

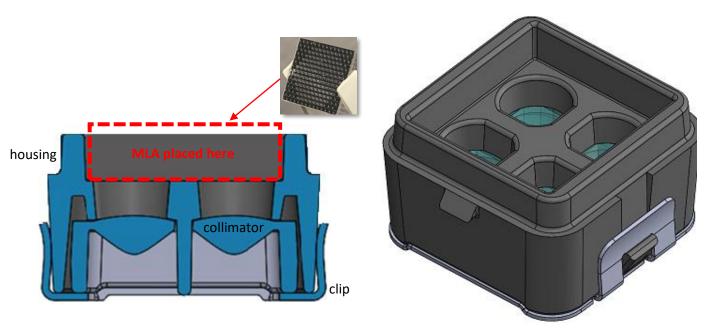
#### CoreLED P/N 13020

### **Product Description:**

Surface mountable submodule designed for Quad MLA. Submodule is comprised of a metal clip for PCB attachment, collimating 2x2 lens array and a housing. A separate cap to retain MLA is available.

# **Key Features:**

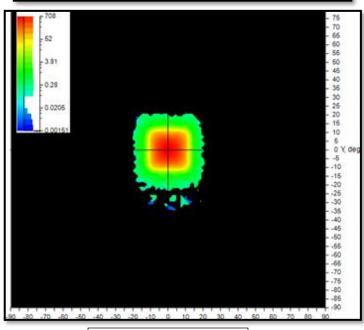
- o Collimating optics designed to work with Osram Oslon Boost HM
- o Other LEDs can be analyzed for fit & performance upon request from CoreLED
- Supplied in tape and reel
- $\circ$  Precision alignment (within  $\pm 0.2$ mm)
- o Standard pick and place equipment



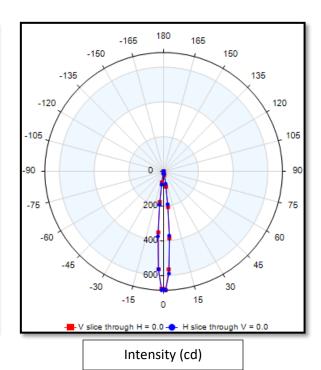


# **Emitted Pattern Profile**Oslon Boost HM KW CULPM1.TG

CHARACTERISTICS	
IES NEMA Type	2H x 2V
Maximum Candela	684
Maximum Candela Angle	0.0H -1.0V
Horizontal Beam Angle (50%)	10.6
Vertical Beam Angle (50%)	10.7
Horizontal Field Angle (10%)	18.5
Vertical Field Angle (10%)	18.4
Total Rated Lamp Lumens	100
Total Efficiency	28.25%



Angular Intensity (cd)



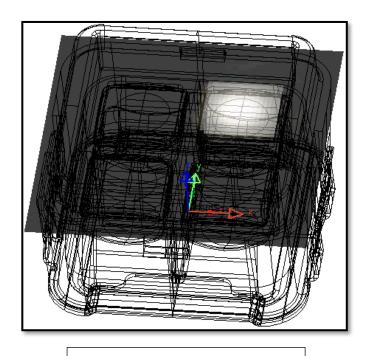
IES files and Raytrace models are available upon request from CoreLed Engineering.



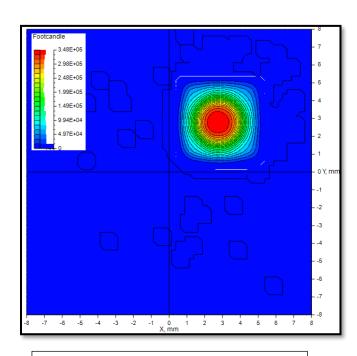
#### **Simulation**

OSRAM OSLON Boost HM with surface mount array mask and lens with 100 lumens

1H x 1V 879 0.0H 0.0V 9.5 9.4 17.4 17.4



Illuminance on a plane (7mm away)



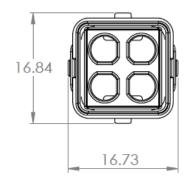
Linear Illuminance on a plane (7mm away)

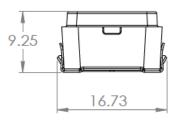
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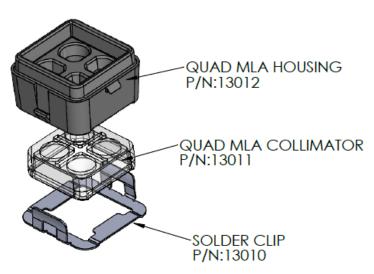
# PROTOTYPE ONLY







### **EXPLODED VIEW**

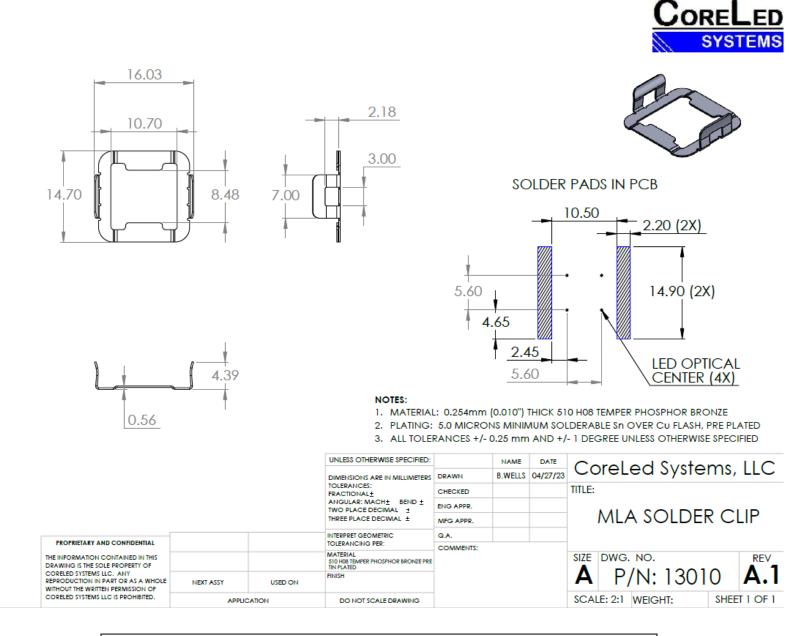


	UNLESS OTHERWISE SPECIFIED:		NAME	DATE	Caralad Systems IIC		
TOLERAN	DIMENSIONS ARE IN MILLIMETERS	DRAWN	B.WELLS	3/28/23	CoreLed Systems, LLC		
	TOLERANCES: FRACTIONAL±	CHECKED					
	ANGULAR: MACH± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	ENG APPR.			QUAD MLA		
		MFG APPR.			SUB-MODULE		
PROPRIETARY AND CONFIDENTIAL	INTERPRET GEOMETRIC	Q.A.			30D-MODULE		
PROPRIETARY AND CONFIDENTIAL	TOLERANCING PER:	COMMENTS:					
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF	MATERIAL				SIZE DWG. NO. REV		
CORELED SYSTEMS LLC. ANY  REPRODUCTION IN PART OR AS A WHOLE  WITHOUT THE WRITTEN PERMISSION OF	FINISH				<b>A</b> P/N: 13020 <b>1.1</b>		
CORELED SYSTEMS LLC IS PROHIBITED. APPLICATION	DO NOT SCALE DRAWING				SCALE: 2:1 WEIGHT: SHEET 1 OF 2		

**CAD** files available upon request from CoreLed Engineering



**Mechanical Profile: Solder Clip** 



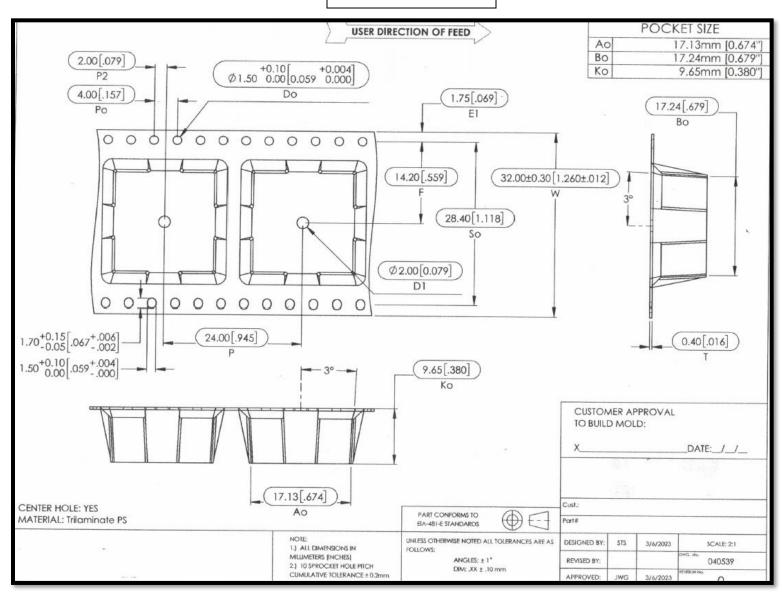
**CAD files available upon request from CoreLed Engineering** 



## Packaging:

Individually packaged & delivered in tape and reel

# **Preliminary Design**





**Appendix 1: Short & Tall Caps** 

# PROTOTYPE ONLY



QUAD MLA MODULE SHOWN WITH OPTIONAL CAP (SOLD SEPARATELY)

