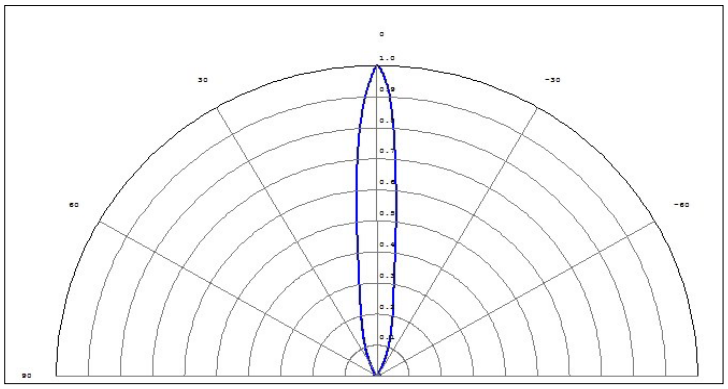
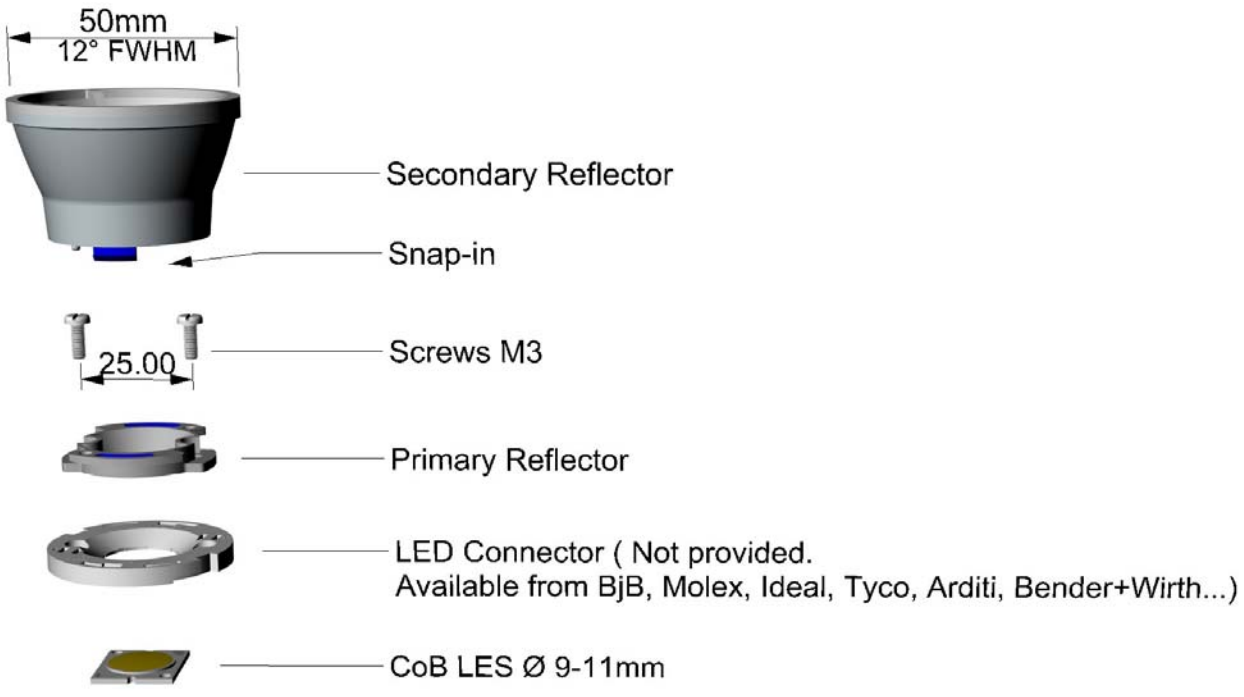
KCLP1856CR - 50mm Narrow Beam Angle

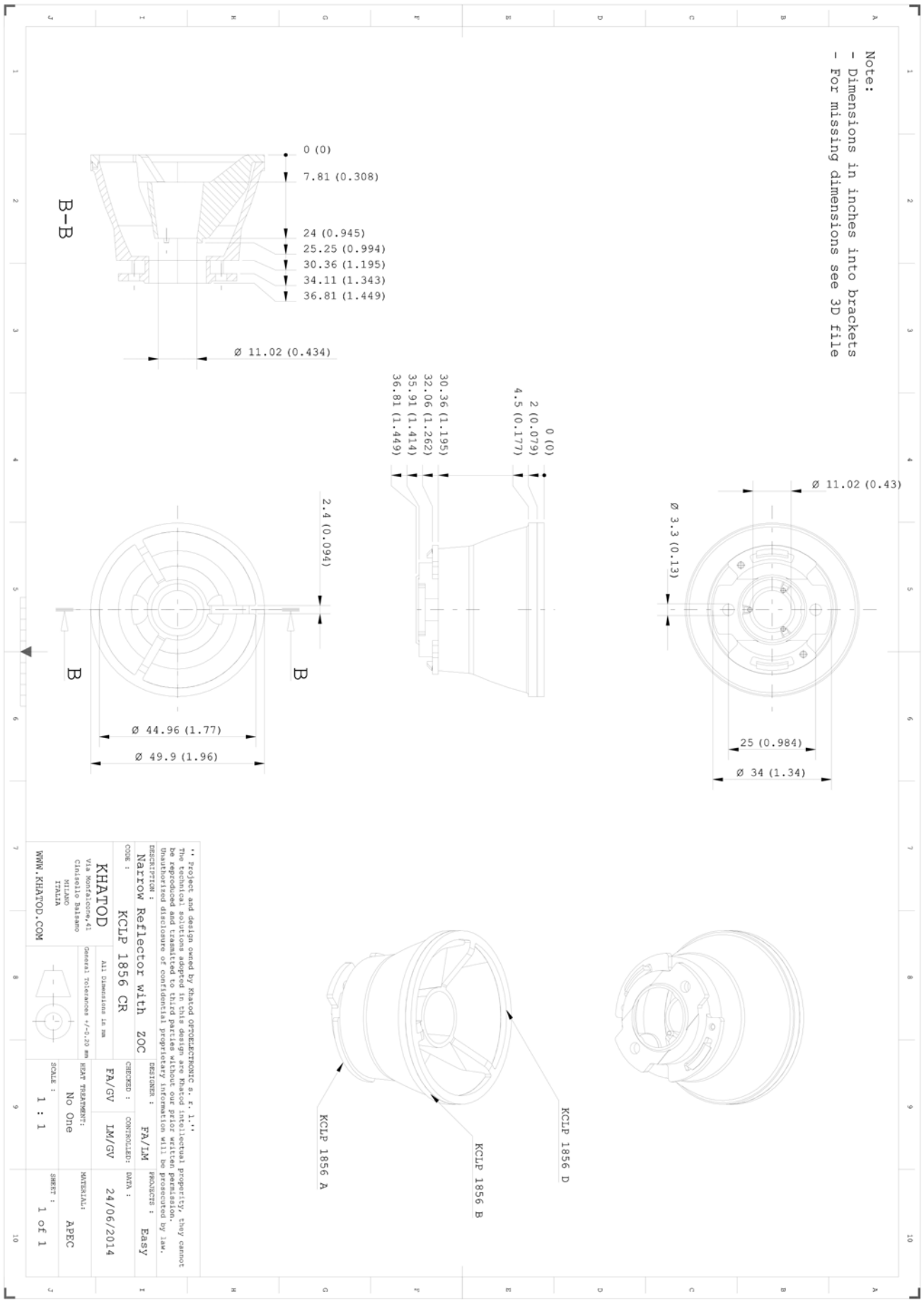


- Material = APEC + Reflector Coating
- Full angle at 50% : ~ 12°
- Full angle at 10% : ~ 32°-37°
- The light spots here represented refer to tests carried out with CoB LEDs @ 1000lm



How to assemble

2. Drawing


Note:
- Dimensions in inches into brackets
- For missing dimensions see 3D file
B-B
0 (0)
7.81 (0.308)
24 (0.945)
25.25 (0.994)
30.36 (1.195)
34.11 (1.343)
36.81 (1.449)
Ø 11.02 (0.434)
30.36 (1.195)
32.06 (1.262)
35.91 (1.414)
36.81 (1.449)
0 (0)
2 (0.079)
4.5 (0.177)
Ø 11.02 (0.43)
Ø 3.3 (0.13)
2.4 (0.094)
B
B
Ø 44.96 (1.77)
Ø 49.9 (1.96)
25 (0.984)
Ø 34 (1.34)
KCLP 1856 A
KCLP 1856 B
KCLP 1856 D
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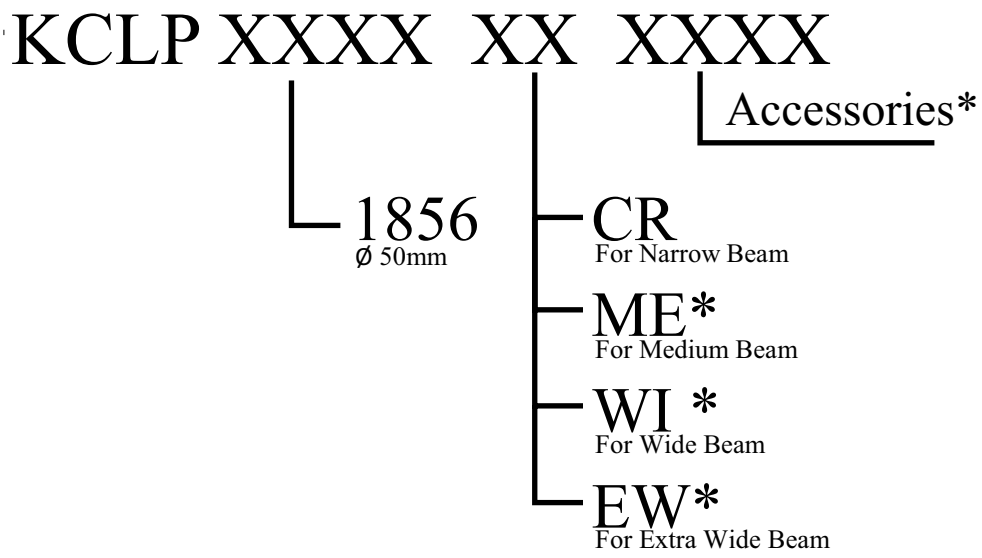
KHATOD
Via Monfalcone,41
Cinisello Balsamo
MILANO
ITALIA
WWW.KHATOD.COM
DESCRIPTION : Narrow Reflector with ZOC
CODE : KCLP 1856 CR
All Dimensions in mm
General Tolerances +/-0.20 mm
DESIGNER : FA/LM
CHECKED : FA/GV
CONTROLLED: LM/GV
DATA : 24/06/2014
PRODUCTS : Easy
HEAT TREATMENT: No One
MATERIAL: APEC
SCALE : 1 : 1
SHEET : 1 of 1

2. How to Order



* Coming Soon

2. How to order : Examples

1 - 50mm Diameter, Narrow Beam

KCLP 1856 CR

2 - 50mm Diameter, Medium Beam* (coming soon):

KCLP 1856 ME

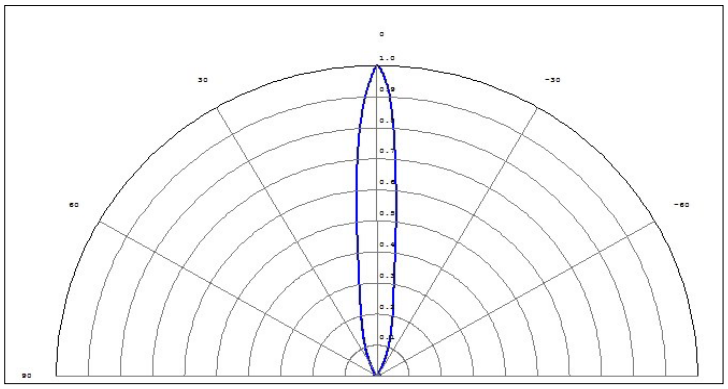
3 - 50mm Diameter, Wide Beam* (coming soon):

KCLP 1856 WI

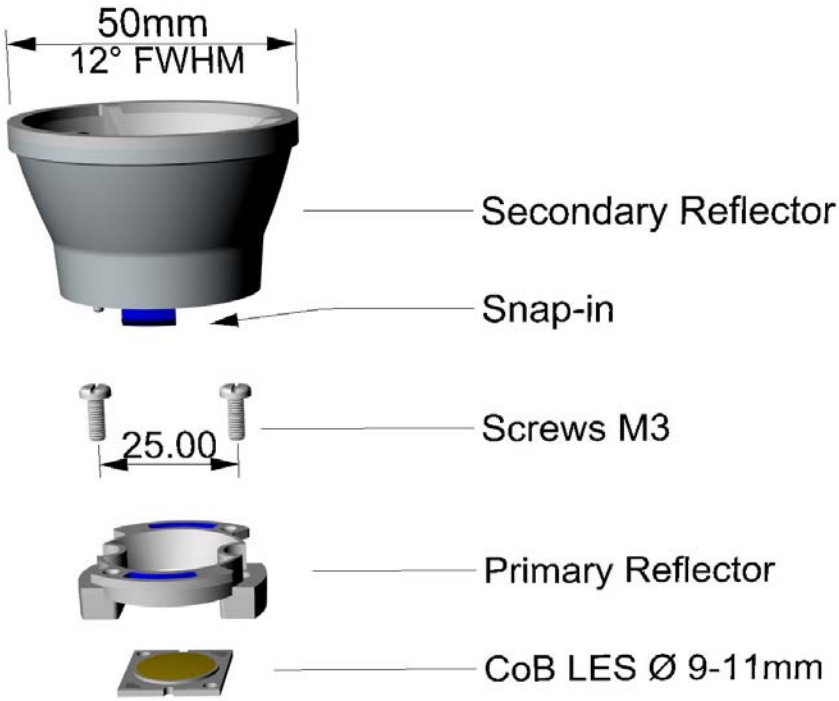
4 - 50mm Diameter, Extra Wide Beam* (coming soon):

KCLP 1856 EW

KCLP1857CR - 50mm Narrow Beam Angle

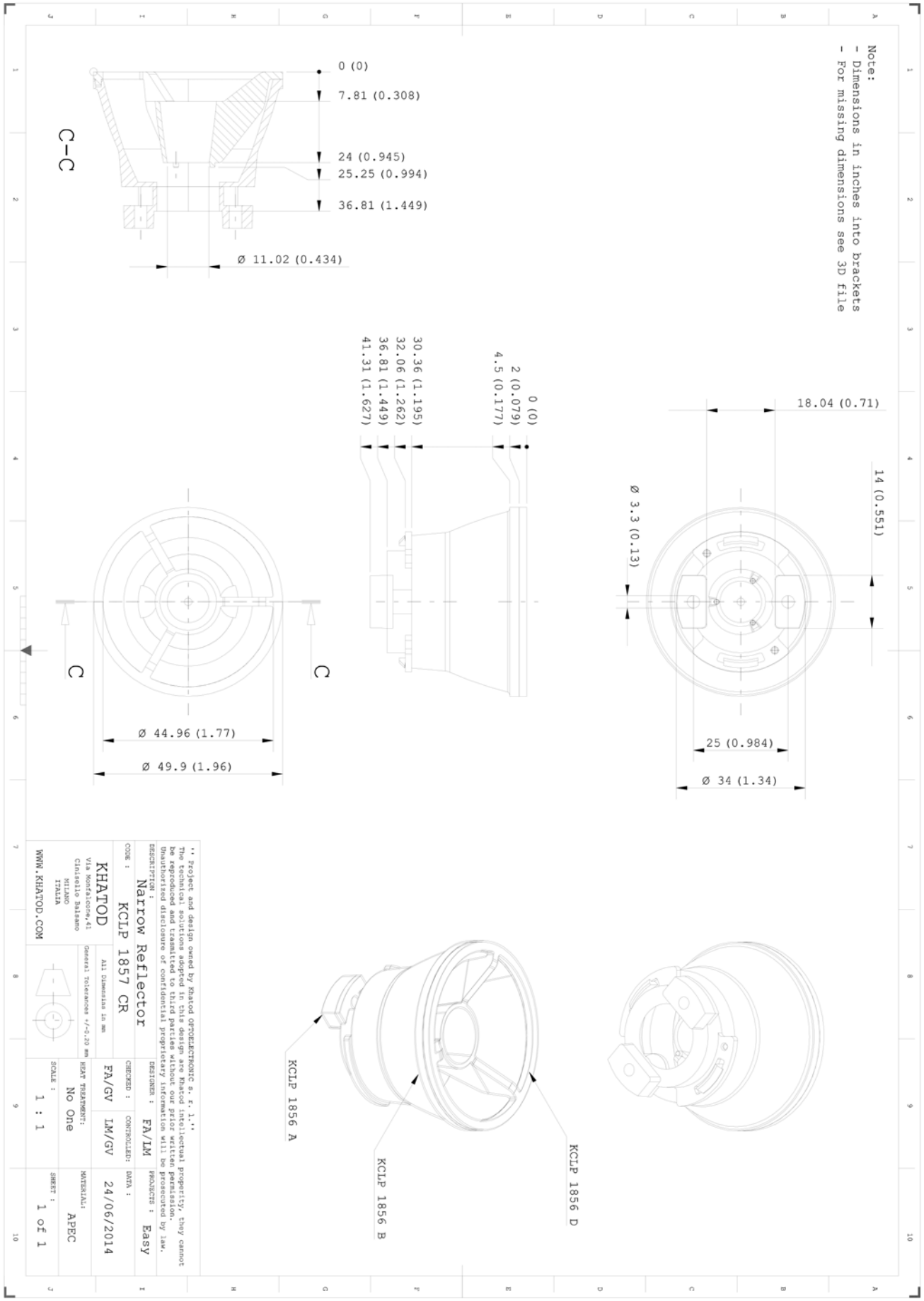


- Material = APEC + Reflector Coating
- Full angle at 50% : ~ 12°
- Full angle at 10% : ~ 32°-37°
- The light spots here represented refer to tests carried out with CoB LEDs @ 1000lm



How to assemble

2. Drawing


Note:
- Dimensions in inches into brackets
- For missing dimensions see 3D file
C-C
0 (0)
7.81 (0.308)
24 (0.945)
25.25 (0.994)
36.81 (1.449)
Ø 11.02 (0.434)
30.36 (1.195)
32.06 (1.262)
36.81 (1.449)
41.31 (1.627)
0 (0)
2 (0.079)
4.5 (0.177)
18.04 (0.71)
14 (0.551)
Ø 3.3 (0.13)
25 (0.984)
Ø 34 (1.34)
Ø 44.96 (1.77)
Ø 49.9 (1.96)
KCLP 1856 A
KCLP 1856 B
KCLP 1856 D
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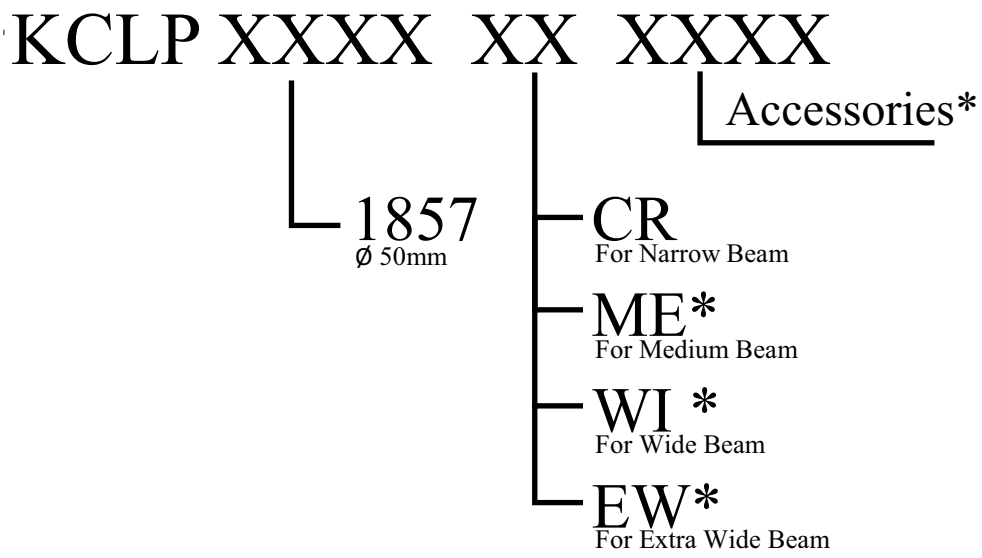
DESCRIPTION : Narrow Reflector
CODE : KCLP 1857 CR
All Dimensions in mm
General Tolerances +/-0.20 mm
KHATOD
Via Monfalcone,41
Cinisello Balsamo
MILANO
ITALIA
WWW.KHATOD.COM
DESIGNER : FA/LM
CHECKED : FA/GV
CONTROLLED: LM/GV
DATA : 24/06/2014
PRODUCTS : Easy
HEAT TREATMENT: No One
MATERIAL: APEC
SCALE : 1 : 1
SHEET : 1 of 1

2. How to Order



* Coming Soon

2. How to order : Examples

1 - 50mm Diameter, Narrow Beam

KCLP 1857 CR

2 - 50mm Diameter, Medium Beam* (coming soon):

KCLP 1857 ME

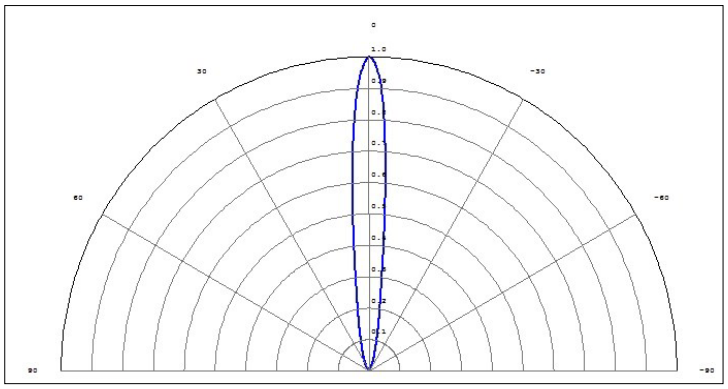
3 - 50mm Diameter, Wide Beam* (coming soon):

KCLP 1857 WI

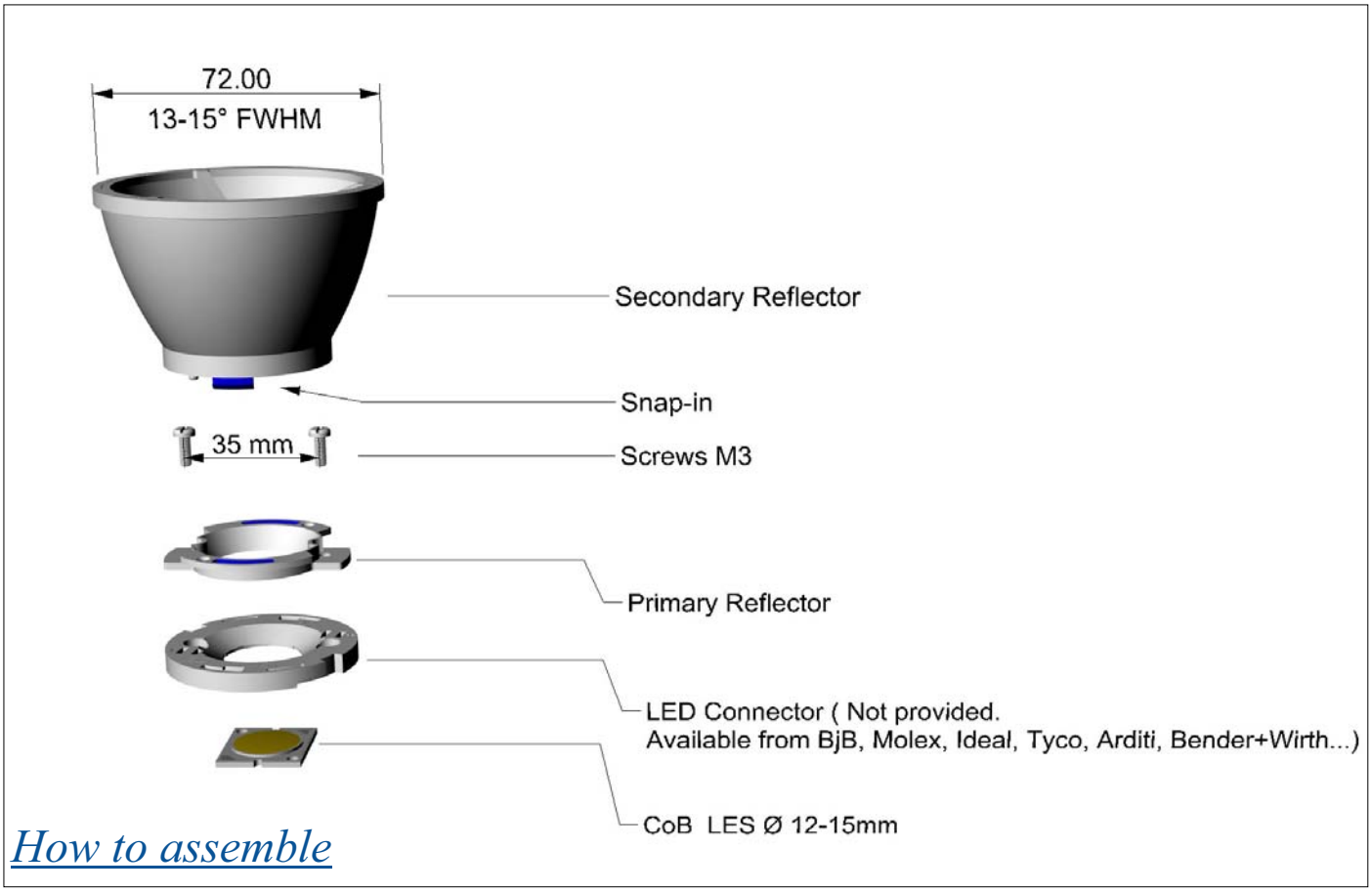
4 - 50mm Diameter, Extra Wide Beam* (coming soon):

KCLP 1857 EW

KCLP1858CR - 72mm Narrow Beam Angle

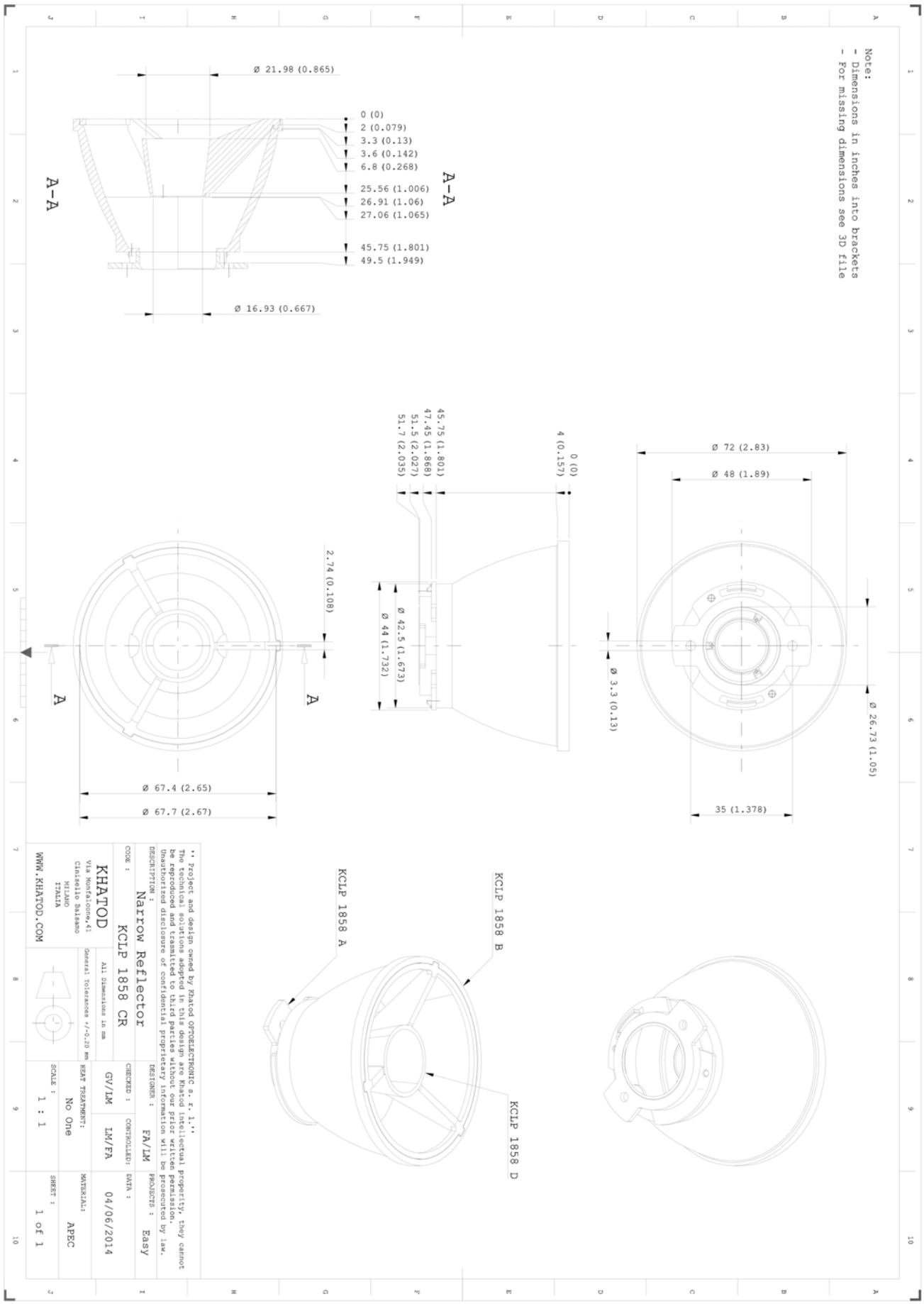


- Material = APEC + Reflector Coating
- Full angle at 50% : ~ 13-15°
- Full angle at 10% : ~ 32°-37°
- The light spots here represented refer to tests carried out with CoB LEDs @ 1000lm



How to assemble

2. Drawing


Note:
- Dimensions in inches into brackets
- For missing dimensions see 3D file
A-A
Ø 21.98 (0.865)
0 (0)
2 (0.079)
3.3 (0.13)
3.6 (0.142)
6.8 (0.268)
25.56 (1.006)
26.91 (1.06)
27.06 (1.065)
45.75 (1.801)
49.5 (1.949)
Ø 16.93 (0.667)
45.75 (1.801)
47.45 (1.868)
51.5 (2.027)
51.7 (2.035)
0 (0)
4 (0.157)
Ø 42.5 (1.673)
Ø 44 (1.732)
2.74 (0.108)
A
Ø 67.4 (2.65)
Ø 67.7 (2.67)
Ø 72 (2.83)
Ø 48 (1.89)
Ø 3.3 (0.13)
Ø 26.73 (1.05)
35 (1.378)
KCLP 1858 A
KCLP 1858 B
KCLP 1858 D
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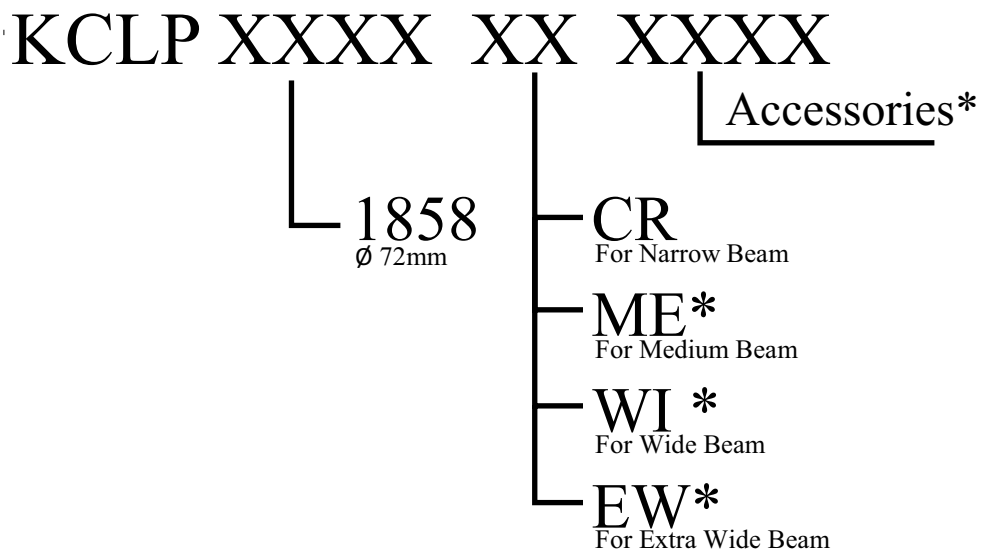
DESCRIPTION : Narrow Reflector
CODE : KCLP 1858 CR
All Dimensions in mm
General Tolerances +/-0.20 mm
KHATOD
Via Monfalcone,41
Cinisello Balsamo
MILANO
ITALIA
WWW.KHATOD.COM
DESIGNER : FA/LM
CHECKED : GV/LM
CONTROLLED: LM/FA
DATA : 04/06/2014
PRODUCTS : Easy
HEAT TREATMENT: No One
MATERIAL: APEC
SCALE : 1 : 1
SHEET : 1 of 1

2. How to Order



* Coming Soon

2. How to order : Examples

1 - 50mm Diameter, Narrow Beam

KCLP 1858 CR

2 - 50mm Diameter, Medium Beam* (coming soon):

KCLP 1858 ME

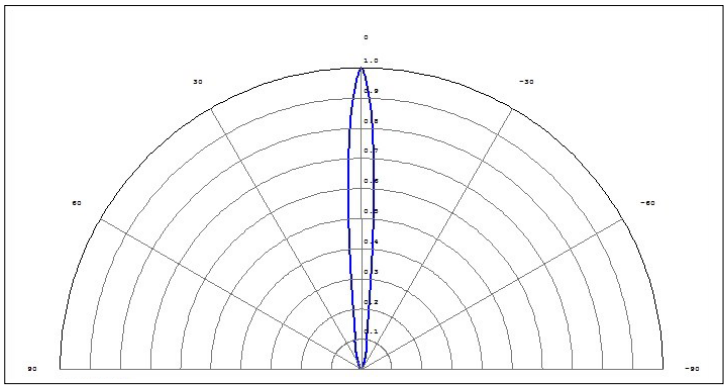
3 - 50mm Diameter, Wide Beam* (coming soon):

KCLP 1858 WI

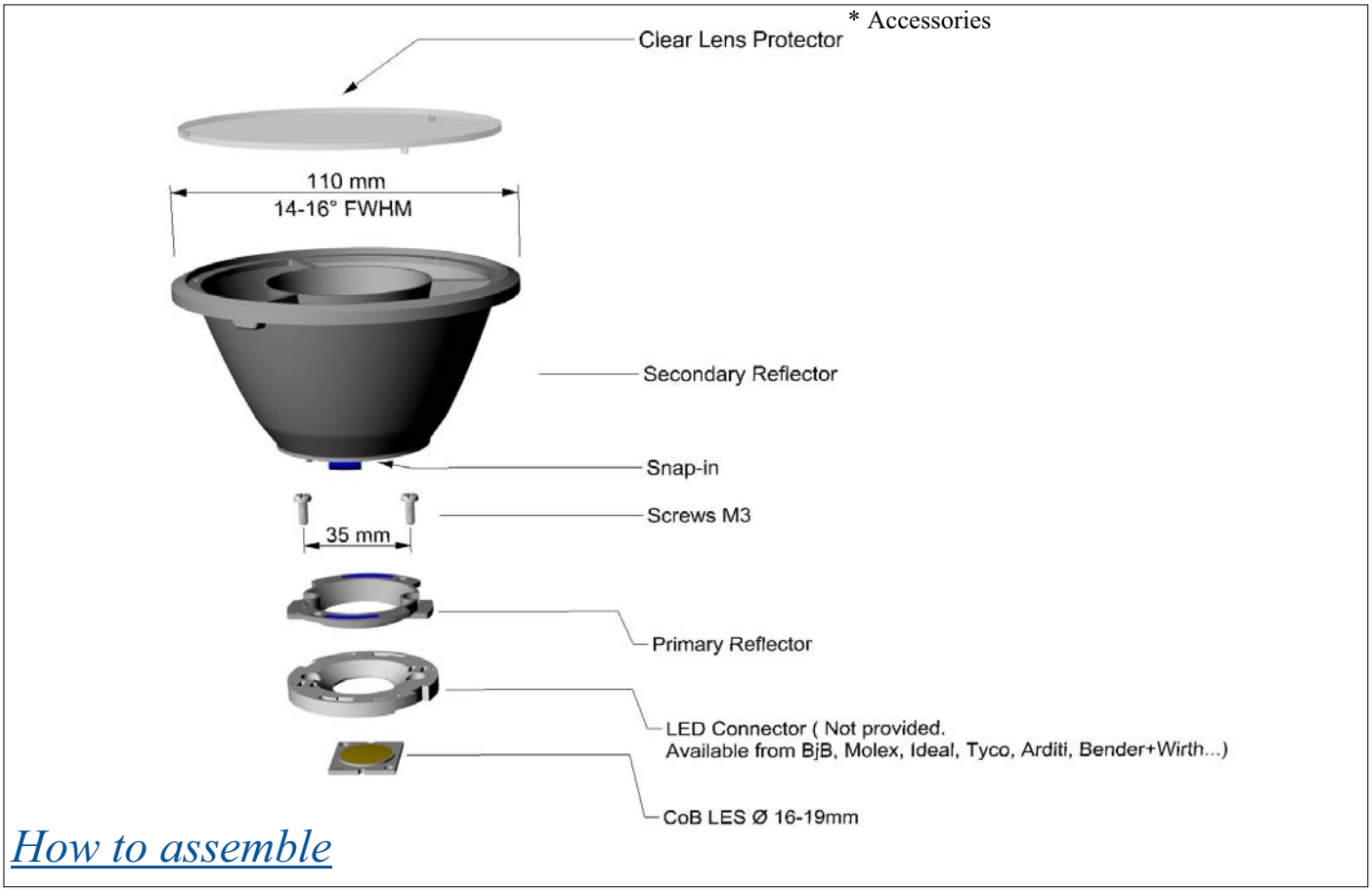
4 - 50mm Diameter, Extra Wide Beam* (coming soon):

KCLP 1858 EW

KCLP1859CR - 110mm Narrow Beam Angle

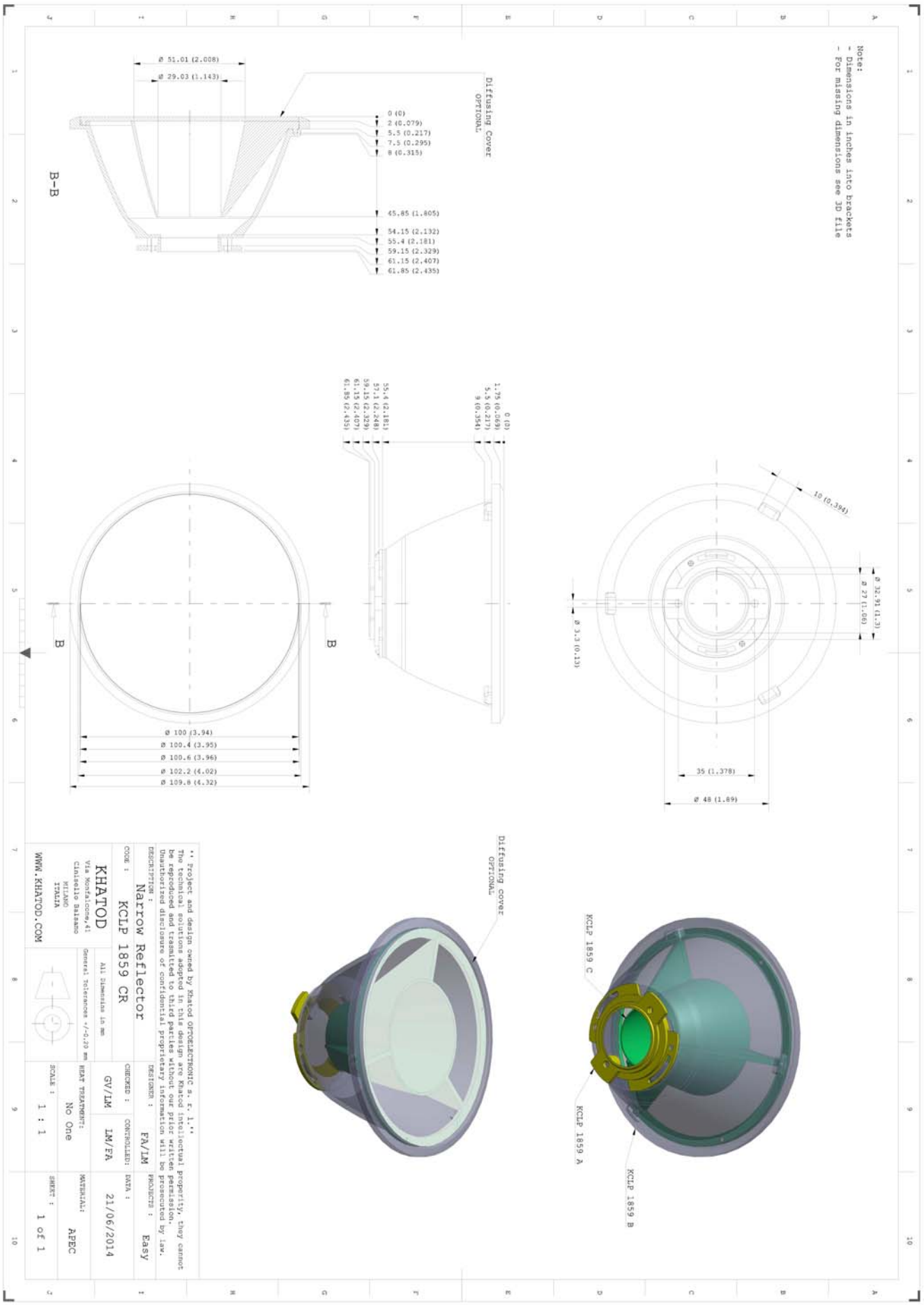


- Material = APEC + Reflector Coating
- Full angle at 50% : ~ 14-16°
- Full angle at 10% : ~ 38°-42°
- The light spots here represented refer to tests carried out with CoB LEDs @ 1000lm

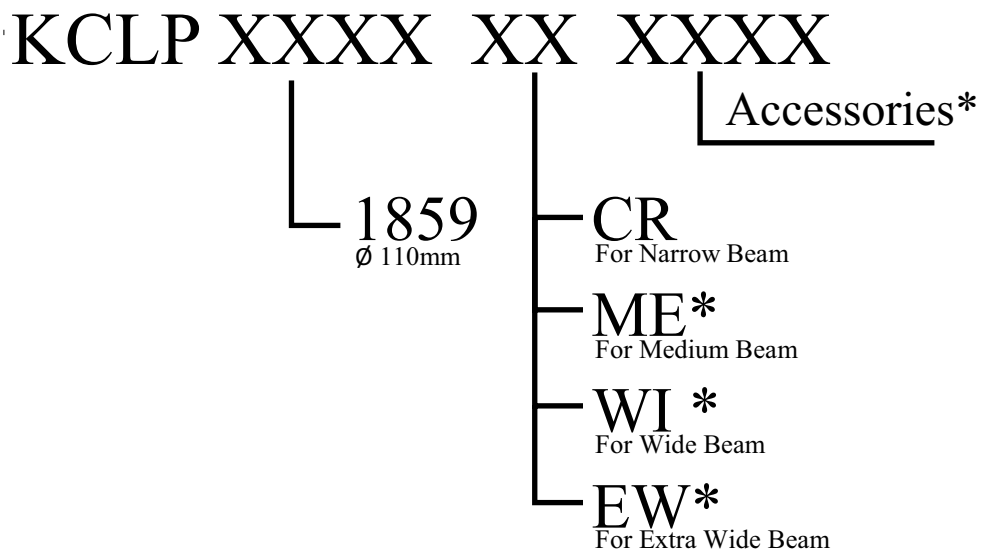


How to assemble

2. Drawing



2. How to Order



* Coming Soon

2. How to order : Examples

1 - 50mm Diameter, Narrow Beam

KCLP 1859 CR

2 - 50mm Diameter, Medium Beam* (coming soon):

KCLP 1859 ME

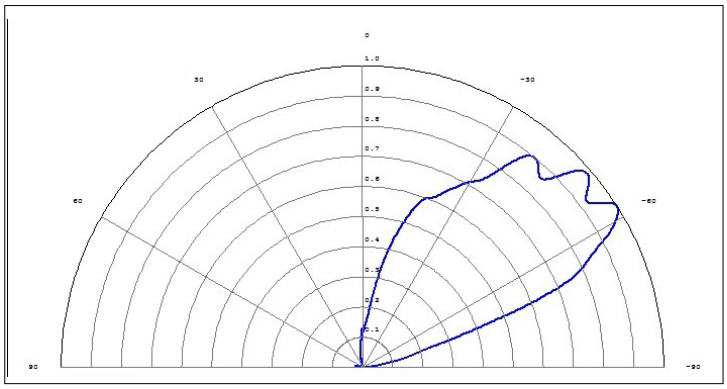
3 - 50mm Diameter, Wide Beam* (coming soon):

KCLP 1859 WI

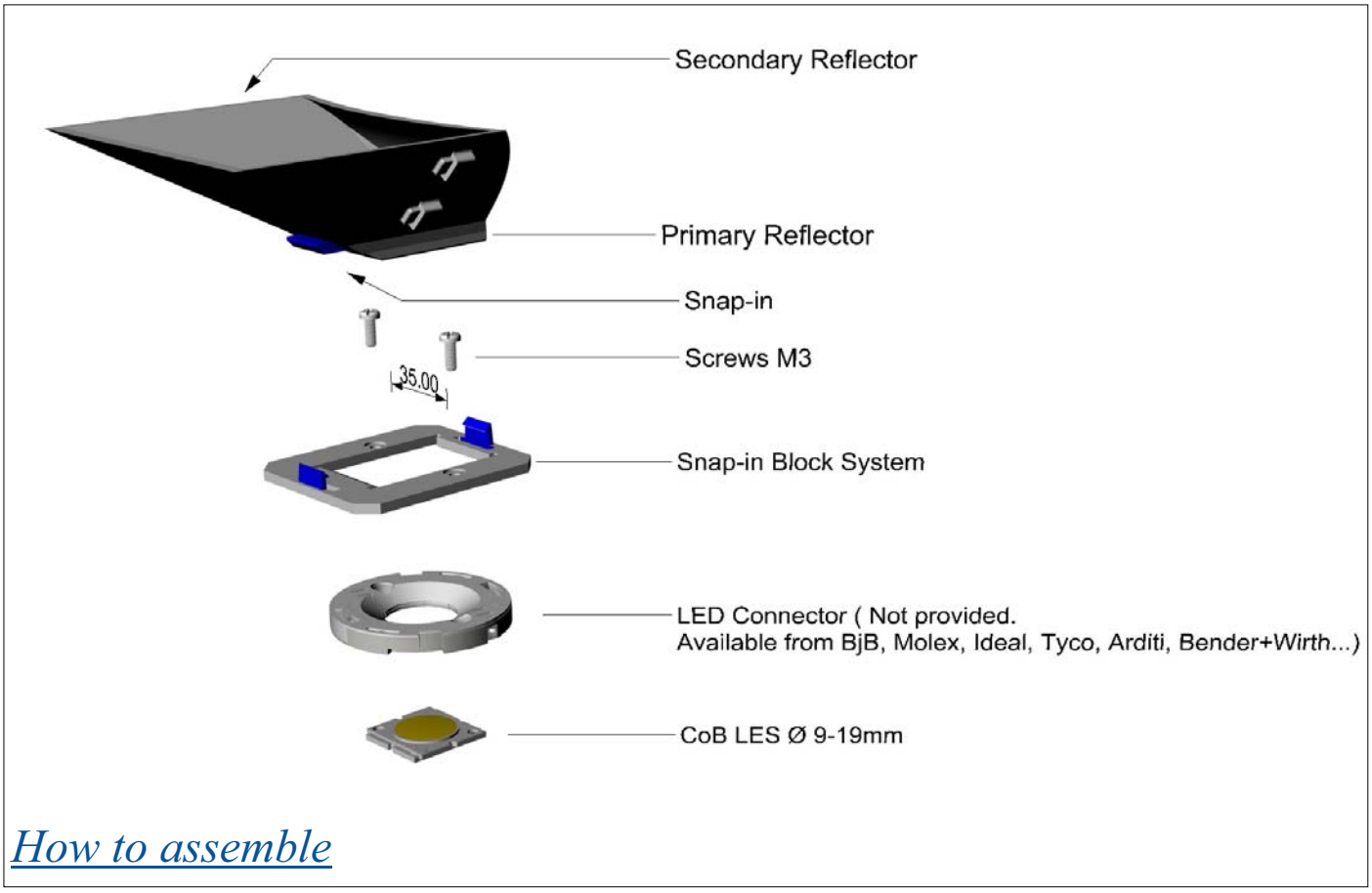
4 - 50mm Diameter, Extra Wide Beam* (coming soon):

KCLP 1859 EW

KCLP1799ST - Asymmetrical Beam Angle

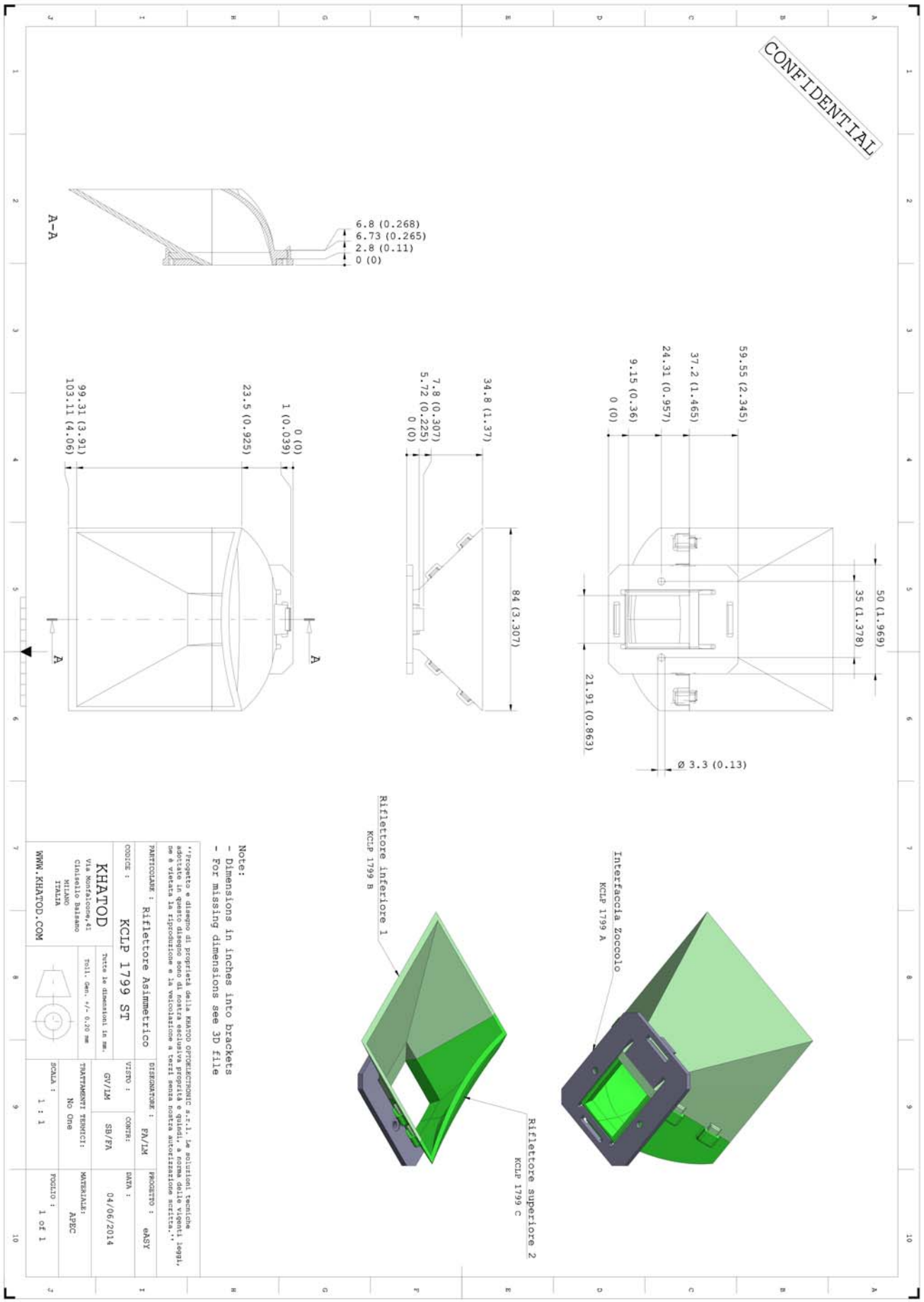


- Material = APEC + Reflector Coating
- Full angle at 50% : ~ 30°x55°
- Full angle at 10% : ~ 80°-135°
- The light spots here represented refer to tests carried out with CoB LEDs @ 1000lm



How to assemble

2. Drawing


CONFIDENTIAL
A-A
6.8 (0.268)
6.73 (0.265)
2.8 (0.11)
0 (0)
59.55 (2.345)
37.2 (1.465)
24.31 (0.957)
9.15 (0.36)
0 (0)
50 (1.969)
35 (1.378)
21.91 (0.863)
Ø 3.3 (0.13)
34.8 (1.37)
7.8 (0.307)
5.72 (0.225)
0 (0)
84 (3.307)
99.31 (3.91)
103.11 (4.06)
23.5 (0.925)
0 (0)
1 (0.039)
A
A
Riflettore inferiore 1
KCLP 1799 B
Interfaccia Zoccolo
KCLP 1799 A
Riflettore superiore 2
KCLP 1799 C
Note:
- Dimensions in inches into brackets
- For missing dimensions see 3D file
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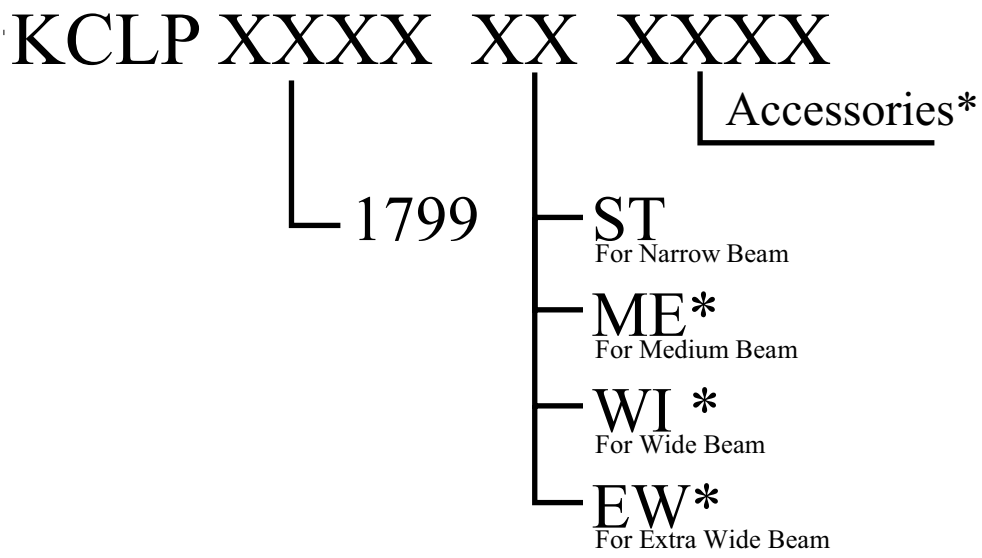
PARTICOLARE : Riflettore Asimmetrico
DISEGNATORE : FM/LM
PROGETTO : eASY
CODICE : KCLP 1799 ST
VISTO : GV/LM
CONTR: SB/FA
DATA : 04/06/2014
Tutte le dimensioni in mm.
Toll. Gen. +/- 0.20 mm
TRATTAMENT TERMICI: No One
MATERIALE: APEC
SCALA : 1 : 1
FOGLIO : 1 of 1
KHATOD
Via Monfalcone,41
Cinisello Balsamo
MILANO
ITALIA
WWW.KHATOD.COM

2. How to Order



* Coming Soon

2. How to order : Examples

1 - 50mm Diameter, Narrow Beam

KCLP 1799 ST

2 - 50mm Diameter, Medium Beam* (coming soon):

KCLP 1799 ME

3 - 50mm Diameter, Wide Beam* (coming soon):

KCLP 1799 WI

4 - 50mm Diameter, Extra Wide Beam* (coming soon):

KCLP 1799 EW

2. Materials

Material	Top	Tstg
PC APEC + Aluminium Coating with protective Clear Coat	-40°...170°C	-40°...170°C

Notes:

- Intensity (I) and illuminance (E) data are normalized by 1000 lm
- The optical values shown are the result of optical simulations carried out with ASAP and ZEMAX software systems. The optical simulations are carried out on the basis of the typical values provided in the LED manufacturers' official datasheets. The photometric analysis has been carried out on physical samples. On request, by supplying your PCB, we can provide the measurement photometric file.

Use and Maintenance

- DO NOT HANDLE OR INSTALL LENSES WITHOUT WEARING GLOVES, SKIN OILS MAY DAMAGE LENS OR LIGHT TRANSMISSION;
- CLEAN LENSES WITH MILD SOAP AND WATER AND A SOFT CLOTH;
- DO NOT USE ANY COMMERCIAL CLEANING SOLVENTS ON LENSES.

Disclaimer

Please note that flow lines and weld lines on the external surfaces of the lenses are acceptable if the optical performance of the lens is within the specifications.
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