



Point Source

CITILED High Intensity COB Series Version. 4 for Museum Lighting

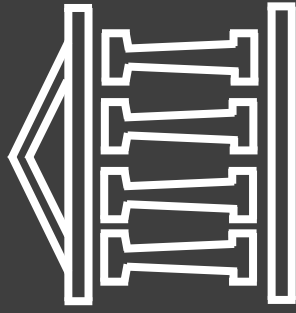


*Since this product is under development, please do not design lighting fixture or create a budget.
Citizen Electronics reserve the right to change or cancel without notice.*

Concept

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OPC23-0163-07



Special Features

1. Excellent color quality
2. Super High CRI both Ra / R9
3. White color without color tint



Basic Features

1. Based on CITIZEN HI Ver.4
High quality COB platform
2. Industry Standard outline/LES
(LES dia ϕ 4.2/6.0/8.5 mm)
3. Highly reliable COB PKG
13kH LM-80 report available

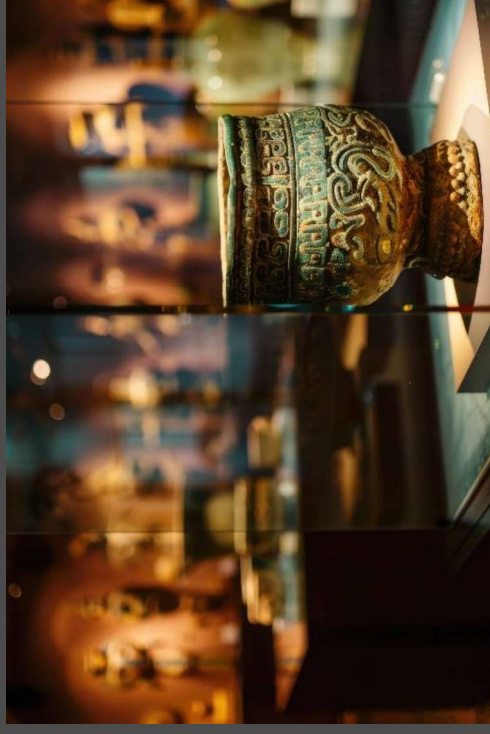
Model “UQ” Features

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Model “UQ” has excellent color quality.

- 1, Superior values in CRI, Target specs; **Ra > 95**, **R9 > 90**.
- 2, Pure white color, without color tint.
Based on **CITIZEN HI Ver4 COB** platform,
- 3, **Highly reliable** COB type LED PKG, 13kH LM-80 report available.*
- 4, Small LES COB, suitable for precise optical control and professional commercial luminaire design
e.g. Spot beam / Track system lighting in **museum**, retail shop, etc...



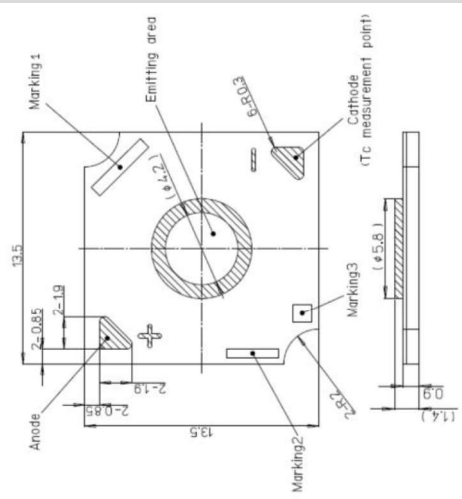
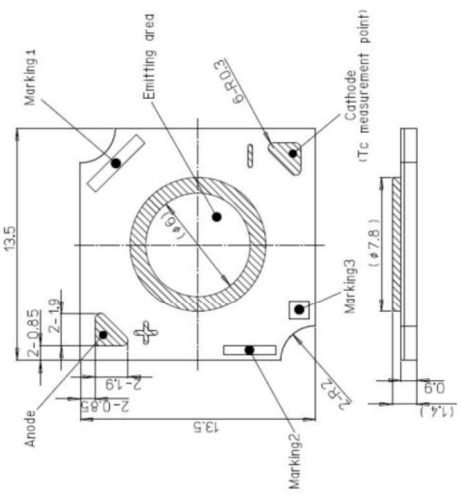
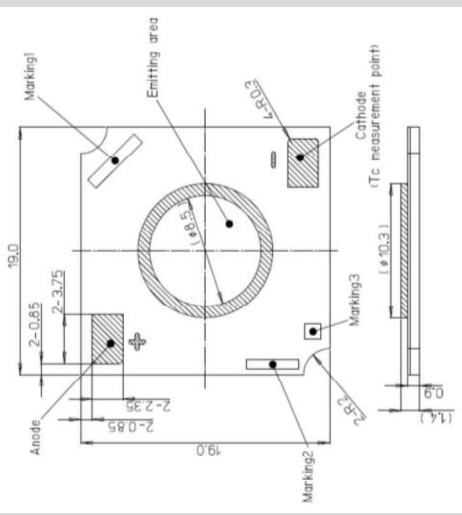
* Images are for reference purposes only.

CONFIDENTIAL All information and value might be changed or updated later. This is an uncontrolled drawing provided for reference purposes only.
Citizen Electronics Co.,LTD. reserves the right to implement engineering changes and to modify dimensions, design details, and materials as necessary.

Package Outline

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Package	CLU7A3	CLU703	CLU713
Appearance			
Outline (mm)	□13.5	□13.5	□19.0
LES (mm)	Φ4.2	Φ6.0	Φ8.5
Drawing			

Basic specifications are same as standard HI Ver.4 COB series, for details please refer the product specification and product leaflet for HI4 standard COBs.

Specification

@Tj=85C

Package	SDCM	IF (mA)	VF (V)	Pd (W)	Φv (lm)			Efficacy (lm/W)		
					4000K	3500K	3000K	4000K	3500K	3000K
CLU7A3-1201E1 -xx2 UQ X5	(2)	175	36.5	6.4	684	663	624	107	104	98
CLU703-1202E1 -xx2 UQ X5	(2)	350	36.5	12.8	1364	1314	1254	107	103	98
CLU713-1204E1 -xx2 UQ X5	(2)	700	36.5	25.6	2753	2646	2547	108	103	99

CCT(K)	Ra	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
4000K	97	98	97	94	96	99	96	98	99	98	96	93	80	99	96
3500K	97	98	99	95	95	99	97	98	98	95	97	92	85	98	96
3000K	97	98	99	94	95	99	97	97	98	98	96	93	87	99	96

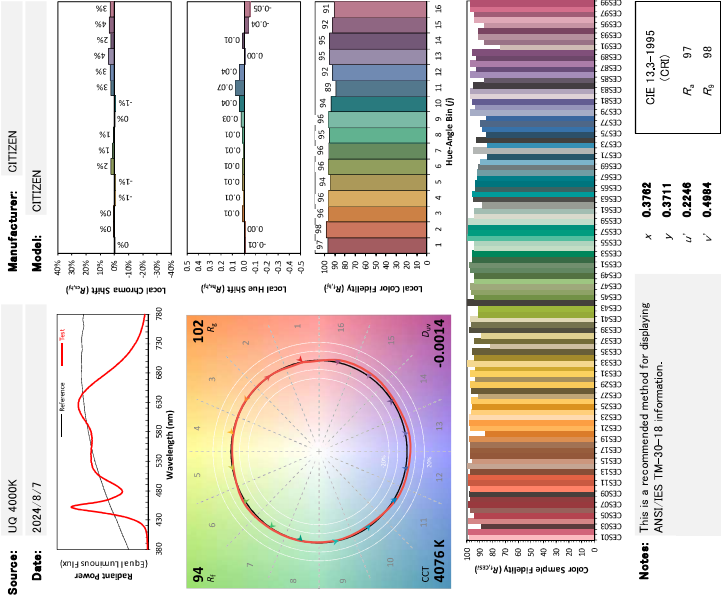
These are tentative specs from engineering sample for reference, the values may change without prior notice and NOT guaranteed the specification for mass production.

Color quality by TM-30-15

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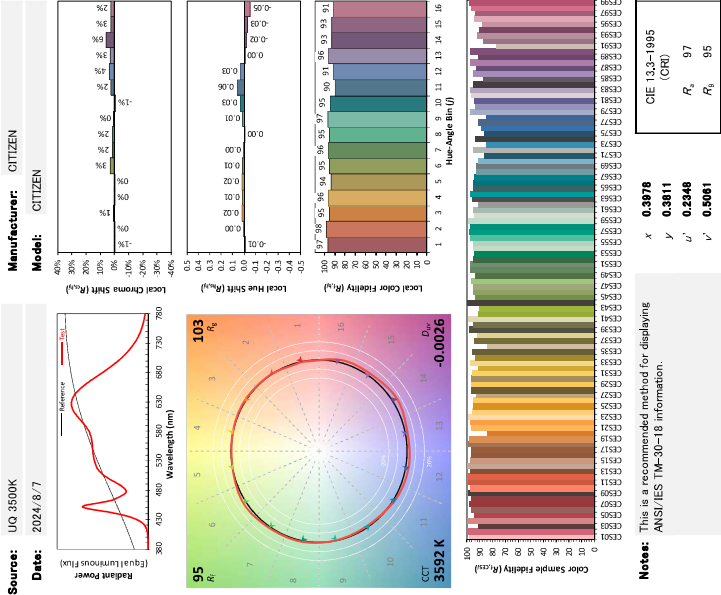
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ANSI/IES TM-30-18 Color Rendition Report



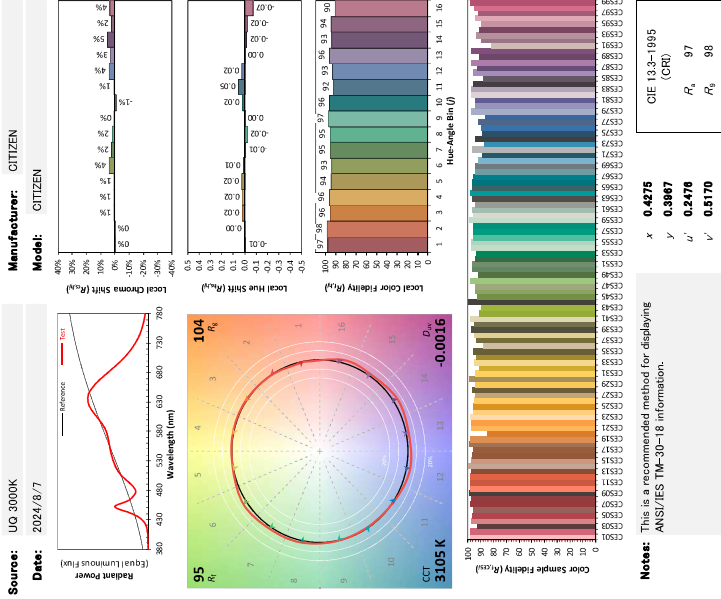
Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.

ANSI/IES TM-30-18 Color Rendition Report



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Schedules

Engineering Samples : Available (On Request*)

Mass Production : TBD (On Marketing)

UL Certification : Available

ENEC Certification : N/A (TBD)

LM80 report : Available*

*Please contact our sales team

Improving the performance of vivid products



Condition:
@3,000K, Ra90

HI series

CLU7A3-1201E1-303H5X3:
385 lm 3W 127LPW @Tj85C/If90mA/PKG
711 lm 6.4W 111LPW @Tj85C/If175mA/PKG

2021
HI4

LPW 5% up

LPW 18% down

2023

Hi4-Natural Vivid

CLU7A3-1201E1-30NV1N8:
314 lm 3W 104LPW @Tj85C/If90mA/PKG
581 lm 6.4W 91LPW @Tj85C/If175mA/PKG

NOTE:
Improvements are different for each CCT

2025

Hi4-Natural Vivid 2

CLU7A3-1201E1-30NV1**:
446 lm 3W 147LPW @Tj85C/If90mA/PKG

202x

HI5 (TBD)

CLU7A4-1201xx-303H5**:
5% UP lm/W (133LPW@Tj85/If90mA/PKG)
Follow Standard model
w/ Efficacy and other improvements.

NOTE:

Improvements are different for each CCT