

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: P488464

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-1HI-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: P488464  
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-12-2-INS-P12125-LD4-1HI-35-120-EDD-90  
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

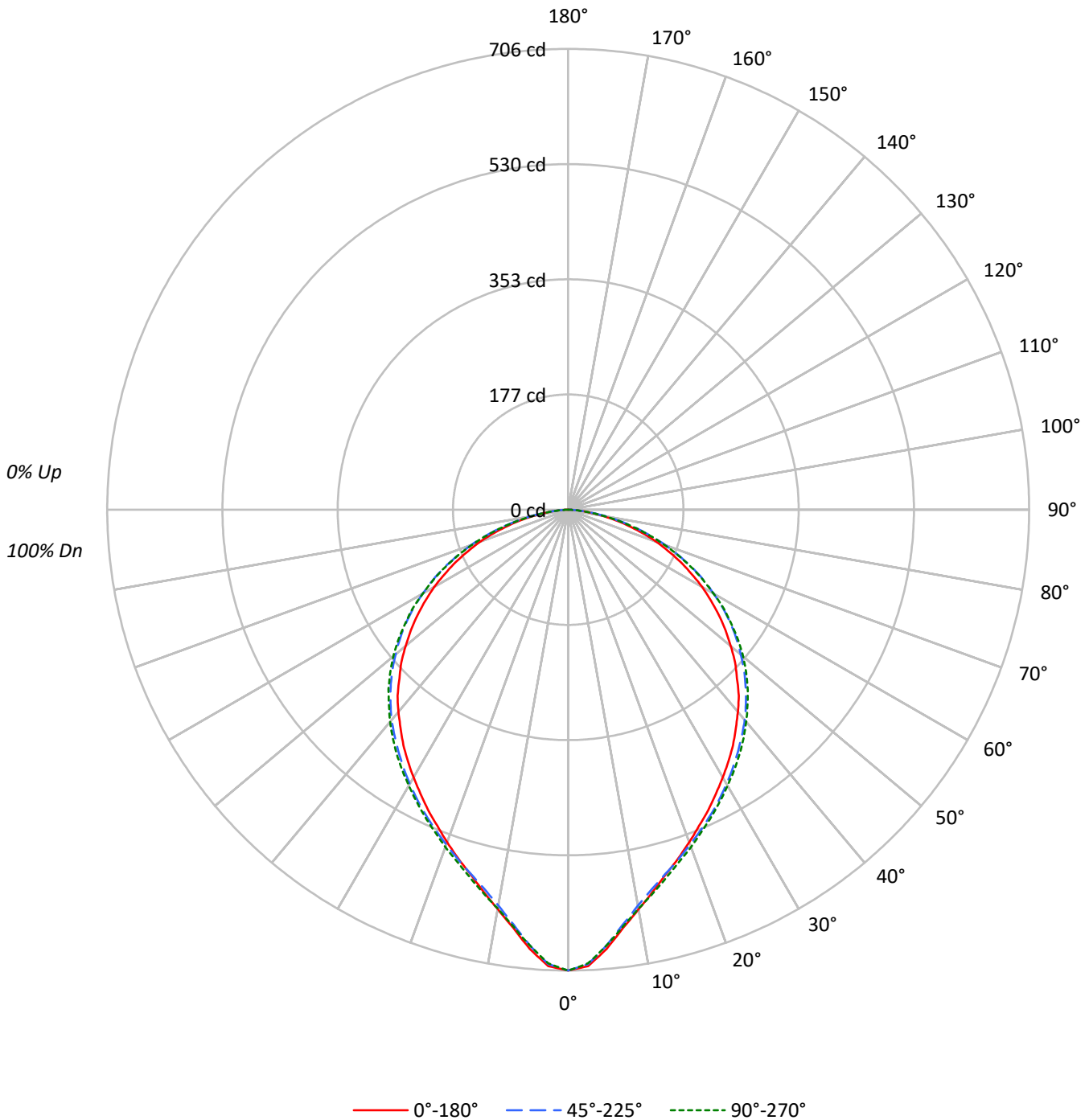
Lumens per Lamp: N/A  
Luminaire Lumens: 1639.8 lumens  
Efficiency: N/A  
Efficacy: 75.9 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.23  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.6  
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: P488464

CATALOG NUMBER: CLM-12-2-INS-P12125-LD4-1HI-35-120-EDD-90

### Luminous Intensity Polar Plot





TEST NUMBER: P488464

CATALOG NUMBER: CLM-12-2-INS-P12125-LD4-1HI-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°	3800	3800	3800
5°	3648	3622	3622
10°	3395	3364	3390
15°	3222	3216	3247
20°	3104	3126	3150
25°	3015	3064	3082
30°	2943	3015	3033
35°	2892	2976	3007
40°	2840	2956	2980
45°	2782	2927	2962
50°	2720	2890	2929
55°	2645	2849	2860
60°	2550	2771	2764
65°	2417	2664	2646
70°	2257	2485	2453
75°	1992	2200	2179
80°	1618	1795	1705
85°	1124	1142	1099



TEST NUMBER: P488464

CATALOG NUMBER: CLM-12-2-INS-P12125-LD4-1HI-35-120-EDD-90

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.4	3.8
10°-20°	163.4	10.0
20°-30°	237.6	14.5
30°-40°	282.7	17.2
40°-50°	293.6	17.9
50°-60°	266.0	16.2
60°-70°	200.7	12.2
70°-80°	109.4	6.7
80°-90°	24.0	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°	463.4	28.3
0°-40°	746.1	45.5
0°-60°	1305.7	79.6
0°-90°	1639.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1639.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	706	706	706	706	706	
5°	675	674	670	670	670	63
15°	578	577	577	581	583	163
25°	508	512	516	520	519	234
35°	440	445	453	460	458	275
45°	366	372	385	389	389	283
55°	282	289	304	306	305	252
65°	190	195	209	209	208	188
75°	96	100	106	107	105	102
85°	18	18	18	18	18	23
90°	0	0	0	0	0	



TEST NUMBER: P488464

CATALOG NUMBER: CLM-12-2-INS-P12125-LD4-1HI-35-120-EDD-90

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	706.0	706.0	706.0	706.0	706.0
2.5°	699.8	699.1	696.8	695.9	695.7
5°	675.3	673.7	670.5	670.2	670.5
7.5°	646.0	644.2	641.0	642.3	643.9
10°	621.3	616.9	615.6	617.4	620.4
12.5°	599.2	595.7	594.6	599.2	601.4
15°	578.2	576.8	577.2	581.1	582.8
17.5°	560.1	559.2	561.5	564.5	565.4
20°	541.9	543.7	545.8	549.0	550.0
22.5°	524.1	527.4	531.0	535.2	533.8
25°	507.7	511.9	516.0	520.2	519.0
27.5°	490.2	495.2	500.8	505.4	503.6
30°	473.5	479.6	485.1	490.7	488.1
32.5°	456.9	462.7	469.2	476.1	473.1
35°	440.1	445.4	453.0	459.9	457.6
37.5°	421.6	428.1	436.8	442.8	441.2
40°	404.3	410.3	420.7	424.6	424.2
42.5°	386.8	391.8	402.7	407.1	406.4
45°	365.5	372.0	384.6	388.8	389.1
47.5°	346.6	352.1	365.5	368.9	369.6
50°	324.9	331.8	345.2	349.3	349.8
52.5°	303.6	311.0	324.8	327.6	328.1
55°	281.9	288.6	303.6	305.7	304.8
57.5°	259.1	267.2	281.0	282.1	282.9
60°	236.9	244.0	257.4	258.8	256.8
62.5°	212.7	220.0	233.7	234.1	232.5
65°	189.8	195.3	209.2	208.9	207.8
67.5°	165.8	172.5	182.8	183.1	182.2
70°	143.4	148.0	157.9	158.1	155.9
72.5°	119.3	124.2	132.1	131.1	130.5
75°	95.8	99.7	105.8	106.6	104.8
77.5°	74.3	77.1	81.7	81.2	79.2
80°	52.2	54.5	57.9	57.2	55.0
82.5°	33.3	34.8	36.9	36.0	35.1
85°	18.2	18.3	18.5	18.3	17.8
87.5°	6.7	6.9	6.9	6.7	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)