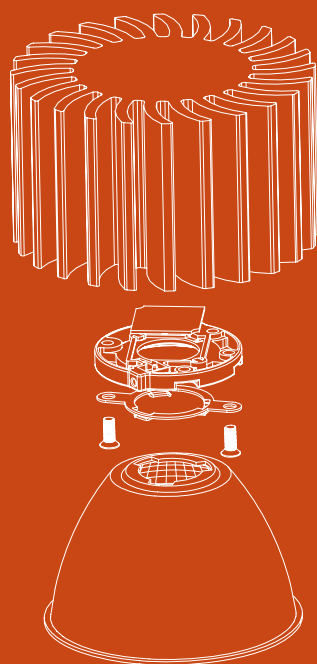




Since 1958

Widegerm Lighting Limited

A 60 years' old Hong Kong LED & Lighting component partner



LED Component Collection 2020-2021

Beyond 60 years

with a Hong Kong Lighting Legend

超越六十年 一個香港燈飾的傳奇

Contents

	Page
Introduction	1-4
LED Heat Sink - Diagram for Heatsink with Multiple Holes & Threads for Main COB Connectors & LED Modules	5
LED Heat Sink - For Recess Downlight with Multi-functions	6
LED Heat Sink - Multiple Applications LED Heatsink	7
LED Heat Sink - With Solid Plate, Central Cable Position	8
LED Heat Sink - Multiple Applications LED Heatsink	9-10
LED Heat Sink - Cold Forging LED Heatsink	11
Introduction For Optical Items	12
Reflector Facets & Surface Textures	13
Custom-Made Reflector	14
Decorative Shape By Spinning	15
Aluminium Spinning For Downlight	16
LED Reflector - OD45-50mm Series	17
LED Reflector - OD50mm Series	18
LED Reflector - OD72mm Series	19-20
LED Reflector - OD82mm Series	21
LED Reflector - OD91.5-94mm Series	22
LED Reflector - OD111mm Series	23
LED Reflector - OD111-121mm Series	24-25
LED Reflector - LED Reflector With Lens	26
LED Reflector - Aluminium Square Reflector	27
LED Reflector - Xicato-standard Narrow Beam Series(LES 9mm)	28
LED Reflector - Xicato-standard OD50/70mm Series(LES 19mm))	29
LED Reflector - Xicato-standard OD72mm Series(LES 19mm)	30
LED Reflector - Xicato-standard OD82mm Series(LES 19mm)	31
LED Reflector - Xicato-standard OD94.5/111/134/155mm Series(LES 19mm)	32
LED Reflector - New Segment Antenna Reflector	33
LED Reflector Photometric Data	34
LED Reflector - Aluminium Square Reflector	35
LED Reflector - Asymmetric & Irregular Reflectors	36
LED Reflector - LED Louvers & Springs	37
Metal Parts, OEM & ODM	38
Die Casting Components	39
Cylindrical LED Heatsink	40
Aluminium Extrusion Profiles	41
Honey Comb Diffuser	42
Glass and Optical Lens for Lighting	43
Bezel Trims	44
Solderless COB Connector	45
Solderless Single Channel COB Connectors (Two Wires)	46-48
Solderless Two Channels COB Connectors (Four Wires)	49-51
New Factory Removal & Tour	52
The Opening Ceremony with Our VIP & Good Partners	53

With over 60 years in Lighting and Metal Industries, our highly experienced Widegerm Team always strives to improve and do better.

Beyond 60 years
with a Hong Kong Lighting Legend
超越六十年 一個香港燈飾的傳奇

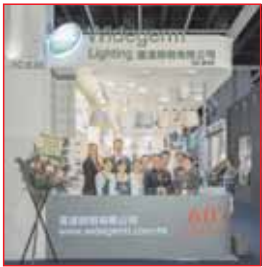


The time to be remembered

Together, we share the passion for LED lighting

60s' Years Anniversary Party

Hong Kong Light Fair 2018-2019



LED Partners' Optical Solutions



High Performance Reflectors



New Widegerm Dongguan Hong Mei Factory



Dinner with VIP



Date: October 31, 2019

Honey Comb Sample Kit



LED Reflector Sample Kit

Heatsink Sample Kit



Widgerm's LED Supporting Partnerships

Philips, LG, SAMSUNG, Bridglux, Xicato, Luminus, Osram, GoidLED, Citizen, Cree

For over 60 years, Widgerm has been manufacturing metal products and lighting in Hong Kong and for 25 years in China. Widgerm is expanding and changing to meet the new demands of today's LED Lighting Era, which presents exciting and challenging opportunities for all. Rapid changes in LED technology has all players driving their new products and ideas to be first in the market. At Widgerm, we believe the key to success is to build strong partnerships with key LED suppliers and LED product manufacturers. Widgerm obtains first-hand information on new LED developments and with feedback from their LED fitting manufacturer partnerships, develops solutions for product performance components. Building a network and strong partnerships with LED organisations has become one of the most important missions for Widgerm's marketing team. The result will be a Win-Win-Win situation for the LED manufacturers, Widgerm's Thermal and Optical Engineering Division and the mutual customers of each entity. Widgerm welcomes new partnership opportunities.



Optical display with key partners at lighting fairs



Widgerm reflectors displayed by Samsung on their stand at Light Fair Las Vegas.



Widgerm reflectors displayed by Xicato Optics Section in Light and Building Frankfurt and in Light Fair NYC.



GoidLED Visit



Ledi Team Visit Widgerm



LG appointed Widgerm to be their both thermal & optical partner



Widgerm reflectors support Vero range



Support Vero range




Widgerm partners with Citizen for Optical Supporting Networks Internationally.



Widgerm and Philips Fortimo have been Optical Partners for over five years.



Links of important LED partners with Widgerm:

-  <http://www.lighting.philips.co.uk> (Complementary Partners)
-  <http://led.lginnotek.com> (Optical Solutions)
-  <http://www.samsung.com> (partner-network)
-  <http://www.bridgelux.com> (Ecosystem Partners)
-  <http://www.xicato.com> (partners)



Widgerm prepared optical & thermal sample kits to main distributors

Widegerm's International LED & COB Connector Partners

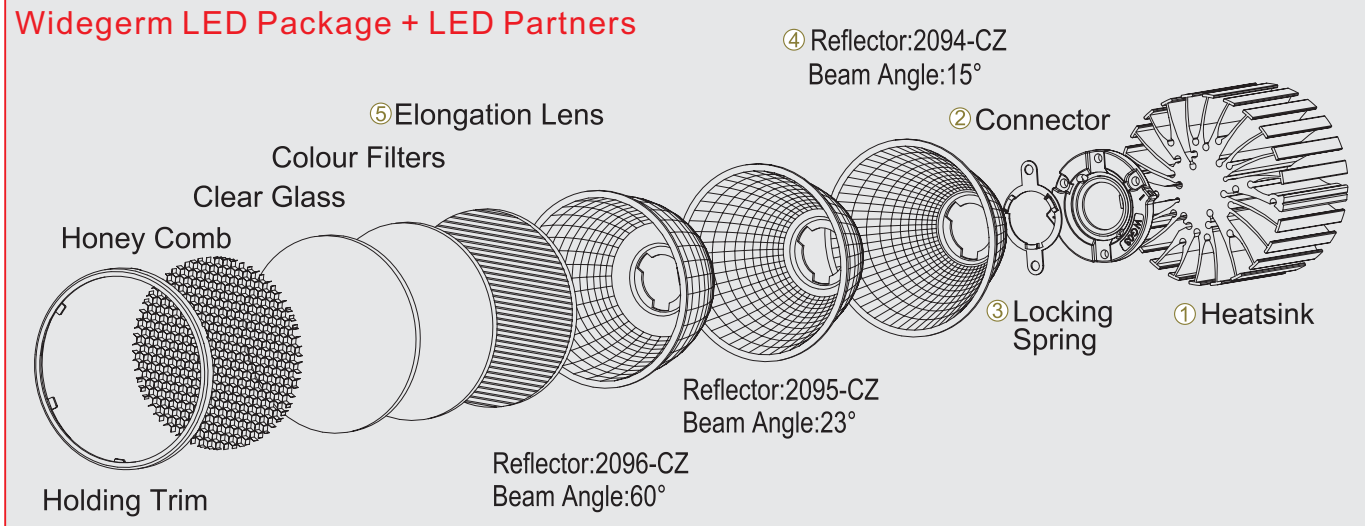
TE, Ledil, BJB, AAG, Xicato, Lumenetix & More

Widegerm is an international supplier of high performance LED reflectors, optical lighting control equipment and thermal management components. Over the past few years, Widegerm has been working with leading LED brands and well known connector partners to produce supporting optical devices. Widegerm products are designed with quality, value and efficiency to benefit all international customers and partners.

Locking and centering solutions:

 <ul style="list-style-type: none"> • Osram Prevaled • VS Panasonic • Bridgelux • Lumens(Korea) 	 <p>SLE BJB Locker WGSTTB</p> <p>Tridonic SLE BJB Connectors AAG Connectors</p> <ul style="list-style-type: none"> • Citizen • CREE • LG • Lumens 	 <p>WG SPPH</p> <ul style="list-style-type: none"> • Philips Fortimo 	 <ul style="list-style-type: none"> • Xicato XTM/XIM 	 <p>Locking Structure LEDiL FP15949_HEKLA-I</p> <ul style="list-style-type: none"> • LEDIL Connector 	 <p>Locking Structure TE-2 Spring</p> <p>WG-STTE</p> <ul style="list-style-type: none"> • TE Connector
--	---	--	---	--	--

Widegerm LED Package + LED Partners



Introduction

**Production & Quality Control & Development & Technical Support
& Equipment and Testing & Customer Service**



PRODUCTION

We are continuously updating new technology and equipments to supply high quality products and stable production level. On the other hand, we still provide on-going training and maintain over hundreds professional spinning workers and supporting team with shifts to provide flexibility in the production process, especially to fulfill special custom-design orders.

QUALITY CONTROL

"Quality is Our First Priority" is the saying that is always repeated in the working meeting in Widegerm Reflectors. The QC team would spot check at every production line to ensure quality in every process. They all keep the highest standard and customers' concerns in mind while inspecting. These are experienced and well-trained professionals who keep Widegerm Reflectors a world-class reflector supplier.

DEVELOPMENT

The demand for different types and applications of lighting has been very strong. Our customers are worldwide and projects are diversified. A team of development specialists has formed in Tailux to help and work with our customers to fulfill their requirement for new ranges of reflectors and thrive.

TECHNICAL SUPPORT

The liaison between the sales and production department is the technical support group. They update and advise both departments if issues concerning changes in orders or production might come up. This efficient communication team has saved our customers valuable cost and time.

EQUIPMENT AND TESTING

As the conceptions of technology become more popular in world-wide market, our technical team with suitable equipment are welcome to help customer to test items and provide photometric data with software.

CUSTOMER SERVICE

The sales and shipping teams are our representatives to serve customers efficiently and reliably. They pledge to give immediate reply with quotations and all information and questions the buyers may have. We guarantee our customers the best services starting from their first enquiries to the orders they receive and after. To obtain the up-dated information of our products and the news of our company, please visit our website: www.widegerm.com.hk. If you have further enquiry, please contact our Hong Kong Office at E-mail: info@widegerm.com.hk or Tel: (852)23679268 & Whatsapp: +86 13580947774

PRODUCTION



QUALITY CONTROL



DEVELOPMENT



LIGHTING FAIR



EQUIPMENT & TESTING



CUSTOMER SERVICE

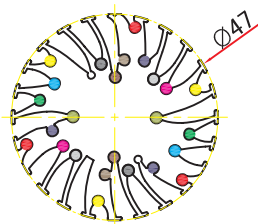


LED Heatsink

Diagram for heatsink with multiple holes & threads for main COB Connectors & LED modules

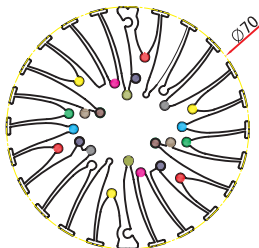


SK-C47A



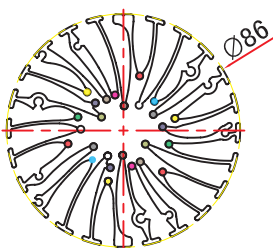
- Fortimo SLM
- Xicato XSM/XTM
- Zhaga/WG Connector for CLU03X
- Bridgelux Vero13/18 /LG LEMWM20
- WG Connector for CLU02X
- Bridgelux ES Rectangle Array Series
- CITILED-CLU03X/Bridgelux V13
- BJB for CLU02X
- LG LEMWM16
- Bridgelux Vero10
- CITILED-CLU02X/Bridgelux V10

SK-C70D



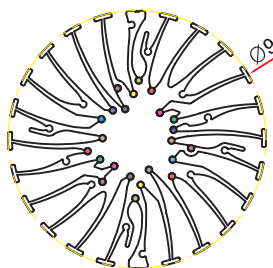
- Fortimo SLM
- Xicato XSM/XTM
- Zhaga/WG Connector for CLU03X
- Bridgelux Vero13/18 /LG LEMWM20
- WG Connector for CLU02X
- Bridgelux ES Rectangle Array Series
- CITILED-CLU03X/Bridgelux V13
- BJB for CLU02X/LG LEMWM16
- Bridgelux Vero10
- CITILED-CLU02X/Bridgelux V10

SK-C86A



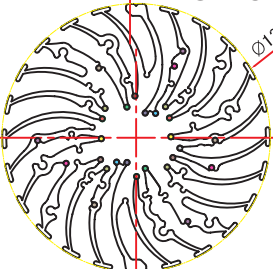
- Fortimo SLM
- Xicato XSM/XTM
- Zhaga/WG Connector for CLU03X
- Bridgelux Vero13/18 /LG LEMWM20
- WG Connector for CLU02X
- Bridgelux ES Rectangle Array Series
- CITILED-CLU03X/Bridgelux V13
- BJB for CLU02X/LG LEMWM16
- Bridgelux Vero10
- CITILED-CLU02X/Bridgelux V10

SK-C99A



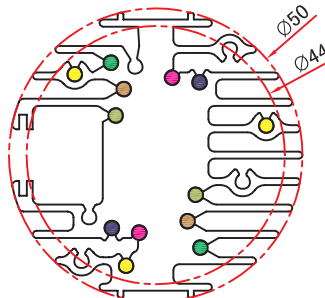
- CITILED-CLU05X
- Fortimo SLM
- Xicato XSM/XTM
- Zhaga/WG Connector for CLU03X
- CITILED-CLU04X/Bridgelux V22 LG LEMWM28
- Bridgelux Vero13/18
- WG Connector for CLU024
- Bridgelux ES Rectangle Array Series
- CITILED-CLU03X/Bridgelux V13
- BJB for CLU02X

SK-C135B



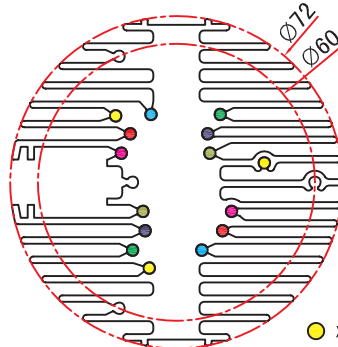
- Fortimo Twistable DLM 2000Im
- Fortimo DLM
- Fortimo Twistable DLM 1100Im
- CITILED-CLU05X
- Bridgelux Vero29
- Fortimo SLM
- Xicato XSM/XTM
- Zhaga/WG Connector for CLU03X
- CITILED-CLU04X/Bridgelux V22 LG LEMWM28
- Bridgelux Vero13/18
- CITILED-CLU03X/Bridgelux V13

SK-C50D



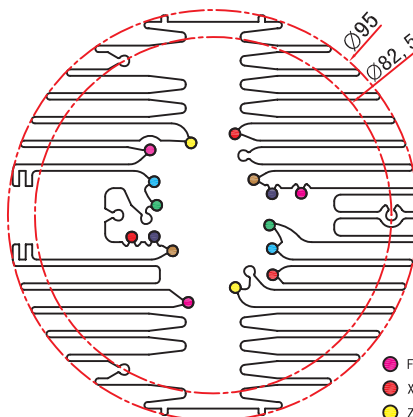
- Xicato XSM/XTM
- Zhaga/WG Connector for CLU03X
- WG Connector for CLU02X
- Bridgelux ES Rectangle Array Series
- BJB for CLU02X
- CITILED-CLU02X/Bridgelux V10

SK-C72D



- Xicato XSM/XTM
- Zhaga/WG Connector for CLU03X
- Bridgelux Vero13/18 /LG LEMWM20
- Bridgelux ES Rectangle Array Series
- Bridgelux Vero10/CITILED-CLU02X
- WG Connector for CLU02X
- BJB for CLU02X

SK-C95D



- Fortimo SLM
- Xicato XSM/XTM
- Zhaga/WG Connector for CLU03X
- Bridgelux Vero13/18 /LG LEMWM20
- WG Connector for CLU02X
- CITILED-CLU03X/Bridgelux V13
- BJB for CLU02X

Remark: The above data was tested with Citizen COB at ambient temperature 40°C. All data is for reference only. Final application must be reconfirmed by product engineer.

LED Heatsink

Recess Downlight Heatsink with Multiple Holes & Threads & Bracket Mounting Positions




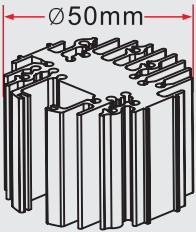

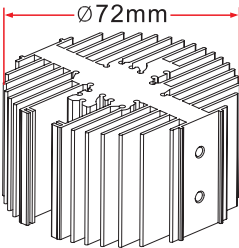

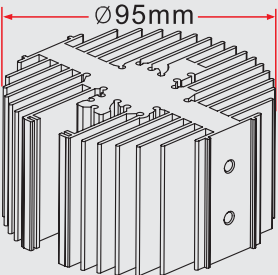
Features & Functions :

- * Multiple holes selection for several COB and Connectors
- * Cable can be enclosed in the covered position
- * Extra steel bracket can be located at side position for protection and cable clamp installation
- * Design for bracket slide control and adjustment

LED Extrusion Heatsink:

Suitable for below COB items:

- Zhaga Book3 (Osram PrevaLED Core, VS Luga, Tridonic SLE, Fortimo SLM, Lumens, Sharp Intermo)
- Xicato XIM/XTM
- Bridgelux Vero13
- Bridgelux ES Rectangle Array Series
- Citizen COB CLU038/ CLU028
- BJB Connectors for Citizen CLU026, Luminus CLM-9 AC00, CXM-9 AC00, CHM-9 AC00, CLM-9 AC30, CXM-9 AC30
- WG Connector for Citizen CLU026, Luminus CLM-9 AC00, CXM-9 AC00, CHM-9 AC00, CLM-9 AC30, CXM-9 AC30
- WG Connector for Basic Core 2000 lumen


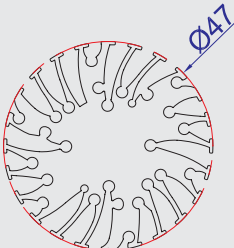

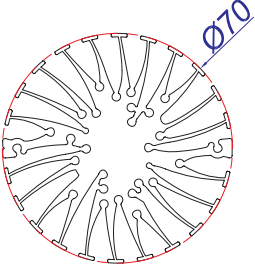

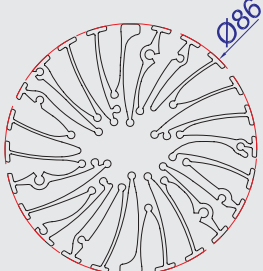

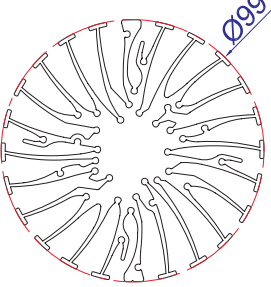

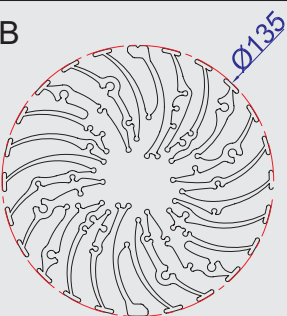
Part Number	Item Number	Height (mm)	Weight (g)	Driver (mA)	Nominal System Power	Radiant Surface
SK-C50D  	SK-C50D-30	30	77.4	180	7W	23467mm ²
	SK-C50D-40	40	103	240	10W	30657mm ²
	SK-C50D-50	50	129	300	12W	37846mm ²
SK-C72D  	SK-C72D-20	20	106	300	12W	33780mm ²
	SK-C72D-30	30	159	350	15W	48711mm ²
	SK-C72D-50	50	264	420	17W	108436mm ²
	SK-C72D-70	70	355	500	20W	78574mm ²
SK-C95D  	SK-C95D-20	20	179	500	20W	46312mm ²
	SK-C95D-30	30	269	600	24W	66145mm ²
	SK-C95D-70	70	628	700	28W	145477mm ²

Remark: The above data was tested with Citizen COB at ambient temperature 40°C. All data is for reference only. Final application must be reconfirmed by product engineer.

LED Heatsink

Multiple Applications LED Heat Sink




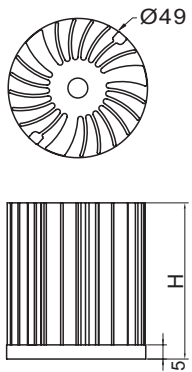

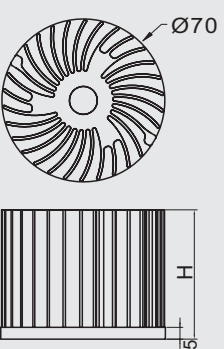

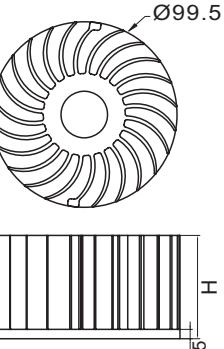

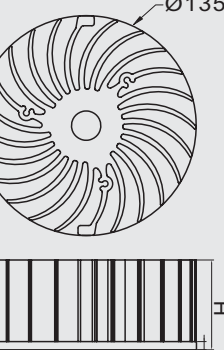
Part Number	Item Number	Height (mm)	Weight (g)	Driver (mA)	Nominal System Power	Radiant Surface
SK-C47A  	SK-C47A-20	20	52	200	8W	15646mm ²
	SK-C47A-40	40	105	250	10W	29350mm ²
	SK-C47A-70	70	184	350	15W	49905mm ²
SK-C70D  	SK-C70D-20	20	75	350	15W	29103mm ²
	SK-C70D-60	60	226	500	20W	81736mm ²
SK-C86A  	SK-C86A-30	30	113	500	20W	42261mm ²
	SK-C86A-50	50	188	600	24W	68577mm ²
	SK-C86A-80	80	301	700	28W	108052mm ²
SK-C99A  	SK-C99A-20	20	142	500	20W	46391mm ²
	SK-C99A-30	30	213	600	24W	66953mm ²
	SK-C99A-50	50	355	700	28W	108077mm ²
SK-C135B  	SK-C135B-20	20	313	700	28W	74612mm ²
	SK-C135B-40	40	627	900	36W	137613mm ²
	SK-C135B-50	50	784	1050	42W	169113mm ²

Remark: The above data was tested with Citizen COB at ambient temperature 40°C. All data is for reference only. Final application must be reconfirmed by product engineer.

LED Heatsink

With Solid Plate , Central Cable Position




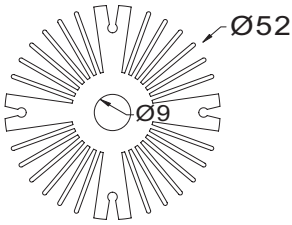

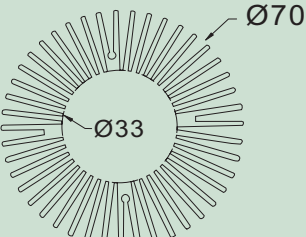

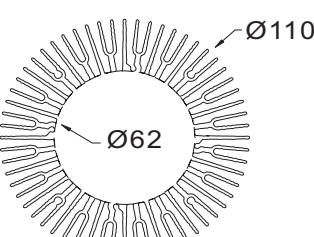

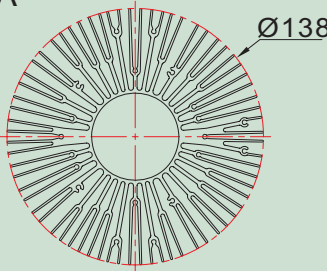

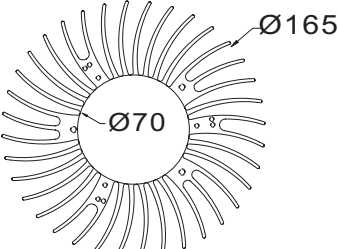
Item Number	Part Number	Picture	LED Model	Measurments
1	SK-C49AP	 H:40mm 12W	Tridonic STARK-SLE Xicato XTM/XIM/XOB Cree CXA1304/1507 CXB1304/1310 Osram PrevaLED Core DC/Basic Core Fortimo SLM Bridgelux Vero 10 Bridgelux V Series Citizen-CLU028 LG Innotek COB SamSung D series Gen2 Seoul Semiconductor SAW81062A WG/BJB/TE /AAG connectors	
2	SK-C70CP	 H:30mm 10W H:50mm 15W	Tridonic STARK-SLE Xicato XTM/XIM/XOB Cree CXA1507/1520/1816/1830/1850 Osram PrevaLED Core DC/Basic Core Fortimo SLM Bridgelux Vero 10/13 Bridgelux V Series LG Innotek COB SamSung D Series Gen2 Citizen-CLU028 Seoul Semiconductor SAW81062A WG/BJB/AAG/TE Connectors	
3	SK-C99.5BP	 H:20mm 20W H:50mm 24W	Tridonic STARK-SLE Xicato XTM/XIM/XOB Cree CXA1507/1520/1816/1830/1850 Osram PrevaLED Core DC/Basic Core Fortimo SLM Bridgelux Vero 10/13 Bridgelux V Series Citizen-CLU028/038 LG Innotek COB SamSung D series Gen2 Seoul Semiconductor SAW81062A WG/BJB/AAG/TE Connectors	
4	SK-C135AP	 H:30mm 20W H:50mm 24W H:70mm 28W	Xicato XTM/XIM/XOB Cree CXA2530/2540/2590/3050/3070 Bridgelux Vero 18 Bridgelux V Series Citizen-CLU028/038 LG Innotek COB SamSung D Series Gen2 Tridonic STARK-DLE/SLE Osram PrevaLED Cube/Core DC Fortimo DLM/SLM Fortimo Twisitable DLE 1000/2000lm Seoul Semiconductor SAW81564A WG/BJB/AAG/TE Connectors	

Remark: The above data was tested with Citizen COB at ambient temperature 40°C. All data is for reference only. Final application must be reconfirmed by product engineer.

LED Heatsink

Multiple Applications LED Heat Sink



Part Number	Item Number	Height (mm)	Weight (g)	Driver (mA)	Nominal System Power	Radiant Surface
SK-C52A  	SK-C52A-20	20	55	180	7W	22775mm ²
	SK-C52A-40	40	110	240	10W	43510mm ²
	SK-C52A-50	50	138	300	12W	53877mm ²
	SK-C52A-70	70	193	350	15W	74612mm ²
SK-C70A  	SK-C70A-20	20	106	300	12W	38368mm ²
	SK-C70A-40	40	212	350	15W	72795mm ²
	SK-C70A-70	70	373	420	17W	124434mm ²
	SK-C70A-80	80	426	500	20W	141647mm ²
SK-C110A  	SK-C110A-20	20	270	500	20W	64945mm ²
	SK-C110A-30	30	405	600	24W	92419mm ²
	SK-C110A-40	40	540	700	28W	119893mm ²
	SK-C110A-60	60	810	800	32W	174842mm ²
	SK-C110A-80	80	1080	900	36W	229790mm ²
SK-C138A  	SK-C138A-20	20	301	700	28W	108869mm ²
	SK-C138A-30	30	452	800	32W	157718mm ²
	SK-C138A-40	40	603	900	36W	206567mm ²
	SK-C138A-60	60	904	1050	42W	304266mm ²
SK-C165B  	SK-C165B-20	20	469	900	36W	84724mm ²
	SK-C165B-30	30	704	1050	42W	118391mm ²
	SK-C165B-50	50	1174	1200	48W	185726mm ²
	SK-C165B-70	70	1643	1400	56W	253062mm ²

Remark: The above data was tested with Citizen COB at ambient temperature 40°C. All data is for reference only. Final application must be reconfirmed by product engineer.

LED Heatsink

Multiple Applications LED Heat Sink




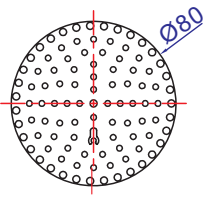
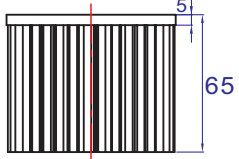

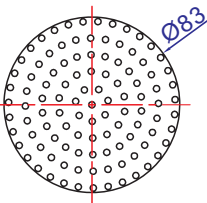
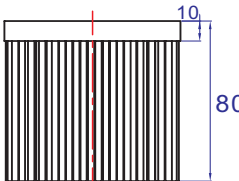

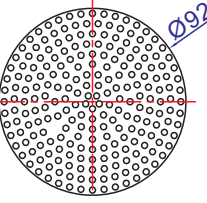
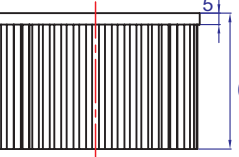

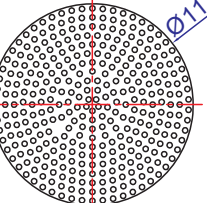
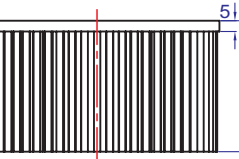

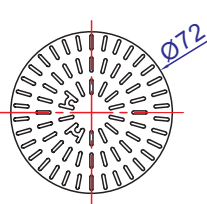
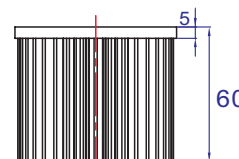

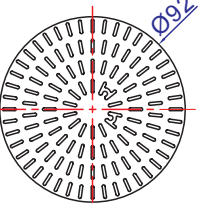


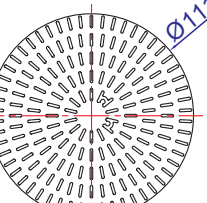
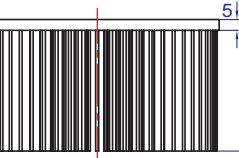
Part Number	Item Number	Length (mm)	Weight (g)	Driver (mA)	Nominal System Power	Radiant Surface
SK-S9447A	SK-S9447A-160	160	560	900	36W	242304mm ²
SK-S12065A	SK-S12065A-L120	120	900	900	36W	253454mm ²
SK-S12065A	SK-S12065A-L150	150	1125	1050	42W	315429mm ²
SK-C85B	SK-C85B-20	20	186	500	20W	27745mm ²
	SK-C85B-30	30	280	600	24W	37717mm ²
	SK-C85B-60	60	559	700	28W	68532mm ²
SK-C120A	SK-C120A-20	20	300	600	24W	96251mm ²
	SK-C120A-30	30	450	700	28W	138825mm ²
	SK-C120A-50	50	749	800	32W	223973mm ²
	SK-C120A-70	70	1049	900	36W	309121mm ²
<p>Remark: ★Hollow inside. For special requirement, we could fill out the area with solid material. Application: Hollow space for gear installation.</p> <div> </div> <div> <p>SK-C155A SK-C95A ★SK-C150A ★SK-C125A ★SK-C85A</p> </div>						

Remark: The above data was tested with Citizen COB at ambient temperature 40°C. All data is for reference only. Final application must be reconfirmed by product engineer.

LED Heatsink

Cold Forging LED Heat Sink



Part Number	Outer Diameter	Height	Details
CP-80A-H65	  Ø80	 5 65	Item Number : CP-80A-H65 Height (mm) : 65mm Weight (g) : 191g Driver (mA) : 500mA Nominal System Power : 20W Radiant Surface : 70496mm ²
CP-83A-H80	  Ø83	 10 80	Item Number : CP-83A-H80 Height (mm) : 80mm Weight (g) : 289g Driver (mA) : 600mA Nominal System Power : 24W Radiant Surface : 84020mm ²
CP-92A-H60	  Ø92	 5 60	Item Number : CP-92A-H60 Height (mm) : 60mm Weight (g) : 329g Driver (mA) : 700mA Nominal System Power : 28W Radiant Surface : 132927mm ²
CP-111A-H60	  Ø111	 5 60	Item Number : CP-111A-H60 Height (mm) : 60mm Weight (g) : 488g Driver (mA) : 900mA Nominal System Power : 36W Radiant Surface : 196670mm ²
CP-72B-H60	  Ø72	 5 60	Item Number : CP-72B-H60 Height (mm) : 60mm Weight (g) : 157g Driver (mA) : 350mA Nominal System Power : 15W Radiant Surface : 70895mm ²
CP-92B-H60	  Ø92	 5 60	Item Number : CP-92B-H60 Height (mm) : 60mm Weight (g) : 253g Driver (mA) : 700mA Nominal System Power : 28W Radiant Surface : 113985mm ²
CP-111B-H60	  Ø111	 5 60	Item Number : CP-111B-H60 Height (mm) : 60mm Weight (g) : 368g Driver (mA) : 900mA Nominal System Power : 36W Radiant Surface : 166353mm ²

Remark: The above data was tested with Citizen COB at ambient temperature 40°C. All data is for reference only. Final application must be reconfirmed by product engineer.

Introduction For Optical Items

Surface Treatment & Material Selection

WIDEGERM REFLECTORS

Started with the traditional manual spun technique, Widegerm is one of first company in Hong Kong produced in China to export reflectors to overseas markets. Over the past decades, we have been establishing new techniques in production as well as product reputation. The 2020 Catalogue introduces our wide range of reflectors in all possible shapes, materials, optical functions and surface treatments that customers can choose from. Recently, Widegerm built up solid partner-ships with many leading LED brands from the industry such as Xicato, Luminus, LG Innotek, Samsung, Bridgelux, Osram and Philips Fortimo etc. The team of Widegerm Reflectors provides professional services and quality optical and thermal products.

SURFACE TREATMENT

Different surface treatments on the reflectors would give different lighting effects. We provide different treatments base on product design and material nature:

1. Anodising

- Specular Anodise

The most popular anodising method for 99.90% (or higher) aluminium circles

- Matt Anodise

Widely applied on high bay reflectors and downlight for soften lighting effect

- Low Iridescence Anodise

Commonly used in the USA and Canada markets

2. Hand Sand-Blasting

- Special design for decoration purposes, which with rough or light sand-blast. It is also considered to decrease the glare.

- Texture sampling will be provided upon request.

3. Spray Painting

- For decoration purposes, includes: black, silver, white, etc,

- most are applied on the edge but also partial or fully on the inner surface.

4. Pre-anodising Sheet

- For rolling and folding geometric shaped louvers.



Anodising



Hand Sand-Blasting



Spray Painting



Vacuum Metallization

MATERIAL SELECTION

We provide different grades of purity of aluminium depending on the market and design requirements.

- 1090Al - 99.90% purity aluminium, for clear reflectors, which gives high degree of light output up to 75-80% reflection.
- 1070Al - 99.70% purity aluminium for hand sand-blast, matt surface reflector and bright anodise.
- 3002Al - 99.50% alloy-tempered aluminium, mainly for US market.
- Miro 5 / 3002 reflective sheet core from Alanod.
- Others- welcome other materials from customers' design and requirement.



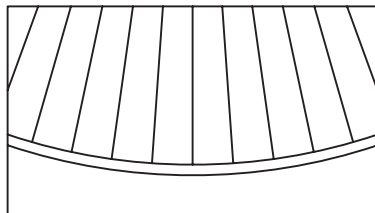
Reflector Facets & Surface Textures

Stripe & Line & Brick & Square...

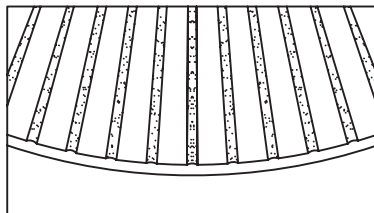


Widegerm Reflectors not only provide the clear surface reflector. We also provide many facets and textures for customer to choose. We welcome customer special texture design. Here below are our common facets and textures for designers' consideration.

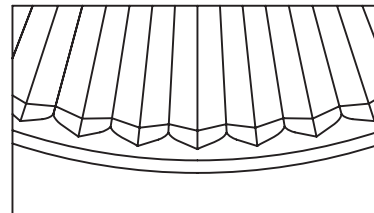
Stripe



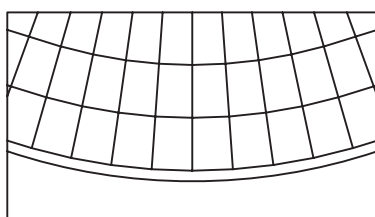
Line



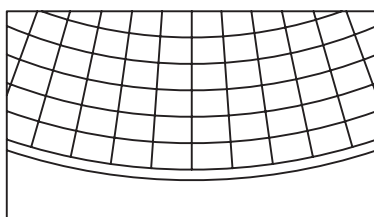
Triangle Barrel



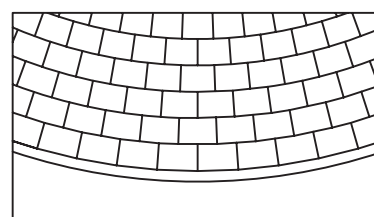
Square-L



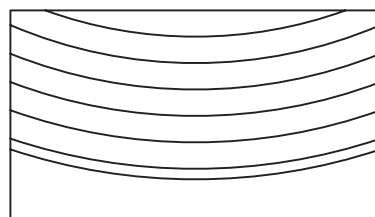
Square-S



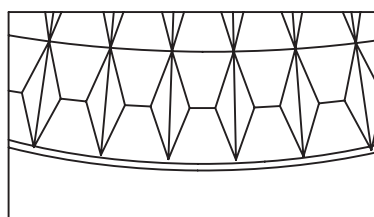
Brick



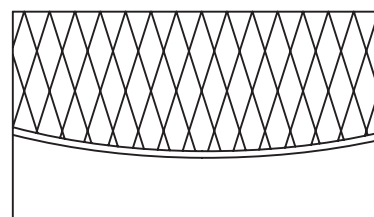
Ring



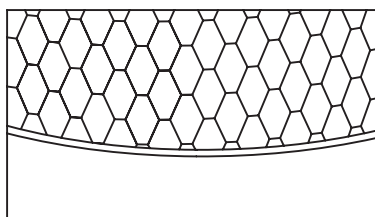
Prismatic



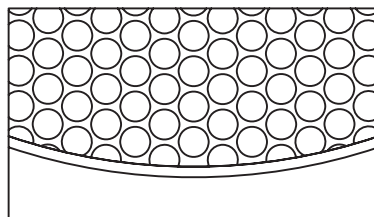
Diamond



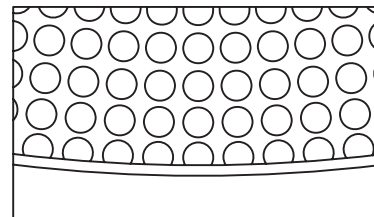
Beehive



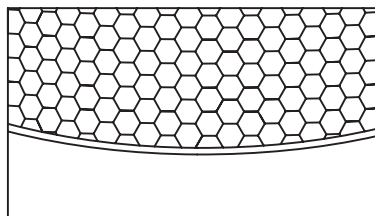
Circles



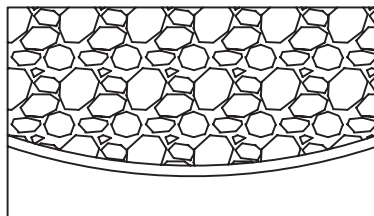
Dots



Honeycomb



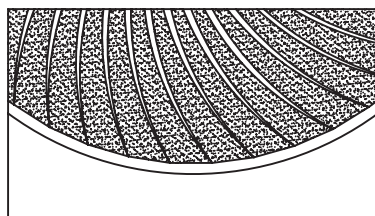
Hammer-Tone



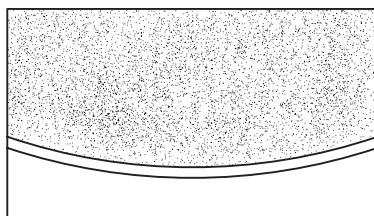
Pebble



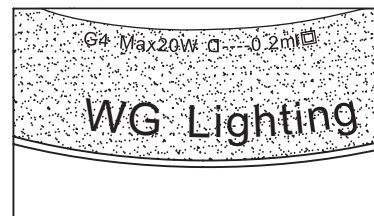
Etch+Polish (Wind-Mill)



Etch (light Sand-Blast)



Etch (Rough Sand-Blast+Logo or Lettering on tool)



Custom-Made Reflector

Reflector Design & Optical Testing & Dark Room



Why they and you would choose Widegerm Reflectors as a supplier?

Accumulated over 60 years of experience in metal Lighting production for the European and American markets, Widegerm Reflectors has established a specific R&D team that works closely with customers who have their own specifications.

All the customer needs to provide us are their requirements, the five **Ws** : what is the size and shape, where the product is applied to, which grade of material to be used, how many are needed and when they are needed. We have all the necessary specialists to handle the rest, from design to tooling and manufacturing.

We have all kinds of tools, including:

- Bending,
- Deep drawing,
- Cutting,
- Drilling,
- Folding,
- Plastic injection,
- Punching,
- Stamping,
- Spinning &
- Photometric Instrument



Which can accommodate different designs and allow variation of dimensions. To ensure high quality control, all tools and moulds are built and maintained in-house. Widegerm Reflectors are continuously acquiring modern CNC equipments as well as maintaining our high standard traditional manual spun method for manufacturing in order to provide more flexibility and achieve the requirements for custom-design. That's why we can supply reflectors with different makes, like sheet folding, plastic injection and deep drawing.



Reflector Design



Optical Testing



Dark Room



Decorative Shape By Spinning

With Deep Drawing, Plating & Power Coating Process

Not only do WG specialise in reflectors, but also lampshades for lighting design and manufacturing. We also help overseas users to handle different surface finishes in China.



Automatic Spinning
Deep Drawing
Degreasing System

Powder Coating
Wet Painting
Plating & Anodising



Pendant Lamps



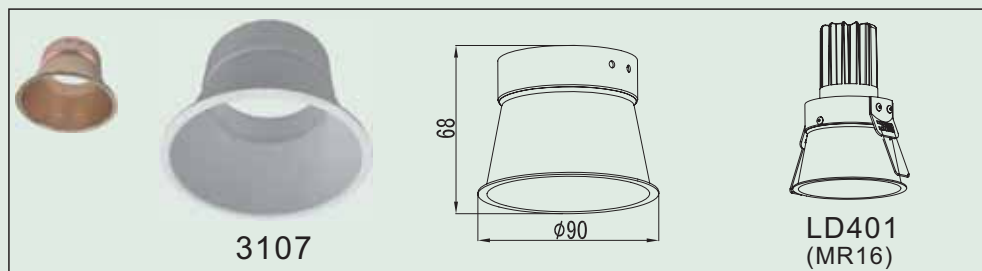
Downlight Housings



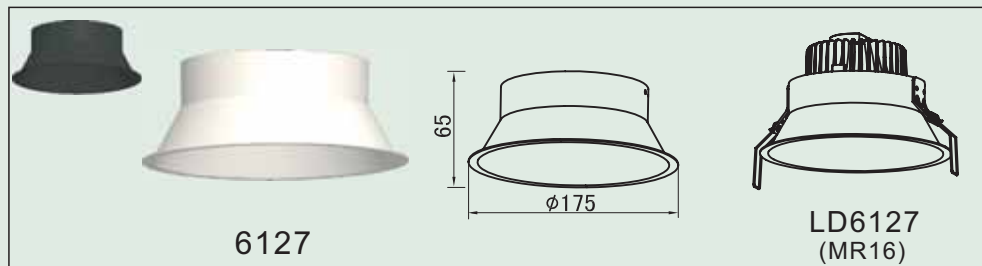
Photography Lamps

Aluminium Spinning For Downlight

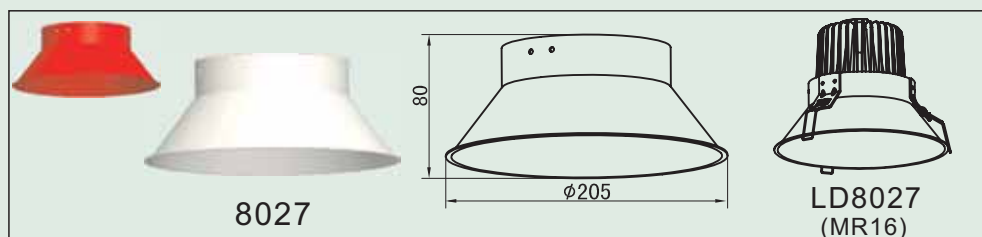
MR16 and AR111 Downlight Bodies



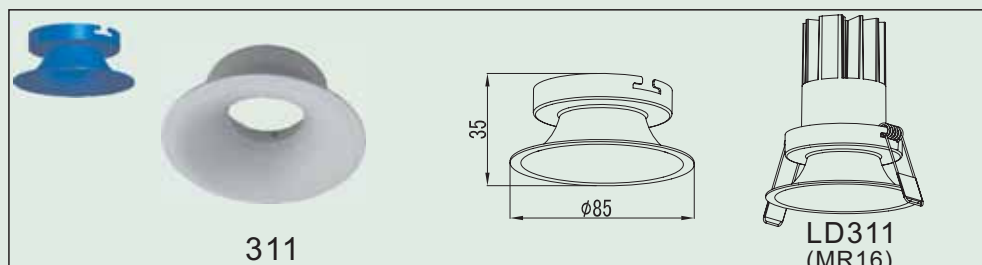
Tooling



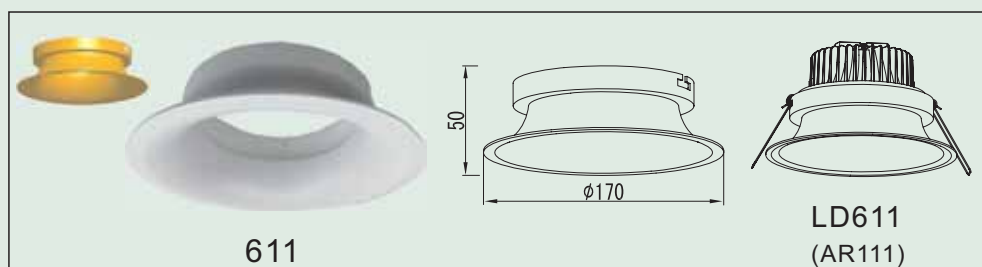
Mounting Process



Setting



Hand Spinning Section




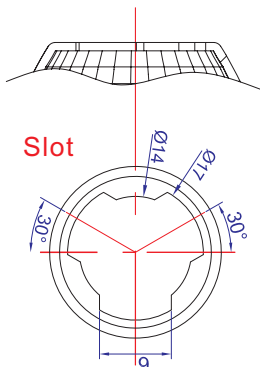
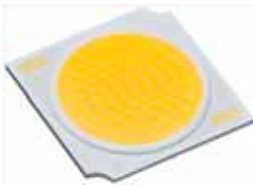

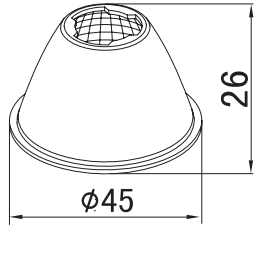

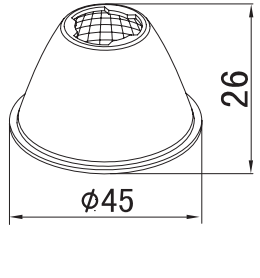

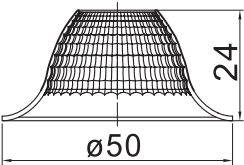

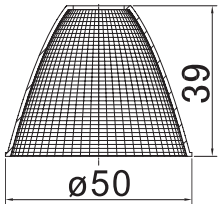
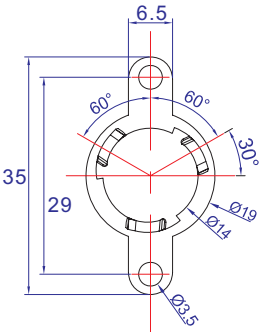
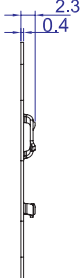
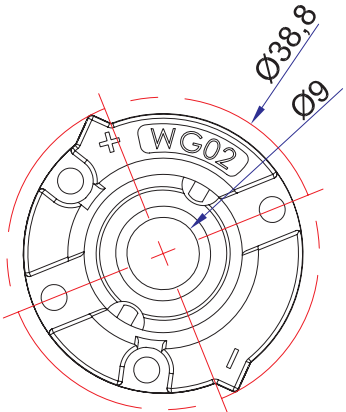
Anodising

Not only do WG specialise in reflectors, but also lampshades for lighting design and manufacturing. We also help overseas users to handle different surface finishes in China.

LED Reflector

OD45-50mm Series for LOR 85-90%




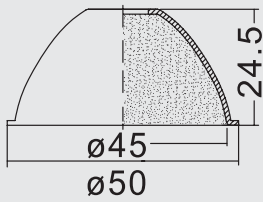
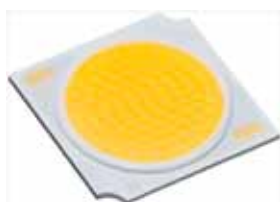
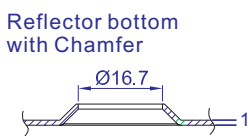
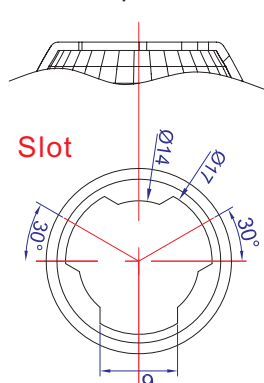
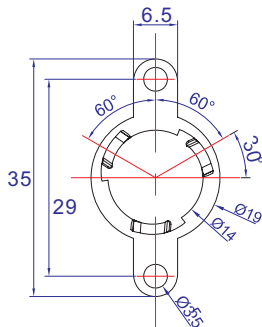
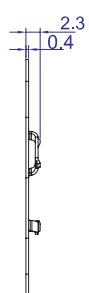

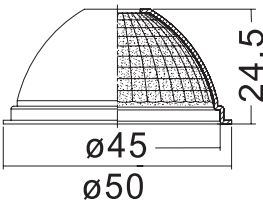

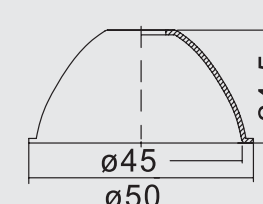

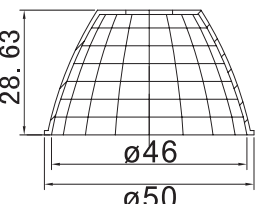

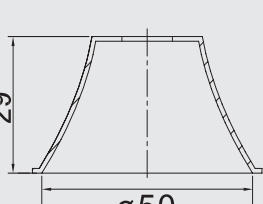
Picture	Measurements	Brands of COB	LES Diameter	Beam Angle	Luminous flux (lm)
 1041	Lamp Hole: 	CITIZEN Micro HumanTech Alternative: XICATO XOB LUMINUS bridgelux Bridging Light and Life™ HONGLI 鸿利智汇 Ledtech LEDTEEN 智明光电 SAMSUNG VS LIGHTING SOLUTIONS SEOUL EDISON Lextar OSRAM PrevaLED CORE Mini	LES 9mm 	20°	Driver Current: 200-350mA Out Put: 700-1200lm
 1043				26°	Driver Current: 200-350mA Out Put: 700-1200lm
 1044				45°	Driver Current: 200-350mA Out Put: 700-1200lm
 1060				43°	Driver Current: 200-350mA Out Put: 700-1200lm
 1017				17°	Driver Current: 200-350mA Out Put: 700-1200lm
			COB Connector: WG02 		

Remark: The above data was tested with Citizen COB at ambient temperature 40°C. All data is for reference only. Final application must be reconfirmed by product engineer.

LED Reflector

OD50mm Series for LOR 85-90%





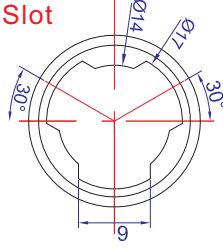














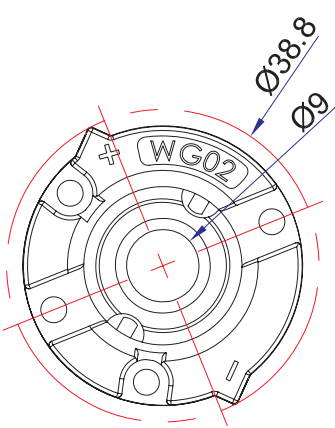

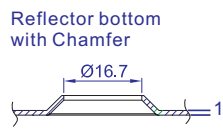
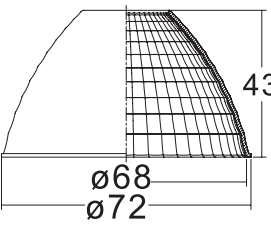


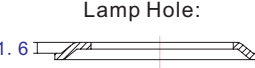
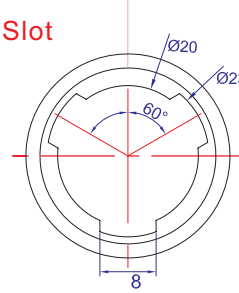














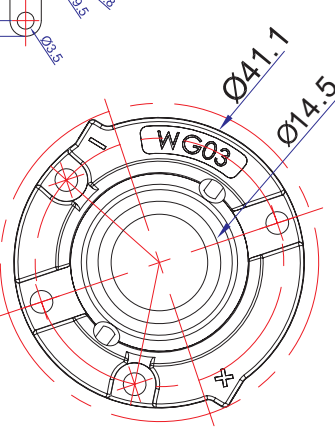

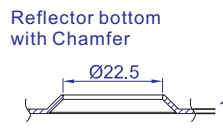
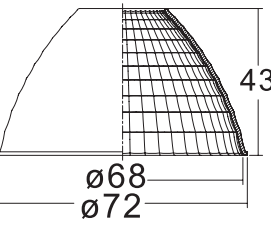

Picture	Measurements	Brands of COB	LES Diameter	Beam Angle	Luminous flux (lm)
 1128	 $\phi 45$ $\phi 50$ 24.5	CITIZEN Micro HumanTech Alternative: XICATO XOB LUMINUS bridgelux Bridging Light and Life™ HONGLI Leitech LGDTEEN SAMSUNG VS LIGHTING SOLUTIONS SEOUL EDISON Lextar OSRAM PrevaLED CORE Mini	LES 9mm  Reflector bottom with Chamfer  Lamp Hole:    COB Connector: WG02	35°	Driver Current: 200-350mA Out Put: 600-1100lm
 1021	 $\phi 45$ $\phi 50$ 24.5			50°	Driver Current: 200-350mA Out Put: 600-1100lm
 1028	 $\phi 45$ $\phi 50$ 24.5			32°	Driver Current: 200-350mA Out Put: 700-1200lm
 1009	 $\phi 46$ $\phi 50$ 28.63			18°	Driver Current: 200-350mA Out Put: 700-1200lm
 1010	 $\phi 50$ 29			17°	Driver Current: 200-350mA Out Put: 700-1200lm

Remark: The above data was tested with Citizen COB at ambient temperature 40°C. All data is for reference only. Final application must be reconfirmed by product engineer.

LED Reflector

OD72mm Series for LOR 85-90%






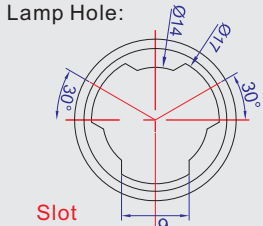

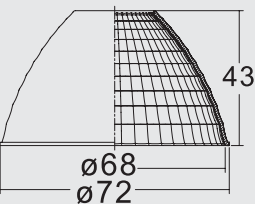














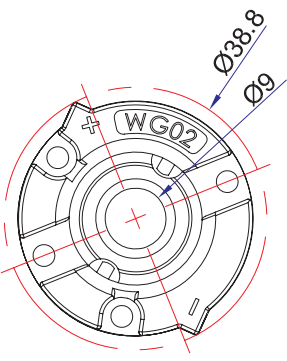

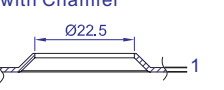

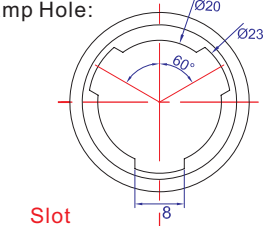
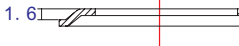
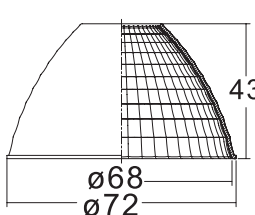














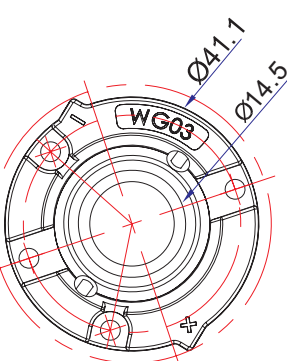
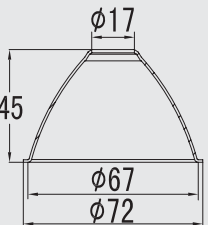
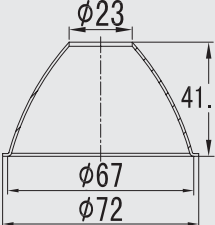

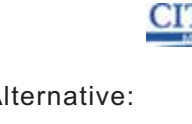















Picture	Measurements	Brands of COB	LES Diameter	Beam Angle	Luminous flux (lm)
 2094	 	 Alternative:            	LES 9mm  	10° 18° 55°	Driver Current: 350-500mA Out Put: 1200-1800lm Driver Current: 350-500mA Out Put: 1200-1800lm Driver Current: 350-500mA Out Put: 1200-1700lm
 2095	 				
 2096					
 2094	 	 Alternative:            	LES 14mm  	15° 23° 60°	Driver Current: 500-700mA Out Put: 1800-2500lm Driver Current: 500-700mA Out Put: 1800-2500lm Driver Current: 500-700mA Out Put: 1700-2400lm
 2095	 				
 2096					

Remark: The above data was tested with Citizen COB at ambient temperature 40°C. All data is for reference only. Final application must be reconfirmed by product engineer.

LED Reflector

OD72mm Series for LOR 85-90%




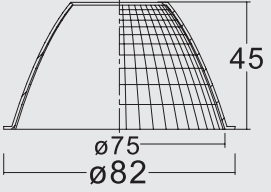
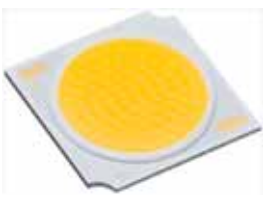
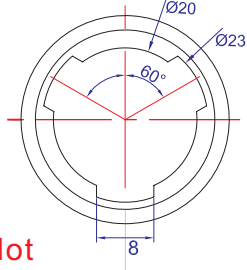

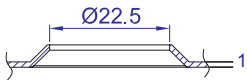

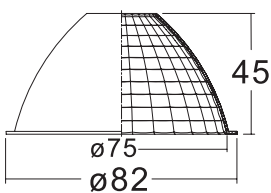

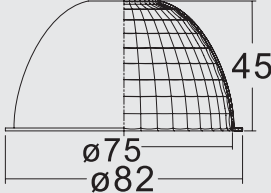

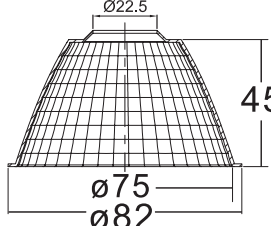

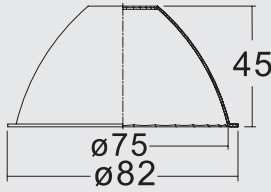

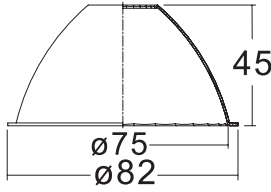
Picture	Measurements	Brands of COB	LES Diameter	Beam Angle	Luminous flux (lm)
 <p>2201</p> <p>Reflector bottom with Chamfer</p>   <p>2202</p>	<p>Lamp Hole:</p>  <p>Slot</p>  	 <p>CITIZEN</p> <p>LES 9mm</p> <p>Alternative:</p>             	 <p>COB Connector: WG02</p>	<p>11°</p> <p>Driver Current: 350-500mA Out Put: 1200-1700lm</p> <p>28°</p> <p>Driver Current: 350-500mA Out Put: 1200-1800lm</p>	
 <p>2201</p> <p>Reflector bottom with Chamfer</p>   <p>2202</p>	<p>Lamp Hole:</p>  <p>Slot</p>  	 <p>CITIZEN</p> <p>LES 14mm</p> <p>Alternative:</p>             	 <p>COB Connector: WG03</p>	<p>15°</p> <p>Driver Current: 500-700mA Out Put: 1800-2500lm</p> <p>32°</p> <p>Driver Current: 500-700mA Out Put: 1800-2500lm</p>	
<p>WG02</p>  <p>WG03</p>   <p>2207</p>		 <p>CITIZEN</p> <p>Alternative:</p>             	 <p>LES 9mm</p>  <p>LES 14mm</p>	<p>24°</p> <p>Driver Current: 350-500mA Out Put: 1200-1700lm</p> <p>40°</p> <p>Driver Current: 500-700mA Out Put: 1700-2400lm</p>	

Remark: The Above data was tested with Citizen COB at ambient temperature 40°C. All data is for reference only. Final application must be reconfirmed by product engineer.

LED Reflector

OD82mm Series for LOR 85-90%




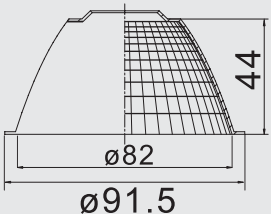
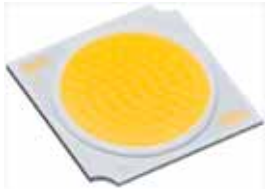
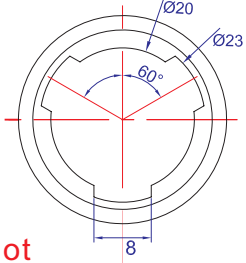
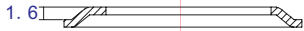
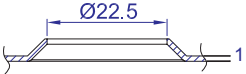

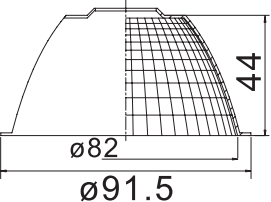

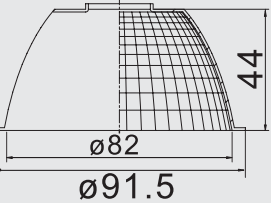

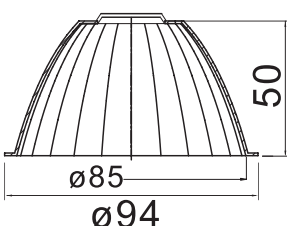
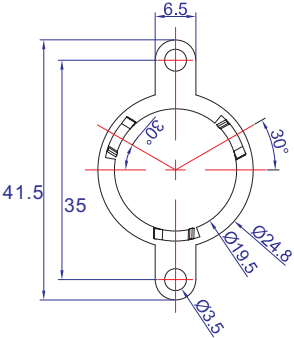
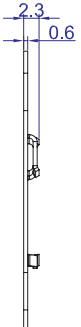

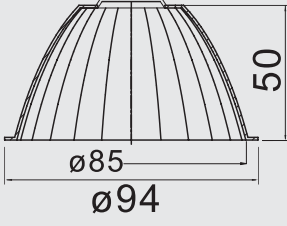
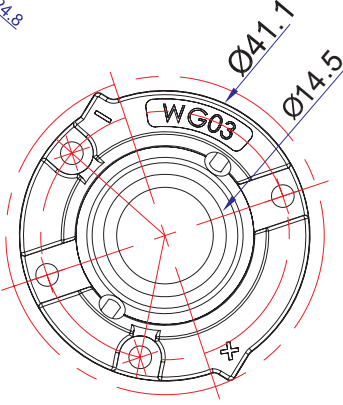
Picture	Measurements	Brands of COB	LES Diameter	Beam Angle	Luminous flux (lm)
 3150	 ø75 ø82	CITIZEN Micro HumanTech Alternative: XICATO XOB LUMINUS bridgelux. Bridging Light and Life™ HONGLI 宏力 Leadtech LGDEEN SAMSUNG VS LIGHTING SOLUTIONS SEOL EDISON Lextar OSRAM PrevaLED CORE Mini	LES 14mm  Lamp Hole:  Slot  Reflector bottom with Chamfer 	14°	Driver Current: 700-1050mA Out Put: 2500-4000lm
 3204	 ø75 ø82			24°	Driver Current: 700-1050mA Out Put: 2500-4000lm
 3205	 ø75 ø82			31°	Driver Current: 700-1050mA Out Put: 2500-4000lm
 3208	 ø75 ø82			43°	Driver Current: 700-1050mA Out Put: 2500-4000lm
 3206	 ø75 ø82			16°	Driver Current: 700-1050mA Out Put: 2500-4000lm
 3207	 ø75 ø82			34°	Driver Current: 700-1050mA Out Put: 2400-3800lm

Remark: The above data was tested with Citizen COB at ambient temperature 40°C. All data is for reference only. Final application must be reconfirmed by product engineer.

LED Reflector

OD91.5-94mm Series for LOR 85-90%




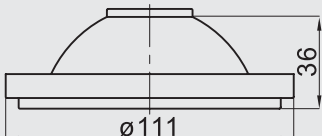

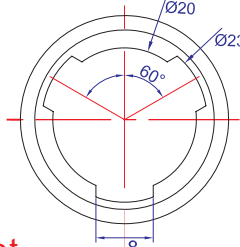

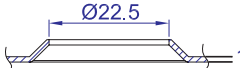

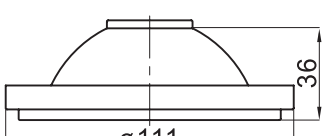

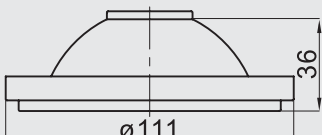

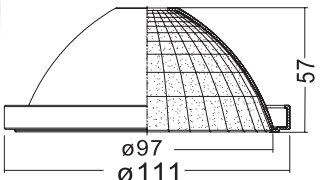
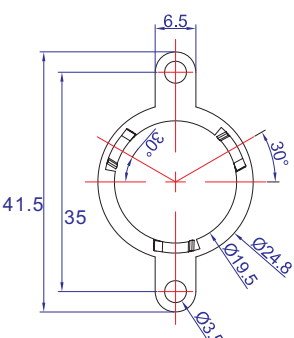

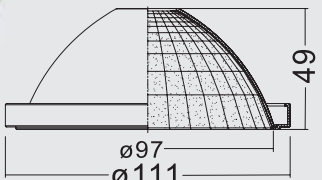
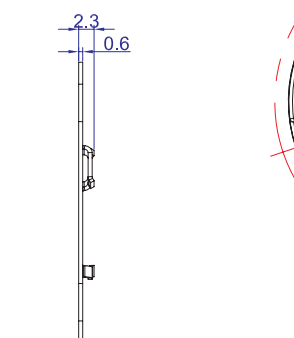
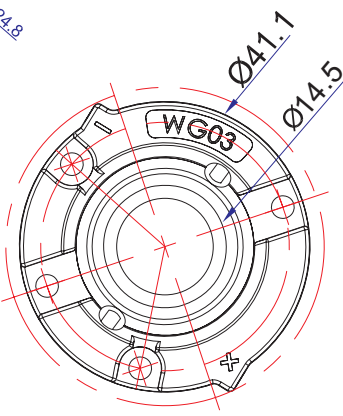
Picture	Measurements	Brands of COB	LES Diameter	Beam Angle	Luminous flux (lm)
 3158		CITIZEN Micro HumanTech Alternative: XICATO XOB LUMINUS bridgelux. Bridging Light and Life™ HONGLI 宏利 Leitech LG DTEEN SAMSUNG VS LIGHTING SOLUTIONS SEOUL EDISON Lextar OSRAM PrevaLED CORE Mini	LES 14mm  Lamp Hole:  Slot  Reflector bottom with Chamfer 	15°	Driver Current: 700-1050mA Out Put: 2500-4000lm
 3163				22°	Driver Current: 700-1050mA Out Put: 2500-4000lm
 3159				36°	Driver Current: 700-1050mA Out Put: 2500-4000lm
 3167			 	21°	Driver Current: 700-1050mA Out Put: 2500-4000lm
 3168			 COB Connector: WG03	30°	Driver Current: 700-1050mA Out Put: 2500-4000lm

Remark: The above data was tested with Citizen COB at ambient temperature 40°C. All data is for reference only. Final application must be reconfirmed by product engineer.

LED Reflector

OD111mm Series for LOR 85-90%




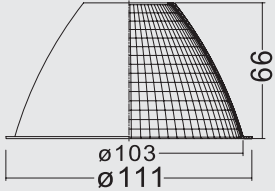


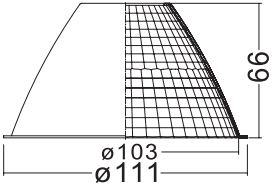
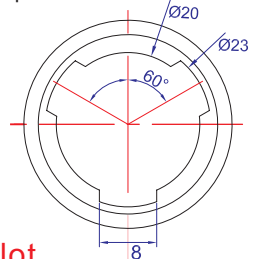
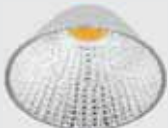
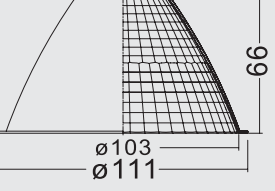
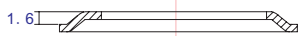

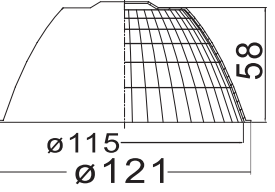
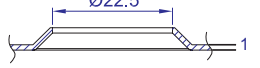

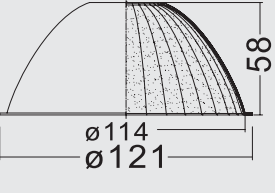
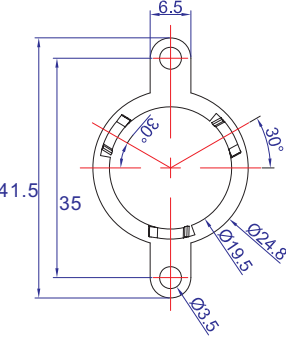
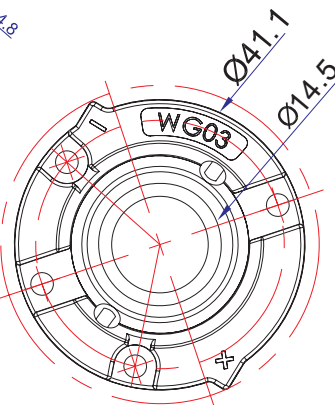
Picture	Measurements	Brands of COB	LES Diameter	Beam Angle	Luminous flux (lm)
 4219		CITIZEN <small>Micro HumanTech</small> Alternative: XICATO XOB LUMINUS bridgelux <small>Bridging Light and Life™</small> HONGLE Ledtech LGDEEN SAMSUNG VS LIGHTING SOLUTIONS SEOUL EDISON Lextar OSRAM PrevaLED CORE Mini	LES 14mm  Lamp Hole:  Slot  Reflector bottom With Chamfer 	18°	Driver Current: 700-1050mA Out Put: 2500-4000lm
 4220				35°	Driver Current: 700-1050mA Out Put: 2500-4000lm
 4221				40°	Driver Current: 700-1050mA Out Put: 2500-4000lm
 4134				25°	Driver Current: 700-1050mA Out Put: 2500-3800lm
 4133				32°	Driver Current: 700-1050mA Out Put: 2400-3800lm
			COB Connector: WG03 		

Remark: The above data was tested with Citizen COB at ambient temperature 40°C. All data is for reference only. Final application must be reconfirmed by product engineer.

LED Reflector



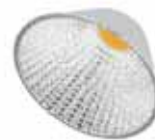
OD111-121mm Series for LOR 85-90%


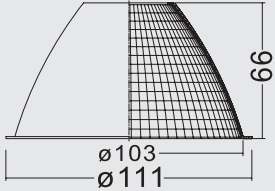

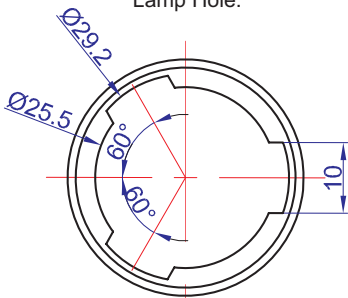

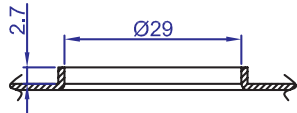

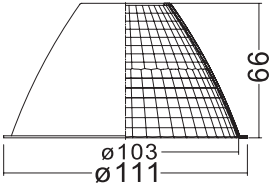
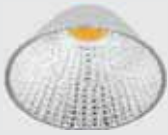
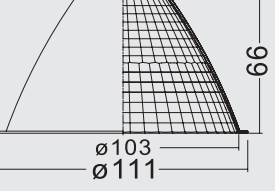

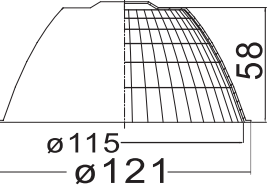
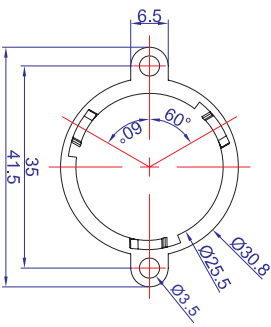

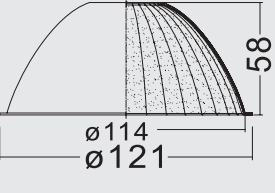
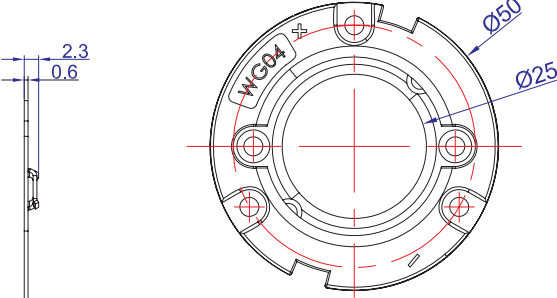
Picture	Measurements	Brands of COB	LES Diameter	Beam Angle	Luminous flux (lm)
 4201		CITIZEN Micro HumanTech Alternative: XICATO XOB LUMINUS bridgelux. Bridging Light and Life™ HONGLE 鴻光 Leadtech LGDEEN SAMSUNG VS LIGHTING SOLUTIONS SEOUL EDISON Lextar OSRAM PrevaLED CORE Mini	LES 14mm 	11°	Driver Current: 1050-1400mA Out Put: 4000-5500lm
 4301			Lamp Hole: 	27°	Driver Current: 1050-1400mA Out Put: 4000-5500lm
 4401			Slot 	39°	Driver Current: 1050-1400mA Out Put: 4000-5500lm
 4185			Reflector bottom with Chamfer 	13°	Driver Current: 1050-1400mA Out Put: 4000-5500lm
 5142			 	34°	Driver Current: 1050-1400mA Out Put: 3800-5200lm

Remark: The above data was tested with Citizen COB at ambient temperature 40°C. All data is for reference only. Final application must be reconfirmed by product engineer.

LED Reflector

OD111-121mm Series for LOR 85-90%






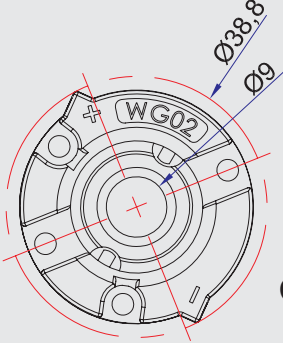





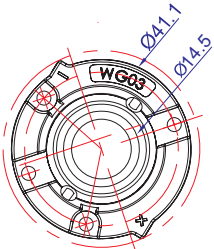

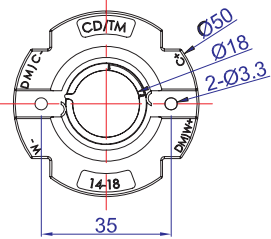



Picture	Measurements	Brands of COB	LES Diameter	Beam Angle	Luminous flux (lm)
 4201	 66 ø103 ø111	CITIZEN Micro HumanTech Alternative: XICATO XOB LUMINUS bridgelux. Bridging Light and Life™ HONGLE 鴻和光電 Leadtech LG DTEEN LED 照明 專家 SAMSUNG VS LIGHTING SOLUTIONS SEOUL EDISON Lextar OSRAM PrevaLED CORE Mini	LES 22mm  Lamp Hole:  Slot  Reflector bottom with Chamfer 	17°	Driver Current: 1050-1400mA Out Put: 4000-5500lm
 4301	 66 ø103 ø111			32°	Driver Current: 1050-1400mA Out Put: 4000-5500lm
 4401	 66 ø103 ø111			41°	Driver Current: 1050-1400mA Out Put: 4000-5500lm
 4185	 58 ø115 ø121			17°	Driver Current: 1050-1400mA Out Put: 4000-5500lm
 5142	 58 ø114 ø121		 COB Connector: WG04	39°	Driver Current: 1050-1400mA Out Put: 3800-5200lm

Remark: The above data was tested with Citizen COB at ambient temperature 40°C. All data is for reference only. Final application must be reconfirmed by product engineer.

LED Reflector With Lens

OD72-111mm Series for LOR 93-95%



Picture	Measurements	Brands of COB	LES Diameter
 Item:2202-DH Finish:Bright Pebble	 Item:2207-DH Finish:Sand Blasting	 	 SMD OD:35mm  LES 9mm COB Connector: WG02
 Item:3207-DH Finish:Sand Blasting	 Item:3206-DH Finish:Bright Anodise	LES 14mm  	LES 18mm (Tunable White)  
 Item:4227-DH Finish:Bright Anodise	 Item:4228-DH Finish:Sand Blasting	COB Connector: WG03/Luminus CTM-18  SMD OD:35mm	

Suitable for general lighting with spread beams

Diffuser choices: 2mm xOD50mm opal, frosted, PC or PMMA lens.

2mm xOD50mm sand blasting glass.

2mm xOD50mm prismatic glass.


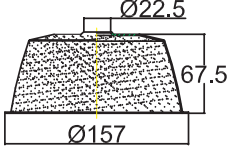



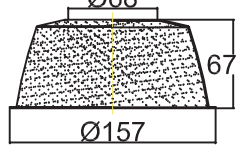

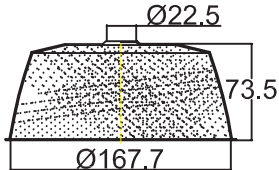

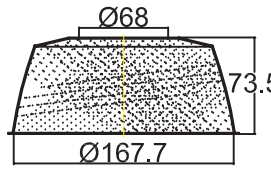

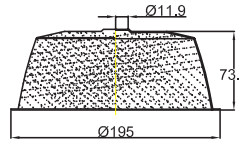


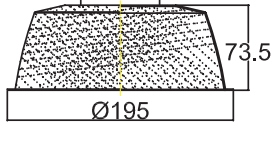

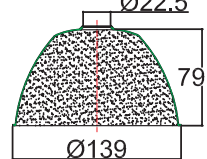


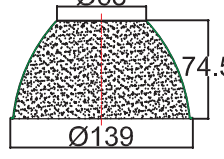

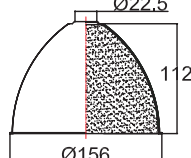

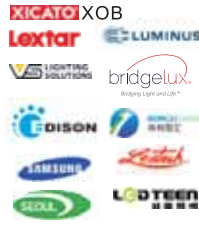

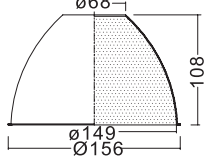

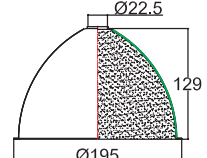

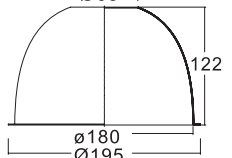

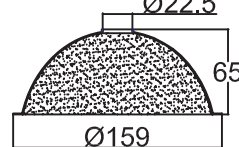
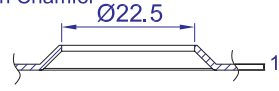
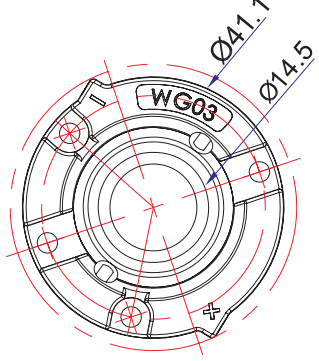

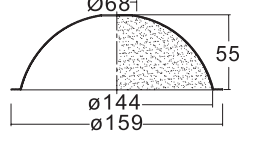

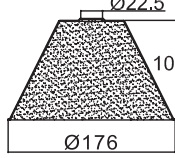

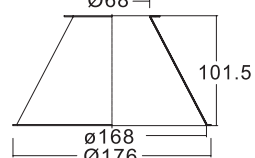
Aluminium Square Reflector

DLM, CUBE Modules & COB for General Lighting



PHILIPS

OSRAM

Picture	Measurements	LED Models	Picture	Measurements
		 Osram Cube Ac 		
				
		Philips DLM Felx High 		
		Philips DLM Felx Shallow 		
		 Citizen 		
				
		Reflector bottom with Chamfer   COB Connector: WG03		
				


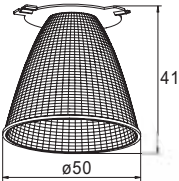


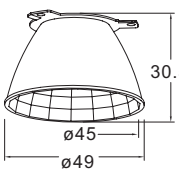


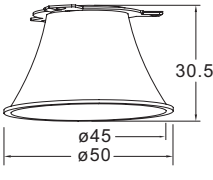

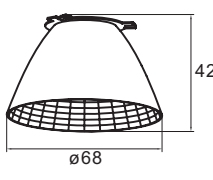
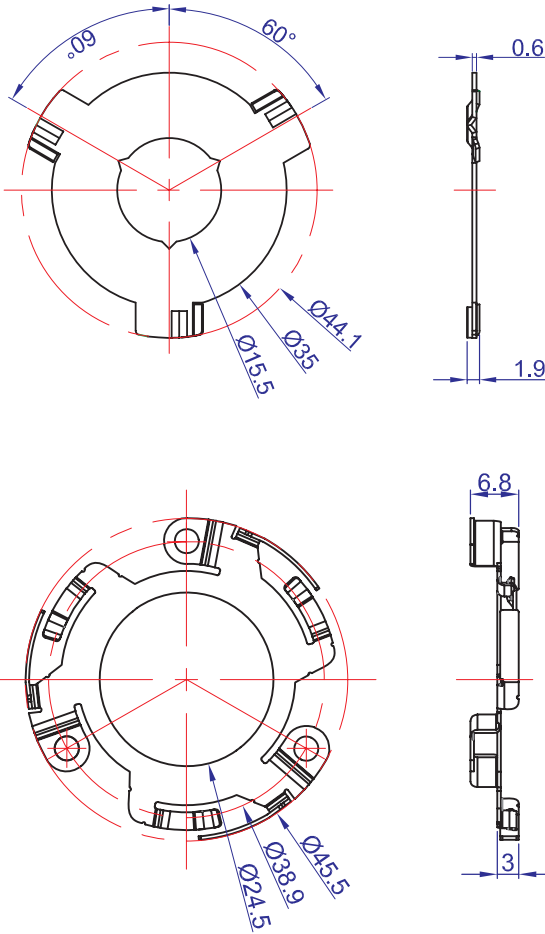

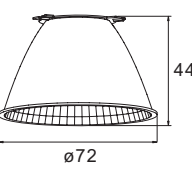

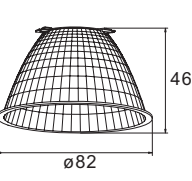

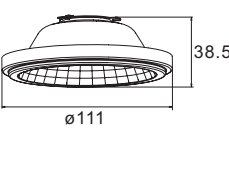
*We could also provide trim for assembly on some of the items above.

LED Reflector

XICATO



Xicato - Standard Narrow Beam Series(LES 9mm)

Picture	Measurements	COB	LES Diameter	Beam Angle	Luminous flux (lm)
 1017T-XM		 XTM 9mm	LES 9mm	13°	Driver Current: 350-1050mA Out Put: 340-1700lm
 1009T-XM		 XIM 9mm		18°	Driver Current: 350-1050mA Out Put: 340-1700lm
 1010T-XM				32°	Driver Current: 350-1050mA Out Put: 340-1700lm
 2093T-XM		<p>Lamp Hole:</p> 		14°	Driver Current: 350-1050mA Out Put: 340-1700lm
 2201T-XM				11°	Driver Current: 350-1050mA Out Put: 340-1700lm
 3150T-XM				10°	Driver Current: 350-1050mA Out Put: 340-1700lm
 4219T-XM				15°	Driver Current: 350-1050mA Out Put: 340-1700lm


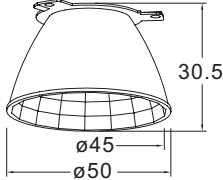


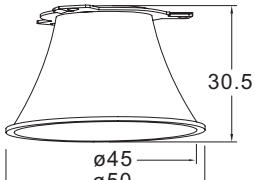


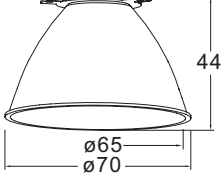
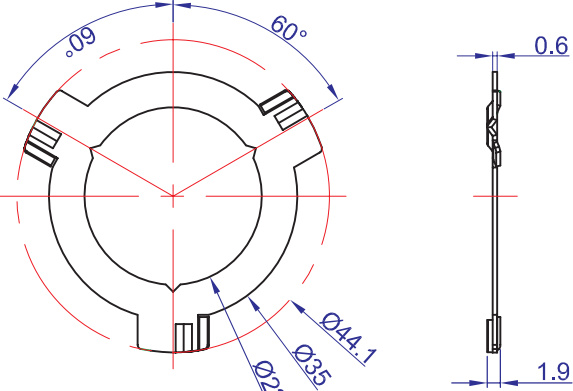

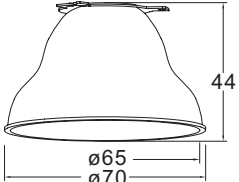
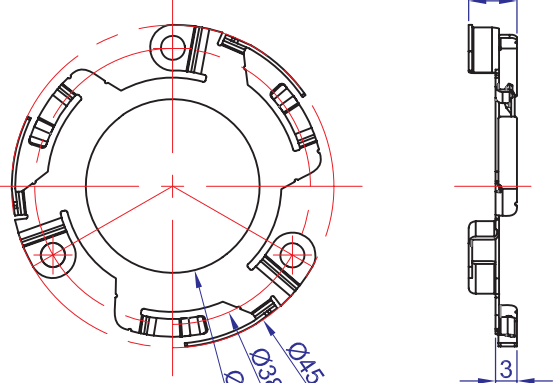

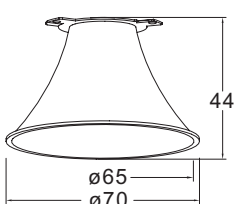
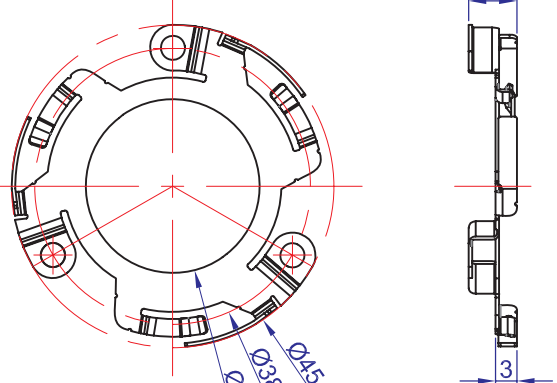
Remark: The above data was tested with Xicato XTM at ambient temperature 40°C. All data is for reference only. Final application must be reconfirmed by product engineer.

LED Reflector

XICATO



Xicato - Standard OD50/70mm Series(LES 19mm)

Picture	Measurements	COB	LES Diameter	Beam Angle	Luminous flux (lm)
 1009T-XM		 XTM(19mm LES)	LES 19mm	36°	Driver Current: 350-700mA Out Put: 600-1700lm
 1010T-XM		 XIM(19mm LES)		54°	Driver Current: 350-700mA Out Put: 600-1700lm
 2064T-XM				21°	Driver Current: 350-700mA Out Put: 600-1700lm
 2070T-XM				48°	Driver Current: 350-700mA Out Put: 600-1700lm
 2208T-XM				57°	Driver Current: 350-700mA Out Put: 600-1700lm


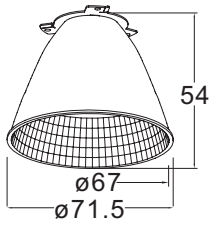


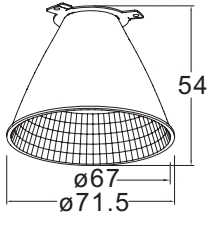


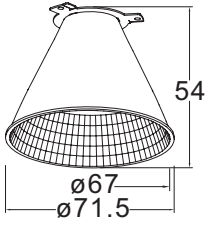
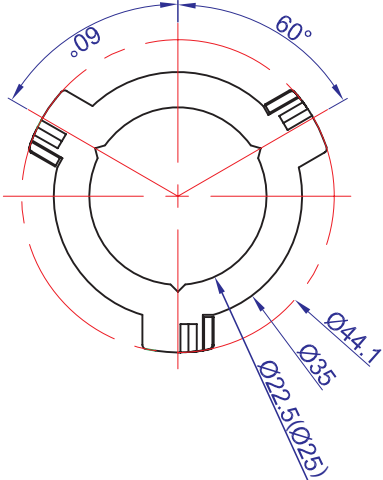

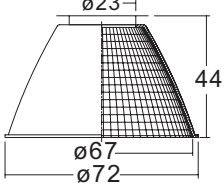
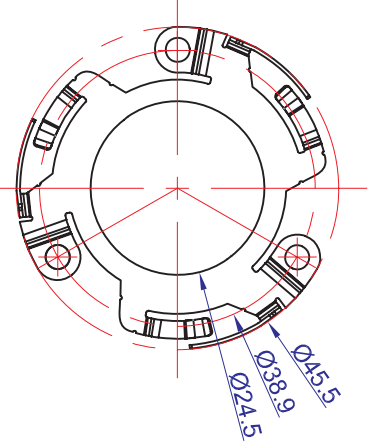

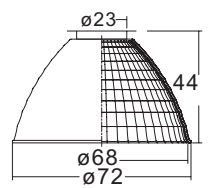
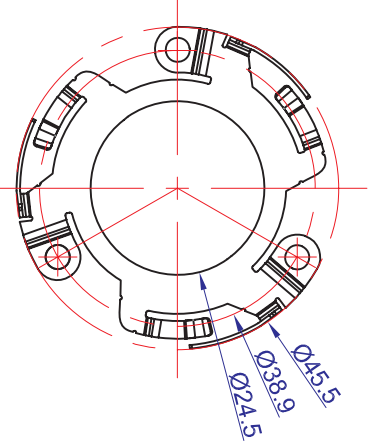
Remark: The above data was tested with Xicato XTM at ambient temperature 40°C. All data is for reference only. Final application must be reconfirmed by product engineer.

LED Reflector

XICATO



Xicato - Standard OD72mm Series(LES 19mm)

Picture	Measurements	COB	LES Diameter	Beam Angle	Luminous flux (lm)
 2087T-XM		 XTM(19mm LES)	LES 19mm	19°	Driver Current: 350-700mA Out Put: 600-1700lm
 2088T-XM		 XIM(19mm LES)		29°	Driver Current: 350-700mA Out Put: 600-1700lm
 2089T-XM				36°	Driver Current: 350-700mA Out Put: 600-1700lm
 2201T-XM				19°	Driver Current: 350-700mA Out Put: 600-1700lm
 2202T-XM				35°	Driver Current: 350-700mA Out Put: 600-1700lm


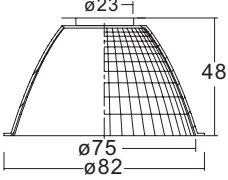


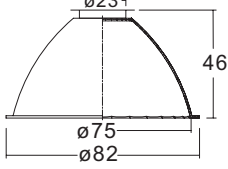


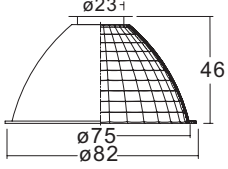
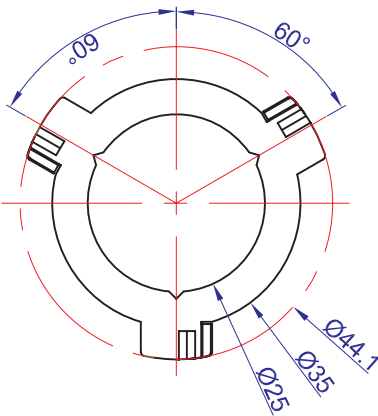

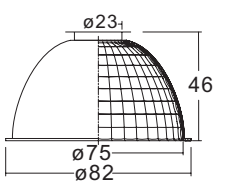
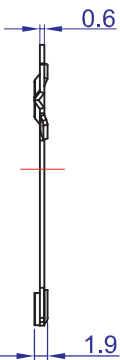

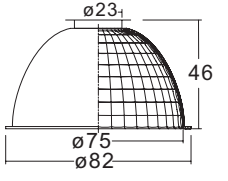
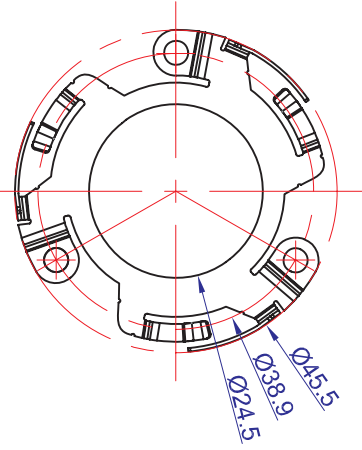
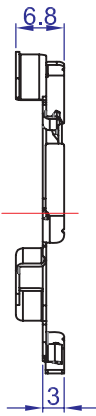
Remark: The above data was tested with Xicato XTM at ambient temperature 40°C. All data is for reference only. Final application must be reconfirmed by product engineer.

LED Reflector

XICATO



Xicato - Standard OD82mm Series(LES 19mm)

Picture	Measurements	COB	LES Diameter	Beam Angle	Luminous flux (lm)
 3150T-XM		 XTM(19mm LES)	LES 19mm	17°	Driver Current: 700-1050mA Out Put: 1600-2500lm
 3206T-XM		 XIM(19mm LES)		21°	Driver Current: 700-1050mA Out Put: 1600-2500lm
 3204T-XM		Lamp Hole: 		27°	Driver Current: 700-1050mA Out Put: 1600-2500lm
 3205T-XM				36°	Driver Current: 700-1050mA Out Put: 1600-2500lm
 3208T-XM				38°	Driver Current: 700-1050mA Out Put: 1600-2500lm
					


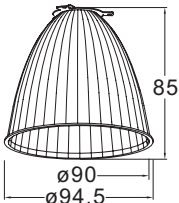


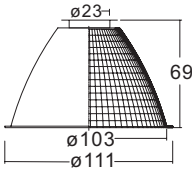


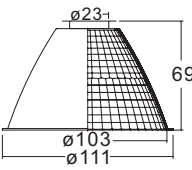
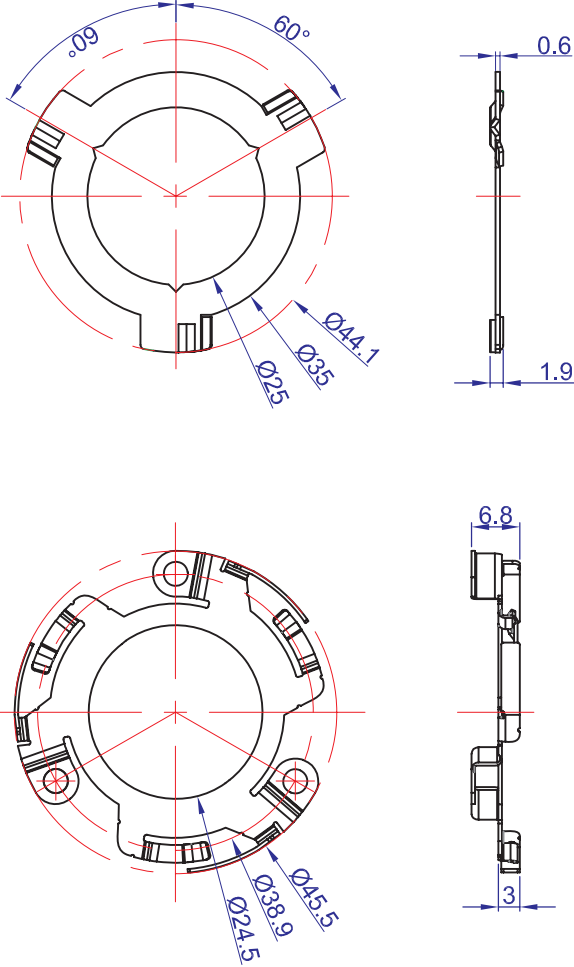

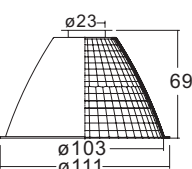

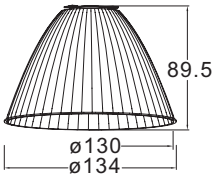

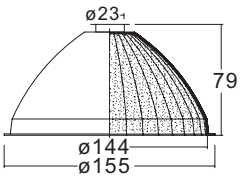
Remark: The above data was tested with Xicato XTM at ambient temperature 40°C. All data is for reference only. Final application must be reconfirmed by product engineer.

LED Reflector

XICATO



Xicato - Standard OD94.5/OD111/OD134/OD155mm Series(LES 19mm)


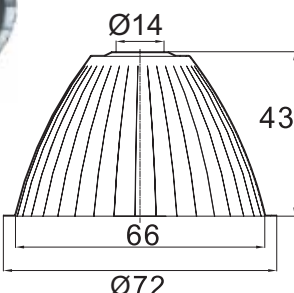


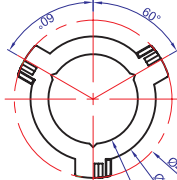
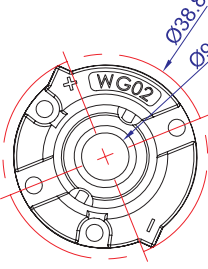

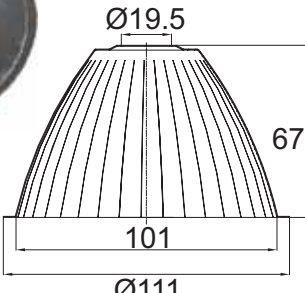

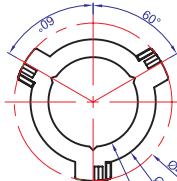
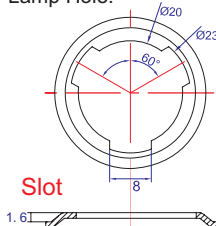

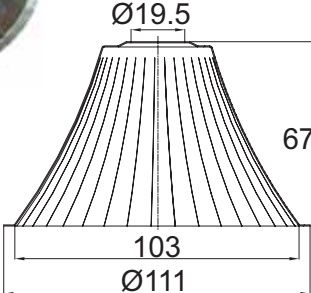
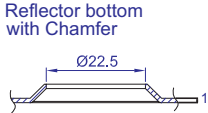
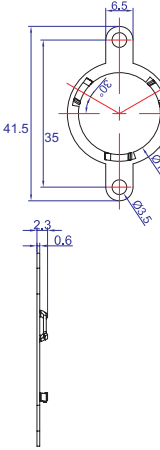
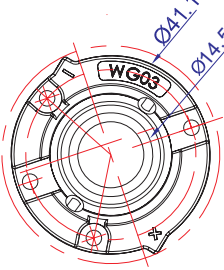
Picture	Measurements	COB	LES Diameter	Beam Angle	Luminous flux (lm)
 3142T-XM		 XTM(19mm LES)	LES 19mm	19°	Driver Current: 700-1050mA Out Put: 1600-2500lm
 4201T-XM		 XIM(19mm LES)		13°	Driver Current: 700-1050mA Out Put: 1600-2500lm
 4301T-XM		<p>Lamp Hole:</p> 		28°	Driver Current: 700-1050mA Out Put: 1600-2500lm
 4401T-XM				43°	Driver Current: 700-1050mA Out Put: 1600-2500lm
 5102T-XM				14°	Driver Current: 700-1050mA Out Put: 1600-2500lm
 6135T-XM				45°	Driver Current: 700-1050mA Out Put: 1600-2500lm

Remark: The above data was tested with Xicato XTM at ambient temperature 40°C. All data is for reference only. Final application must be reconfirmed by product engineer.

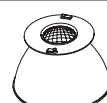
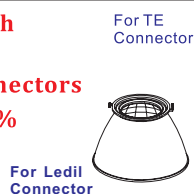
New Segment Antenna Reflector

OD72-111mm Series for LOR 93-95%



Picture	Measurements	Brands of COB	LES Diameter	Beam Angle	Luminous flux (lm)
 <p>2072 Miro 5 Stripe</p> <p>Dimension: OD72×H43</p>	 <p>Ø14 43 66 Ø72</p>	<p>XTM Lock XICATO</p>  <p>CITIZEN</p> <p>LES 9mm</p>  <p>Lamp Hole:  COB Connector: WG02 </p>	29°	Driver Current: 350-500mA Out Put: 1300-1900lm	
 <p>4411 Miro 5 Stripe</p> <p>Dimension: OD111×H66</p>	 <p>Ø19.5 67 101 Ø111</p>	<p>XTM Lock XICATO</p>  <p>CITIZEN</p> <p>LES 14mm</p> <p>Lamp Hole: </p> <p>Slot </p>	22°	Driver Current: 700-1050mA Out Put: 2700-4300lm	
 <p>4413 Miro 5 Stripe</p> <p>Dimension: OD111×H67</p>	 <p>Ø19.5 67 103 Ø111</p>	<p>Reflector bottom with Chamfer </p>  <p>COB Connector: WG03 </p>	30°	Driver Current: 700-1050mA Out Put: 2700-4300lm	

- ★ Inter-changeable for various light beams with consistant measurments.
- ★ Wider shoulder for Zhaga modules and connectors
- ★ Better light performance over LOR 93%-95%
- ★ Miro5, Miro Silver Segment Reflector



For BJB/AAG
Connectors

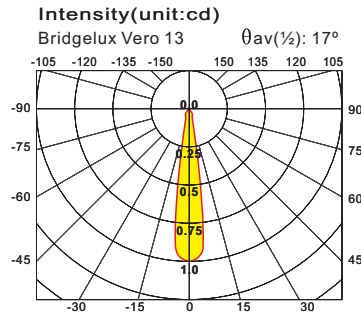


For Fortimo
SLM

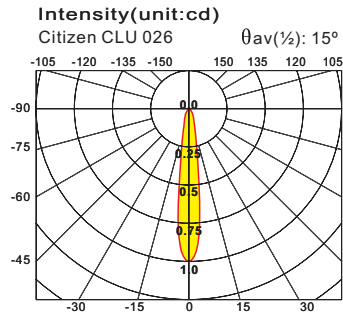


For Xicato
XTM/XIM

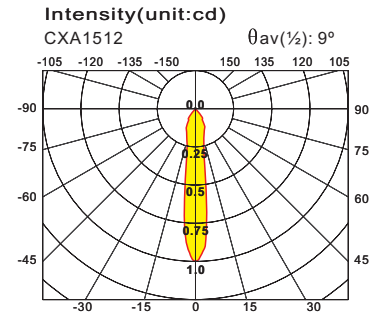
LED Reflector Photometric Data



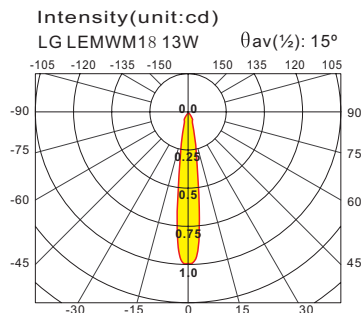
2094-BL



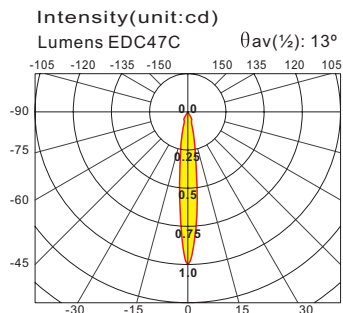
2094-CZ



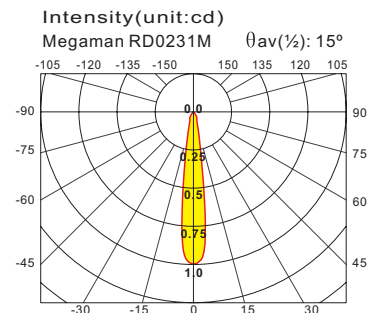
2094-CR



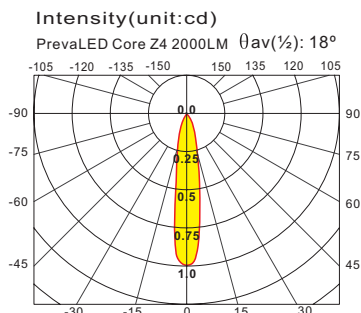
2094-LG



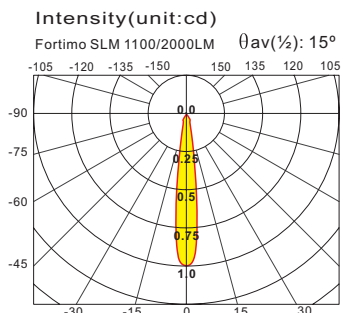
2094-LM



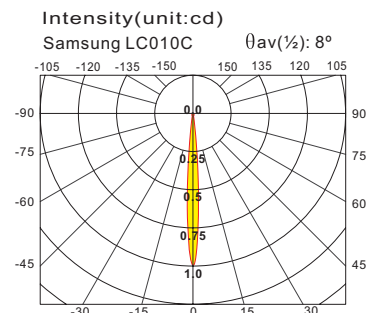
2094-MG



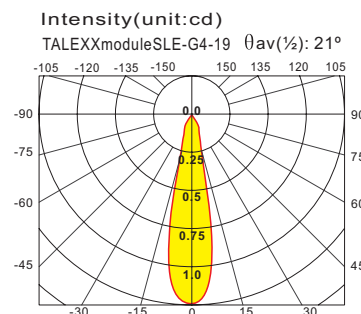
2094-OR



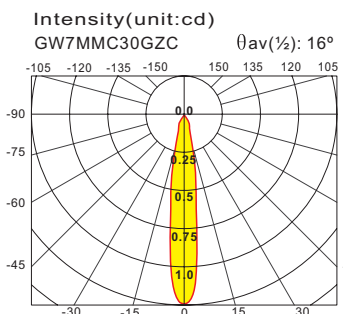
2094-FM



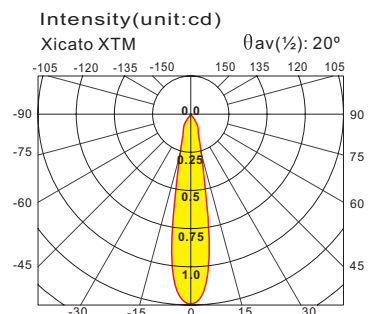
2094-SS



2094-TD



2094-SP



2094T-XM



Remark: We could provide photometric data files for all reflector items listed on this catalogue upon request or please reach our home page: www.widegerm.com.hk at reflector section.


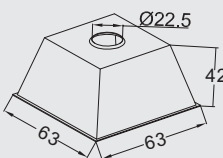

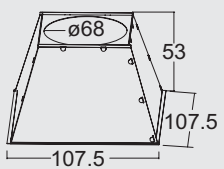

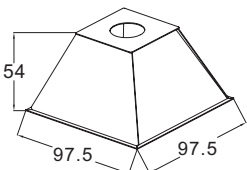

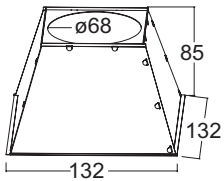

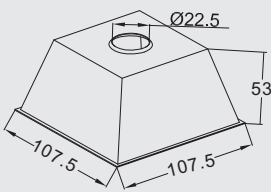

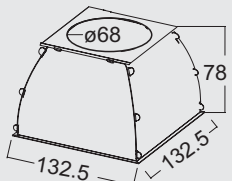

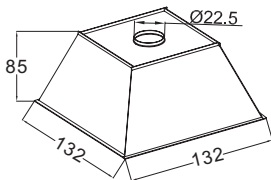


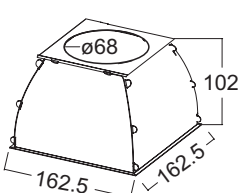

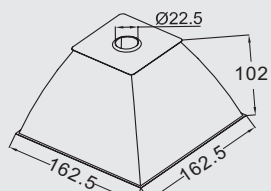
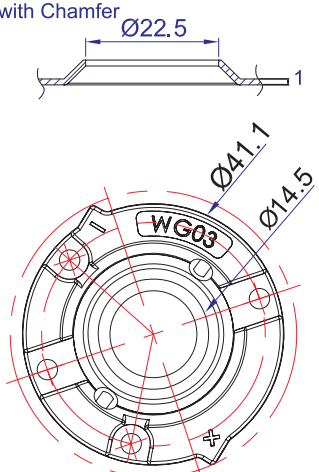

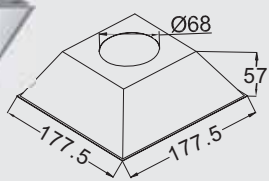

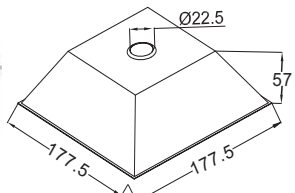
Aluminium Square Reflector

DLM, CUBE Modules & COB for General Lighting



PHILIPS

OSRAM

Picture	Measurements	LED Models	Picture	Measurements
	 2052W Material:Miro5/ 320G *Matt finish by request	Osram Cube Ac		 4173W Material:Miro5/ 320G *Matt finish by request
	 3143W Material:Miro5/ 320G *Matt finish by request	Philips DLM Felx High <i>With Additional Holding Bracket</i>		 5057W Material:Miro5/ 320G *Matt finish by request
	 4173W Material:Miro5/ 320G *Matt finish by request	Philips DLM Felx Shallow Tridonic DLE		 6040W Material:Miro5/ 320G *Matt finish by request
	 5057W Material:Miro5/ 320G *Matt finish by request	Citizen  Reflector bottom with Chamfer		 6099W Material:Miro5/ 320G *Matt finish by request
	 6099W Material:Miro5/ 320G *Matt finish by request	 COB Connector: WG03		 7099W Material:Miro5/ 320G *Matt finish by request
	 7099W Material:Miro5/ 320G Matt finish by request			

*We could also provide trim for assembly on some of the items above.

Asymmetric & Irregular Reflectors

By Folding & Rolling Equipments with Alanod
Aluminium Material

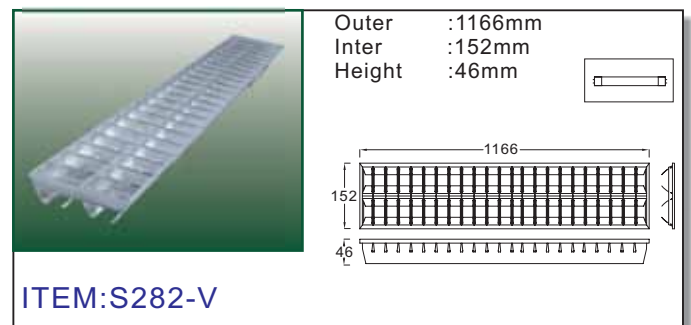
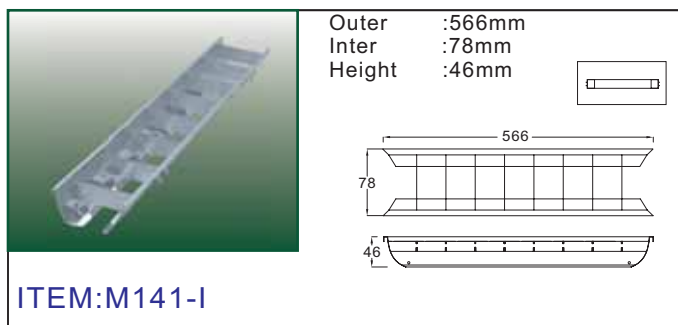
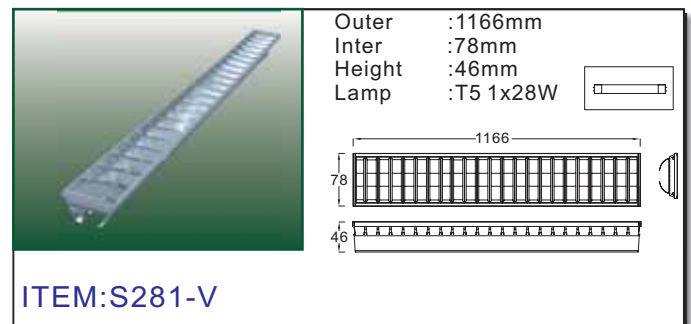
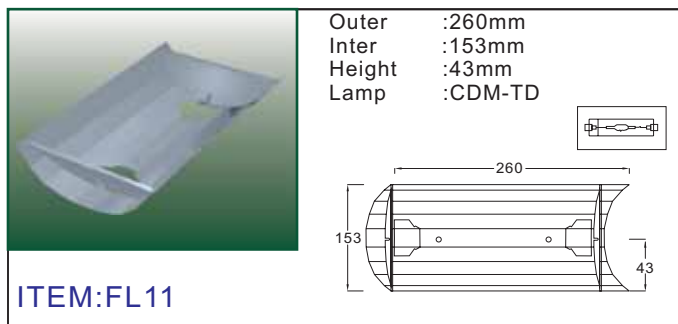
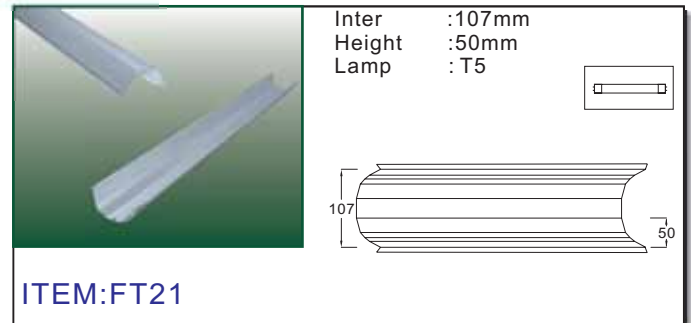
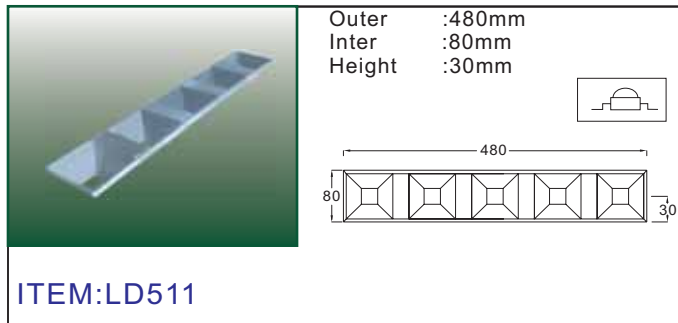
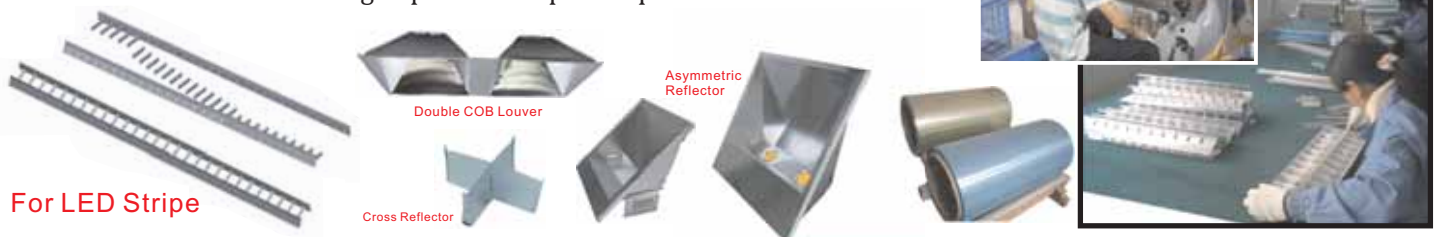
Alanod Material



Picture	Measurements	LED Models	Picture	Measurements
Item:6220 Material:Miro5/ 320G Matt finish by request			Item:6221 Material:Miro5/ 320G Matt finish by request	
Item:7220 Material:Miro5/ 320G *Matt finish by request			Item:7221 Material:Miro5/ 320G Matt finish by request	
Item:4178-XC Material:Miro5/ 320G *Matt finish by request		Item:8039W Material:Miro5/ 320G Matt finish by request	Item:6048-CZ Material:Miro5/ 320G Matt finish by request	
Item:6275-XC Material:Miro5/ 320G *Matt finish by request			Item:6048-XC Material:Miro5/ 320G Matt finish by request	
Item:5081 Material:Miro5/ 320G *Matt finish by request		Item:4179 Material:Miro5/ 320G Matt finish by request	Item:3178 Material:Miro5/ 320G Matt finish by request	

LED Louvers & Springs

OEM & ODM projects are welcome, more types of materials and Newest designs provided upon request.



Spring and Mounting Clips



Metal Parts, OEM & ODM

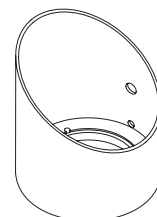
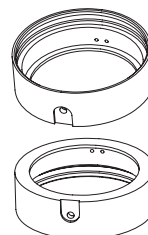
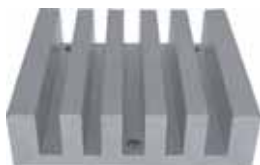
CNC Turning, Metal Forming & Stamping Items



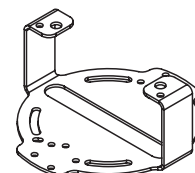
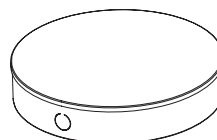
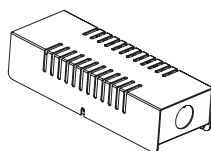
Metal production is ran by our professional and experienced team who handle lighting parts with customers design. Again customer comes first and quality oriented are our promise always. We also look for solutions to reduce customers cost and improve their efficiency in using Widegerm's metal parts.



Turning Parts by CNC



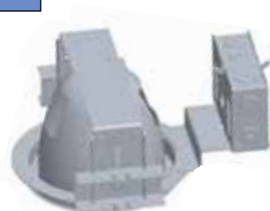
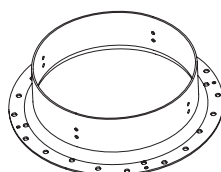
Metal Gear Box & Plate



Fixture Brackets



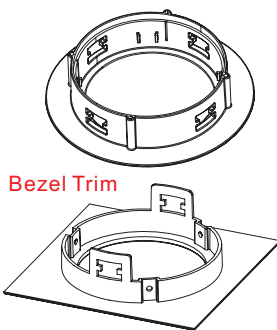
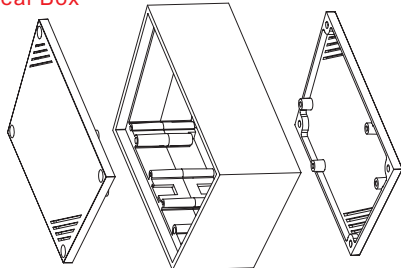
Bezel Trim



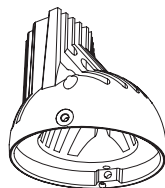
Die Casting Components

OEM & ODM Welcome

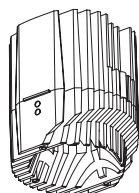
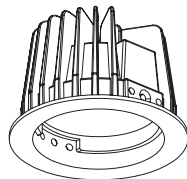
Gear Box



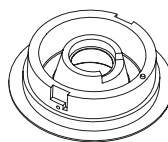
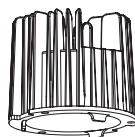
Bezel Trim



Downlight Body



LED Heatsink



LED 8W



LED 30W



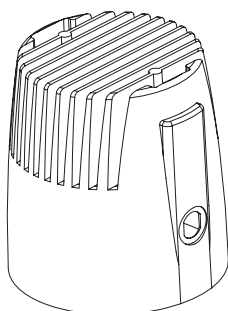
Alloy Casting

Modern Lighting designers have considered die-casting products to be used for high-end market and for complex structure designs. Widegerm's associates have used large volume of casting components in their fixtures for exporting in the past few years. Widegerm lighting has been a casting user in beginning, but have become an exporter and producer of casting. Her associates have built their own die-casting production facilities with CNC process, and machinery from 125 tons to 800 tons which can handle most fixtures' injection requirements. Most of the technicians have over 10 years experience in moulding and die-casting operation. Like Widegerm reflectors, "**customer comes first**" and "**quality oriented**" are the company's major policies to be successful. We keep our casting products at very low cost level and maintain high flexibility to help lighting makers to expand their new ranges. We help buyers to with easy one stop for their China sourcing.

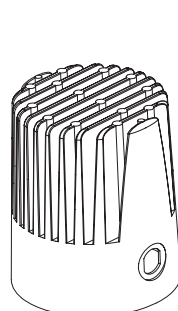
Surface Finishing



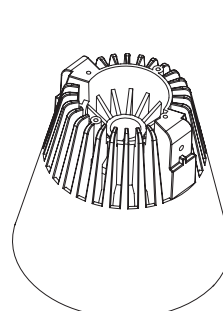
LED 45W



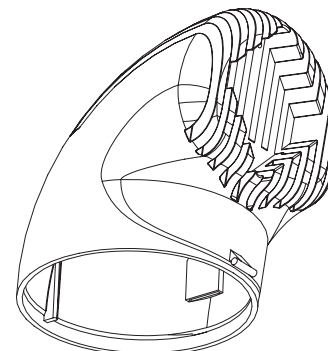
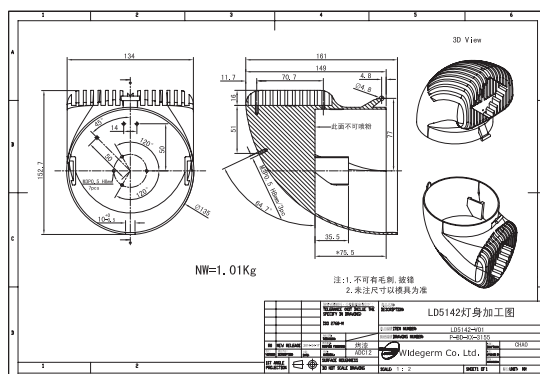
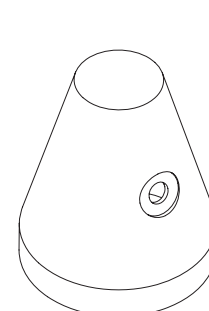
LED 35W



LED 30W



HQI 70W



Cylindrical LED Heat Sink

With inner thermal fins and pre-made threads for mounting COB connectors & gear devices


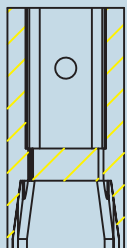
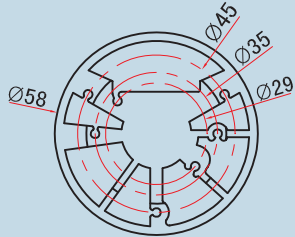

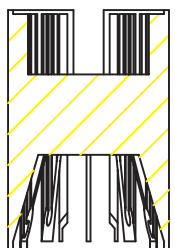
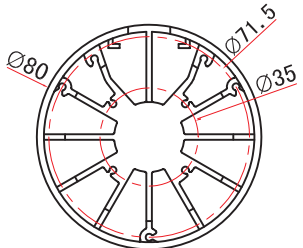

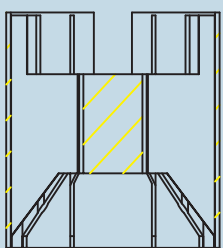
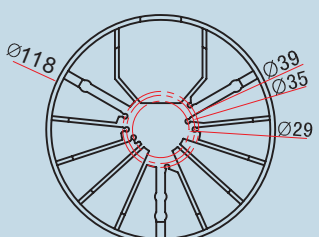


Features & Functions :

- Customized CNC turning for providing rooms for reflectors, connectors or driver.
- Extra drilling hole or moving arm slot upon request.
- Flexible length to be custom-made for product design and thermal requirements.
- Suitable for producing track light, wall fixture and pendant



Pre-made threads for connectors

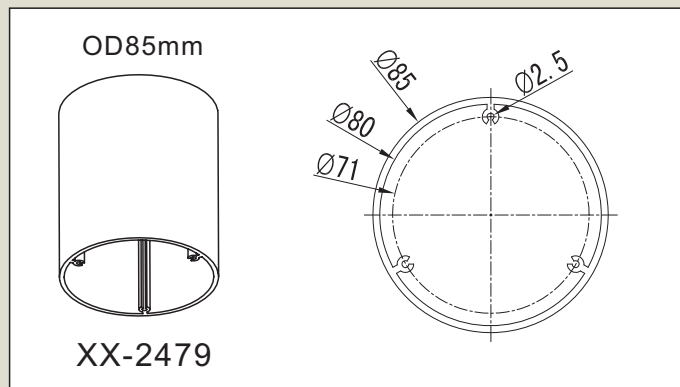
Part Number	Item Number	Height (mm)	Weight (g)	Driver (mA)	Nominal System Power	Radiant Surface
Model:SK-C58D OD58mm   	SK-C58D-100	100	354	250	10W	65647mm ²
	SK-C58D-120	120	425	350	15W	78252mm ²
Model:SK-C80D OD80mm   	SK-C80D-120	120	625	500	20W	140534mm ²
	SK-C80D-140	140	729	700	28W	163314mm ²
Model:SK-C118D OD118mm   	SK-C118D-80	80	671	700	28W	152664mm ²
	SK-C118D-150	150	1258	1050	42W	280807mm ²

Remark: The above data was tested with Citizen COB at ambient temperature 40°C. All data is for reference only. Final application must be reconfirmed by product engineer.

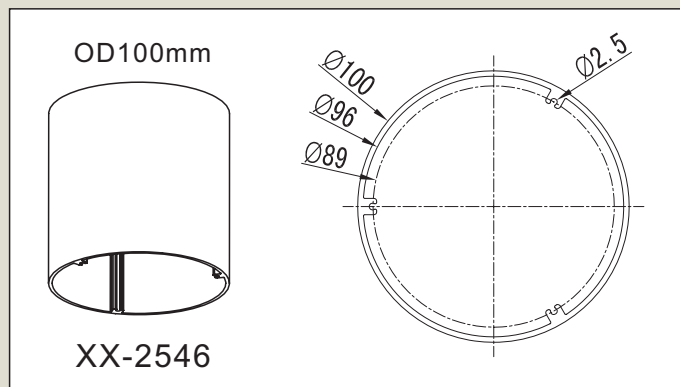
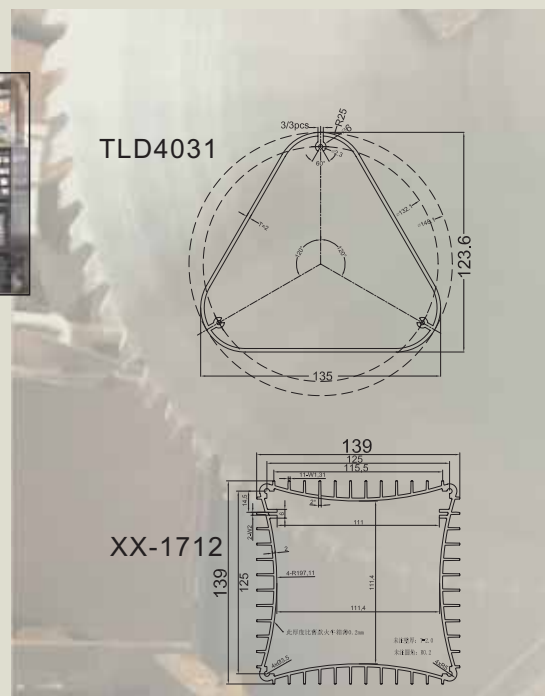
Aluminium Extrusion Profiles

With CNC Processing

- * Customers could provide special design.
- * Standard items with no MOQ but allow different lengths.

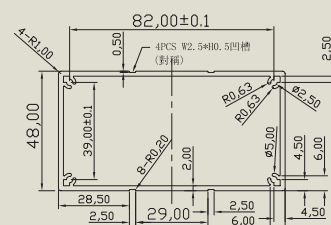


Product:
Gear Tray

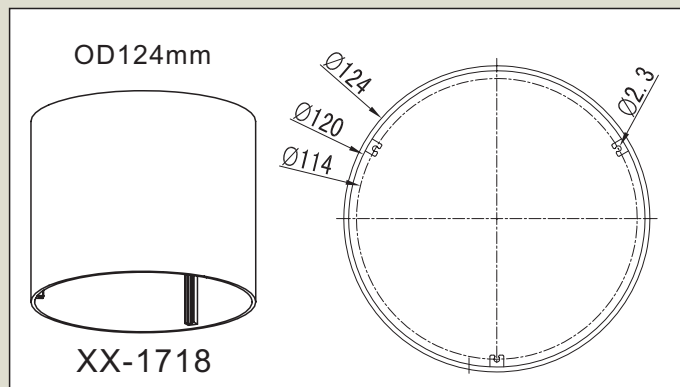
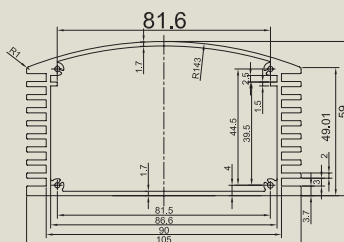


Product:
High Bay

XX-0495

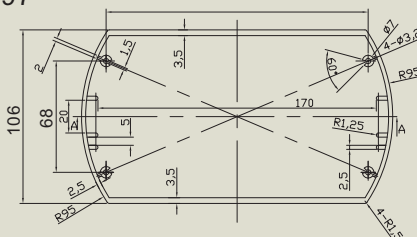


XX-1739

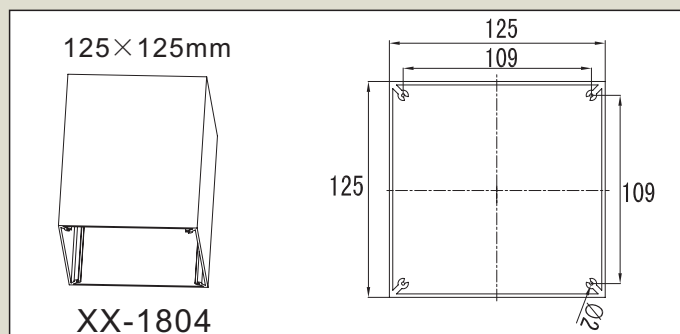
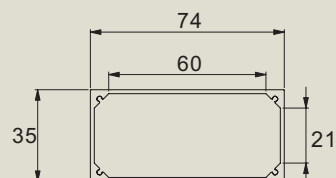


Product:
Track Light

XX-1397

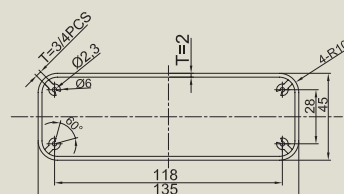


LR-022



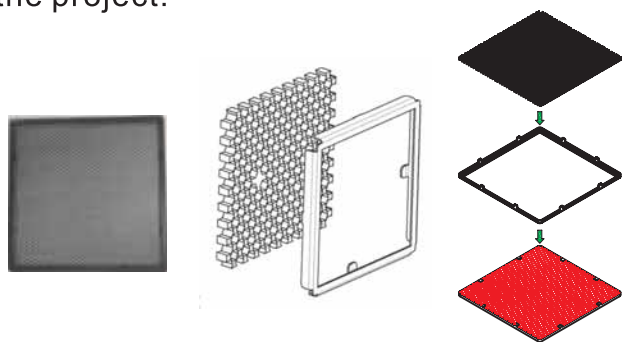
Product:
Surface Mounted
Downlight

XX-3731



Honey Comb Diffuser

Widegerm is a specialist manufacturer of 'Honey Comb' beam and glare control optics. Honey Comb is a very effective optical device providing glare control with an aesthetic appeal. Common installation examples are Hotels, Cafes, Retail shops, Lounges, Theatres, Museums and Art Galleries. Widegerm offers a comprehensive range of honey comb standard products, which include the most common sizes: 50mm; 72mm; 82mm; 92mm; 111mm. Anodised rings and matching reflectors complete the range. Widegerm's service includes custom building to meet the clients needs of size, shape and thickness, tailor made for the project.



Honey comb on WG standard fixtures



	No. :HC050-40B Size :OD50mm H :4mm
	No. :HC072-50B Size :OD73mm H :4.8mm
	No. :HC082-50B Size :OD82mm H :4.8mm
	No. :HC091-50B Size :OD91.5mm H :4.8mm
	No. :HC111-50B Size :OD111mm H :4.8mm

Honey comb applications



Jewellery shop



Hotel lobby



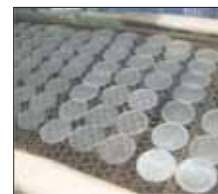
Honey comb on reflectors



Sample kit

Glass and Optical Lens for Lighting

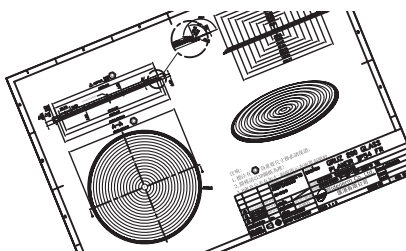
Molded Glass & Sheet Cut Glass



Molded Glass

To offer buyer a one-stop solution, We provide professional support and competitive price for lighting manufacturers to source optical lens and glass diffusers from our partners. A wide range of molded glass, from custom design, that can achieve with generally accepted tolerance requirement and specifications. We sometimes apply the lens to our lighting products and reflectors for better service and costing reducing to buyers. Below listed are the common treatments, finishes and materials we currently provide.

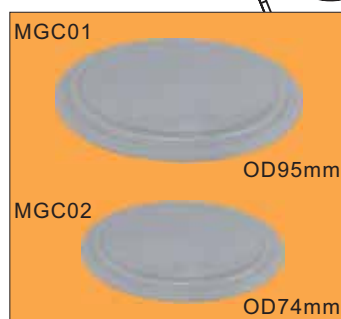
- Textures of molded glass
- Etching and Sand Blasting treatments
- Cut hole and Drilling
- Bending and Edge polishing
- Toughening for safety glass
- Borosilicate material for heat
- Dichonic Coating process for Coloured light



Molding Process



Elongation Lens



Curved Lens



Spread Lens



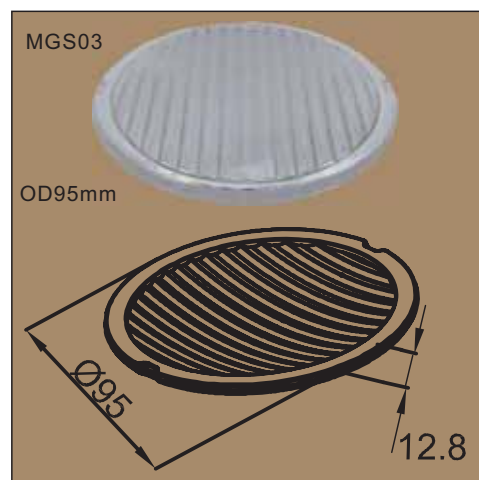
Tooling



Dome Lens



Venetian Blinds Lens



Stripe Texture Lens



Spiral Texture Lens

Sheet Cut Glass

Glass Diffuser Finishes :



Partly Black Printed



Frosted



Prismatic Square Cut



Semi Frosted



Stripe Round Cut



Prismatic Texture

Remark : Several edge treatments and thickness upon request. Customer Design is welcome.

Bezel Trims



Steel Trim & Die Casting Trim



Steel trim family A for open reflector

Model no.	Description	Material	OD	Cut out	Reflector OD(mm)
TR0806S	8" steel trim	Steel	220	197	194
TR0904S	9" steel trim	Steel	254	230	227



Steel trim family B for open reflector

Model no.	Description	Material	OD	Cut out	Reflector OD(mm)
TR0401Q	4" wide edge steel trim	Steel	143	120	113
TR0501Q	5" three holes steel trim	Steel	178	150	144
TR0601S	6" four holes steel trim	Steel	190	168	161
TR0802S	8" narrow edge steel trim	Steel	228	205	197



Die cast trim for open reflector

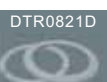
Model no.	Description	Material	OD	Cut out	Reflector OD(mm)
TR0511D	5" aluminum die cast trim	Die cast	145	128	110
TR0602D	6" aluminum die cast trim	Die cast	197	175	165
TR0603D	6" aluminum die cast trim	Die cast	190	168	159
TR0804D	8" aluminum die cast trim	Die cast	236	211	202
TR0903D	9" aluminum die cast trim	Die cast	260	235	226

TR0511D



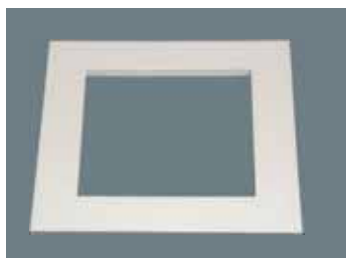
Die Cast standard double trim (for glass)

Model no.	Description	Material	OD	Cut out	Reflector OD(mm)
DTR0401D	4" Die cast double trim	Die cast	155	141	121
DTR0601D	6" Die cast double trim	Die cast	194	175	157
DTR0801D	8" Die cast double trim	Die cast	227	212	193
DTR0821D	8" IP65 Die cast double trim	Die cast	245	212	193
DTR0901D	9" Die cast double trim	Die cast	260	243	225



Die cast square single trim

Model no.	Description	Material	Dimension	Cut out	Reflector Dimension
DTS0301	die cast single trim	Die cast	86x86	75x75	62x62
DTS0501	die cast single trim	Die cast	140x140	123x123	107x107
DTS0701	die cast single trim	Die cast	170x170	150x150	132x132
DTS0801	die cast single trim	Die cast	200x200	180x180	161x161



Die cast square double trim for glass

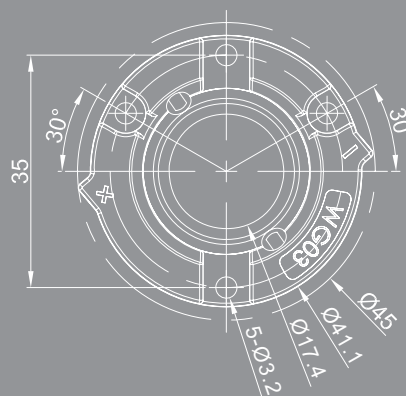
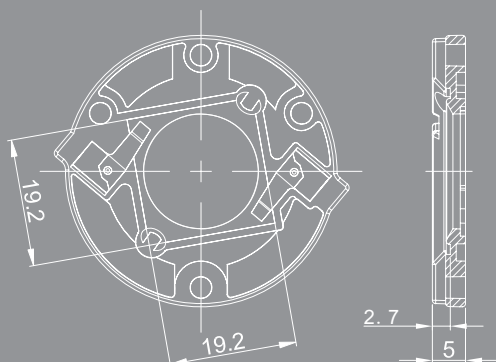
Model no.	Description	Material	Dimension	Cut out	Reflector Dimension
DDT7099	Die cast double trim	Die cast	225x225	207x207	184x184



Solderless COB Connector

Applications with Different Structures

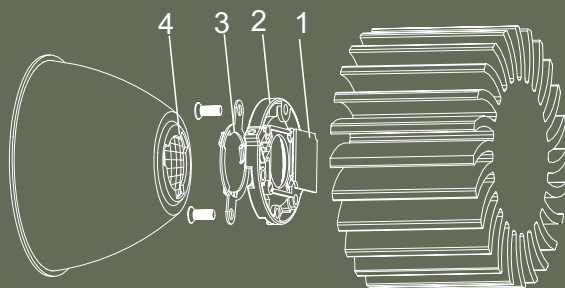
COB Connector



Model:WG03 for LES 14mm COB

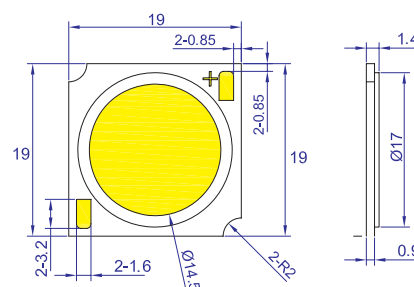
A) Slots Type

- * Easy to change different beam angle reflectors
- * Require extra locking spring



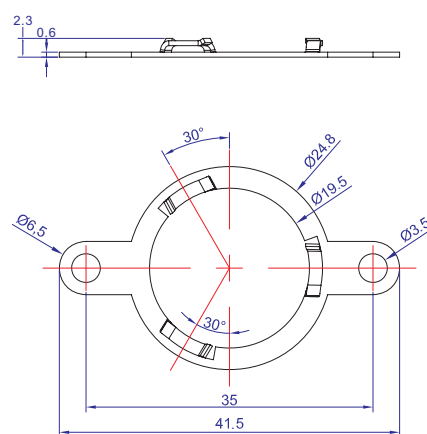
- 1.COB
- 2.WG03 solderless connector
- 3.Locking Spring
- 4.Reflector with three slots holes

LED Light source:
Citizen CLU03(LES14MM)



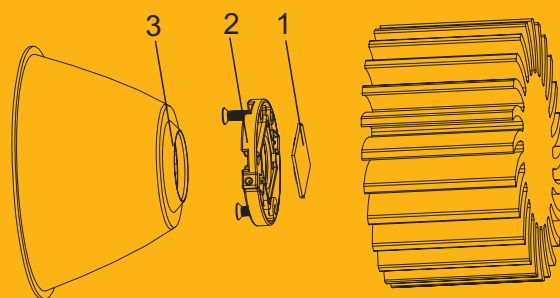
Locking Spring

Model:WG SPOS-2
Material:Stainless Steel



B) Chamfer Type

- * Used for fixed structure
- * Without locking spring
- * Less light loss & cost



- 1.COB
- 2.WG03 solderless connector
- 3.Reflector with extension neck
- 4.Require front trim to hold the reflector

- * Cable: Solid wire 22-20 AWG (0.32-0.50mm²), Tinned wire 22-20 AWG (solder dipped)
- * Material for connector : PBT
- * Rating : 3A 60V DC
- * Thinner design for less light loss and slim structure
- * With Integrated aluminum reflectors with locking devices
- * Fixing Screws : 3xM3/ 2xM3
- * Rated Temperature: 105°C

Solderless Single Channel COB Connectors

For Citizen & Alternative COB Brands & Locking System

CITIZEN
Micro HumanTech

XOB
XICATO

bridgelux
imaging lights and more

SEOLUX
EDISON

LAMBDA
LIGHTING SOLUTIONS

WORLDWIDE
LED LIGHTING

Lexar

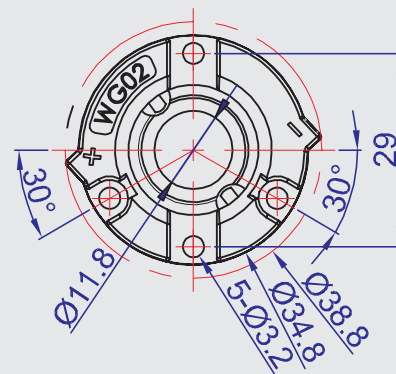
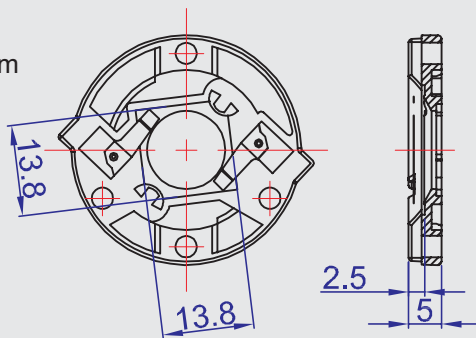
LUMINUS

LED TEEN

OSRAM
PrevaLED
CORE Mini

WG02

Citizen
LES:9mm

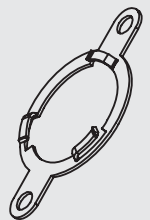
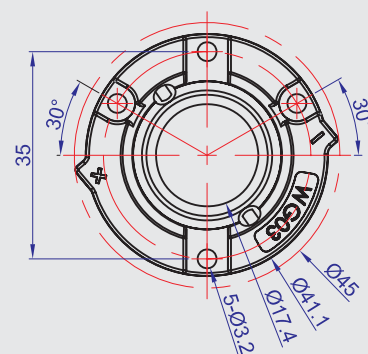
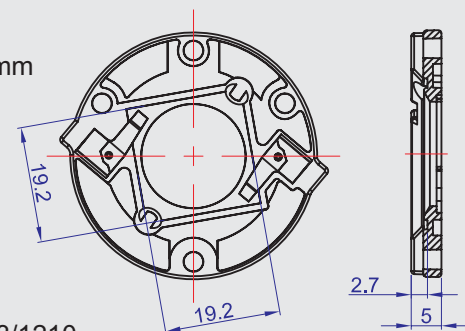


* CLU02X-1201/1202/1203/1204

Optional Device

WG03

Citizen
LES:14mm

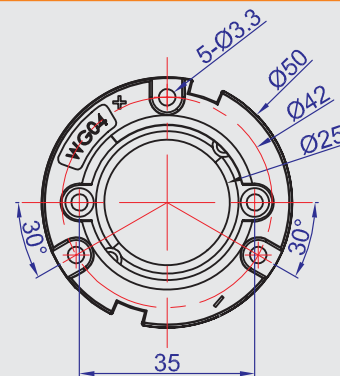
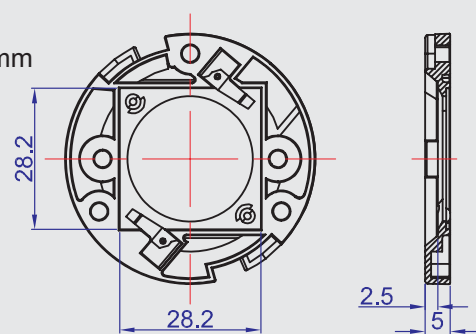


* CLU03X-1205/1206/1208/1210

Optional Device

WG04

Citizen
LES:22mm



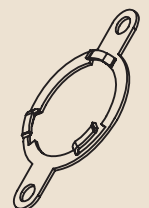
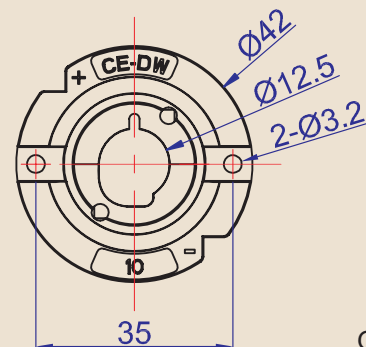
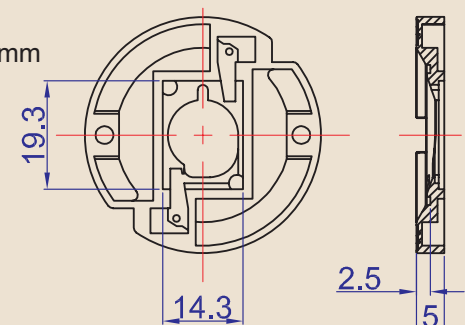
* CLU04X-1211/1212/1216/1812/1818

Optional Device

CE-DW10

(Warm Dimming COB)

Citizen
LES:9.8mm



* CLC022/CLC020

Optional Device

Solderless Single Channel COB Connectors(Two Wires)

For Cree,Osram,Philips COB & Locking System

PHILIPS

OSRAM Kit Basic Core

CREE

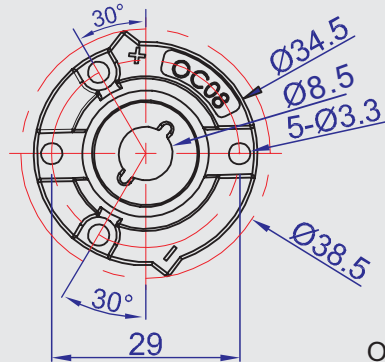
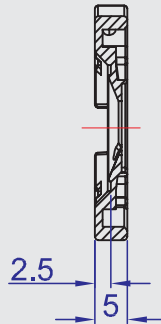
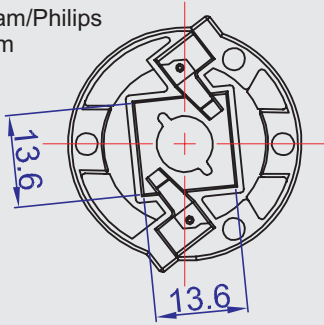


OC08

Cree/ Osram/Philips
LES:7.5mm



*CXA 1304/1310
Basic Core-G1-800
SLM 1201



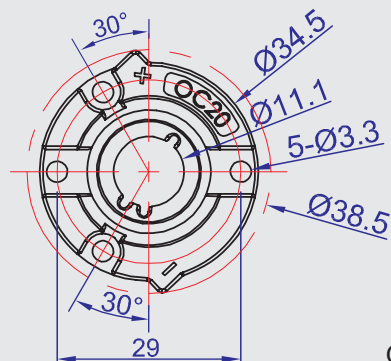
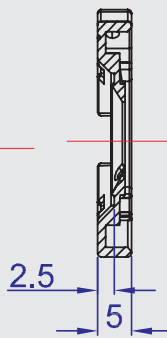
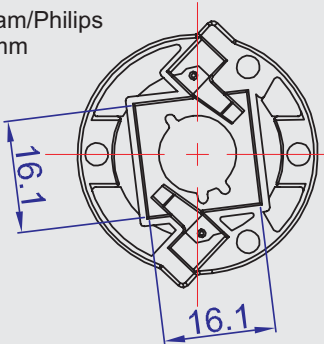
Optional Device

OC20

Cree/ Osram/Philips
LES:10.5mm



*CXA 15071/510/1512/1520
Basic Core -G1-1500/2000
SLM 1202/1203



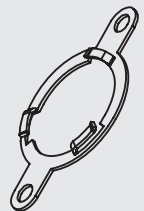
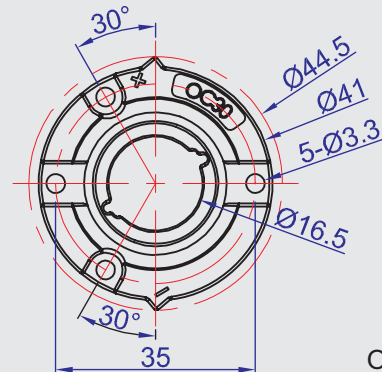
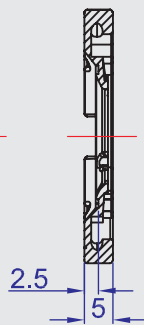
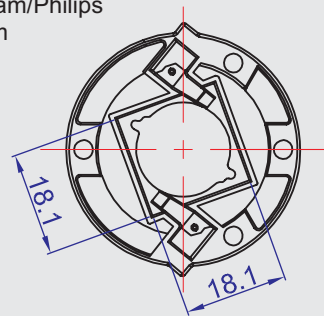
Optional Device

OC30

Cree/ Osram/Philips
LES:14mm



*CXA 18161/820/1830/1850
Basic Core -G1-3000
SLM 1204/1205/1208



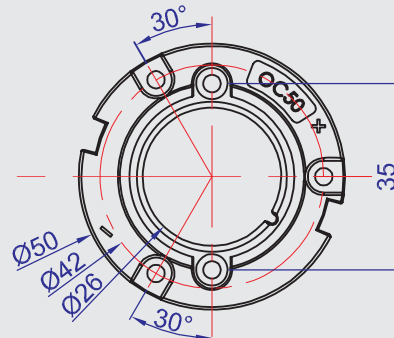
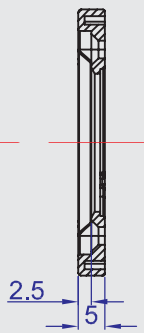
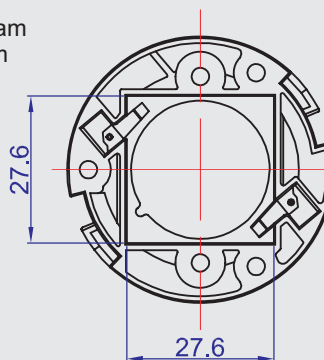
Optional Device

OC50

Cree/ Osram
LES:25mm



*CXA 3050/3070
Basic Core-G1-5000



Optional Device

Solderless Single Channel Module COB Connectors (Two Wires)

For Bridgelux & Luminus Warm Dimming COB

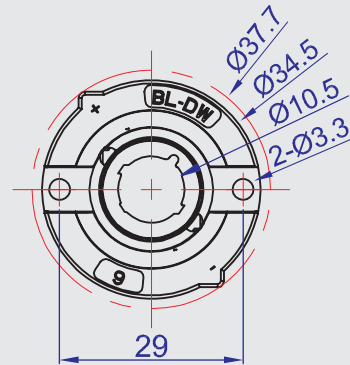
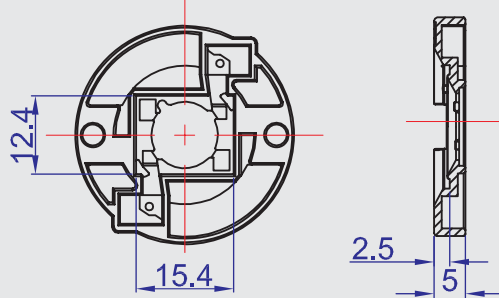


BL-DW9

Bridgelux Warm Dimming LES:9mm



*BXR-DR-1820G-1000
BXR-DR-1820H-1000
BXR-DR-1830G-1000
BXR-DR-1830H-1000
*ZG2BxGxxL00
ZG2BxMxxL00



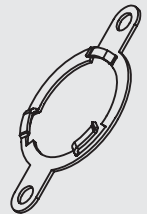
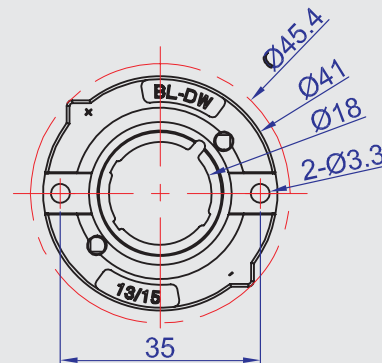
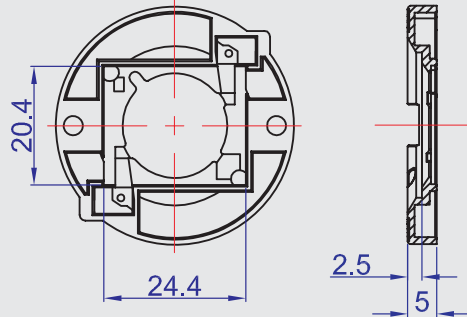
Optional Device

BL-DW 13/15

Bridgelux Warm Dimming LES:15mm



*BXR-DR-1827G-2000
BXR-DR-1827H-2000
BXR-DR-1830G-3000
BXR-DR-1830H-3000



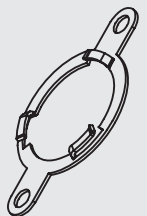
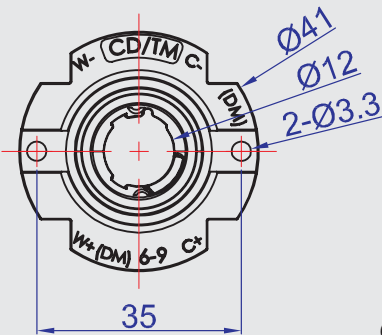
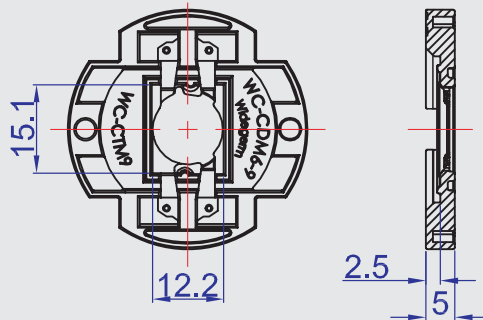
Optional Device

CD/TM 6-9

Luminus Warm Dimming LES:6/9mm



*CDM-6/CDM-9/CTM-9



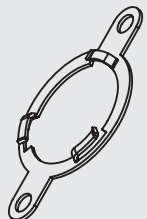
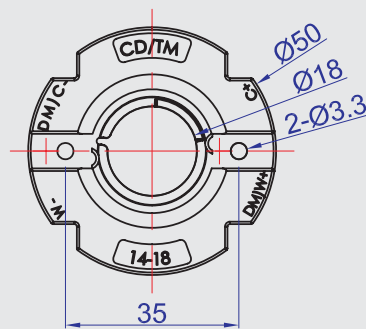
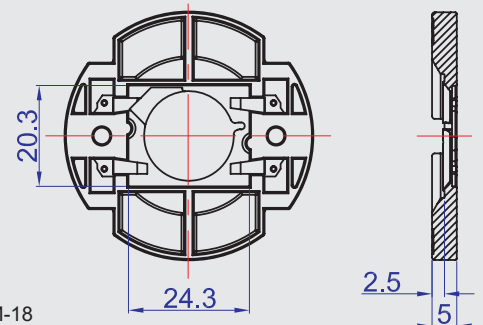
Optional Device

CD/TM 14-18

Luminus Warm Dimming LES:14/18mm



*CDM-14/CDM-18/CTM-14/CTM-18

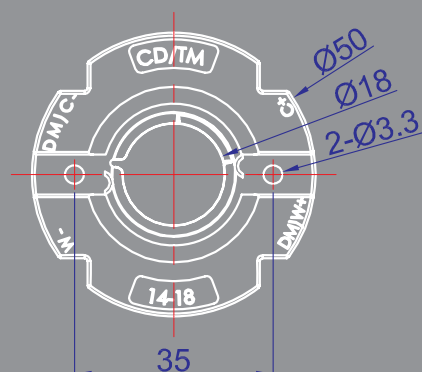
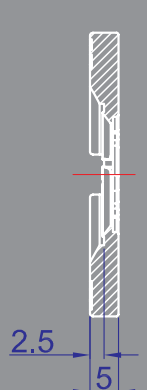
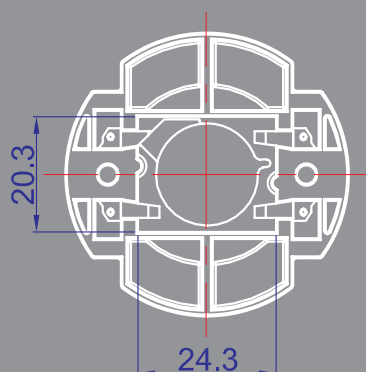


Optional Device

Solderless Two Channels COB Connector(Four Wires)

For Luminus Tunable White

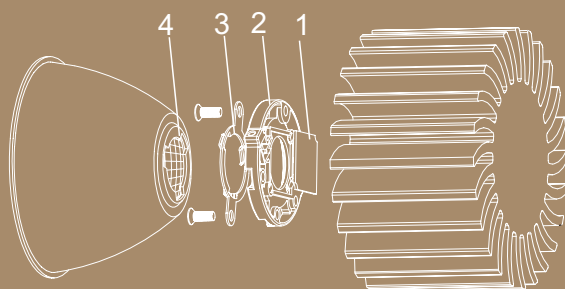
COB Connector



Model:CD/TM 14-18 for LES 18mm COB

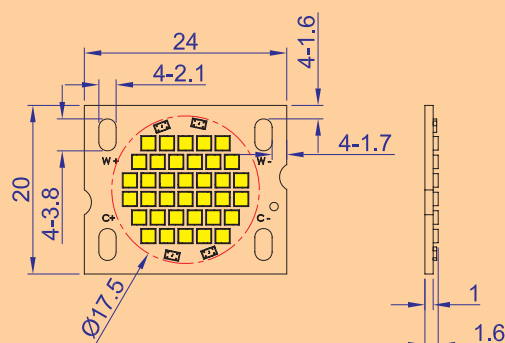
A) Slots Type

- * Easy to change different beam angle reflectors
- * Require extra locking spring



1. COB for Tunable White function
2. CD/TM 14-18 solderless connector
3. Locking Spring
4. Reflector with three slots holes

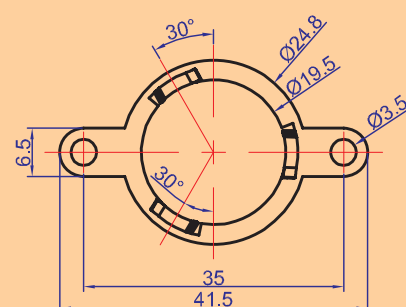
LED Light source:
Luminus CTM-18(LES18MM)



Locking Spring

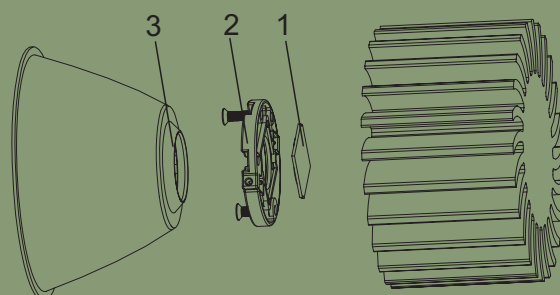
Model:WG SPOS-3

Material:Stainless Steel



B) Chamfer Type

- * Used for fixed structure
- * Without locking spring
- * Less light loss & cost



1. COB for Tunable White function
2. CD/TM 14-18 solderless connector
3. Reflector with extension neck
4. Require front trim to hold the reflector

- * Cable: Solid wire 22-20 AWG (0.32-0.50mm²), Tinned wire 22-20 AWG (solder dipped)
- * Material for connector : PBT
- * Rating : 3A 60V DC
- * Thinner design for less light loss and slim structure
- * With Integrated aluminum reflectors with locking devices
- * Fixing Screws : 3xM3/ 2xM3
- * Rated Temperature: 105°C

Solderless Two Channels COB Connector (Four Wires)

For Luminus Tunable White & Locking System



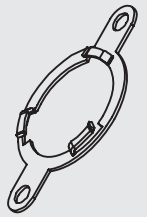
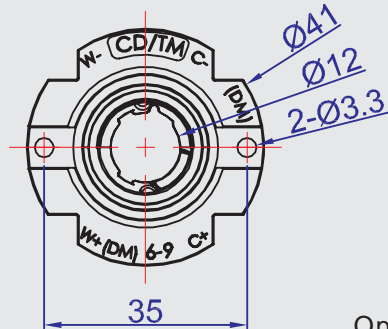
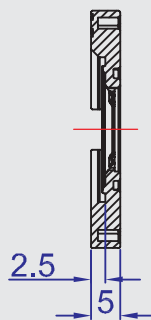
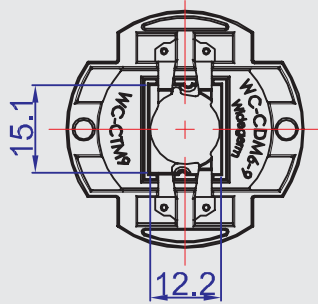
GoldiLED



CD/TM 6-9 Luminus Tunable White LES:9mm Max:10W



*CDM-6/CDM-9/CTM-9

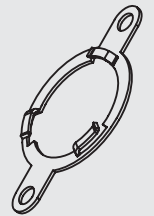
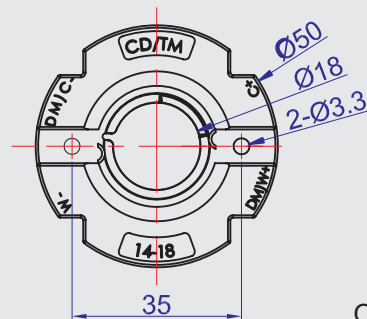
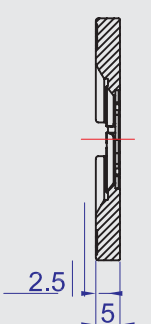
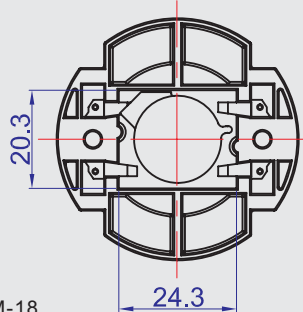


Optional Device

CD/TM 14-18 Luminus Tunable White LES:9mm Max:20W



*CDM-14/CDM-18/CTM-14/CTM-18

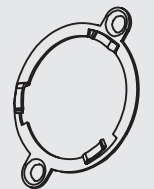
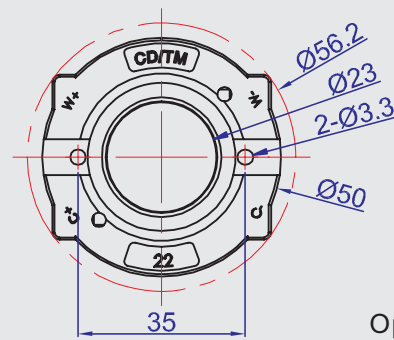
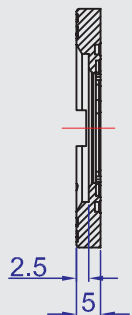
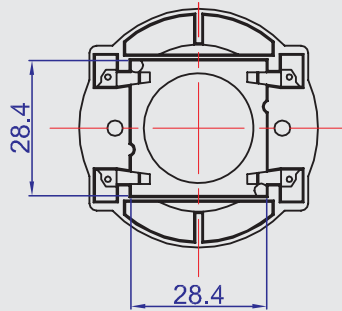


Optional Device

CD/TM 22 Luminus Tunable White LES:22mm Max:30W



*CTM-22



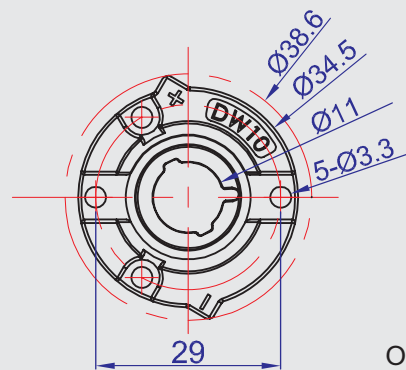
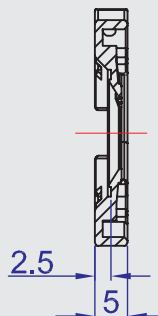
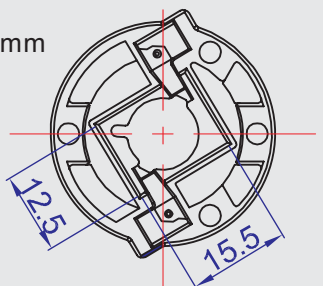
Optional Device

SHARP DW10 Sharp & Edison Warm Dimming(Two Wires)

Edison
LES:10mm



*Dimming Series



Optional Device

Solderless Two Channels Module & COB Connector (Four Wires)

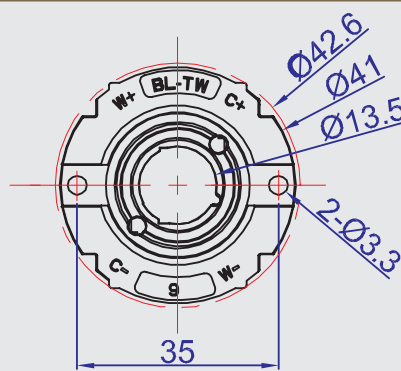
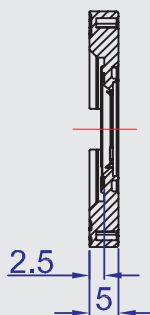
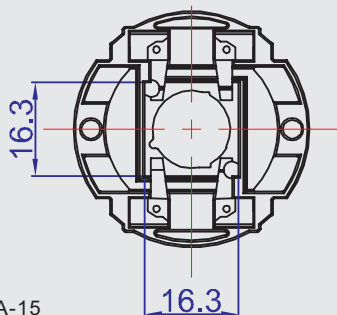
For Bridgelux and Citizen Tunable With Module



BL-TW 9 Bridgelux Tunable White LES:9mm



*BXR-TR-2750G-10A0-A-15

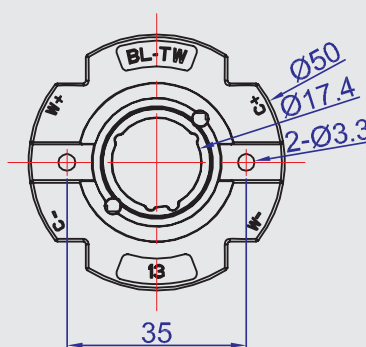
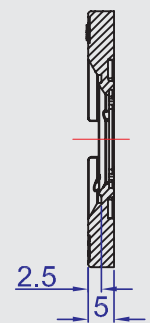
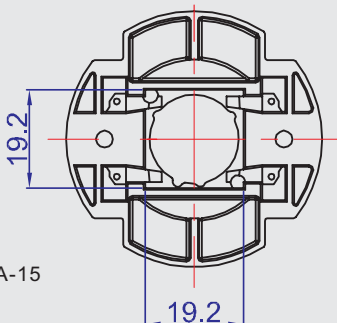


Optional Device

BL-TW 13 Bridgelux Tunable White LES:13mm

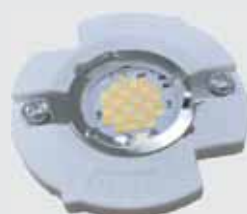


*BXR-TR-2750G-20A0-A-15
*ZG6CGCxxZ0S
ZG6CGDxxZ0S

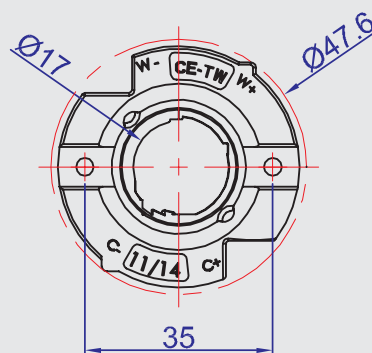
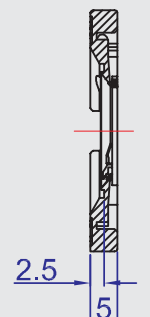
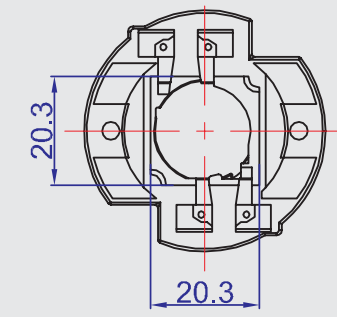


Optional Device

CE-TW 11/14 Citizen Tunable White LES:14mm



*LCN-C01/LCN-C02

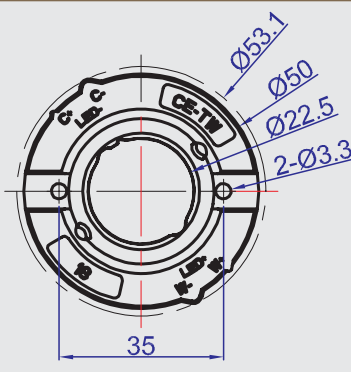
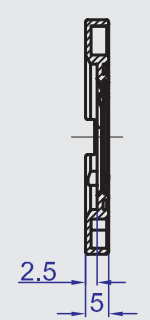
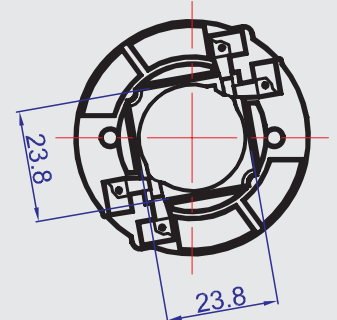


Optional Device

CE-TW 18 Citizen Tunable White LES:18mm



*LCN-C03



Optional Device

New Factory Removal & Tour

2019 has been exciting but also hard year for lighting industry due to global economical and political difficulties. However, Widegerm still invest facilities for new product ranges and moved to a new production base in beautiful Town "Hongmei", Dongguan China. Three storey building clearly divided with different departments as first floor for metal production, second floor for testing and assembly and third floor for showroom and main office. You are most welcome to visit us.

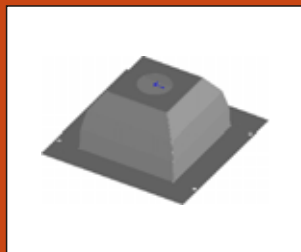


Beyond 60 years
with a Hong Kong Lighting Legend
超越六十年 一個香港燈飾的傳奇

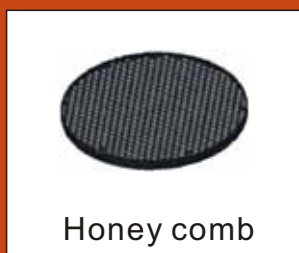


The Opening Ceremony with Our VIP & Good Partners

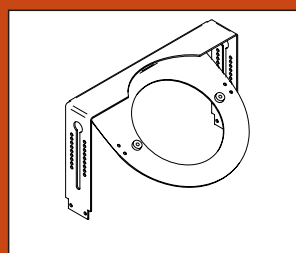




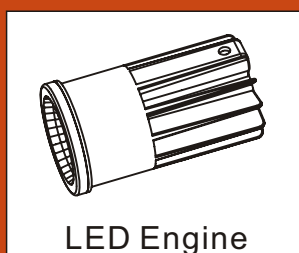
Solderless
COB Connectors



Honey comb



Die Casting



LED Engine



Heatsink

Widegerm Lighting Limited

匯湛照明有限公司

Hong Kong Office:

Flat A, 3/F., Tak Wing Ind. Building, 3 Tsun Wen Rd., Tuen Mun, N.T., Hong Kong

China Factory:

Building 1, GuanShu Science and Technology Park, Wang Sha Road, Hong Mei Town, DongGuan, China

Tel: (+852) 23679268 WhatsApp: (+852) 98370831

E-mail: info@widegerm.com.hk

Web: <http://www.widegerm.com.hk>

Facebook: <http://www.facebook.com/widegerm>