

# CREE XR<sup>®</sup>, XR-E<sup>®</sup> & XR-C<sup>®</sup> 20mm range

| Part No. | Description            | White XR  |     |       | Red/Amber XR |     |       | Cyan/Green XR |     |       | White XR-E |     |       | White XR-C |     |       |
|----------|------------------------|---|-----|-------|--------------|-----|-------|---------------|-----|-------|------------|-----|-------|------------|-----|-------|
|          |                        | FWHM#   | EFF | Cd/lm | FWHM#        | EFF | Cd/lm | FWHM#         | EFF | Cd/lm | FWHM#      | EFF | Cd/lm | FWHM#      | EFF | Cd/lm |
| 10199    | Plain Tight            | 13  | 87% | 6.7   | 13           | 91% | 19    | 10            | 90% | 15.9  | 8.4        | 91% | 31    | 5.3        | 89% | 49    |
| 10200    | Frosted Narrow         | 16  | 87% | 5.6   | 14           | 91% | 15    | 13            | 90% | 9.0   | 10         | 90% | 17    | 9.6        | 86% | 19    |
| 10210    | Ripple Medium          | 25  | 89% | 3.0   | 16           | 90% | 7.7   | 18            | 91% | 5     | 16         | 88% | 6.9   | 12         | 87% | 9.5   |
| 10201    | Frosted Medium         | 23  | 87% | 2.8   | 21           | 89% | 5.3   | 22            | 89% | 3.26  | 20         | 89% | 4.2   | 18         | 84% | 4.4   |
| 10211    | Ripple Wide            | 47.9  | 84% | 1.4   | 24           | 86% | 2.5   | 41            | 84% | 2.1   | 44         | 86% | 1.8   | 42         | 86% | 1.6   |
| 10202    | Frosted Wide           | 35.6  | 81% | 1.8   | 36.2         | 88% | 1.6   | 36            | 89% | 1.5   | 36         | 84% | 2     | 39         | 81% | 1.97  |
| 10203    | Elliptical             | 39 x 16   | 85% | 3.2   | 37 x 14      | 90% | 4.7   | 47 x 12       | 89% | 3.44  | 41 x 10    | 90% | 5.1   | 41 x 8.4   | 84% | 7.1   |
| 10204    | Elliptical Orthogonal* | 16 x 39   | 85% | 3.2   | 14 x 37      | 90% | 4.7   | 13 x 48       | 89% | 31    | 10 x 41    | 90% | 5.1   | 8.4 x 41   | 84% | 7.1   |
| 10357    | Fibre                  | Optimised for coupling into 0.5NA fibre bundles of 8 - 12mm diameter In development |     |       |              |     |       |               |     |       |            |     |       |            |     |       |

\*Orthogonal is the elliptical beam turned through 90deg.

#Full Width Half Maximum i.e. total viewing angle



| Part No. | Colour | Description                   |
|----------|--------|-------------------------------|
| 10205    | Black  | Cree XR, XRE, XRC Holder      |
| 10206    | Clear  | Cree XR, XRE, XRC Holder      |
| 10207    | White  | Cree XR, XRE, XRC Holder      |
| 10276    | White  | 50mm Triple holder long leg   |
| 10286    | White  | 50 mm Triple holder short leg |
| 10296    | Black  | 50 mm Triple holder Long leg  |
| 10306    | Black  | 50 mm Triple holder short leg |



**Carclo Technical Plastics (Slough)**

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# CREE XR<sup>®</sup>, XR-E<sup>®</sup> & XR-C<sup>®</sup> 20mm assembled in 10205

| Part No. | Description            | White XR |     |       | Red/Amber XR |      |       | Cyan/Green XR |       |       | White XR-E |     |       | White XR-C |     |       |
|----------|------------------------|----------|-----|-------|--------------|------|-------|---------------|-------|-------|------------|-----|-------|------------|-----|-------|
|          |                        | FWHM#    | EFF | Cd/lm | FWHM#        | EFF  | Cd/lm | FWHM#         | EFF   | Cd/lm | FWHM#      | EFF | Cd/lm | FWHM#      | EFF | Cd/lm |
| 10861    | Plain Tight            | 13       | 87% | 6.7   | 13           | 91%  | 19    | 10            | 90%   | 15.9  | 8.4        | 91% | 31    | 5.3        | 89% | 49    |
| 10862    | Frosted Narrow         | 16       | 87% | 5.6   | 14           | 91%  | 15    | 12            | 90%   | 9.0   | 10         | 90% | 17    | 9.6        | 86% | 19    |
| 10863    | Ripple Medium          | 25       | 89% | 3.0   | 16           | 90%  | 7.7   | 15            | 90%   | 5.    | 16         | 88% | 6.9   | 12         | 87% | 9.5   |
| 10864    | Frosted Medium         | 23       | 87% | 2.8   | 21           | 89%  | 5.3   | 22            | 89%   | 3.26  | 20         | 89% | 4.2   | 18         | 84% | 4.4   |
| 10865    | Ripple Wide            | 44.8     | 86% | 1.8   | 24           | 86%  | 2.5   | 40            | 86%   | 1.53  | 44         | 86% | 1.8   | 41         | 86% | 1.6   |
| 10866    | Frosted Wide           | 36       | 84% | 2     | 36.2         | 88.% | 1.6   | 38            | 86.8% | 1.52  | 36         | 84% | 2     | 39         | 81% | 1.97  |
| 10867    | Elliptical             | 39 x 16  | 85% | 3.2   | 37 x 14      | 90%  | 4.7   | 40 x 13       | 89%   | 3.44  | 41 x 10    | 90% | 5.1   | 41 x 8.4   | 84% | 7.1   |
| 10868    | Elliptical Orthogonal* | 16 x 39  | 85% | 3.2   | 14 x 37      | 90%  | 4.7   | 13 x 40       | 89%   | 3.3   | 10 x 41    | 90% | 5.1   | 8.4 x 41   | 84% | 7.1   |

\*Orthogonal is the elliptical beam turned through 90deg.

#Full Width Half Maximum i.e. total viewing angle



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# CREE XR<sup>®</sup>, XR-E<sup>®</sup> & XR-C<sup>®</sup> 26.5mm range

| Part no. | Description           | Whgite XR |     |      | Red/Amber XR |     |      | Cyan/Green XR |     |      | White XR-E |     |      | White XR-C |     |      |
|----------|-----------------------|-----------|-----|------|--------------|-----|------|---------------|-----|------|------------|-----|------|------------|-----|------|
|          |                       | FWHM      | EFF | Cd/l | FWHM         | EFF | Cd/l | FWHM          | EFF | Cd/l | FWHM       | EFF | Cd/l | FWHM       | EFF | Cd/l |
| 10048    | Plain tight           |           |     |      |              |     |      |               |     |      |            |     |      |            |     |      |
| 10124    | friosted narrow       |           |     |      |              |     |      |               |     |      |            |     |      |            |     |      |
| 10108    | Frosted medium        |           |     |      |              |     |      |               |     |      |            |     |      |            |     |      |
| 10260    | Frosted Wide          |           |     |      |              |     |      |               |     |      |            |     |      |            |     |      |
| 10049    | Elliptical            |           |     |      |              |     |      |               |     |      |            |     |      |            |     |      |
| 10224    | Elliptical Orthogonal |           |     |      |              |     |      |               |     |      |            |     |      |            |     |      |
| 10234    | Elliptical Ramp Optic |           |     |      |              |     |      |               |     |      |            |     |      |            |     |      |

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 #Full Width Half Maximum i.e. total viewing angle

| Part No. | Colour | Description                         |
|----------|--------|-------------------------------------|
| 10455    | White  | Cree XR, XRE, XRC Holder 2mm legs   |
| 10475    | Black  | Cree XR, XRE, XRC Holder 4.3mm legs |
|          |        |                                     |
|          |        |                                     |
|          |        |                                     |
|          |        |                                     |
|          |        |                                     |



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