

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: P488748

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-1HI-27-120-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: P488748  
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-90  
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

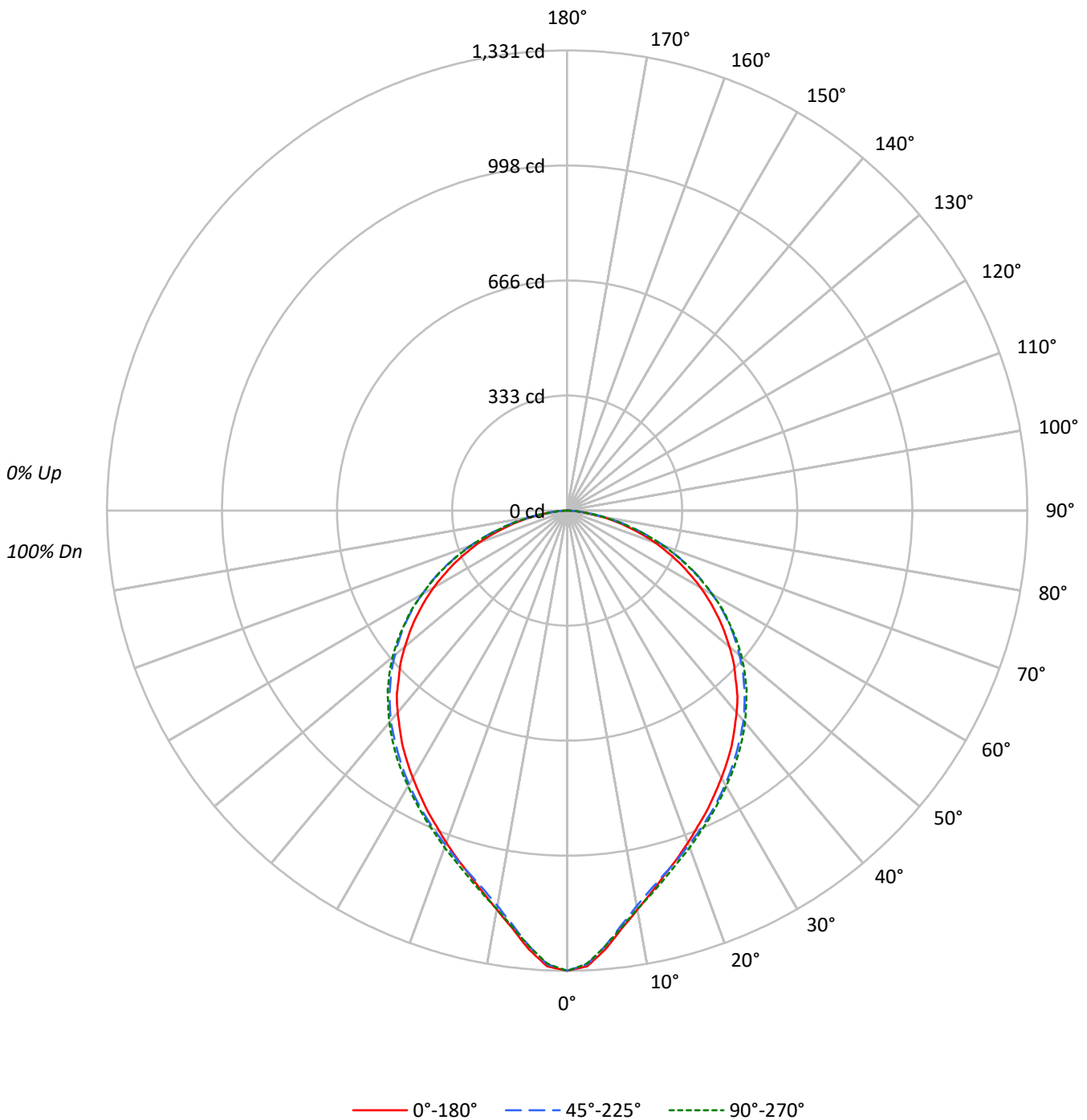
Lumens per Lamp: N/A  
Luminaire Lumens: 3091.7 lumens  
Efficiency: N/A  
Efficacy: 71.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P488748

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-1HI-27-120-EDD-90

### Luminous Intensity Polar Plot





TEST NUMBER: P488748

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-1HI-27-120-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°	3582	3582	3582
5°	3439	3415	3415
10°	3201	3172	3196
15°	3037	3032	3061
20°	2926	2947	2970
25°	2842	2888	2905
30°	2774	2842	2860
35°	2726	2806	2834
40°	2678	2786	2810
45°	2622	2759	2792
50°	2565	2725	2761
55°	2494	2685	2696
60°	2404	2611	2606
65°	2279	2511	2495
70°	2127	2342	2313
75°	1878	2075	2054
80°	1525	1691	1609
85°	1059	1078	1037



TEST NUMBER: P488748

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-1HI-27-120-EDD-90

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.6	3.8
10°-20°	308.1	10.0
20°-30°	448.0	14.5
30°-40°	533.1	17.2
40°-50°	553.5	17.9
50°-60°	501.5	16.2
60°-70°	378.4	12.2
70°-80°	206.2	6.7
80°-90°	45.3	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°	873.7	28.3
0°-40°	1406.8	45.5
0°-60°	2461.8	79.6
0°-90°	3091.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3091.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1331	1331	1331	1331	1331	
5°	1273	1270	1264	1264	1264	118
15°	1090	1088	1088	1096	1099	308
25°	957	965	973	981	978	441
35°	830	840	854	867	863	519
45°	689	701	725	733	734	533
55°	532	544	572	576	575	475
65°	358	368	394	394	392	354
75°	181	188	200	201	198	192
85°	34	35	35	35	34	43
90°	0	0	0	0	0	



TEST NUMBER: P488748

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-1HI-27-120-EDD-90

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1331.0	1331.0	1331.0	1331.0	1331.0
2.5°	1319.4	1318.0	1313.7	1312.1	1311.7
5°	1273.2	1270.2	1264.2	1263.5	1264.2
7.5°	1217.9	1214.6	1208.6	1211.0	1214.0
10°	1171.4	1163.1	1160.7	1164.1	1169.7
12.5°	1129.8	1123.1	1121.1	1129.8	1133.8
15°	1090.2	1087.6	1088.2	1095.6	1098.9
17.5°	1056.0	1054.3	1058.6	1064.3	1066.0
20°	1021.7	1025.0	1029.0	1035.0	1037.0
22.5°	988.1	994.4	1001.1	1009.1	1006.4
25°	957.2	965.2	972.8	980.8	978.5
27.5°	924.3	933.6	944.2	952.9	949.5
30°	892.7	904.3	914.6	925.3	920.3
32.5°	861.4	872.4	884.7	897.7	892.0
35°	829.8	839.8	854.1	867.1	862.7
37.5°	794.9	807.2	823.5	834.8	831.8
40°	762.3	773.6	793.2	800.5	799.9
42.5°	729.4	738.7	759.3	767.6	766.3
45°	689.1	701.4	725.0	733.0	733.7
47.5°	653.5	663.9	689.1	695.4	696.8
50°	612.6	625.6	650.9	658.5	659.5
52.5°	572.4	586.3	612.3	617.6	618.6
55°	531.5	544.1	572.4	576.4	574.7
57.5°	488.6	503.9	529.8	531.8	533.5
60°	446.7	460.0	485.2	487.9	484.3
62.5°	401.1	414.7	440.7	441.3	438.3
65°	357.9	368.2	394.4	393.8	391.8
67.5°	312.6	325.3	344.6	345.2	343.6
70°	270.4	279.0	297.7	298.0	294.0
72.5°	224.8	234.1	249.1	247.1	246.1
75°	180.6	187.9	199.6	200.9	197.6
77.5°	140.0	145.3	154.0	153.0	149.3
80°	98.4	102.8	109.1	107.8	103.8
82.5°	62.8	65.5	69.5	67.9	66.2
85°	34.3	34.6	34.9	34.6	33.6
87.5°	12.6	13.0	13.0	12.6	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)