


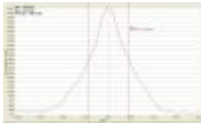





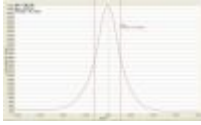

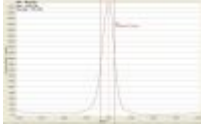

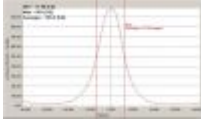
R0.5

## 20.0MM PLAIN TIGHT TIR

<b>Status</b>	Production
<b>Part no.</b>	10003
<b>Drawing no.</b>	60318
<b>Product type</b>	Optic
<b>Type</b>	TIR
<b>Pieces</b>	1
<b>Diameter</b>	20.0
<b>Height</b>	9.90
<b>Beam</b>	Plain Tight
<b>Flange</b>	Yes
<b>Files</b>	Customer drawing (PDF) Customer 3D model (.igs)



LEDs & Performances	Eff.	FWHM	Cd/lm	Spot	Cross-section	Files
Cree XP-G XLamp® White	87.9%	12.4	16.7			10003_cree_xpg_white_250408.ies
Cree MX-6 XLamp® White	90.2%	15	8.5			10003_cree_MX6_white_250408.ies
SSC Z1 White	87.1%	17.6	6.4			10003_Seoul_Z1_white_250408.ies
Osram Dragon Plus W5AM Dragon Cool White	88.2%	7.75	28.7			10003_Osram_Dragon_PLus_CoolWhite_250408.ies 10003_Osram_Dragon_PLus_CoolWhite_250408.ltd
SSC P4 Cool White	87.7%	9.5	12.5			10003_Seoul_P4_Cool_White_250408.ies
Osram Oslon SSL Oslon Ultra White	86.1%	7.2	33.8			10003_Oslon_wht_250408.ies 10003_Oslon_wht_250408.ltd
Nichia NCSL 119-H3 Top Emitting Warm White	88.8%	8.6	27.3			10003_Nichia_119_WarmWhite_250408.ies
SSC Z5 Cool White	88.0%	7.8	35.4			10003_Seoul_Z5_white_250408.ies
LedEngin 3W White	86.8%	11.0	10.0			10003_LedEngin_3W_white_250408.ies
LedEngin 5W White	85.7%	11.3	9.9			10003_LedEngin_5W_white_250408.ies

Luminus Devices SST-50 White	86.0%	18	5.5			10003_Luminus_SST50_White_250408.ies
Everlight Shuen Warm White	87.2%	12	17.5			10003_Shuen_wwht_250408.ies
Everlight Shuen Cool White	87.7%	11.1	16.7			10003_Shuen_cwht_250408.ies
Avago Jade Cool White	90.1%	11.3	12.0			10003_Avago_Jade_cool white_250408.ies
Lumileds C Luxeon Cool White	86.2%	5.8	58.4			10003_Luxeon C_white_250408.ies
SSC P4 New Cool White	86.2%	12.8	11.4			10003_Seoul_New_P4_Pure_White_250408.ies

Related Holders & LEDs	Avago Jade Cool White	Cree MX-6 XLamp® White	Cree XP-G XLamp® White	Everlight Shuen Cool White	Everlight Shuen Warm White	LedEngin 3W White	LedEngin 5W White	Lumileds Luxeon Cool White	Luminus Devices SST-50 White	Nichia NCSL 19-H3 Top Emitting Warm White	Osram Dragon Plus W5AM Dragon Cool White	Osram Oslon SSL Oslon Ultra White	SSC P4 Cool White	SSC P4 New Cool White	SSC Z1 White	SSC Z5 Cool White
10148 20.0mm Circular Black											✓					
10149 20.0mm Circular Clear											✓					
10150 20.0mm Circular White											✓					
10276 50.0mm Triple White											✓					
10286 50.0mm Triple White											✓					
10296 50.0mm Triple Black											✓					
10306 50.0mm Circular Black											✓					
10631 20.0mm Universal White	✓					✓				✓						
10632 20.0mm Universal White				✓	✓			✓				✓				
10634 20.0mm Universal White			✓													
10637 20.0mm Universal White		✓														
10651 20.0mm Universal White	✓					✓				✓						
10652 20.0mm Universal White				✓	✓			✓				✓				
10654 20.0mm Universal White			✓													
10657 20.0mm Universal White		✓														
10671 20.0mm Universal White	✓					✓				✓						
10672 20.0mm Universal White				✓	✓			✓				✓				
10674 20.0mm Universal White			✓													
10677 20.0mm Universal White		✓														
10691 20.0mm Universal Black	✓					✓				✓						
10692 20.0mm Universal Black				✓	✓			✓				✓				
10694 20.0mm Universal Black			✓													
10697 20.0mm Universal Black		✓														
10711 20.0mm Universal Black	✓					✓				✓						
10712 20.0mm Universal Black				✓	✓			✓				✓				
10714 20.0mm Universal Black			✓													
10717 20.0mm Universal Black		✓														
10731 20.0mm Universal Black	✓					✓				✓						
10732 20.0mm Universal Black				✓	✓			✓				✓				
10734 20.0mm Universal Black			✓													
10737 20.0mm Universal 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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