

R0.5

20.0MM FROSTED MEDIUM TIR

Status	Production
Part no.	10195
Drawing no.	60431
Product type	Optic
Type	TIR
Pieces	1
Diameter	20.0
Height	9.90
Beam	Frosted Medium
Flange	Yes
Comments	The +/- 10% specification does not apply to this part. The tolerance band for 10195 is +/- 20%. This is due to natural process variation within to the frosted surface finish.



Files	Customer 3D model (.igs) Customer drawing (PDF)
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LEDs & Performances	Eff.	FWHM	Cd/lm	Spot	Cross-section	Files
Lumileds Rebel Cool White	83.0%	19	5.0			10195_rebel_white_250408.ies
Lumileds Rebel Cool White	82.5%	18.1	5.8			10195_rebel_neutral_white_250408.ies
Lumileds Rebel Warm White	79.8%	17.7	6.5			10195_rebel_warm_white_250408.ies
Cree MC-E XLamp® White	78.0%	27.5	2.6			10195_Cree_MCE_white_250408.ies
Cree XP-E XLamp® White	82.9%	17.9	6.0			10195_cree_xpe_white_250408.ies
Osram Golden Dragon W5SG Dragon White	91.0%	21	4.8			10195_Dragon_W5SG_White_250408.Idt 10195_Dragon_W5SG_White_250408.ies
Osram Platinum Dragon W5SN Dragon White	85.0%	20	4.7			10195_PlattDragon_W5SN_wht_250408.Idt 10195_PlattDragon_W5SN_wht_250408.ies
Osram Golden Dragon W5SM Dragon White	86.0%	19	4.2			10195_Dragon_W5SM_White_250408.Idt 10195_Dragon_W5SM_White_250408.ies
SSC A2 Acriche White	80.3%	27.7	3.1			
Nichia NFSW 036 Top Emitting Cool White	84.4%	18.8	4.9			10195_Nichia_036_CoolWhite_250408.ies

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Nichia WS6W 083 Top Emitting Cool White	80.9%	22.8	3.8			10195_Nichia_083_CoolWhite_250408.ies
Nichia NS3W 183T Top Emitting White	85.2%	22.1	4.1			10195_Nichia_183_White_250408.ies
SSC P5-II RGB	86.5%	24.3	2.7			10195_seoul_P5_RGB_250408.ies
Stanley 1643 Cool White	81.1%	30.2	2.9			10195_SCW1643US_cool white_250408.ies
Stanley 1653 Warm White	82.1%	28.3	3.5			10195_SCW1653US_warm white_250408.ies
Samsung Sunnix WH5 White	83.8%	25.2	3.4			10195_Sunnix Samsung_SLHNN WH5_cWhite_250408.ies
Lumileds ES Rebel Cool White	79.7%	20.6	5.1			10195_Luxeon_Rebel_ES_cool_white_040311.ies

Related Holders & LEDs	Cree MC-E XLamp® White	Cree XP-E XLamp® White	Lumileds ES Rebel Cool 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	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	✓									✓	✓	✓				
10278 50.0mm Triple White									✓							
10279 50.0mm Triple White		✓	✓	✓	✓	✓	✓									
10286 50.0mm Triple White	✓									✓	✓	✓				
10288 50.0mm Triple White									✓							
10289 50.0mm Triple White		✓	✓	✓	✓	✓	✓									
10296 50.0mm Triple Black	✓									✓	✓	✓				
10298 50.0mm Triple Black									✓							
10299 50.0mm Triple Black		✓	✓	✓	✓	✓	✓									
10306 50.0mm Circular Black	✓									✓	✓	✓				
10308 50.0mm Triple Black									✓							

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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																				✓		
10617 20.0mm Circular White																				✓		
10631 20.0mm Universal White																				✓	✓	
10638 20.0mm Universal White																				✓		
10640 20.0mm Universal White																				✓		
10651 20.0mm Universal White																				✓	✓	
10658 20.0mm Universal White																				✓		
10660 20.0mm Universal White																				✓		
10671 20.0mm Universal White																				✓	✓	
10678 20.0mm Universal White																				✓		
10680 20.0mm Universal White																				✓		
10691 20.0mm Universal Black																				✓	✓	
10698 20.0mm Universal Black																				✓		
10700 20.0mm Universal Black																				✓		
10711 20.0mm Universal Black																				✓	✓	
10718 20.0mm Universal Black																				✓		
10720 20.0mm Universal Black																				✓		
10731 20.0mm Universal Black																				✓	✓	
10738 20.0mm Universal Black																				✓		
10740 20.0mm Universal Black																				✓		
47.313.1101.80 with 47.313.-320.80 20.0mm BJB Black																				✓	✓	✓
47.313.2401.80 with 47.313.320.80 20.0mm BJB Black																				✓	✓	✓
47.313.5201.80 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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