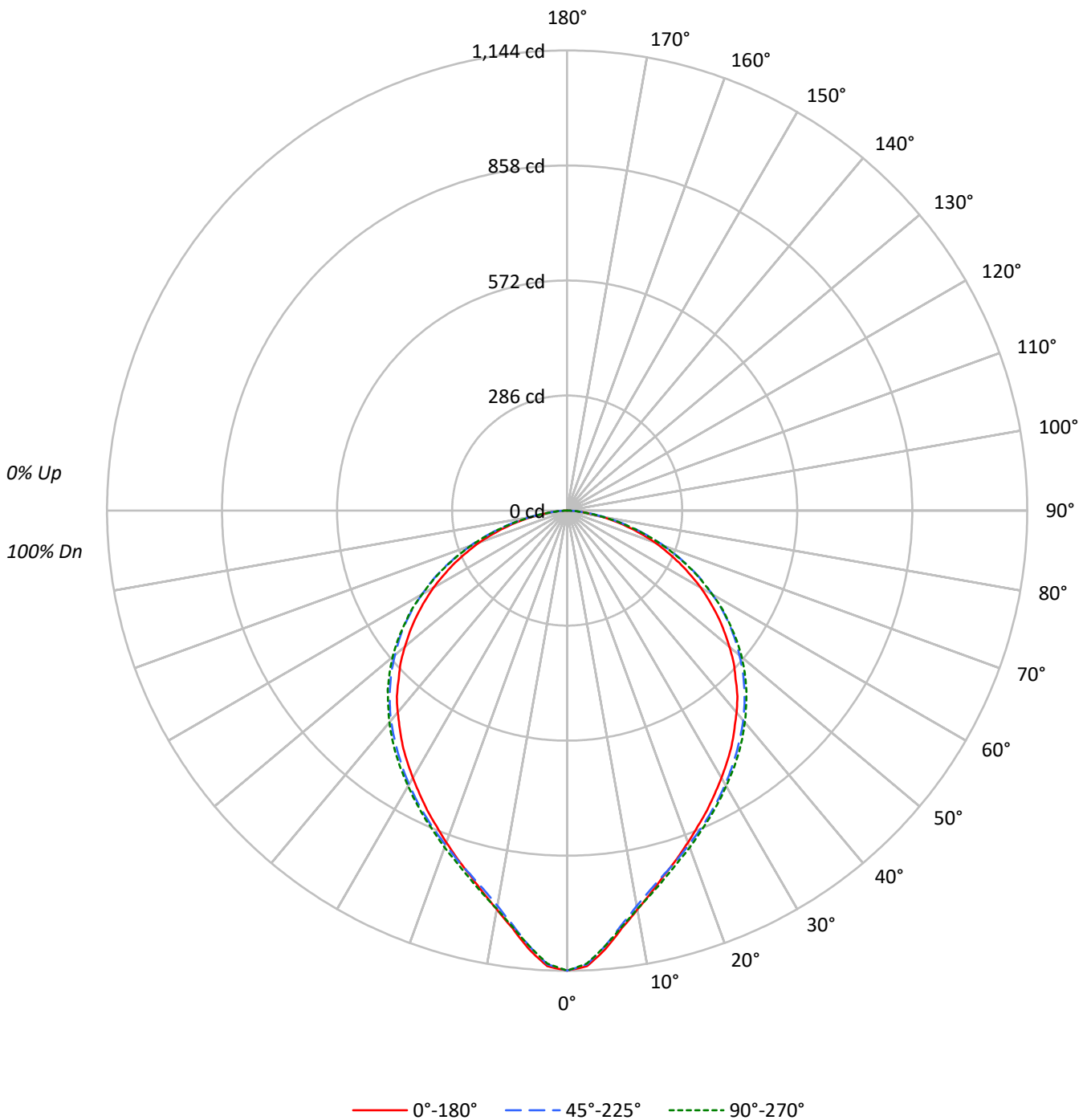
Lumens per Lamp: N/A  
Luminaire Lumens: 2656.8 lumens  
Efficiency: N/A  
Efficacy: 79.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
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: P488778

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-1STD-40-120-EDD-90

### Luminous Intensity Polar Plot





TEST NUMBER: P488778

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-1STD-40-120-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°	3078	3078	3078
5°	2955	2934	2934
10°	2751	2725	2747
15°	2610	2605	2631
20°	2514	2532	2552
25°	2442	2482	2496
30°	2384	2442	2457
35°	2343	2411	2436
40°	2301	2394	2415
45°	2254	2371	2399
50°	2204	2341	2373
55°	2143	2308	2317
60°	2066	2244	2239
65°	1958	2159	2144
70°	1828	2013	1988
75°	1614	1783	1765
80°	1311	1454	1382
85°	908	926	892



TEST NUMBER: P488778

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-1STD-40-120-EDD-90

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.1	3.8
10°-20°	264.7	10.0
20°-30°	385.0	14.5
30°-40°	458.1	17.2
40°-50°	475.7	17.9
50°-60°	430.9	16.2
60°-70°	325.2	12.2
70°-80°	177.2	6.7
80°-90°	38.9	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°	750.8	28.3
0°-40°	1208.9	45.5
0°-60°	2115.5	79.6
0°-90°	2656.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2656.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1144	1144	1144	1144	1144	
5°	1094	1092	1086	1086	1086	102
15°	937	935	935	941	944	264
25°	823	829	836	843	841	379
35°	713	722	734	745	741	446
45°	592	603	623	630	630	458
55°	457	468	492	495	494	408
65°	308	316	339	338	337	304
75°	155	162	172	173	170	165
85°	29	30	30	30	29	37
90°	0	0	0	0	0	



TEST NUMBER: P488778

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-1STD-40-120-EDD-90

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1143.8	1143.8	1143.8	1143.8	1143.8
2.5°	1133.8	1132.6	1128.9	1127.5	1127.2
5°	1094.1	1091.5	1086.3	1085.8	1086.3
7.5°	1046.6	1043.8	1038.6	1040.6	1043.2
10°	1006.6	999.5	997.4	1000.3	1005.2
12.5°	970.9	965.2	963.4	970.9	974.3
15°	936.9	934.6	935.2	941.4	944.3
17.5°	907.4	906.0	909.7	914.6	916.0
20°	878.0	880.9	884.3	889.4	891.1
22.5°	849.1	854.5	860.3	867.1	864.8
25°	822.6	829.4	836.0	842.8	840.8
27.5°	794.2	802.2	811.4	818.8	816.0
30°	767.1	777.1	786.0	795.1	790.8
32.5°	740.2	749.7	760.2	771.4	766.5
35°	713.1	721.7	734.0	745.1	741.4
37.5°	683.1	693.6	707.6	717.4	714.8
40°	655.1	664.8	681.6	687.9	687.4
42.5°	626.8	634.8	652.5	659.6	658.5
45°	592.2	602.8	623.0	629.9	630.5
47.5°	561.6	570.5	592.2	597.6	598.8
50°	526.5	537.6	559.3	565.9	566.8
52.5°	491.9	503.9	526.2	530.7	531.6
55°	456.7	467.6	491.9	495.3	493.9
57.5°	419.9	433.0	455.3	457.0	458.4
60°	383.8	395.3	417.0	419.3	416.1
62.5°	344.7	356.4	378.7	379.3	376.7
65°	307.5	316.4	339.0	338.4	336.7
67.5°	268.6	279.5	296.1	296.7	295.2
70°	232.3	239.8	255.8	256.1	252.7
72.5°	193.2	201.2	214.1	212.4	211.5
75°	155.2	161.5	171.5	172.6	169.8
77.5°	120.3	124.9	132.3	131.5	128.3
80°	84.6	88.3	93.8	92.6	89.2
82.5°	54.0	56.3	59.7	58.3	56.9
85°	29.4	29.7	30.0	29.7	28.9
87.5°	10.9	11.2	11.2	10.9	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)