

## 20.0MM ELLIPTICAL ORTHOGONAL TIR

<b>Status</b>	Production
<b>Part no.</b>	10204
<b>Drawing no.</b>	60437
<b>Product type</b>	Optic
<b>Type</b>	TIR
<b>Pieces</b>	1
<b>Diameter</b>	20.0
<b>Height</b>	9.60
<b>Beam</b>	Elliptical Orthogonal
<b>Flange</b>	Yes
<b>Files</b>	<a href="#">Customer drawing (PDF)</a>



LEDs & Performances	Eff.	FWHM	Cd/lm	Spot	Cross-section	Files
Cree XR® XLamp® White	85.0%	8.8 x 45.6	6.2			
Cree XR-E® XLamp® White	90.0%	10 x 41	5.1			10204_cree_xre_white_250408.ies
Cree XR-C® XLamp® White	84.0%	8.4 x 41	7.1			
Avago Aveon Cool White	81.8%	10 x 47.5	4.5			10204_Avago_Aveon_cool white_250408.ies
Avago Moonstone Warm White	84.5%	20.3 x 45.0	2.3			10204_Avago_Moonstone_WarmWhite_250408.ies

Related Holders & LEDs	Avago Aveon Cool White	Avago Moonstone Warm White	Cree XR® XLamp® White	Cree XR-C® XLamp® White	Cree XR-E® XLamp® White
10205 20.0mm Circular Black			✓	✓	✓
10206 20.0mm Circular Clear			✓	✓	✓
10207 20.0mm Circular White			✓	✓	✓
10276 50.0mm Triple White			✓	✓	✓
10286 50.0mm Triple White			✓	✓	✓
10296 50.0mm Triple Black			✓	✓	✓
10306 50.0mm Circular Black			✓	✓	✓
10425 20.0mm Hexagonal Black			✓	✓	✓
10426 20.0mm Hexagonal Clear			✓	✓	✓
10427 20.0mm Hexagonal White			✓	✓	✓
10428 20.0mm Hexagonal Black			✓	✓	✓
10429 20.0mm Hexagonal Clear			✓	✓	✓
10430 20.0mm Hexagonal White			✓	✓	✓
47.313.5101.80 with 47.313.-320.80 20.0mm BJB Black				✓	✓

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## Handling instructions

- Do not handle or install lenses without wearing gloves, skin oils may damage the lens or the light transmission.
- Clean lenses with a mild soap and water and dry with a clean soft cloth.
- Do not use any commercial solvents on lenses.
- Mount holders with low Odour epoxy's and allow time for them to out gas to stop lenses fogging.

Please note that flow lines, weld lines, surface scratches and small black or white inclusions within the lenses are acceptable if the optical performance of the lens is within the specification described to +/-10%. FWHM-Full (beam) Width as measured at one Half of Maximum intensity, information shown in the catalogue are based on our laboratory's tests.

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