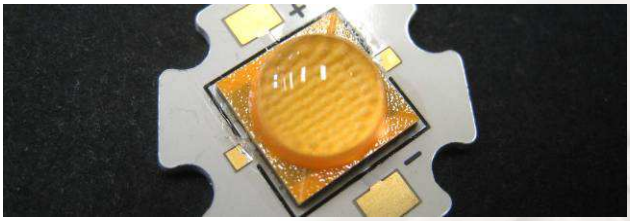
32 mm : LLC05N, LLC05M, LLC15M, LLC05W, LLC15W
35 mm : LLC17N

DATASHEET

Secondary optics suitable with

MT-G2



LednLight, a high performance LED collimator series, for all your high power LEDs lighting applications

Benefits of the LednLight product range:

- Innovative and unique design, which allows you to use most existing LEDs references
- Homogeneous light distribution, resulting from software optimization and quality polymer
- Available with mechanical holders and adhesive option for ease of use and production
- Ready to use and easy integration into a cluster part.

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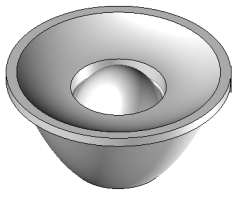
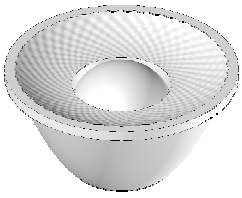
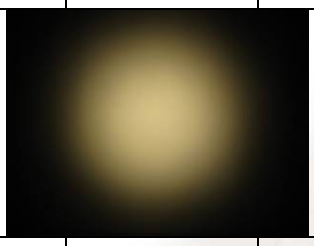
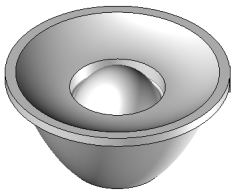
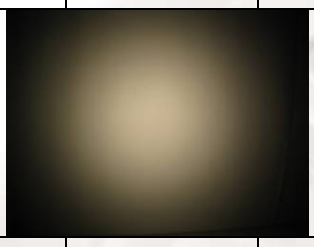
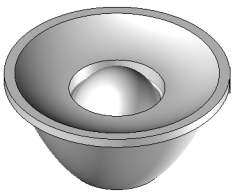
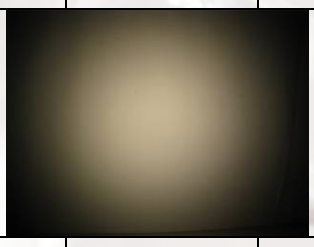
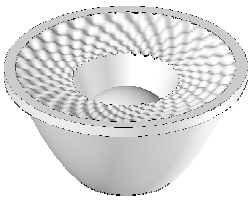
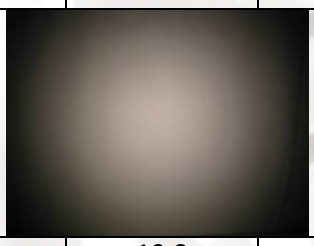
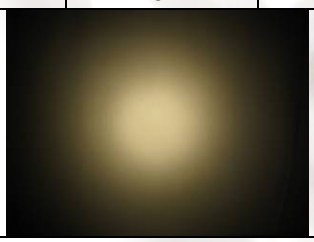
LednLight 32& 35mm suitable with CREE MT-G2

 LLC05N	CREE MT-G2	12.8	19.4	4.3	Mono Use M3 screw
					
 LLC15M	CREE MT-G2	12.0	20.3	4.4	
					
 LLC05M	CREE MT-G2	13.5	26.1	2.7	
					
 LLC05W	CREE MT-G2	15.2	27.4	2.4	
					
 LLC15W	CREE MT-G2	16.8	30.7	1.9	
					
 LLC17N	CREE MT-G2	10.2	22.7	4.4	no
					

Angle Tolerance +/-8% // Values are subject to change without prior notice.

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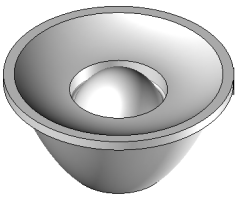
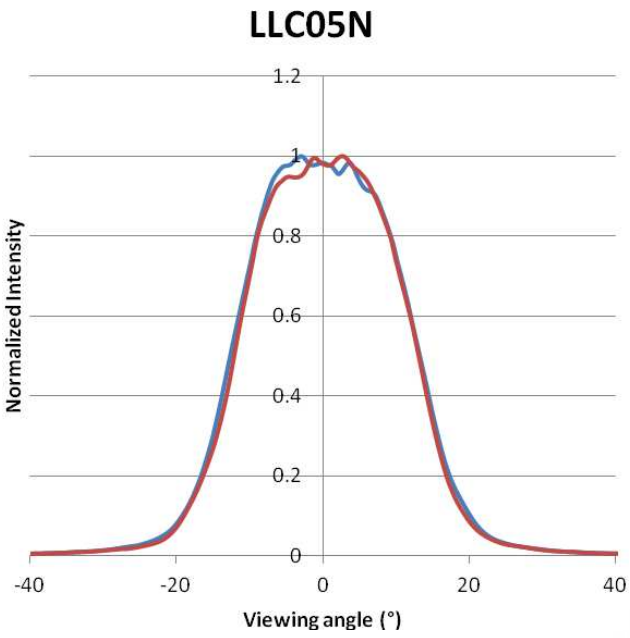
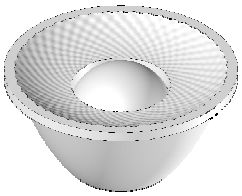


Optical characteristics and intensity distribution
Collimator LLC05N - CREE MT-G2

Measurements done with
Ledgon 100 photogoniometer

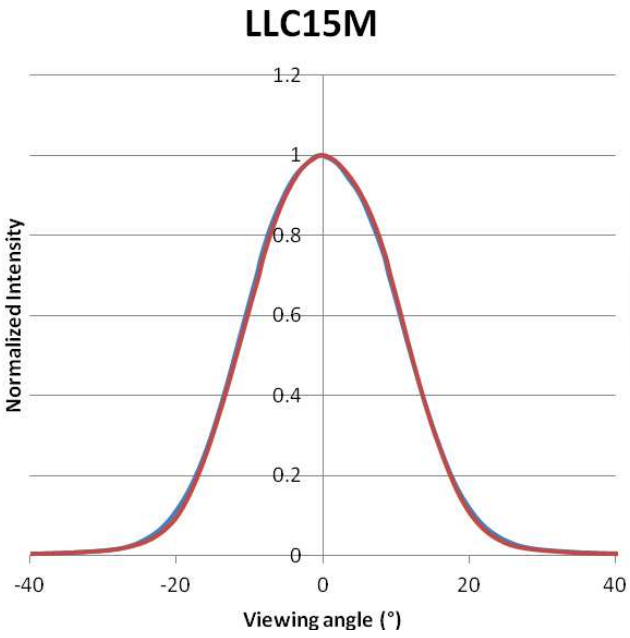


- **CREE MT-G2** @350 mA
- Narrow circular beam
- Efficiency in candelas per lumen : 4.3 cd/lm
- Half-angle at 50% from maximum 12.8°
- Half-angle at 10% from maximum 19.4°
- Available with dedicated holder (LLH02AAB00) fastening using M3 screws



Optical characteristics and intensity distribution
Collimator LLC15M - CREE MT-G2

Measurements done with
Ledgon 100 photogoniometer



- **CREE MT-G2** @350 mA
- Medium circular beam
- Efficiency in candelas per lumen :4.4 cd/lm
- Half-angle at 50% from maximum 12.0°
- Half-angle at 10% from maximum 20.3°
- Available with dedicated holder (LLH02AAB00) fastening using M3 screws.

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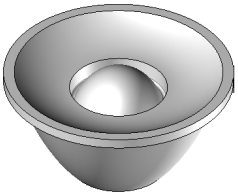
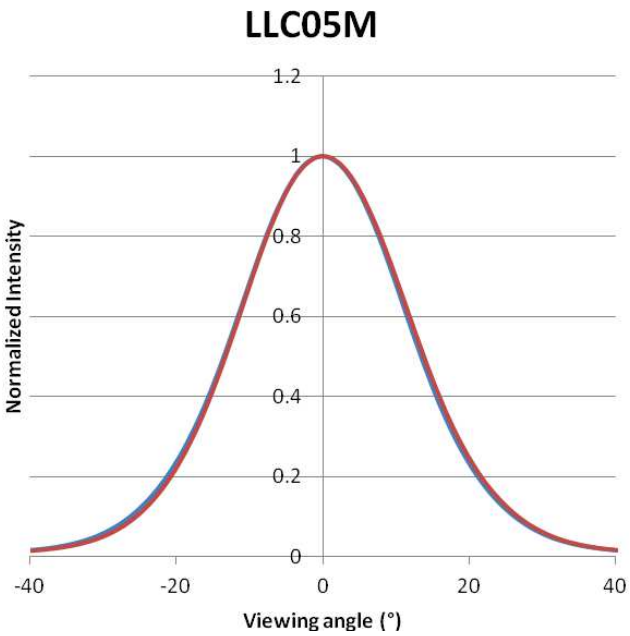
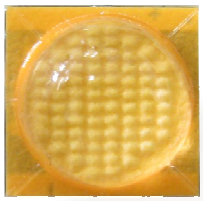


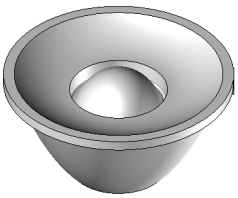
Optical characteristics and intensity distribution
Collimator LLC05M - CREE MT-G2

Measurements done with
Ledgon 100 photogoniometer



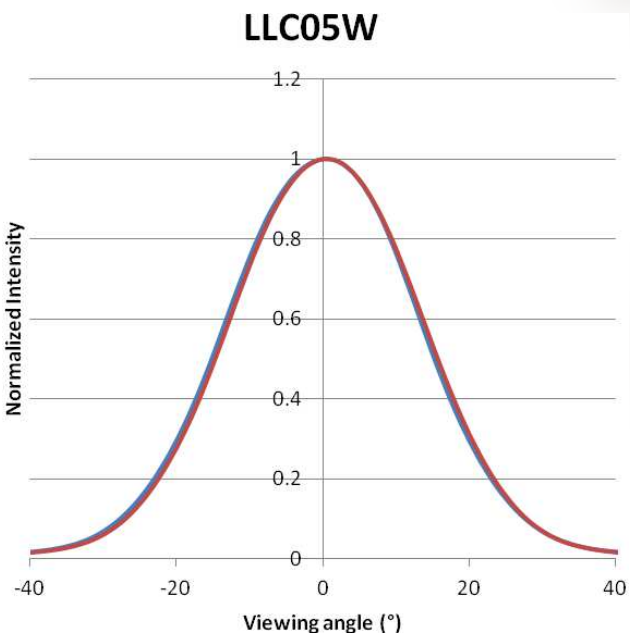


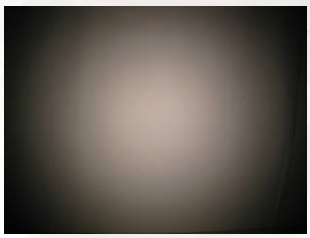
- **CREE MT-G2** @350 mA
- Medium circular beam
- Efficiency in candelas per lumen : 2.7 cd/lm
- Half-angle at 50% from maximum 13.5°
- Half-angle at 10% from maximum 26.1°
- Available with dedicated holder (LLH02AAB00) fastening using M3 screws

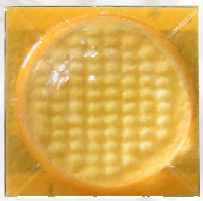


Optical characteristics and intensity distribution
Collimator LLC05W - CREE MT-G2

Measurements done with
Ledgon 100 photogoniometer







- **CREE MT-G2** @350 mA
- Wide circular beam
- Efficiency in candelas per lumen :2.4 cd/lm
- Half-angle at 50% from maximum 15.2°
- Half-angle at 10% from maximum 27.4°
- Available with dedicated holder (LLH02AAB00) fastening using M3 screws.

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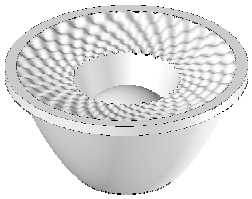
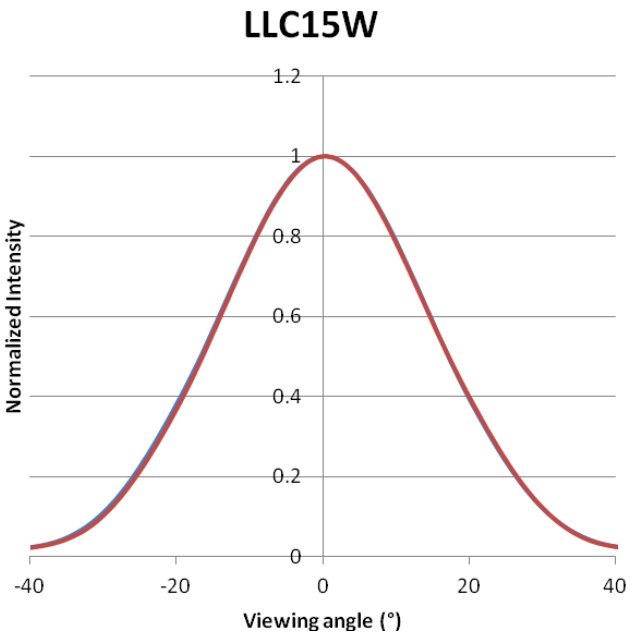


Optical characteristics and intensity distribution
Collimator LLC15W - CREE MT-G2

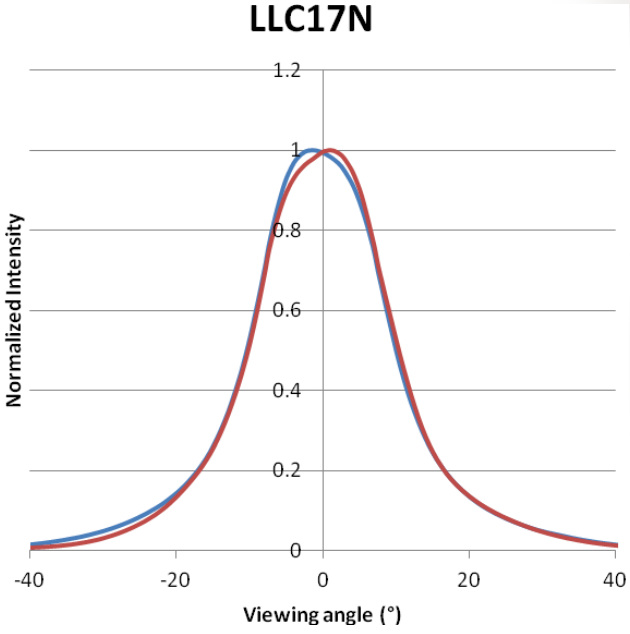
Measurements done with
Ledgon 100 photogoniometer



- **CREE MT-G2** @350 mA
- Medium circular beam
- Efficiency in candelas per lumen : 1.9 cd/lm
- Half-angle at 50% from maximum 16.8°
- Half-angle at 10% from maximum 30.7°
- Available with dedicated holder (LLH02AAB00) fastening using M3 screws

Optical characteristics and intensity distribution
Collimator LLC17N - CREE MT-G2

Measurements done with
Ledgon 100 photogoniometer



- **CREE MT-G2** @350 mA
- Super Narrow circular beam
- Efficiency in candelas per lumen : 4.4 cd/lm
- Half-angle at 50% from maximum 10.2°
- Half-angle at 10% from maximum 22.7°

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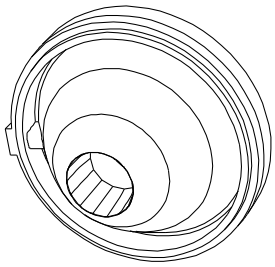
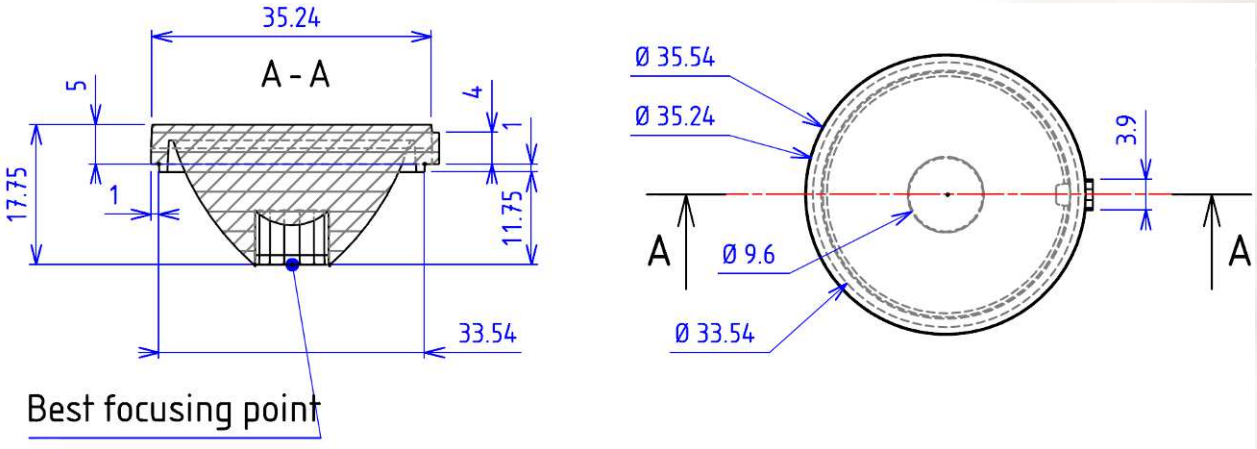
Mechanical characteristics LLC17N without holder, dimensions are in millimeters

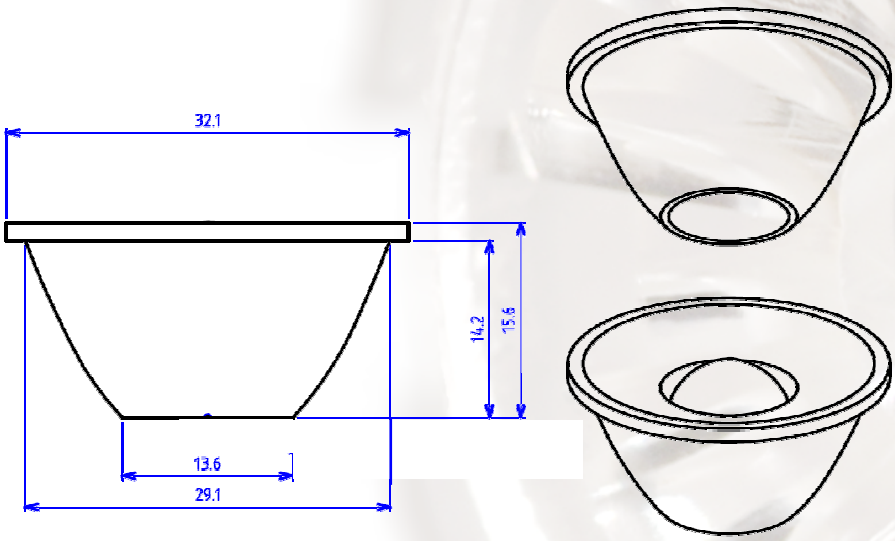
General tolerance +/-0.15 mm (standard NF T 58 -000 cat. 4, reduced class)





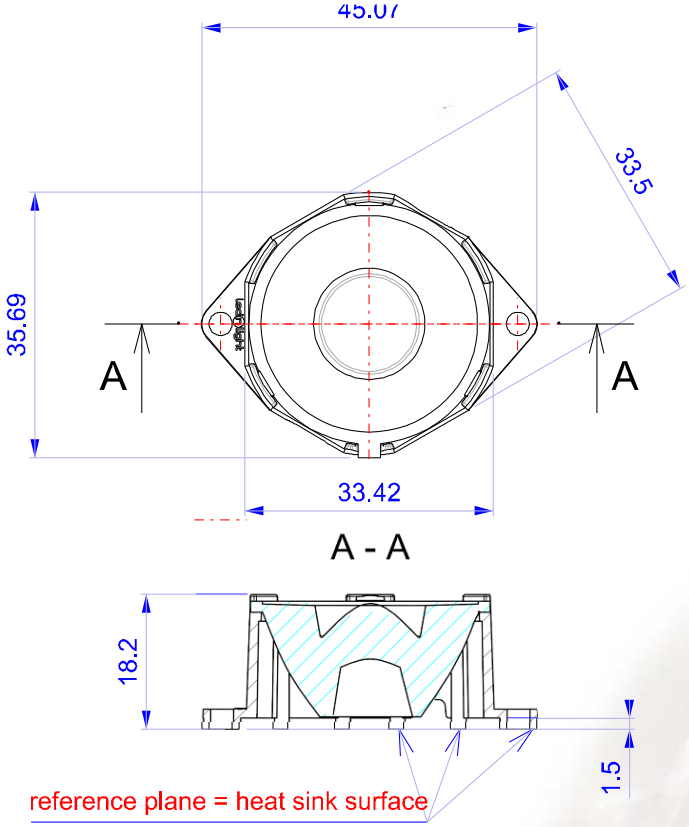
Mechanical characteristics LLC05x

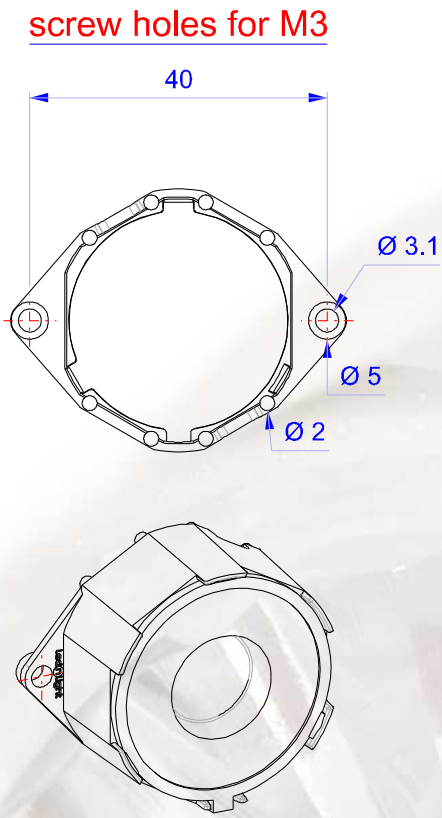
Without holder, *dimension in millimetres General tolerance +/-0.15 mm (standard NF T 58 -000 cat. 4, reduced class)*



Mechanical characteristics LLH02AAB

dimension in millimetres General tolerance +/-0.15 mm (standard NF T 58 -000 cat. 4, reduced class)





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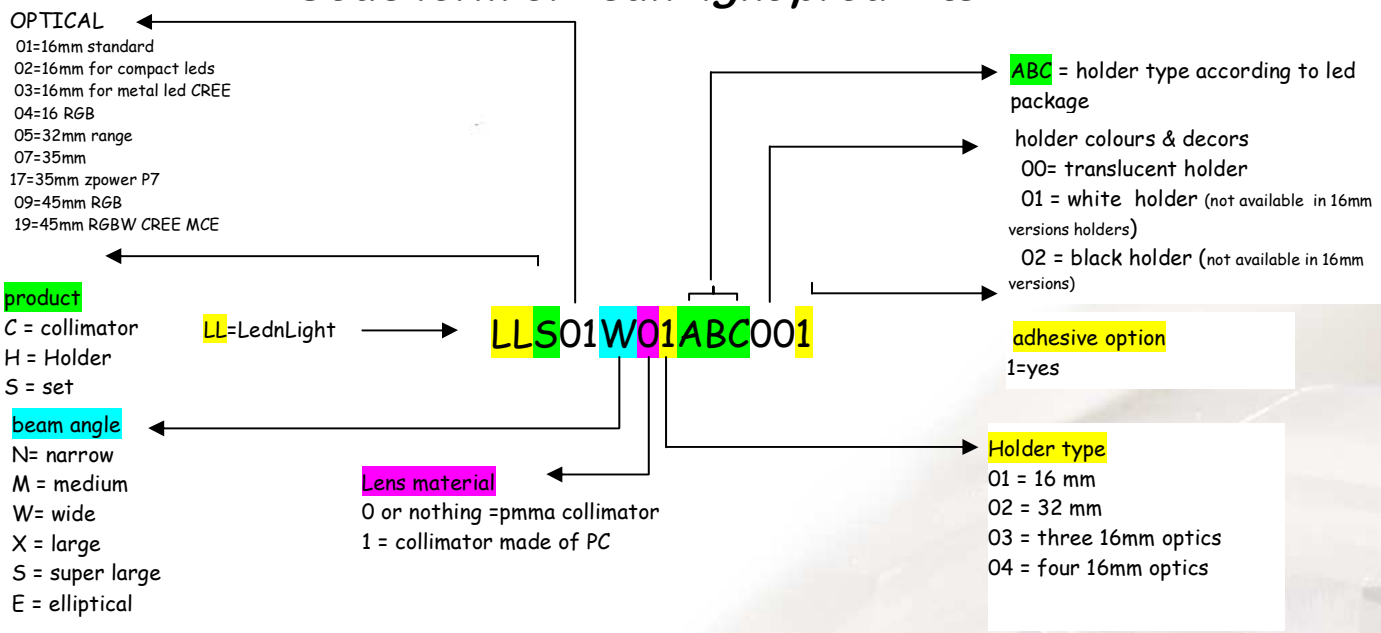
Code form of LednLight products



Ordering code for LednLight series suitable with CREE MT-G2

32 & 35 mm range

Collimateur / Holder	Ø 32mm – Medium	Ø 32mm – Medium	Ø 32mm – Medium	Ø 32mm – Wide	Ø 32mm – wide	Ø 35mm – narrow
No holder	LLC05N	LLC15M	LLC05M	LLC05W	LLC15W	LLC17N
(1) LLH02AAB00 Ø 32mm	LLS05N02AAB00	LLS15M02AAB00	LLS05M02AAB00	LLS05W02AAB00	LLS05M02AAB00	

(1)
Holder reference can be adapted depending of PCB height

See available holders using screw
http://www.lednlight.com/downloads_lnl/LLH02AAx.pdf

SET=COLLIMATOR+HOLDER

FAQ

Q – Of what material are Lednlight collimators made of ? Where are they manufactured ?
A – Lednlight collimators are made of a high purity grade PMMA, which guarantees a maximum luminous efficiency. Holders are made of PC. All our products are Made in France.

Q – What is Lednlight collimators luminous efficiency?
A – Luminous efficiency depends on the collimator itself and on the LED. It is between 85% and 93%.

Q – I would like to use a specific LED which is not mentioned in this datasheet. Is it possible?
A – LednLight collimators have a versatile design that can work with most LEDs references, allowing the user to choose the LED that best fits his needs. If your LED isn't mentioned in this datasheet, you can contact our engineering team which will give you more information.

Q – How can we position the LED compared to the collimator?
A – Mechanical drawings in pages 6~7 indicate the exact location of the focal point for each LednLight collimator. All you have to do is to put the LED chip at the focal point location.

Q – Can you provide CAD files of LednLight collimators?
A – The optical design is confidential, however CAD files of holder are available. You can upload them on our website. IES files and ray sets are also available on request.

Q – My project is very specific and custom. Lednlight collimator performances do not fit completely to my technical requirements.
A – Our engineers can design a custom version of the Lednlight collimators just for you, that will best fit your technical requirements, and at a very competitive price. Please do not hesitate to contact us to discuss your specifications.

Q – I would like to ask you a question which is not in the FAQ. How can I contact you?
A – Please visit our website : http://www.gaggione.com or contact us by phone :
+33 (0) 4 74 76 12 66 or by email : lednlight@gaggione.com