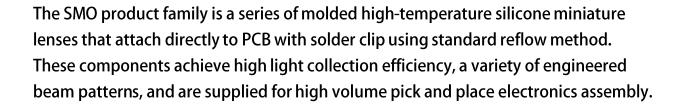


10mm Round Bullet Collimator Rev 1.0 – 05/13/21

CoreLED P/N 12002

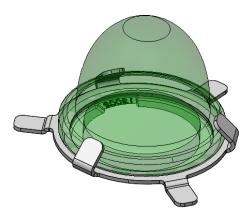
- Narrow Flood Collimating Optic
- Compatible with following LED products
 - o 2020 LED package and smaller
 - o 3535 LED package (no dome)
 - Other LED packages may be compatible (Contact CoreLed Engineering for requests)





Key Features:

- o Optical lens is reflow mounted at the same time as LED assembly
- Supplied in tape and reel
- o Increased control of light output
- Precision alignment (within ±0.1mm)
- o Family of optical beam patterns that will work using IR reflow
- o Reflow solder clip directly attached to lens
- o Standard pick and place equipment
- o Manufactured without the need for additional components to attach the optics



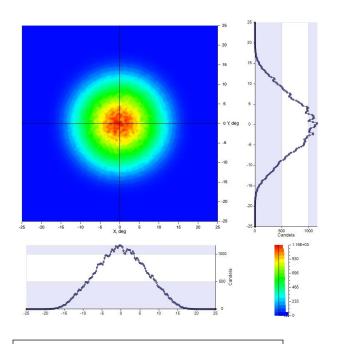


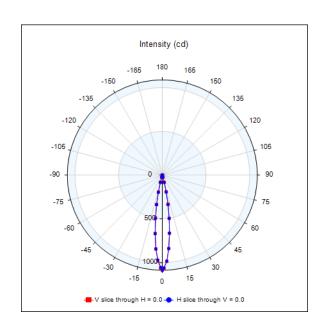
10mm Round Bullet Collimator Rev 1.0 - 05/13/21

Emitted Pattern Profile

OSRAM Oslon Compact (Measured) 1519 LED package

IES NEMA Type	3H x 3V
Maximum Candela	1087
Horizontal Beam Angle (50%)	17°
Vertical Beam Angle (50%)	17°
Horizontal Field Angle (10%)	29°
Vertical Field Angle (10%)	29°
Total Rated Lamp Lumens	100





ANGULAR DISTRIBUTION OF LUMINOUS INTENSITY (cd)

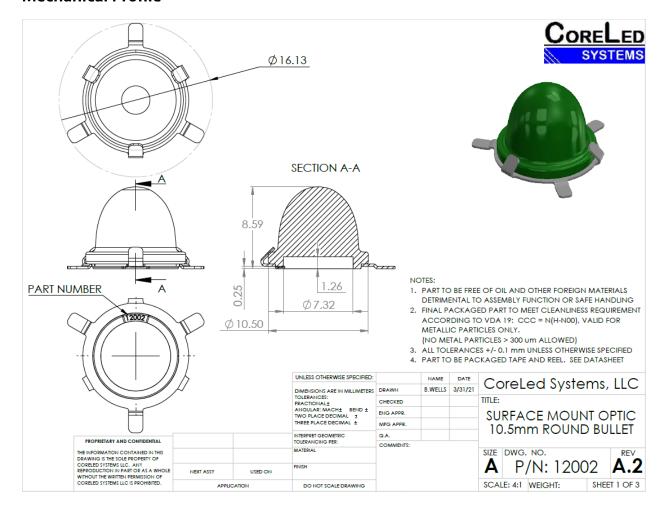
POLAR INTENSITY PLOT

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



10mm Round Bullet Collimator Rev 1.0 – 05/13/21

Mechanical Profile



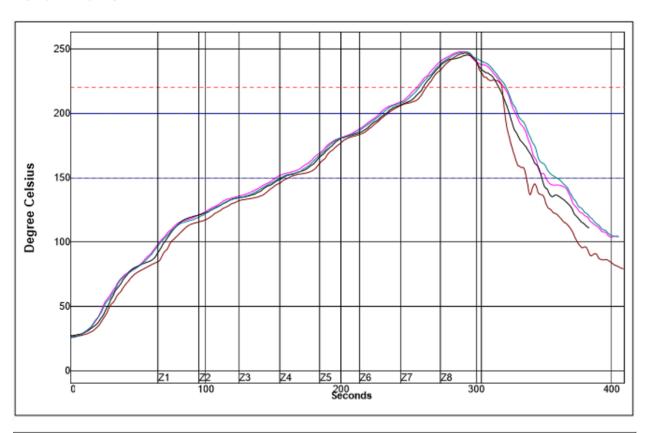
Mechanical design features shown with solder clip

CAD files available upon request from CoreLed Engineering



10mm Round Bullet Collimator Rev 1.0 – 05/13/21

Reflow Profile



Setpoints (Degree Celsius)									
Zone	1	2	3	4	5	6	7	8	
Тор	125	148	152	173	210	235	268	257	
Bottom	125	148	152	173	210	235	268	257	
Conveyor Speed	50.	50.0 cm/min							

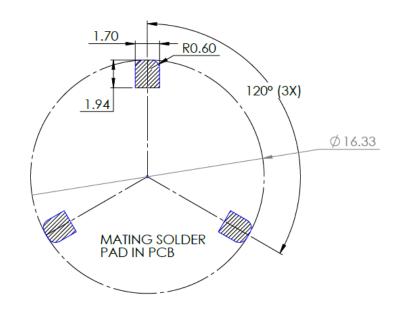
Example Reflow profile used for testing of SMO units by CoreLed

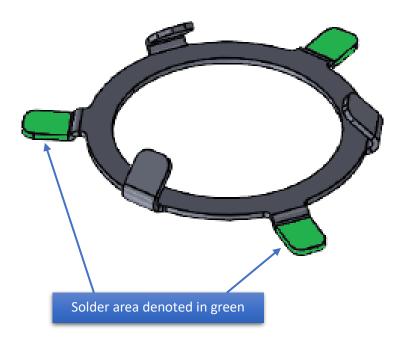


10mm Round Bullet Collimator Rev 1.0 – 05/13/21

Solder Pad drawing

Dimensions are in mm

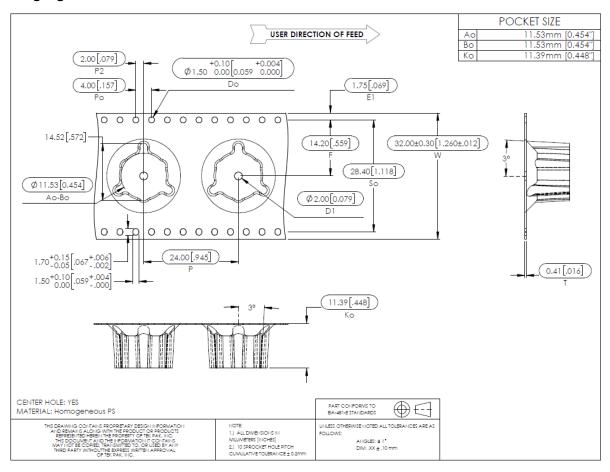






10mm Round Bullet Collimator Rev 1.0 – 05/13/21

Packaging



Packaging information for tape and reel delivery.



