

R0.5

20.0MM RIPPLE MEDIUM TIR

Status	Production
Part no.	10003/15
Drawing no.	60347
Product type	Optic
Type	TIR
Pieces	1
Diameter	20.0
Height	9.90
Beam	Ripple Medium
Flange	Yes
Files	Customer drawing (PDF) Customer 3D model (.igs)



LEDs & Performances	Eff.	FWHM	Cd/lm	Spot	Cross-section	Files
Cree XP-G XLamp® White	85.7%	28.8	4.3			10003-15_cree_xpg_white_250408.ies
Cree MX-6 XLamp® White	89.5%	27.5	3.8			10003-15_cree_MX6_white_250408.ies
SSC Z1 White	83.8%	29.1	2.9			10003-15_Seoul_Z1_white_250408.ies
Osram Dragon Plus W5AM Dragon Cool White	86.3%	17.8	6.4			10003-15_Osram_Dragon_PLus_CoolWhite_250408.Idt 10003-15_Osram_Dragon_PLus_CoolWhite_250408.ies
SSC P4 Cool White	89.0%	27.3	3.4			10003-15_Seoul_P4_Cool_White_250408.ies
Osram Oslon SSL Oslon Ultra White	85.6%	28.6	5.2			10003-15_Oslon_wht_250408.Idt 10003-15_Oslon_wht_250408.ies
Nichia NCSL 119-H3 Top Emitting Warm White	87.4%	28	5.1			10003-15_Nichia_119_WarmWhite_250408.ies
SSC Z5 Cool White	87.8%	23.9	6.7			10003-15_Seoul_Z5_white_250408.ies
LedEngin 3W White	84.1%	28.8	3.1			10003-15_LedEngin_3W_white_250408.ies
LedEngin 5W White	84.1%	29.0	3.2			10003-15_LedEngin_5W_white_250408.ies

LED Model	Efficiency (%)	Beam Diameter (mm)	Beam Spread (mrad)	Beam Profile Image	Spectral Power Distribution Graph	File Name
Luminus Devices SST-50 White	84.8%	26.3	3.3			10003-15_Luminus_SST50_White_250408.ies
Everlight Shuen Warm White	85.0%	29.1	4.3			10003-15_Shuen_wwht_250408.ies
Everlight Shuen Cool White	85.4%	29.4	3.6			10003-15_Shuen_cwht_250408.ies
Avago Jade Cool White	90.7%	28.3	3.9			10003-15_Avago_Jade_cool white_250408.ies
Lumileds C Luxeon Cool White	85.2%	17.8	6.7			10003-15_Luxeon C_white_250408.ies
SSC P4 New Cool White	83.7%	25.7	4.0			10003-15_Seoul_New_P4_Pure_White_250408.ies
Cree XM-L White	85.0%	31.0	3.4			10003-15_Cree_XM-L_white_31-01-11.ies

Related Holders & LEDs	Avago Jade Cool White	Cree MX-6 XLamp® White	Cree XM-L White	Cree XP-G XLamp® White	Everlight Shuen Cool White	Everlight Shuen Warm White	LedEngin 3W White	LedEngin 5W White	Lumileds Luxeon Cool White	Lumileds Luxeon C 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													✓						
10273 50.0mm Triple White															✓	✓			
10276 50.0mm Triple White													✓						
10283 50.0mm Triple White															✓	✓			
10286 50.0mm Triple White													✓						
10293 50.0mm Triple Black															✓	✓			
10296 50.0mm Triple Black													✓						
10303 50.0mm Triple Black															✓	✓			
10306 50.0mm Circular Black													✓						
10363 20.0mm Circular Black															✓	✓			
10364 20.0mm Circular White															✓	✓			
10365 20.0mm Circular Clear															✓	✓			
10630 20.0mm Universal White																			✓

10631 20.0mm Universal White	✓					✓			✓									
10632 20.0mm Universal White					✓	✓		✓				✓						
10634 20.0mm Universal White				✓														
10637 20.0mm Universal White		✓																
10650 20.0mm Universal White																		✓
10651 20.0mm Universal White	✓																	
10652 20.0mm Universal White					✓	✓		✓										✓
10654 20.0mm Universal White				✓														
10657 20.0mm Universal White		✓																
10670 20.0mm Universal White																		✓
10671 20.0mm Universal White	✓																	
10672 20.0mm Universal White					✓	✓		✓										✓
10674 20.0mm Universal White				✓														
10677 20.0mm Universal White		✓																
10690 20.0mm Universal Black																		✓
10691 20.0mm Universal Black	✓																	
10692 20.0mm Universal Black					✓	✓		✓										✓
10694 20.0mm Universal Black				✓														
10697 20.0mm Universal Black		✓																
10710 20.0mm Universal Black																		✓
10711 20.0mm Universal Black	✓																	
10712 20.0mm Universal Black					✓	✓		✓										✓
10714 20.0mm Universal Black				✓														
10717 20.0mm Universal Black		✓																
10730 20.0mm Universal Black																		✓
10731 20.0mm Universal Black	✓																	
10732 20.0mm Universal Black					✓	✓		✓										✓
10734 20.0mm Universal Black				✓														
10737 20.0mm Universal Black		✓																
47.313.5001.80 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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