



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



LENINA-W

~55° wide beam

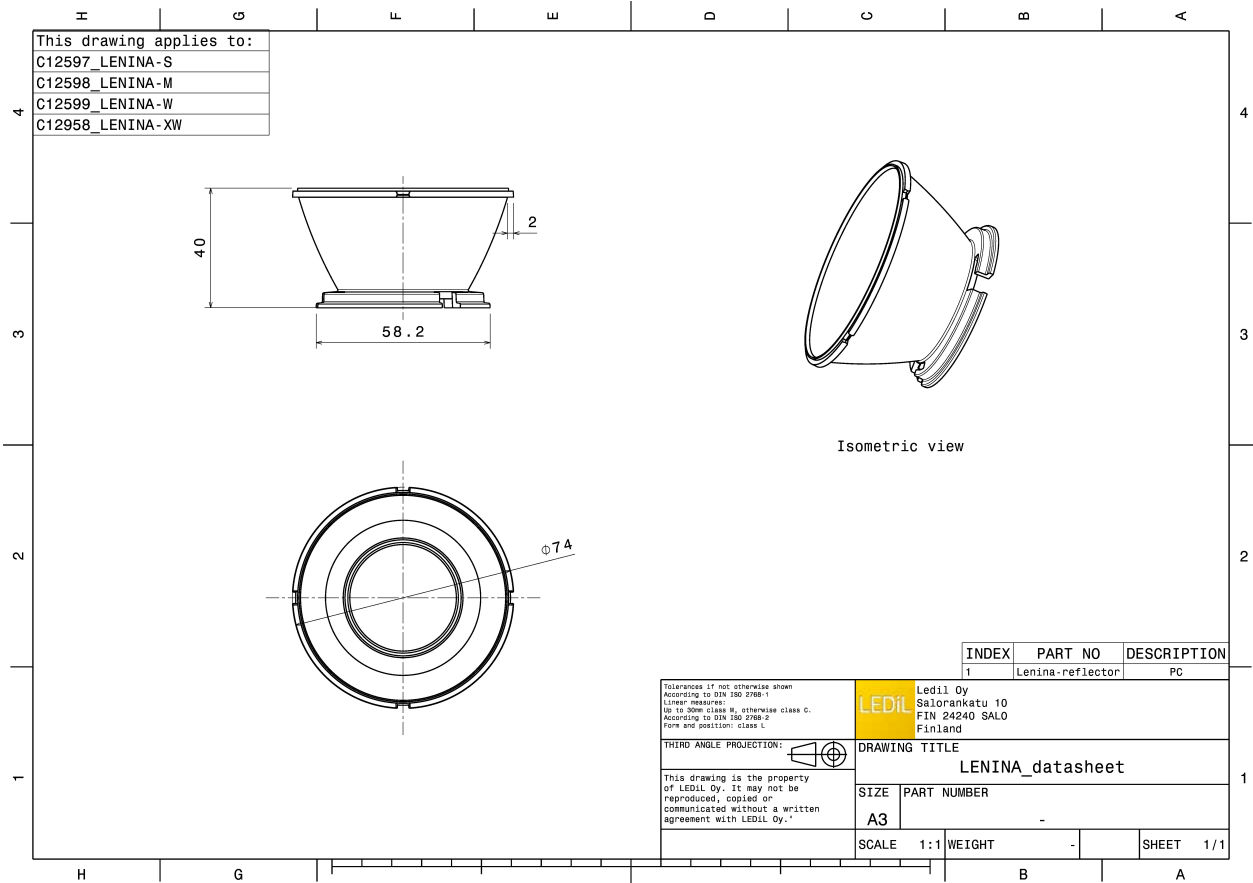
TECHNICAL SPECIFICATIONS:

Dimensions	Ø 74.0 mm
Height	40 mm
Fastening	socket
Colour	metal
Box size	476 x 273 x 197 mm
Box weight	2 kg
Quantity in Box	60 pcs
ROHS compliant	yes ⓘ


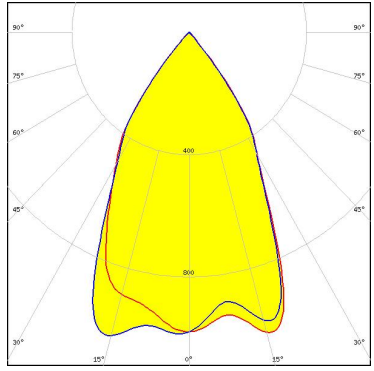
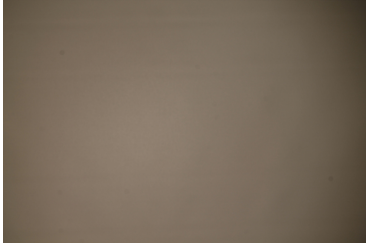
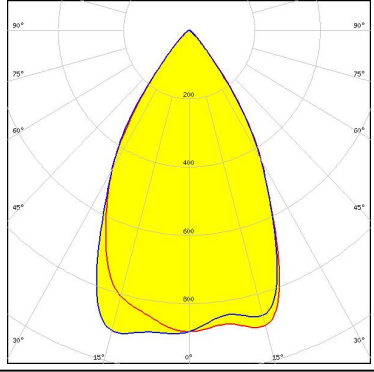

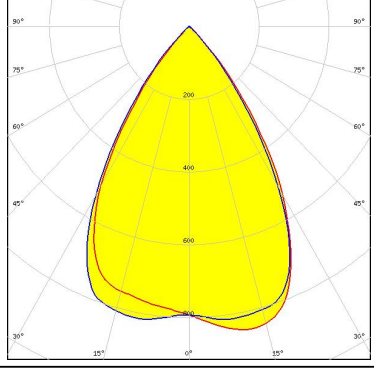

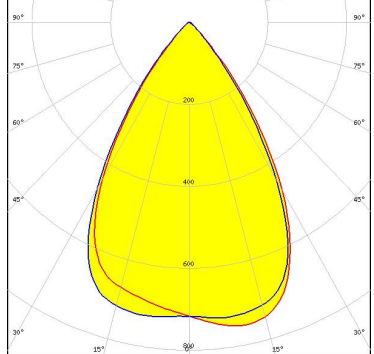


MATERIAL SPECIFICATIONS:


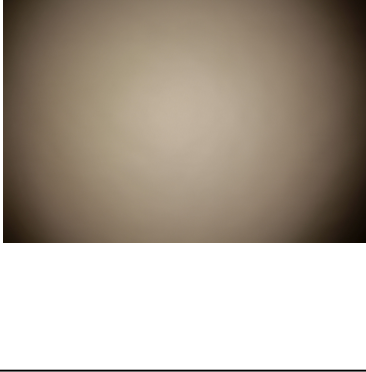
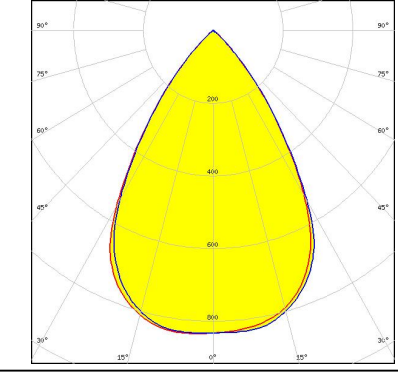
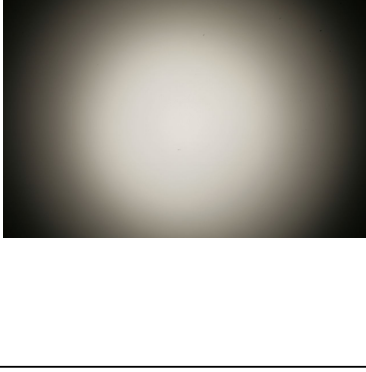
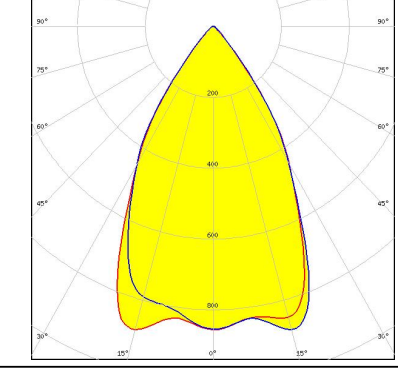
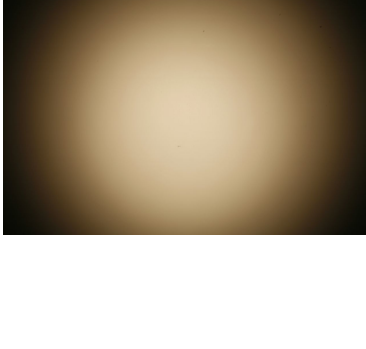
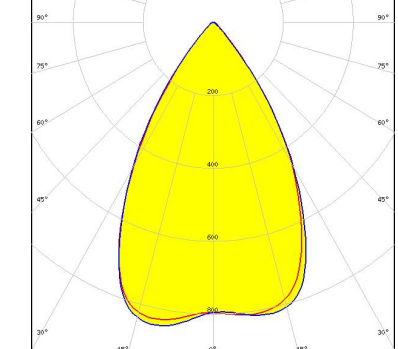
Component	Type	Material	Colour	Coating
LENINA-W	Reflector	PC	metal	lacquer



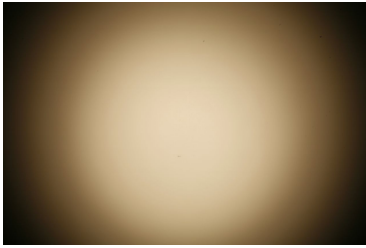
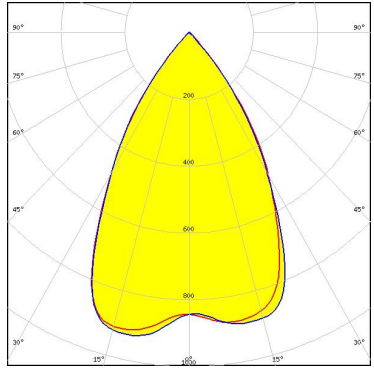
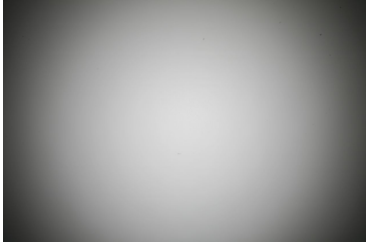
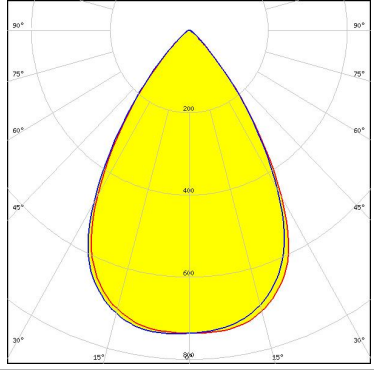
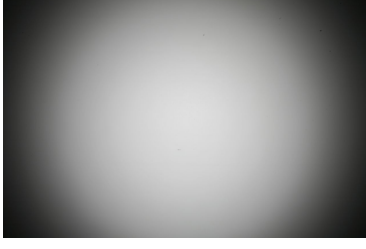
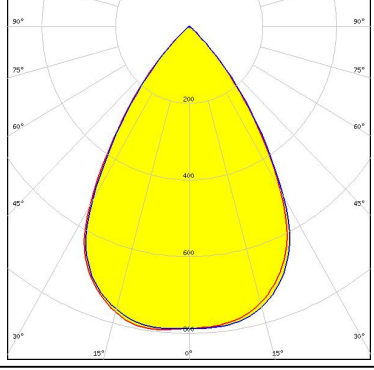
PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED BXRA ES Rectangle</p> <p>FWHM 58.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 1.100 cd/lm</p> <p>Required components: C12153_LENINA-STD-BASE-BXRA</p>		
<p>bridgelux.</p> <p>LED BXRA ES Rectangle</p> <p>FWHM 60.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 0.920 cd/lm</p> <p>Required components: C12153_LENINA-STD-BASE-BXRA C12606_LENINA-DL</p>		
<p>bridgelux.</p> <p>LED BXRA RS</p> <p>FWHM 64.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 0.888 cd/lm</p> <p>Required components: C12229_LENINA-STD-BASE-RS</p>		
<p>bridgelux.</p> <p>LED BXRA RS</p> <p>FWHM 60.0°</p> <p>Efficiency 80 %</p> <p>Peak intensity 0.816 cd/lm</p> <p>Required components: C12229_LENINA-STD-BASE-RS C12606_LENINA-DL</p>		

PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED V10 Gen6</p> <p>FWHM 47.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 1.300 cd/lm</p> <p>Required components:</p> <p>C13186_LENINA-STD-BASE-CXA15</p> <p>C12606_LENINA-DL</p>		
<p>bridgelux.</p> <p>LED Vero SE 29</p> <p>FWHM 66.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 0.840 cd/lm</p> <p>Required components:</p> <p>C15083_LENINA-STD-BASE-VERO29</p>		
<p>bridgelux.</p> <p>LED VERO13</p> <p>FWHM 60.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 0.890 cd/lm</p> <p>Required components:</p> <p>C13868_LENINA-STD-BASE-VERO13-18</p> <p>C12606_LENINA-DL</p>		
<p>bridgelux.</p> <p>LED VERO18</p> <p>FWHM 64.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 0.850 cd/lm</p> <p>Required components:</p> <p>C13868_LENINA-STD-BASE-VERO13-18</p> <p>C12606_LENINA-DL</p>		

PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED VERO18</p> <p>FWHM 64.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 0.930 cd/lm</p> <p>Required components: C13868_LENINA-STD-BASE-VERO13-18</p>		
<p>bridgelux.</p> <p>LED VERO29</p> <p>FWHM 67.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 0.740 cd/lm</p> <p>Required components: C13867_LENINA-STD-BASE-VERO29 C12606_LENINA-DL</p>		
<p>bridgelux.</p> <p>LED VERO29</p> <p>FWHM 67.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 0.800 cd/lm</p> <p>Required components: C13867_LENINA-STD-BASE-VERO29</p>		
<h3>CITIZEN</h3> <p>LED CL-L340</p> <p>FWHM 48.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity cd/lm</p> <p>Required components: C11995_LENINA-STD-BASE-CL340</p>		

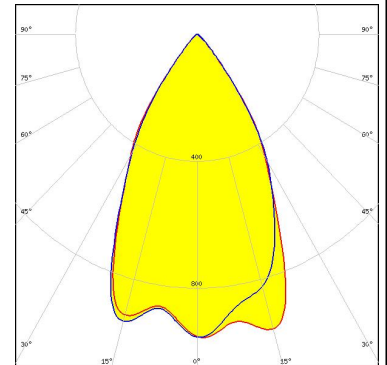
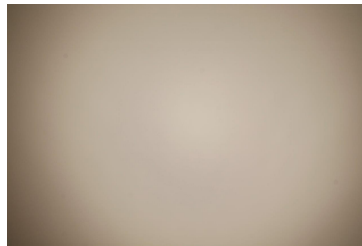
PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED CL-L340
FWHM 50.0°
Efficiency 78 %
Peak intensity 0.000 cd/lm
Required components:
C11995_LENINA-STD-BASE-CL340
C12606_LENINA-DL

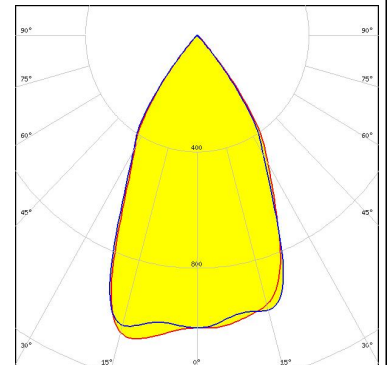
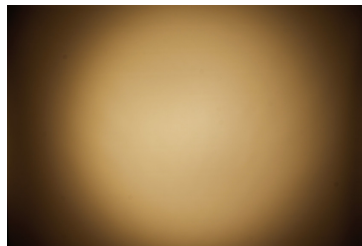
CITIZEN

LED CLL02x/CLU02x (LES10)
FWHM 57.0°
Efficiency 86 %
Peak intensity 0.980 cd/lm
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 434 Typ L1



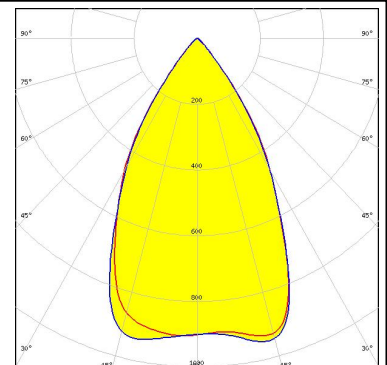
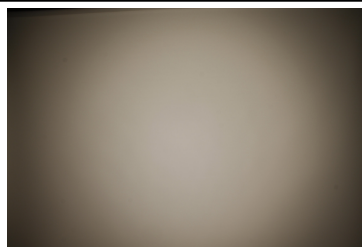
CITIZEN

LED CLL03x/CLU03x
FWHM 56.0°
Efficiency 90 %
Peak intensity 1.100 cd/lm
Required components:
C12691_LENINA-STD-BASE-CLL030



CITIZEN

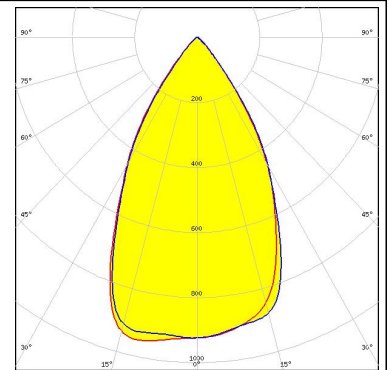
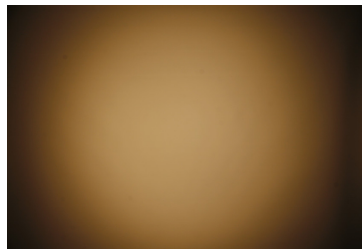
LED CLL03x/CLU03x
FWHM 60.0°
Efficiency 86 %
Peak intensity 0.950 cd/lm
Required components:
C13868_LENINA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 433 Typ L1



PHOTOMETRIC DATA (MEASURED):

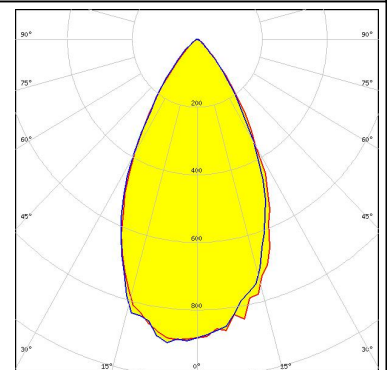
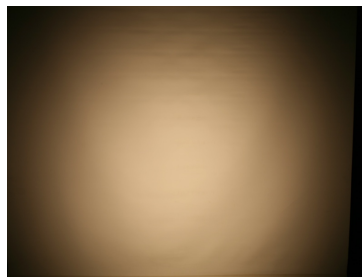
CITIZEN

LED CLL03x/CLU03x
 FWHM 58.0°
 Efficiency 86 %
 Peak intensity 0.950 cd/lm
 Required components:
 C12691_LENINA-STD-BASE-CLL030
 C12606_LENINA-DL



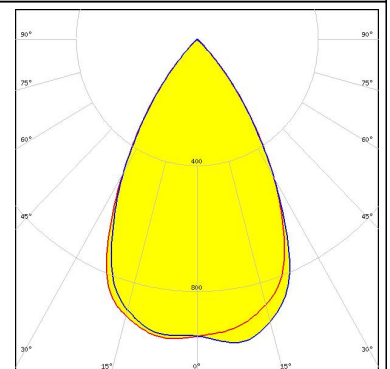
CITIZEN

LED CLL04x/CLU04x
 FWHM 56.0°
 Efficiency 76 %
 Peak intensity 0.900 cd/lm
 Required components:
 C12692_LENINA-STD-BASE-CLL040
 C12606_LENINA-DL



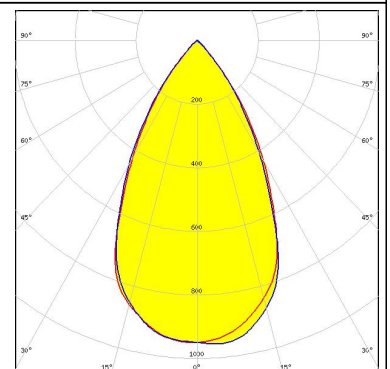
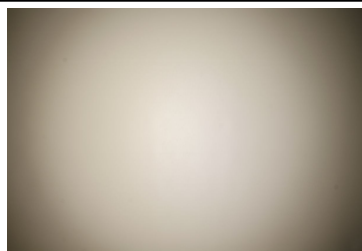
CITIZEN

LED CLL04x/CLU04x
 FWHM 61.0°
 Efficiency 91 %
 Peak intensity 0.970 cd/lm
 Required components:
 C13867_LENINA-STD-BASE-VERO29
 Bender Wirth: 431 Typ L3



CITIZEN

LED CLL04x/CLU04x
 FWHM 57.0°
 Efficiency 82 %
 Peak intensity 1.000 cd/lm
 Required components:
 A.A.G. STUCCHI: 8102/G2 + S-8000/12



PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED CLL04x/CLU04x

FWHM 58.0°

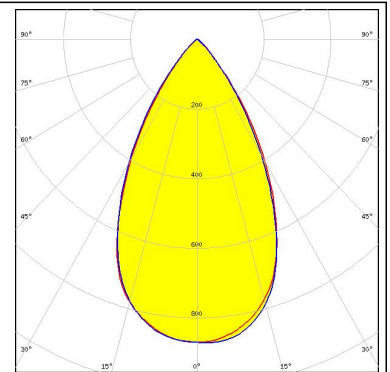
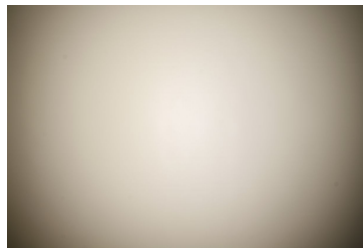
Efficiency 78 %

Peak intensity 0.900 cd/lm

Required components:

C12606_LENINA-DL

A.A.G. STUCCHI: 8102/G2 + S-8000/12



CITIZEN

LED CLL04x/CLU04x

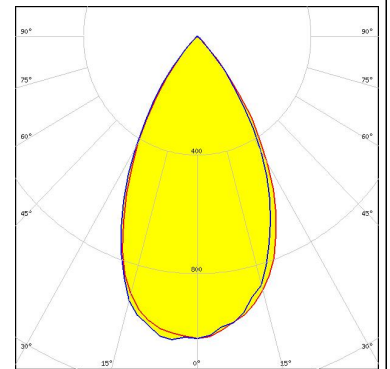
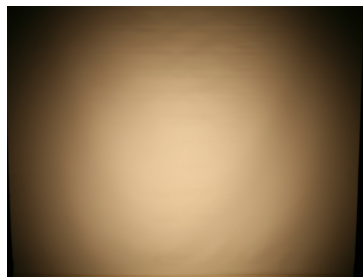
FWHM 59.0°

Efficiency 84 %

Peak intensity 1.000 cd/lm

Required components:

C12692_LENINA-STD-BASE-CLL040



CITIZEN

LED CLL04x/CLU04x

FWHM 61.0°

Efficiency 86 %

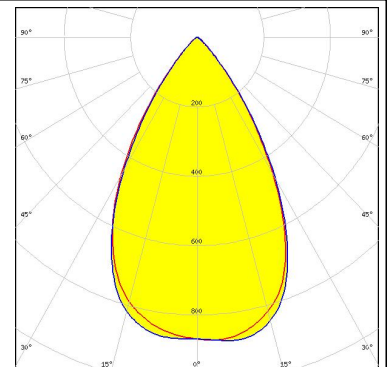
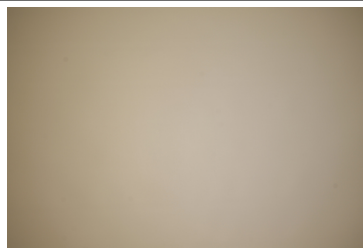
Peak intensity 0.880 cd/lm

Required components:

C13867_LENINA-STD-BASE-VERO29

C12606_LENINA-DL

Bender Wirth: 431 Typ L3



CITIZEN

LED CLL04x/CLU04x

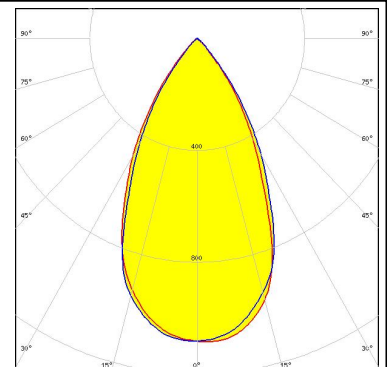
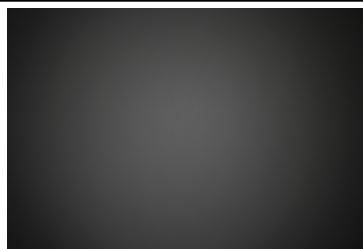
FWHM 54.0°

Efficiency 87 %

Peak intensity 1.100 cd/lm

Required components:

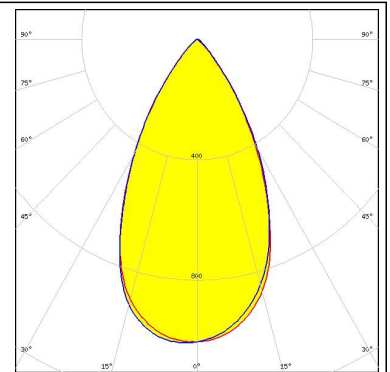
IDEAL: 50-2204CT + 50-2100LN



PHOTOMETRIC DATA (MEASURED):

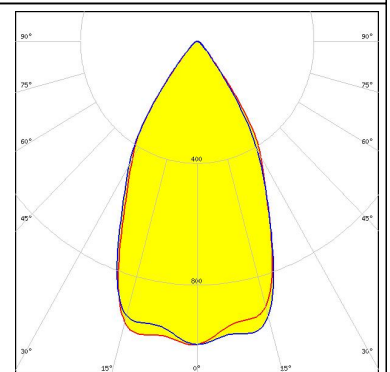
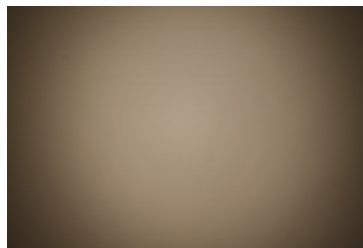
CITIZEN

LED CLL04x/CLU04x
FWHM 55.0°
Efficiency 86 %
Peak intensity 1.000 cd/lm
Required components:
C12606_LENINA-DL
IDEAL: 50-2204CT + 50-2100LN



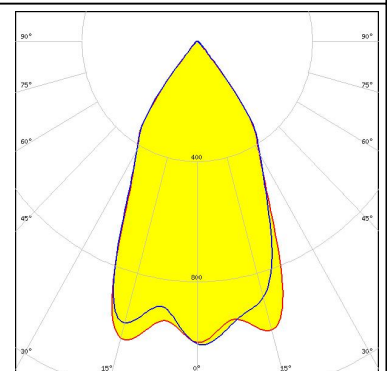
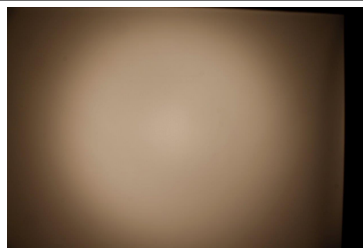
CITIZEN

LED CLU710/711
FWHM 55.0°
Efficiency 89 %
Peak intensity 1.000 cd/lm
Required components:
C12691_LENINA-STD-BASE-CLL030
C12606_LENINA-DL



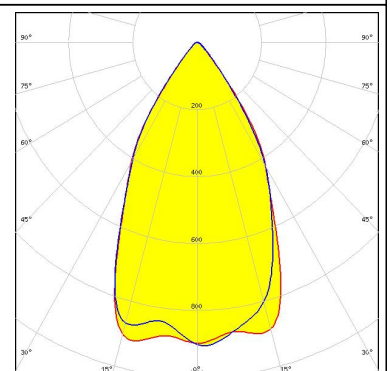
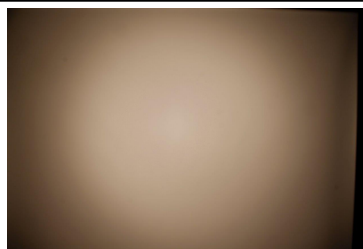
CITIZEN

LED CLU720/721
FWHM 54.0°
Efficiency 87 %
Peak intensity 1.000 cd/lm
Required components:
C12691_LENINA-STD-BASE-CLL030



CITIZEN

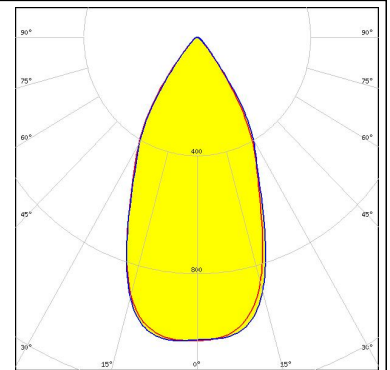
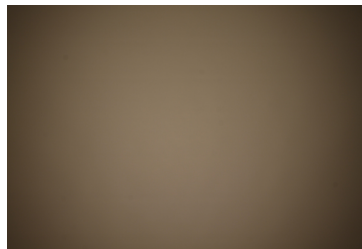
LED CLU720/721
FWHM 57.0°
Efficiency 83 %
Peak intensity 0.910 cd/lm
Required components:
C12691_LENINA-STD-BASE-CLL030
C12606_LENINA-DL



PHOTOMETRIC DATA (MEASURED):

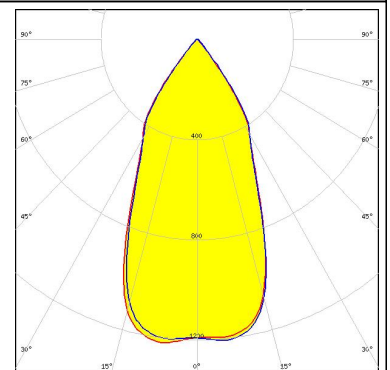
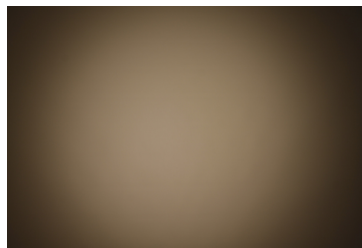
CITIZEN

LED CLU730/731
 FWHM 50.0°
 Efficiency 83 %
 Peak intensity 1.000 cd/lm
 Required components:
 C12692_LENINA-STD-BASE-CLL040
 C12606_LENINA-DL



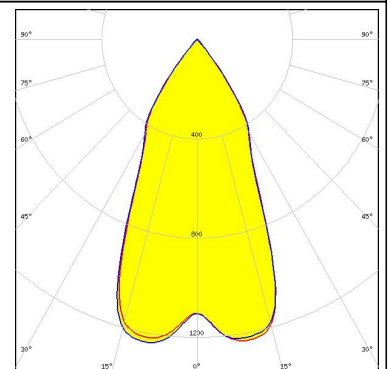
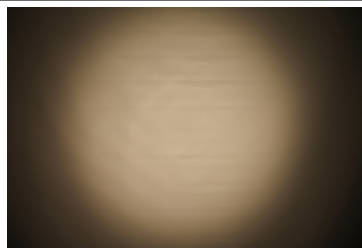
CITIZEN

LED CLU730/731
 FWHM 49.0°
 Efficiency 93 %
 Peak intensity 1.200 cd/lm
 Required components:
 C12692_LENINA-STD-BASE-CLL040



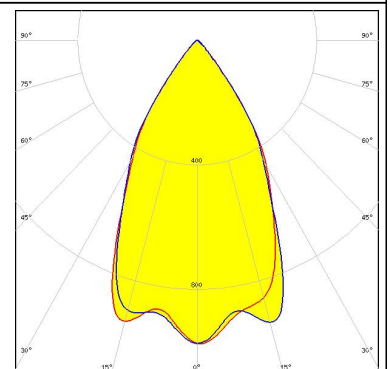
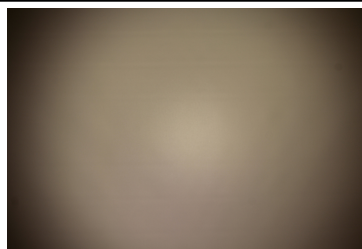
CREE

LED CMA1840
 FWHM 48.0°
 Efficiency 91 %
 Peak intensity 1.200 cd/lm
 Required components:
 C14146_LENINA-STD-BASE-CXA18



CREE

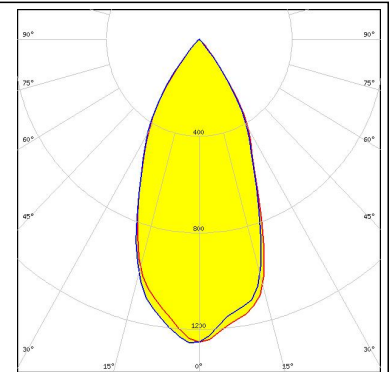
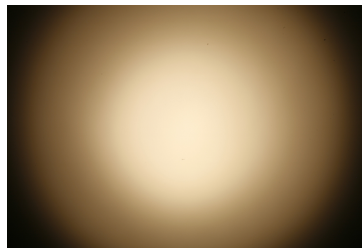
LED CXA/B 15xx
 FWHM 57.0°
 Efficiency 86 %
 Peak intensity 1.000 cd/lm
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 C12606_LENINA-DL
 Bender Wirth: 441 Typ L1



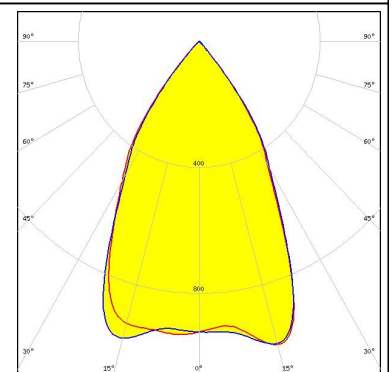
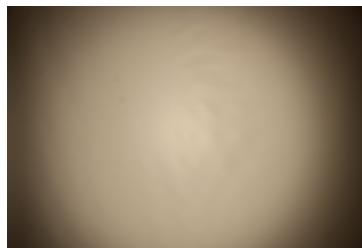
PHOTOMETRIC DATA (MEASURED):



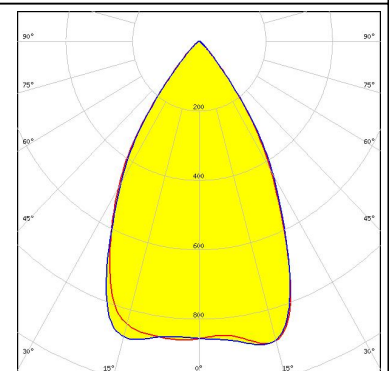
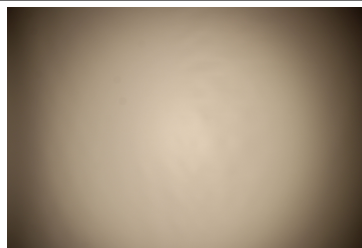
LED CXA/B 15xx
 FWHM 48.0°
 Efficiency 83 %
 Peak intensity 1.300 cd/lm
 Required components:
 C13186_LENINA-STD-BASE-CXA15
 C12606_LENINA-DL



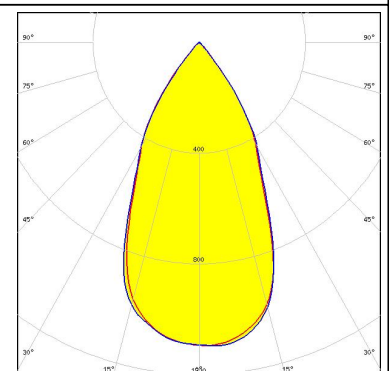
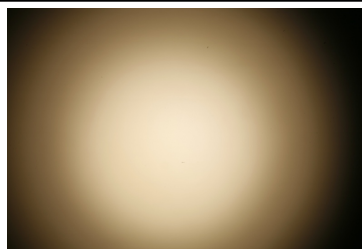
LED CXA/B 1830
 FWHM 60.0°
 Efficiency 91 %
 Peak intensity 1.000 cd/lm
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 Bender Wirth: 437 Typ L1



LED CXA/B 1830
 FWHM 61.0°
 Efficiency 86 %
 Peak intensity 0.900 cd/lm
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 C12606_LENINA-DL
 Bender Wirth: 437 Typ L1



LED CXA/B 25xx
 FWHM 51.0°
 Efficiency 84 %
 Peak intensity 1.200 cd/lm
 Required components:
 C13324_LENINA-STD-BASE-CXA25



PHOTOMETRIC DATA (MEASURED):

CREE 

LED CXA/B 25xx

FWHM 52.0°

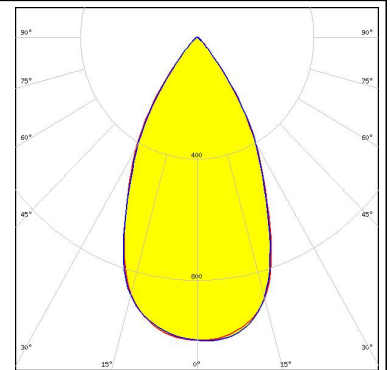
Efficiency 76 %

Peak intensity 1.100 cd/lm

Required components:

C13324_LENINA-STD-BASE-CXA25

C12606_LENINA-DL



CREE 

LED CXA2011

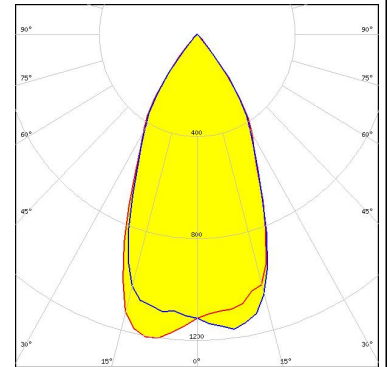
FWHM 50.0°

Efficiency 86 %

Peak intensity 1.200 cd/lm

Required components:

C12105_LENINA-STD-BASE-CXA20



CREE 

LED CXA2011

FWHM 52.0°

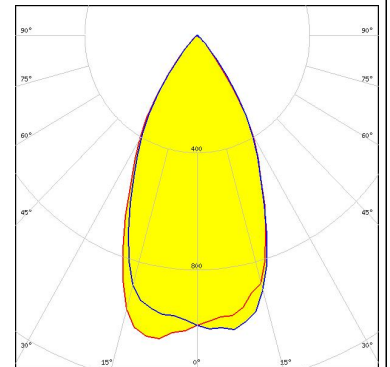
Efficiency 78 %

Peak intensity 1.000 cd/lm

Required components:

C12105_LENINA-STD-BASE-CXA20

C12606_LENINA-DL



EVERLIGHT

LED CHI3030 19W

FWHM 62.0°

Efficiency 90 %

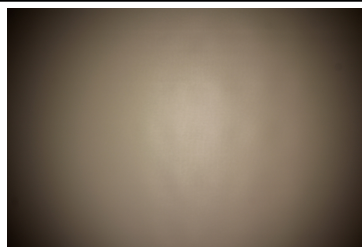
Peak intensity 0.900 cd/lm

Required components:

C13867_LENINA-STD-BASE-VERO29

C12606_LENINA-DL

Bender Wirth: 468 Typ L3



PHOTOMETRIC DATA (MEASURED):

EVERLIGHT

LED CHI3030 29W

FWHM 63.0°

Efficiency 86 %

Peak intensity 0.800 cd/lm

Required components:

C13867_LENINA-STD-BASE-VERO29

C12606_LENINA-DL

Bender Wirth: 468 Typ L3



LUMILEDS

LED LUXEON CoB 1204/1205

FWHM 57.0°

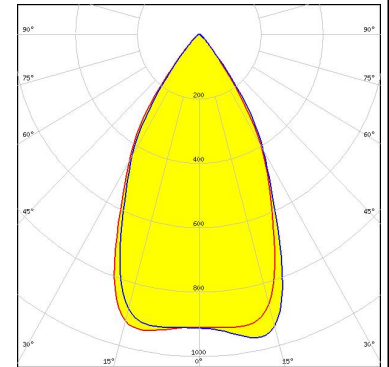
Efficiency 84 %

Peak intensity 1.000 cd/lm

Required components:

C12292_LENINA-STD-BASE-MEZ

C12606_LENINA-DL



LUMILEDS

LED LUXEON CoB 1204/1205

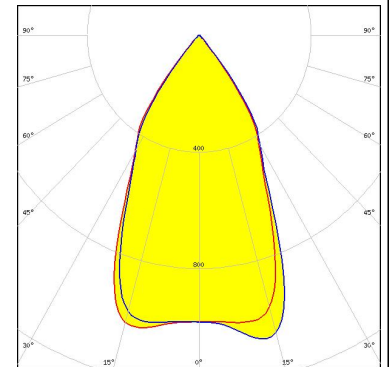
FWHM 55.0°

Efficiency 89 %

Peak intensity 1.100 cd/lm

Required components:

C12292_LENINA-STD-BASE-MEZ



LUMILEDS

LED LUXEON CoB 1205HD

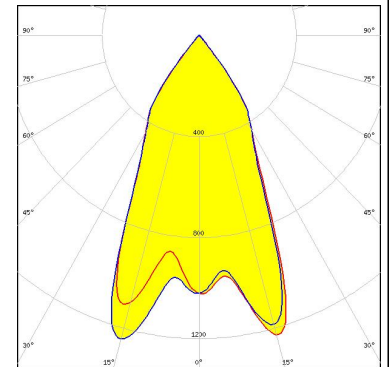
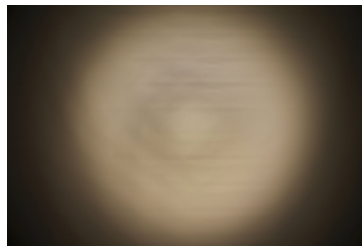
FWHM 54.0°

Efficiency 91 %

Peak intensity 1.255 cd/lm

Required components:

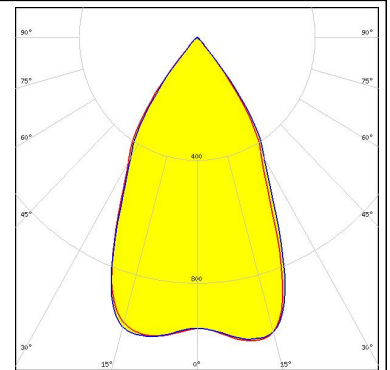
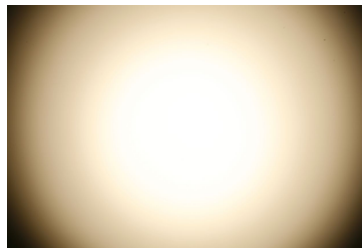
C11981_LENINA-STD-BASE-COB-L110



PHOTOMETRIC DATA (MEASURED):

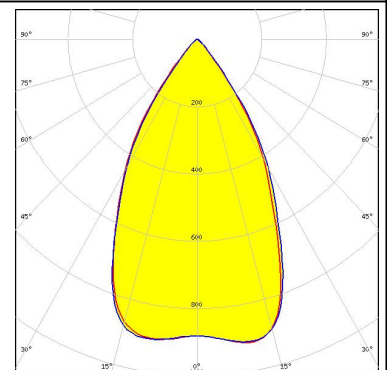
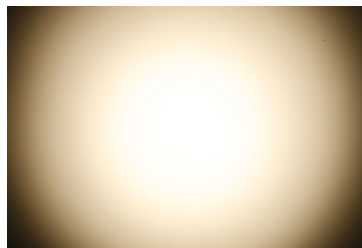
LUMILEDS

LED LUXEON CoB 1208
 FWHM 58.0°
 Efficiency 88 %
 Peak intensity 1.000 cd/lm
 Required components:
 C12292_LENINA-STD-BASE-MEZ



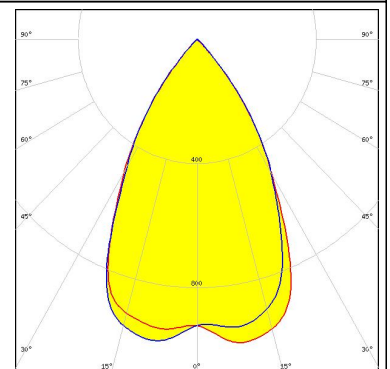
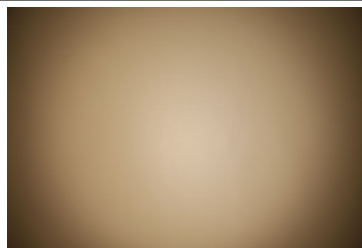
LUMILEDS

LED LUXEON CoB 1208
 FWHM 60.0°
 Efficiency 84 %
 Peak intensity 0.900 cd/lm
 Required components:
 C12292_LENINA-STD-BASE-MEZ
 C12606_LENINA-DL



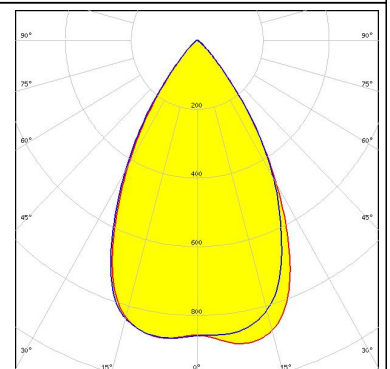
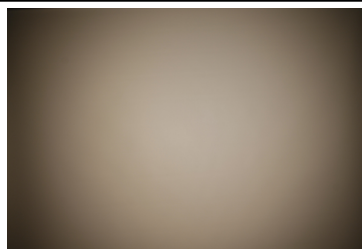
LUMILEDS

LED LUXEON CoB 1211
 FWHM 60.0°
 Efficiency 91 %
 Peak intensity 1.000 cd/lm
 Required components:
 C13867_LENINA-STD-BASE-VERO29
 Bender Wirth: 431 Typ L3

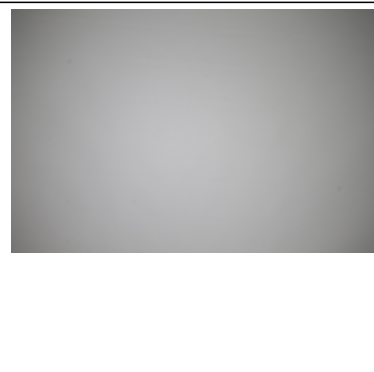
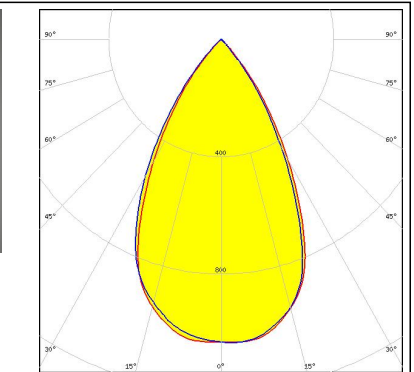
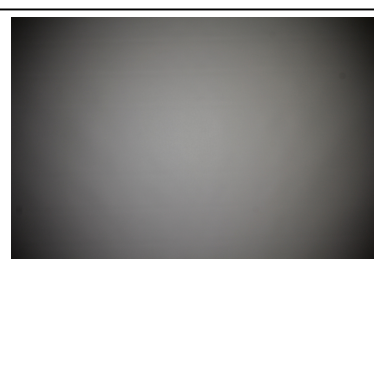
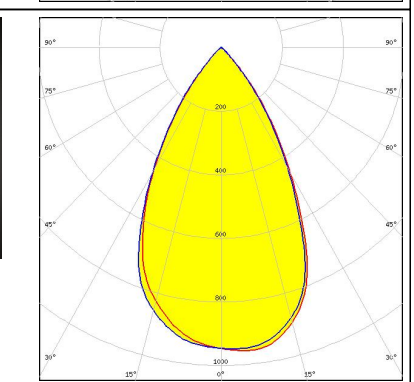
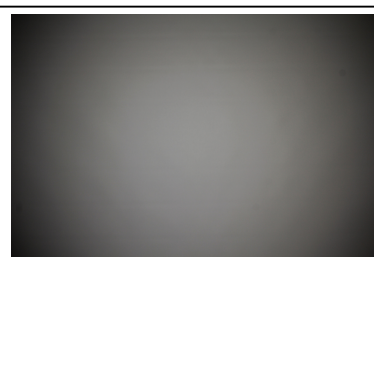
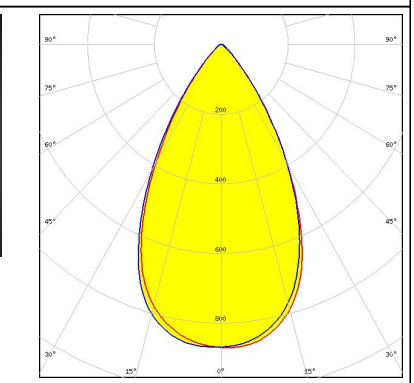
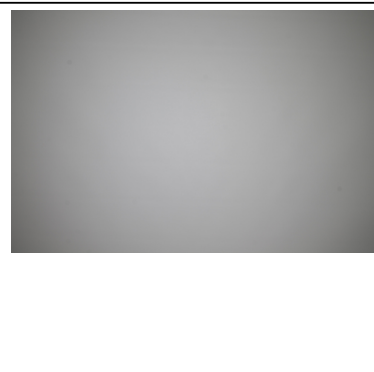
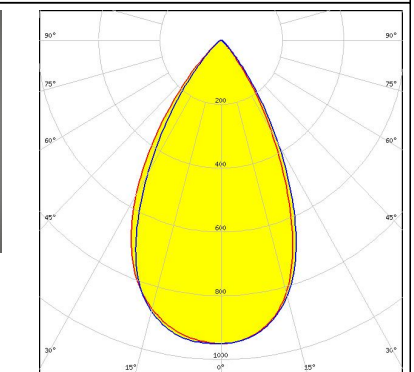


LUMILEDS

LED LUXEON CoB 1211
 FWHM 60.0°
 Efficiency 86 %
 Peak intensity 0.900 cd/lm
 Required components:
 C13867_LENINA-STD-BASE-VERO29
 C12606_LENINA-DL
 Bender Wirth: 431 Typ L3



PHOTOMETRIC DATA (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON CoB 1216/1812</p> <p>FWHM 58.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 1.000 cd/lm</p> <p>Required components: C12692_LENINA-STD-BASE-CLL040</p>		
<p>LUMILEDS</p> <p>LED LUXEON CoB 1216/1812</p> <p>FWHM 58.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 0.960 cd/lm</p> <p>Required components: A.A.G. STUCCHI: 8102/G2 + S-8000/12</p>		
<p>LUMILEDS</p> <p>LED LUXEON CoB 1216/1812</p> <p>FWHM 58.0°</p> <p>Efficiency 80 %</p> <p>Peak intensity 0.870 cd/lm</p> <p>Required components: C12606_LENINA-DL A.A.G. STUCCHI: 8102/G2 + S-8000/12</p>		
<p>LUMILEDS</p> <p>LED LUXEON CoB 1216/1812</p> <p>FWHM 58.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 0.950 cd/lm</p> <p>Required components: C12692_LENINA-STD-BASE-CLL040 C12606_LENINA-DL</p>		

PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED LUXEON K12

FWHM 57.0°

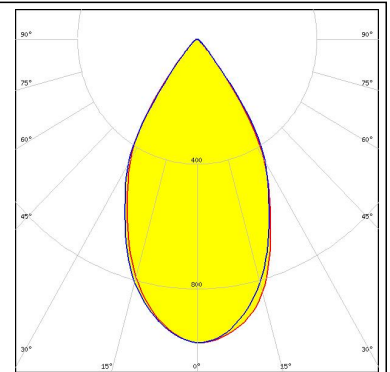
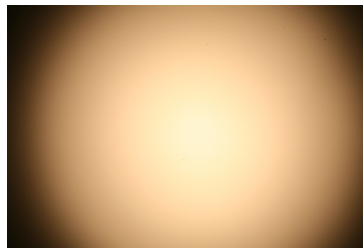
Efficiency 83 %

Peak intensity 1.000 cd/lm

Required components:

C12924_LENINA-STD-BASE-LUXEON-K

C12606_LENINA-DL



LUMILEDS

LED LUXEON K12

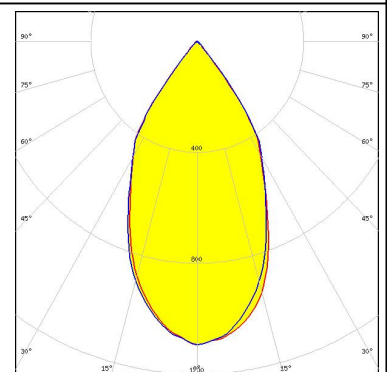
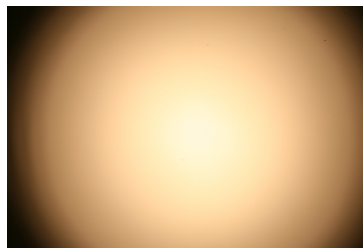
FWHM 54.0°

Efficiency 88 %

Peak intensity 1.100 cd/lm

Required components:

C12924_LENINA-STD-BASE-LUXEON-K



LUMILEDS

LED LUXEON K16

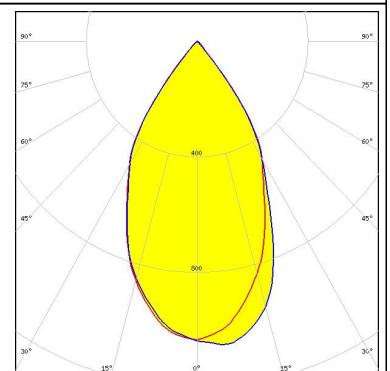
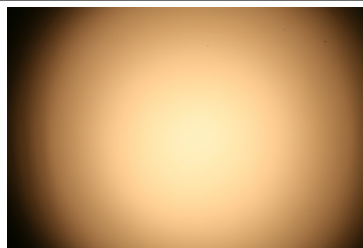
FWHM 55.0°

Efficiency 85 %

Peak intensity 1.050 cd/lm

Required components:

C12924_LENINA-STD-BASE-LUXEON-K



LUMILEDS

LED LUXEON K16

FWHM 56.0°

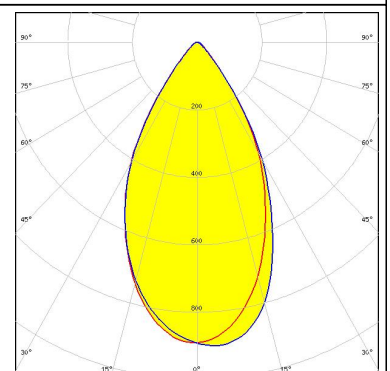
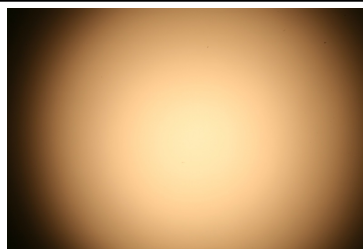
Efficiency 79 %

Peak intensity 0.900 cd/lm

Required components:

C12924_LENINA-STD-BASE-LUXEON-K

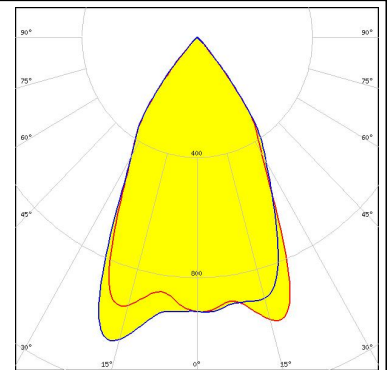
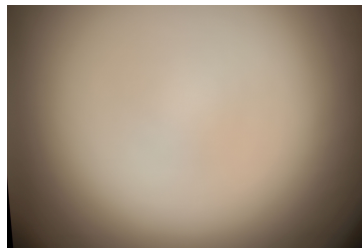
C12606_LENINA-DL



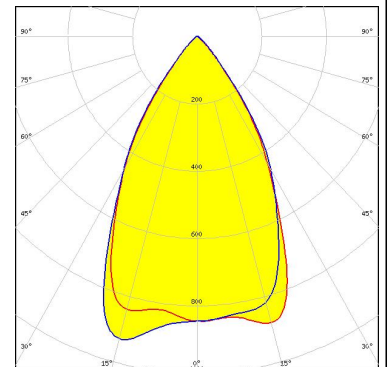
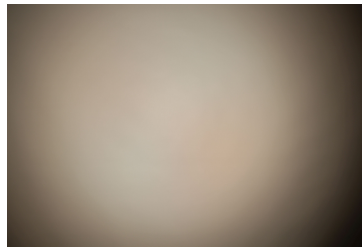
PHOTOMETRIC DATA (MEASURED):



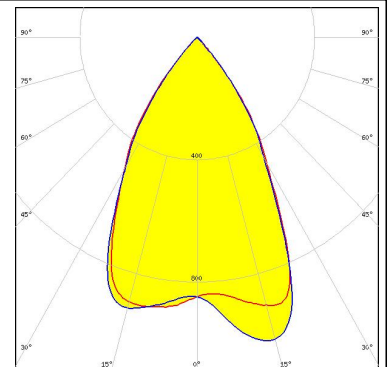
LED CDM-14 (Dim-To-Warm)
 FWHM 58.0°
 Efficiency 91 %
 Peak intensity 1.100 cd/lm
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 Bender Wirth: 491 Typ L2



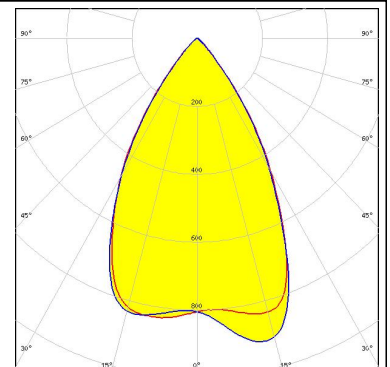
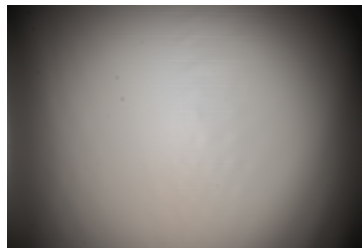
LED CDM-14 (Dim-To-Warm)
 FWHM 60.0°
 Efficiency 86 %
 Peak intensity 0.900 cd/lm
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 C12606_LENINA-DL
 Bender Wirth: 491 Typ L2



LED CDM-18 (Dim-To-Warm)
 FWHM 64.0°
 Efficiency 91 %
 Peak intensity 1.000 cd/lm
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 Bender Wirth: 491 Typ L2



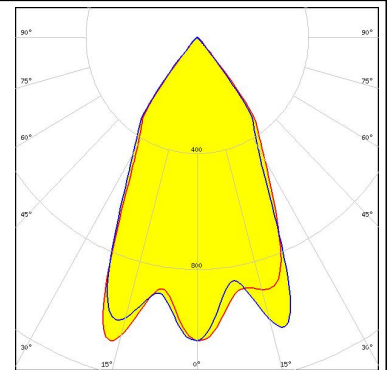
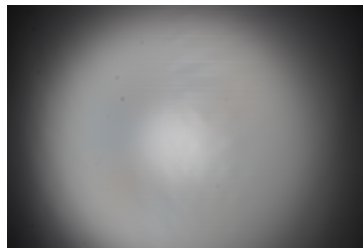
LED CDM-18 (Dim-To-Warm)
 FWHM 62.0°
 Efficiency 86 %
 Peak intensity 0.900 cd/lm
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 C12606_LENINA-DL
 Bender Wirth: 491 Typ L2



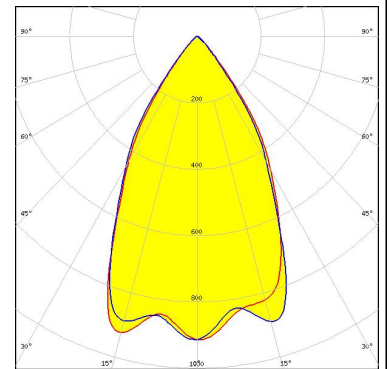
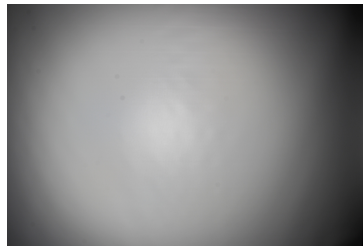
PHOTOMETRIC DATA (MEASURED):



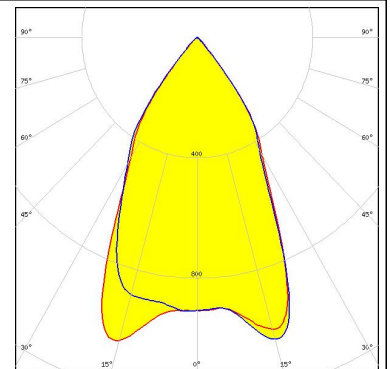
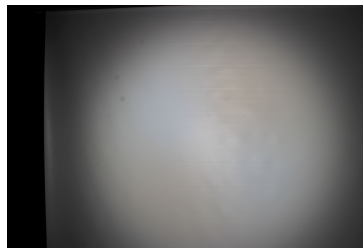
LED CDM-9 (Dim-To-Warm)
 FWHM 55.0°
 Efficiency 90 %
 Peak intensity 1.100 cd/lm
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 Bender Wirth: 490 Typ L1



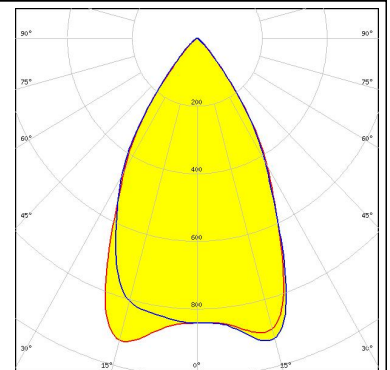
LED CDM-9 (Dim-To-Warm)
 FWHM 59.0°
 Efficiency 86 %
 Peak intensity 0.960 cd/lm
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 C12606_LENINA-DL
 Bender Wirth: 490 Typ L1



LED CTM-14 (Tunable White)
 FWHM 58.0°
 Efficiency 91 %
 Peak intensity 1.100 cd/lm
 Required components:
 C13867_LENINA-STD-BASE-VERO29
 Bender Wirth: 442 Typ L3



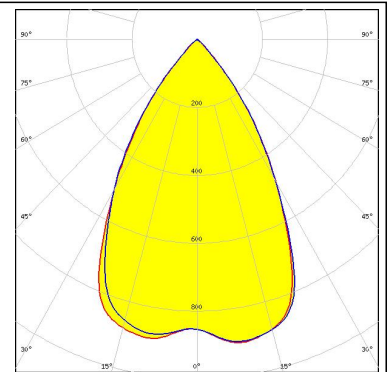
LED CTM-14 (Tunable White)
 FWHM 60.0°
 Efficiency 86 %
 Peak intensity 0.950 cd/lm
 Required components:
 C13867_LENINA-STD-BASE-VERO29
 C12606_LENINA-DL
 Bender Wirth: 442 Typ L3



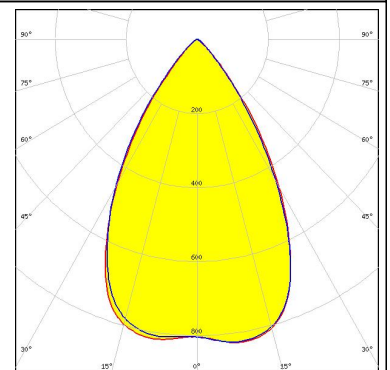
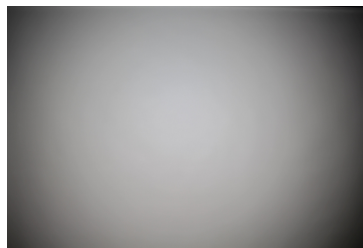
PHOTOMETRIC DATA (MEASURED):



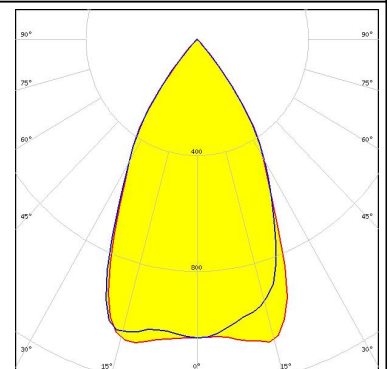
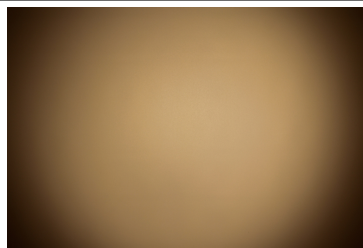
LED CTM-22 (Tunable White)
 FWHM 63.0°
 Efficiency 90 %
 Peak intensity 0.900 cd/lm
 Required components:
 C13867_LENINA-STD-BASE-VERO29
 Bender Wirth: 494 Typ L3



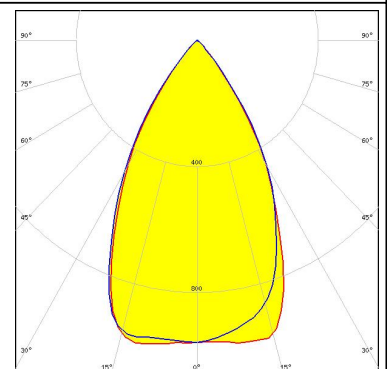
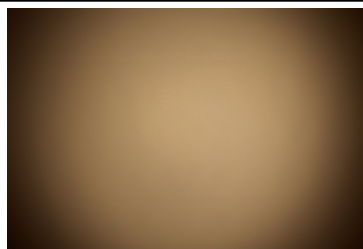
LED CTM-22 (Tunable White)
 FWHM 63.0°
 Efficiency 85 %
 Peak intensity 0.800 cd/lm
 Required components:
 C13867_LENINA-STD-BASE-VERO29
 C12606_LENINA-DL
 Bender Wirth: 494 Typ L3



LED CXM-14
 FWHM 58.0°
 Efficiency 92 %
 Peak intensity 1.100 cd/lm
 Required components:
 C12691_LENINA-STD-BASE-CLL030



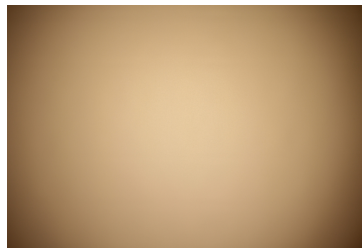
LED CXM-14
 FWHM 59.0°
 Efficiency 88 %
 Peak intensity 1.000 cd/lm
 Required components:
 C12691_LENINA-STD-BASE-CLL030
 C12606_LENINA-DL



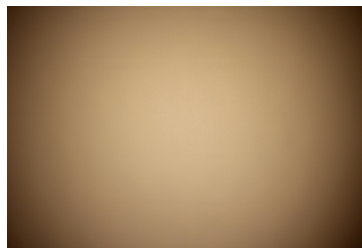
PHOTOMETRIC DATA (MEASURED):



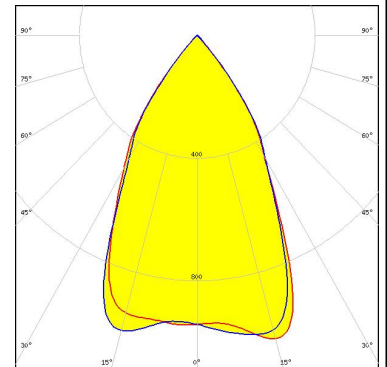
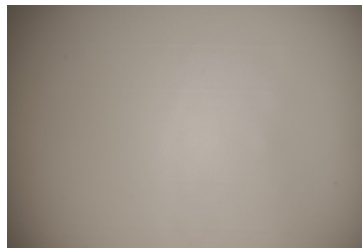
LED CXM-22
 FWHM 58.0°
 Efficiency 92 %
 Peak intensity 1.100 cd/lm
 Required components:
 C12692_LENINA-STD-BASE-CLL040



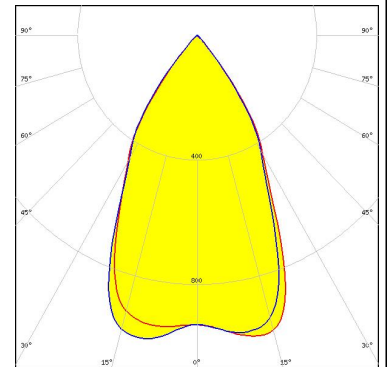
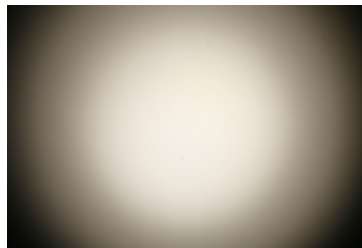
LED CXM-22
 FWHM 58.0°
 Efficiency 87 %
 Peak intensity 1.000 cd/lm
 Required components:
 C12692_LENINA-STD-BASE-CLL040
 C12606_LENINA-DL



LED COB J-Type
 FWHM 59.0°
 Efficiency 91 %
 Peak intensity 1.100 cd/lm
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 Bender Wirth: 463 Typ L2



LED COB J-Type
 FWHM 58.0°
 Efficiency 86 %
 Peak intensity 1.010 cd/lm
 Required components:
 C12292_LENINA-STD-BASE-MEZ



PHOTOMETRIC DATA (MEASURED):



LED COB J-Type

FWHM 59.0°

Efficiency 87 %

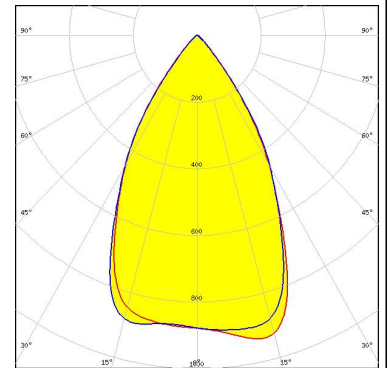
Peak intensity 1.000 cd/lm

Required components:

C13868_LENINA-STD-BASE-VERO13-18

C12606_LENINA-DL

Bender Wirth: 463 Typ L2



LED COB J-Type

FWHM 59.0°

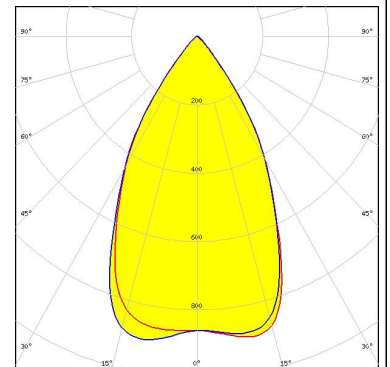
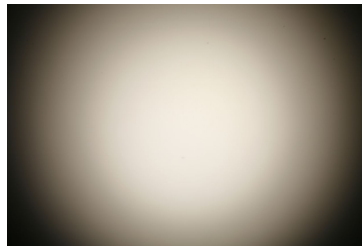
Efficiency 82 %

Peak intensity 0.910 cd/lm

Required components:

C12292_LENINA-STD-BASE-MEZ

C12606_LENINA-DL



LED COB L-Type (LES 11)

FWHM 58.0°

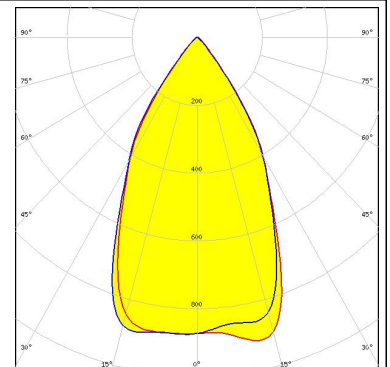
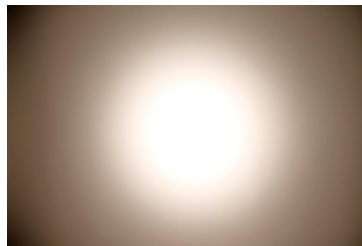
Efficiency 80 %

Peak intensity 0.900 cd/lm

Required components:

C11981_LENINA-STD-BASE-COB-L110

C12606_LENINA-DL



LED COB L-Type (LES 11)

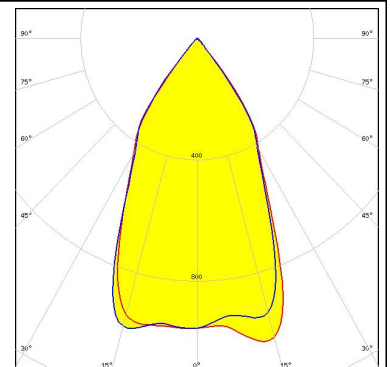
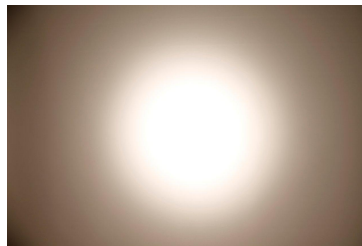
FWHM 56.0°

Efficiency 85 %

Peak intensity 1.000 cd/lm

Required components:

C11981_LENINA-STD-BASE-COB-L110



PHOTOMETRIC DATA (MEASURED):

OSRAM
Opto Semiconductors

LED Soleriq S13

FWHM 59.0°

Efficiency 86 %

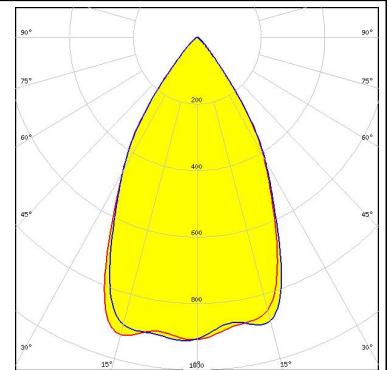
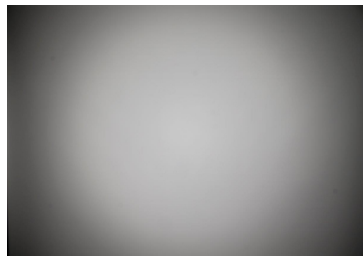
Peak intensity 0.940 cd/lm

Required components:

C13868_LENINA-STD-BASE-VERO13-18

C12606_LENINA-DL

Bender Wirth: 437 Typ L1



OSRAM
Opto Semiconductors

LED Soleriq S13

FWHM 56.0°

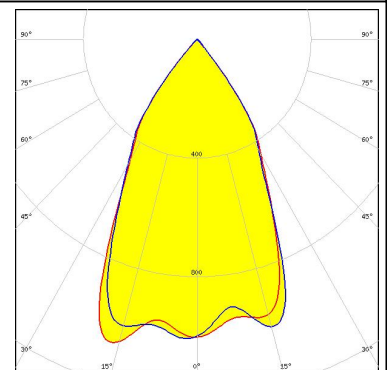
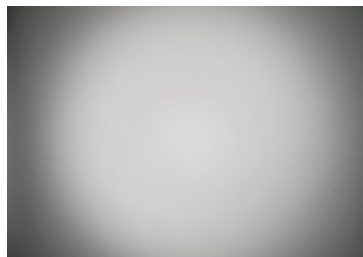
Efficiency 90 %

Peak intensity 1.100 cd/lm

Required components:

C13868_LENINA-STD-BASE-VERO13-18

Bender Wirth: 437 Typ L1



OSRAM
Opto Semiconductors

LED Soleriq S19

FWHM 60.0°

Efficiency 87 %

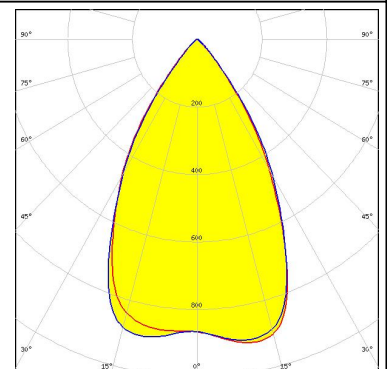
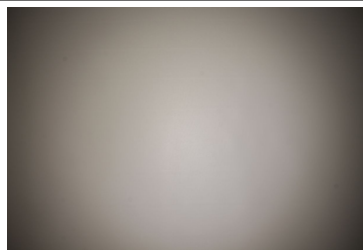
Peak intensity 0.930 cd/lm

Required components:

C13867_LENINA-STD-BASE-VERO29

C12606_LENINA-DL

Bender Wirth: 462 Typ L3



OSRAM
Opto Semiconductors

LED Soleriq S19

FWHM 60.0°

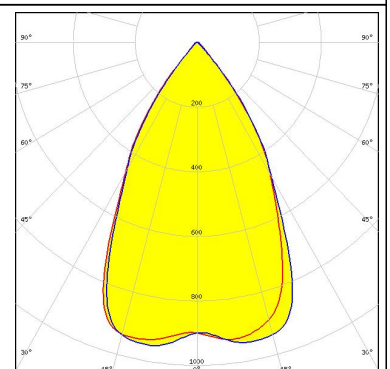
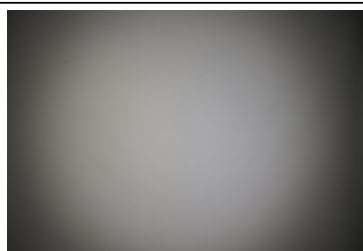
Efficiency 92 %

Peak intensity 1.000 cd/lm

Required components:

C13867_LENINA-STD-BASE-VERO29

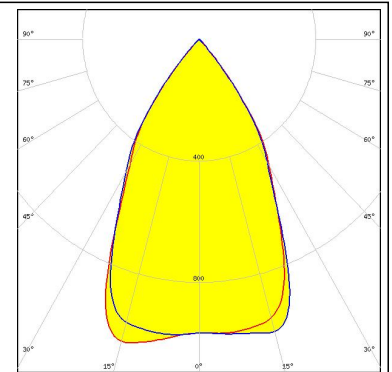
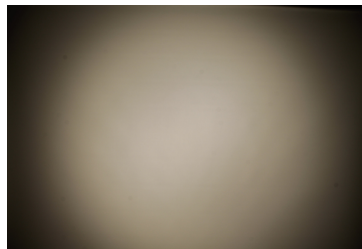
Bender Wirth: 462 Typ L3



PHOTOMETRIC DATA (MEASURED):

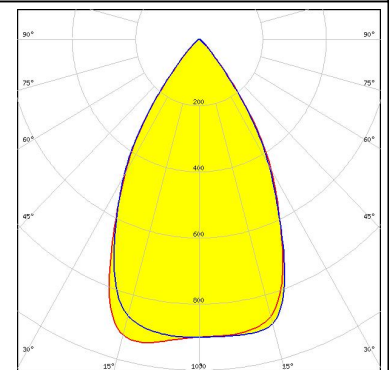
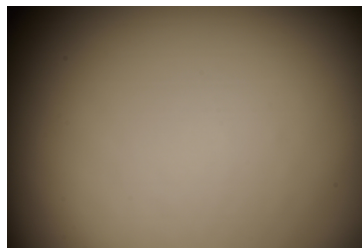
SAMSUNG

LED COB D Series LES 14.5 mm
 FWHM 57.0°
 Efficiency 91 %
 Peak intensity 1.000 cd/lm
 Required components:
 C12691_LENINA-STD-BASE-CLL030



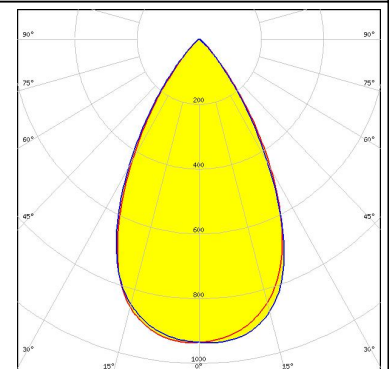
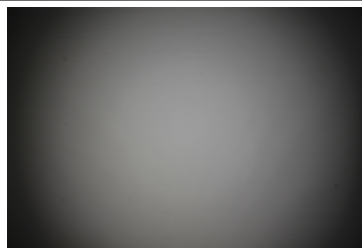
SAMSUNG

LED COB D Series LES 14.5 mm
 FWHM 59.0°
 Efficiency 87 %
 Peak intensity 0.950 cd/lm
 Required components:
 C12691_LENINA-STD-BASE-CLL030
 C12606_LENINA-DL



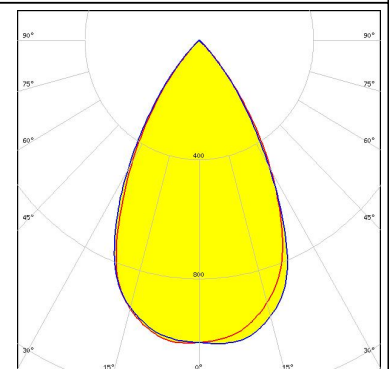
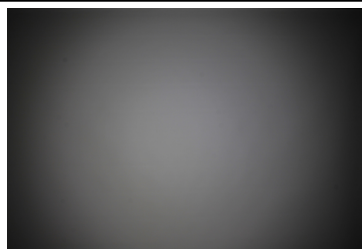
SAMSUNG

LED COB D Series LES 22 mm
 FWHM 59.0°
 Efficiency 86 %
 Peak intensity 0.940 cd/lm
 Required components:
 C12692_LENINA-STD-BASE-CLL040
 C12606_LENINA-DL



SAMSUNG

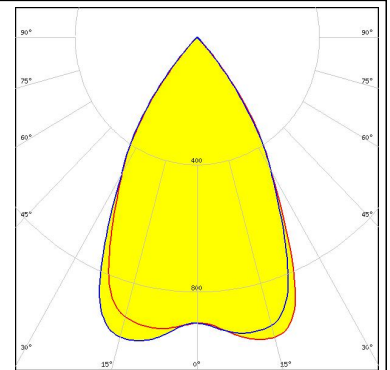
LED COB D Series LES 22 mm
 FWHM 59.0°
 Efficiency 91 %
 Peak intensity 1.000 cd/lm
 Required components:
 C12692_LENINA-STD-BASE-CLL040



PHOTOMETRIC DATA (MEASURED):

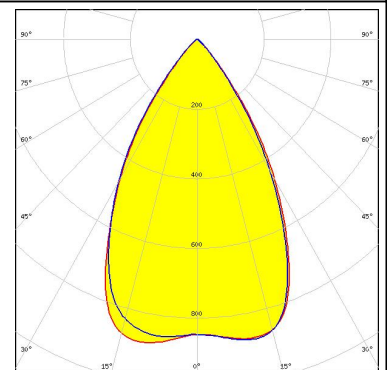
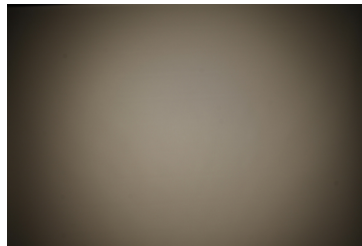
SAMSUNG

LED LC026B / 033B / 040B
 FWHM 61.0°
 Efficiency 91 %
 Peak intensity 0.980 cd/lm
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 Bender Wirth: 450 Typ L2

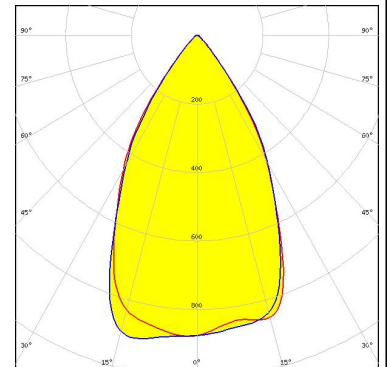


SAMSUNG

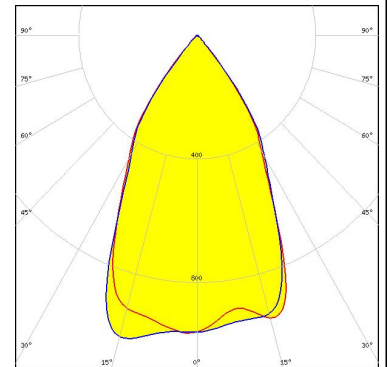
LED LC026B / 033B / 040B
 FWHM 61.0°
 Efficiency 86 %
 Peak intensity 0.890 cd/lm
 Required components:
 C13868_LENINA-STD-BASE-VERO13-18
 C12606_LENINA-DL
 Bender Wirth: 450 Typ L2





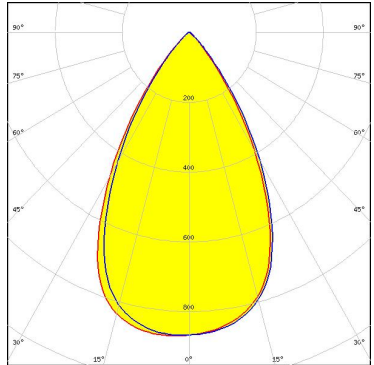

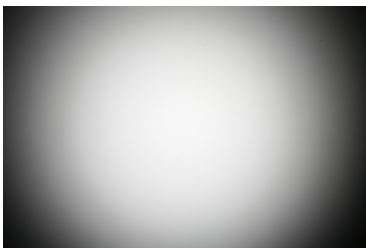
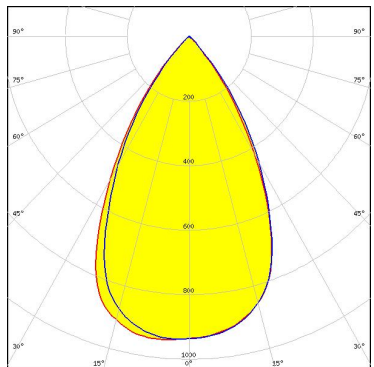
LED ZC12/18
 FWHM 59.0°
 Efficiency 84 %
 Peak intensity 0.910 cd/lm
 Required components:
 C12691_LENINA-STD-BASE-CLL030
 C12606_LENINA-DL



LED ZC12/18
 FWHM 57.0°
 Efficiency 88 %
 Peak intensity 1.020 cd/lm
 Required components:
 C12691_LENINA-STD-BASE-CLL030



PHOTOMETRIC DATA (MEASURED):

<p> SEOUL SEMICONDUCTOR</p> <p>LED ZC25/40/60 FWHM 60.0° Efficiency 82 % Peak intensity 0.900 cd/lm Required components: C12692_LENINA-STD-BASE-CLL040 C12606_LENINA-DL</p>		
<p> SEOUL SEMICONDUCTOR</p> <p>LED ZC25/40/60 FWHM 60.0° Efficiency 86 % Peak intensity 0.900 cd/lm Required components: C12692_LENINA-STD-BASE-CLL040</p>		
<p>SHARP</p> <p>LED Mega Zenigata (GW5DGC) FWHM 45.0° Efficiency 78 % Peak intensity cd/lm Required components: C12292_LENINA-STD-BASE-MEZ C12606_LENINA-DL</p>		
<p>SHARP</p> <p>LED Mega Zenigata (GW5DGC) FWHM 41.0° Efficiency 86 % Peak intensity cd/lm Required components: C12292_LENINA-STD-BASE-MEZ</p>		