

R0.5

**20.0MM FROSTED WIDE TIR**

**Status** Production  
**Part no.** 10196  
**Drawing no.** 60461  
**Product type** Optic  
**Type** TIR  
**Pieces** 1  
**Diameter** 20.0  
**Height** 9.90  
**Beam** Frosted Wide  
**Flange** No  
**Files** [Customer drawing \(PDF\)](#)  
[Customer 3D model \(.igs\)](#)



LEDs & Performances	Eff.	FWHM	Cd/lm	Spot	Cross-section	Files
Lumileds Rebel Cool White	74.0%	35	2.0			10196_rebel_white_250408.ies
Lumileds Rebel Neutral White	78.2%	34.1	2.2			10196_rebel_neutral_white_250408.ies
Lumileds Rebel Warm White	75.6%	34.4	2.4			10196_rebel_warm_white_250408.ies
Cree MC-E XLamp® White	70.0%	45	1.4			10196_Cree_MCE_white_250408.ies
Cree XP-E XLamp® White	78.1%	31.5	2.5			10196_cree_xpe_white_250408.ies
Osram Golden Dragon W5SG Dragon White	84.0%	32	2.3			10196_Dragon_W5SG_White_250408.ies 10196_Dragon_W5SG_White_250408.ltd
Osram Platinum Dragon W5SN Dragon White	85.0%	31.7	2.3			10196_PlatoDragon_W5SN_wht_250408.ies 10196_PlatoDragon_W5SN_wht_250408.ltd
Osram Golden Dragon W5SM Dragon White	84.0%	32	2.3			10196_Dragon_W5SM_White_250408.ies 10196_Dragon_W5SM_White_250408.ltd
SSC A2 Acriche White	74.5%	35.8	1.9			10196_seoul_Acriche2000_cWhite_250408.ies
Nichia NFSW 036 Top Emitting Cool White	79.4%	32.8	2.2			10196_Nichia_036_CoolWhite_250408.ies
Nichia WS6W 083 Top Emitting Cool White	75.6%	37.4	1.7			10196_Nichia_083_CoolWhite_250408.ies
Nichia NS3W 183T Top Emitting White	80.9%	37	1.9			10196_Nichia_183_White_250408.ies

SSC P5-II RGB	77.3%	36.1	1.6			10196_seoul_P5_RGB_250408.ies
Stanley 1643 Cool White	77.9%	30.2	2.4			10196_SCW1643US_cool white_250408.ies
Stanley 1653 Warm White	79.2%	28.7	2.8			10196_SCW1653US_warm white_250408.ies
Samsung Sunnix WH5 White	79.5%	42.5	1.5			10196_Sunnix Samsung_SLHNN WH5_cWhite_250408.ies

Related Holders & LEDs	Cree MC-E XLamp® White	Cree XP-E XLamp® White	Lumileds Rebel Cool White	Lumileds Rebel Neutral White	Lumileds Rebel Warm White	Nichia NFSW 036 Top Emitting Cool White	Nichia NS3W 183T Top Emitting White	Nichia WS6W 083 Top Emitting Cool White	Osram Golden Dragon W5SG Dragon White	Osram Golden Dragon W5SM Dragon White	Osram Platinum Dragon W5SN Dragon White	Samsung Sunnix WH5 White	SSC A2 Acriche White	SSC P5-II RGB	Stanley 1643 Cool White	Stanley 1653 Warm White
10148 20.0mm Circular Black									✓	✓	✓					
10149 20.0mm Circular Clear									✓	✓	✓					
10150 20.0mm Circular White									✓	✓	✓					
10235 20.0mm Circular Black			✓	✓	✓											
10236 20.0mm Circular White			✓	✓	✓											
10237 20.0mm Circular Clear			✓	✓	✓											
10276 50.0mm Triple White	✓								✓	✓	✓					
10279 50.0mm Triple White		✓	✓	✓	✓	✓		✓								
10286 50.0mm Triple White	✓								✓	✓	✓					
10289 50.0mm Triple White		✓	✓	✓	✓	✓		✓								
10296 50.0mm Triple Black	✓								✓	✓	✓					
10299 50.0mm Triple Black		✓	✓	✓	✓	✓		✓								
10306 50.0mm Circular Black	✓								✓	✓	✓					
10309 50.0mm Triple Black		✓	✓	✓	✓	✓		✓								
10431 20.0mm Hexagonal Black			✓	✓	✓											
10432 20.0mm Hexagonal Clear			✓	✓	✓											
10433 20.0mm Hexagonal White			✓	✓	✓											
10434 20.0mm Hexagonal Black			✓	✓	✓											
10435 20.0mm Hexagonal Clear			✓	✓	✓											
10436 20.0mm Hexagonal White			✓	✓	✓											
10566 20.0mm Circular Black		✓				✓										
10567 20.0mm Circular White		✓				✓										
10568 20.0mm Circular Clear		✓				✓										
10615 20.0mm Circular Black								✓								
10616 20.0mm Circular Clear								✓								

