

XLAMP® CMU & CHA LEDs

- Industry-leading performance in commonly-available LES sizes
- Pro9™ versions offer up to 15% higher efficacy for 90 & 95 CRI
- Optimized for outdoor & premium indoor lighting applications
- Premium color options: Fidelity (98 CRI) and Specialty (below BBL)

March 2023 (FS38R2)

PRODUCT SELECTOR: CMU ($T_j = 85^\circ\text{C}$)

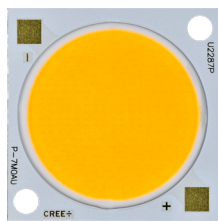
Compatible with Citizen Standard optics & holders

Light Emitting Surface (mm)	XLamp	Voltage Class	Typ. Current (A)	Typ. Voltage (V)	Max. Current (A)	Max. Power (W)	Standard Version 3000 K, 80 CRI		Pro9™ Version 3000 K, 90 CRI	
							Typ. Flux (lm)	Typ. LPW (lm/W)	Typ. Flux (lm)	Typ. LPW (lm/W)
9.8	CMU1003	36V	0.090	33.7	0.240	9	495	163	522	172
	CMU1006	36V	0.180	33.7	0.480	17	975	161	1,032	170
	CMU1010	36V	0.270	33.7	0.720	26	1,493	158	1,524	167
	CMU1013	36V	0.360	33.7	0.960	35	1,879	155	1,992	164
14.5	CMU1516	36V	0.450	33.7	1.200	43	2,454	162	2,575	170
	CMU1519	36V	0.540	33.7	1.440	52	2,914	160	3,057	168
	CMU1526	36V	0.720	33.7	1.920	69	3,808	157	3,995	165
	CMU1532	36V	0.900	33.7	2.400	86	4,732	156	4,963	164
22	CMU2236	36V	0.990	33.7	2.640	95	5,419	162	5,737	172
	CMU2239	36V	1.080	33.7	2.880	104	5,909	162	6,253	172
	CMU2258	54V	1.080	50.5	2.880	156	8,651	159	9,154	168
	CMU2287	54V	1.620	50.5	4.320	233	12,625	154	13,361	163

PRODUCT SELECTOR: CHA ($T_j = 85^\circ\text{C}$)

Compatible with Citizen High Intensity optics & holders

Light Emitting Surface (mm)	XLamp	Voltage Class	Typ. Current (A)	Typ. Voltage (V)	Max. Current (A)	Max. Power (W)	Standard Version 3000 K, 80 CRI		Pro9™ Version 3000 K, 90 CRI	
							Typ. Flux (lm)	Typ. LPW (lm/W)	Typ. Flux (lm)	Typ. LPW (lm/W)
3.3	CHA0304	21V	0.175	21	0.300	7	449	122	460	125
4.2	CHA0410	12V	0.525	12	0.900	12	783	124	801	127
		36V	0.175	36	0.300	12	783	124	801	127
6.0	CHA0612	18V	0.700	18	1.200	24	1,587	126	1,623	129
		36V	0.350	36	0.600	24	1,587	126	1,623	129
8.5	CHA0825	36V	0.700	36	1.200	47	3,214	128	3,528	140



CMU10xx

CMU15xx

CMU22xx

CHA0304

CHA0410

CHA0612

CHA0825

CRI & CCT OPTIONS

Version	CRI	Standard Colors							
		6500K	5700K	5000K	4000K	3500K	3000K	2700K	2200K
Standard	70	#	#	#	#		#		
	80	#	#	#	o	o	o	o	#
	90		#	#	o	o	o	o	
Pro9™	90			#	o	o	o	o	

= CMU only o = CMU & CHA

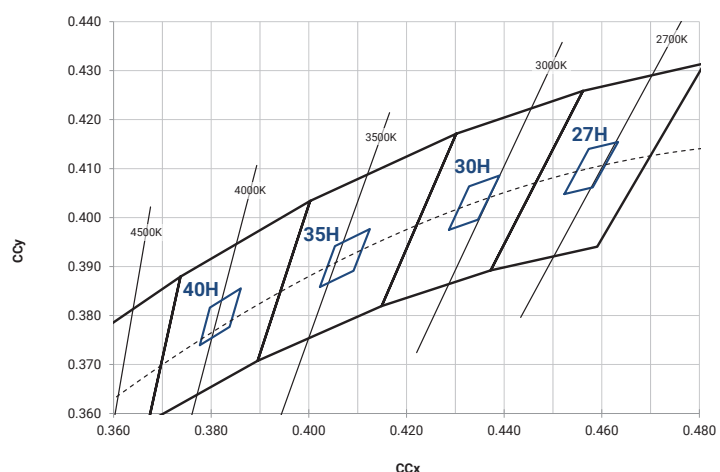
Colors	CRI	Premium Colors					
		4000K	3500K	3100K below BBL	3000K	3000K below BBL	2700K
Fidelity	98	40H	35H		30H		27H
Specialty	90			31Q		30Q 30U	
	95					L7C	

COLOR RENDERING REFERENCE DATA: PREMIUM COLORS

Metric	Standard Version								Pro9™ Version							
	40H	35H	30H	27H	31Q	30Q	30U	L7C	40H	35H	30H	27H	31Q	30Q	30U	L7C
CRI Ra	97	97	98	98	91	92	92	96	96	98	98	97	93	94	93	96
CRI R9	95	97	92	93	56	58	60	93	86	88	89	88	59	63	61	93
TM-30 Rf	91	91	93	96	90	89	89	92	92	94	94	94	90	92	91	92
TM-30 Rg	99	99	99	101	100	99	101	101	99	100	99	99	98	99	100	101

PREMIUM COLORS: FIDELITY

On BBL for Halogen appearance



PREMIUM COLORS: SPECIALTY

Below BBL for CMH appearance

