

# A R C H I M E D E S



## UV COMPATIBLE REFLECTORS



**UV in high levels of exposure (from a UV source - LED) can be very destructive to typical optical thermoplastics (PMMA & Polycarbonate).**

Normal Ambient UV levels, such as those found in daylight, are not sufficiently high to cause damage to Carclo's UV stabilised PC or PMMA. Exposure to higher levels produced by UV LEDs requires more expensive glass or silicone optics.

Made from polycarbonate, the Archimedes has a reflective aluminium coating that serves as a barrier protecting it from the harmful effects of UV rays.

Carclo's Archimedes Reflectors have been tested with UV-C LEDs up to 70mW.

In summary, the Archimedes reflectors offer a low cost UV-C solution with high efficiency making them a great choice for your project.

12525   12526   12527   12528   12529   12530   12596

# A R C H I M E D E S

## UVCOMPATIBLE REFLECTORS

### UV-A : 315 - 400 Nanometers

Applications: Skin Treatments, Ink and Paint Curing

### UV-B : 280 - 315 Nanometers

Applications: Reptile Vivarium Lighting, Adhesive Curing

### UV-C : 100 - 280 Nanometers

Applications: Water, Air & Surface Disinfection

10,000 hours lab testing to date with Nichia NCSU334B UVC LED @ 350mA equating to 70mW.

### Also Available\*



12525 (clip)  
12526 (2x2)



12528 (clip)  
12529 (2x2)



12531 (self-locating)  
12532 (self-locating)

12596 (2x2)



\*Subject to MOQ



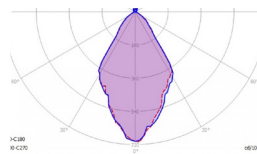
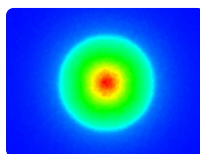
## 12527 • Wide Beam (UV-C)



We are constantly adding results for all our optics paired with the latest LEDs.

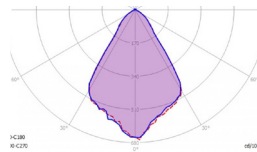
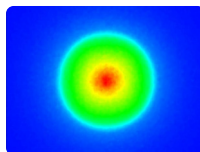
### Luminus Devices XBT 1313 UV Gen2

Eff: **82.2%** FWHM: **67°** Ipk/W: **0.9**



### Luminus Devices XBT 3535 UV

Eff: **84.3%** FWHM: **69°** Ipk/W: **0.8**

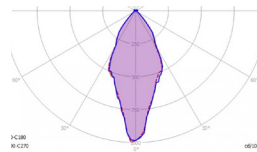
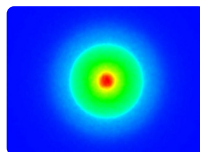


## 12530 • Medium Beam (UV-C)

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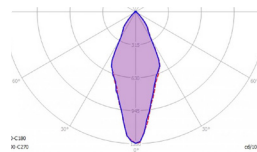
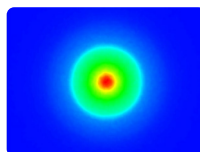
### Luminus Devices XBT 1313 UV Gen2

Eff: **76.1%** FWHM: **49°** Ipk/W: **1.3**



### Luminus Devices XBT 3535 UV

Eff: **79.5%** FWHM: **40°** Ipk/W: **1.6**





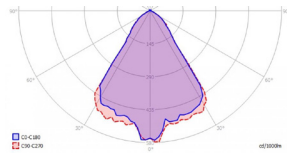
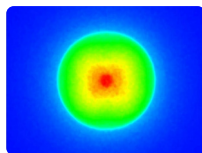
## 12527 • Wide Beam (UV-C)

**OSRAM**

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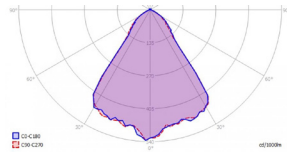
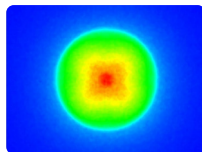
### Osram OS OSLO<sup>®</sup> UV 3636 SU CULBN1.VC

Eff: **84.6%** FWHM: **72°**  $I_{pk}/W$ : **0.7**



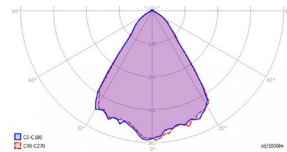
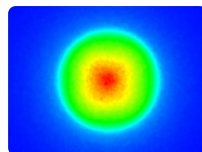
### Osram OS OSLO<sup>®</sup> UV 3636 SU CULCN1.VC

Eff: **85.3%** FWHM: **74°**  $I_{pk}/W$ : **0.6**



### Osram OS OSLO<sup>®</sup> UV 3636 SU CULDN1.VC

Eff: **85.1%** FWHM: **74°**  $I_{pk}/W$ : **0.7**





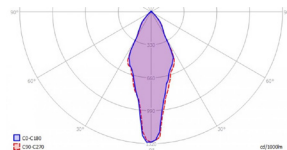
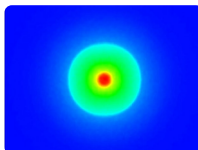
## 12530 • Medium Beam (UV-C)

**OSRAM**

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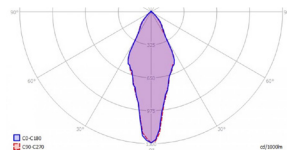
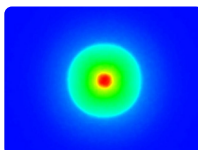
### Osram OS OSLO<sup>®</sup> UV 3636 SU CULBN1.VC

Eff: **79.7%** FWHM: **35°** Ipk/W: **1.7**



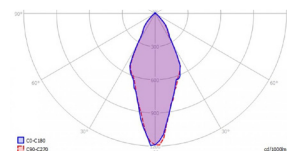
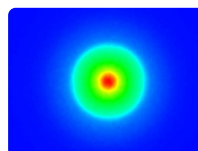
### Osram OS OSLO<sup>®</sup> UV 3636 SU CULCN1.VC

Eff: **80.5%** FWHM: **36°** Ipk/W: **1.6**



### Osram OS OSLO<sup>®</sup> UV 3636 SU CULDN1.VC

Eff: **80.2%** FWHM: **44°** Ipk/W: **1.5**





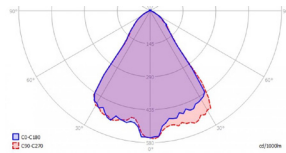
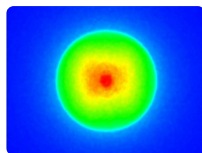
## 12527 • Wide Beam (UV-C)

**SAMSUNG**

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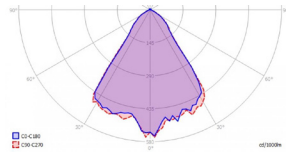
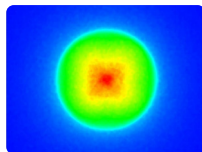
### Samsung UV 351A

Eff: **85.8%** FWHM: **74°**  $I_{pk}/W$ : **0.7**



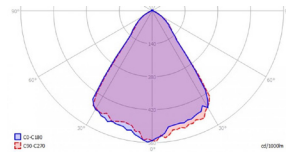
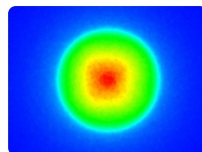
### Samsung 352B

Eff: **85.5%** FWHM: **74°**  $I_{pk}/W$ : **0.7**



### Samsung UV 353B

Eff: **86.1%** FWHM: **75°**  $I_{pk}/W$ : **0.7**





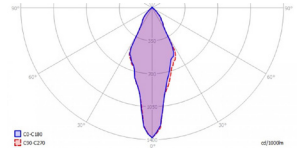
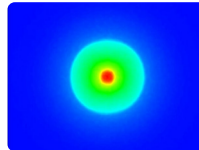
## 12530 • Medium Beam (UV-C)

**SAMSUNG**

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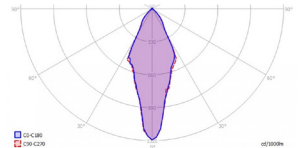
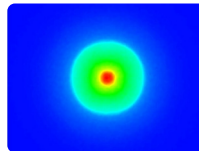
### Samsung UV 351A

Eff: **81.1%** FWHM: **33°** Ipk/W: **1.7**



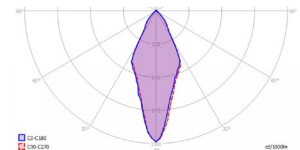
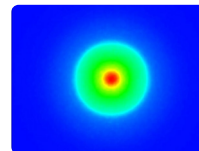
### Samsung UV 352B

Eff: **80.5%** FWHM: **36°** Ipk/W: **1.6**



### Samsung UV 353B

Eff: **81.3%** FWHM: **40°** Ipk/W: **1.6**





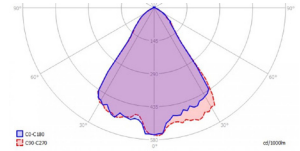
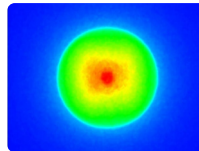
## 12527 • Wide Beam (UV-C)



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Seoul UV CA3535 CUD7GF1B

Eff: **84.7%** FWHM: **71°** Ipk/W: **0.8**



## 12530 • Medium Beam (UV-C)

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Seoul UV CA3535 CUD7GF1B

Eff: **80.0%** FWHM: **35°** Ipk/W: **1.7**

