

## 20.0mm Wide Spot Frosted TIR (10140)





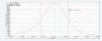







































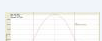


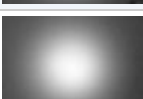












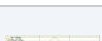



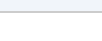



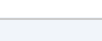





Part no.	10140	Drawing no.	60460
Family	20mm	Type	TIR
Diameter	20.0	Beam	Wide Spot
Finish	Frosted		

































































### LEDs & Performances

Select LED to view available holders

Manu.	LED	Performance Data	Spot	Cross section	File
	<a href="#">Avago Jade White</a>	Eff: 82.2 FWHM: 32 Cd/lm: 2.5			
	<a href="#">Cree XLamp MH-B White</a>	Eff: 80 FWHM: 48 Cd/lm: 0.88			
	<a href="#">Cree XLamp MX-6 White</a>	Eff: 79.1 FWHM: 36 Cd/lm: 2.2			
	<a href="#">Cree XLamp XB-D White</a>	FWHM: 28 Cd/lm: 3.6			
	<a href="#">Cree XLamp XHP-50 White</a>	Eff: 79.5 FWHM: 47 Cd/lm: 0.94			
	<a href="#">Cree XLamp XHP35 HI White</a>	Eff: 79 FWHM: 31 Cd/lm: 2.3			
	<a href="#">Cree XLamp XHP35 White</a>	Eff: 78.8 FWHM: 33 Cd/lm: 1.8			
	<a href="#">Cree XLamp XM-L White</a>	Eff: 78.3 FWHM: 34 Cd/lm: 2.3			
	<a href="#">Cree XLamp XM-L2 White</a>	FWHM: 33 Cd/lm: 2.5			

 <a href="#">Cree XLamp XP-C White</a>	Eff: 80.9 FWHM: 25 Cd/lm: 3.7			
 <a href="#">Cree XLamp XP-E2 White</a>	FWHM: 31 Cd/lm: 3.4			
 <a href="#">Cree XLamp XP-G White</a>	Eff: 79.1 FWHM: 31 Cd/lm: 2.6			
 <a href="#">Cree XLamp XP-G2 White</a>	FWHM: 28 Cd/lm: 3.5			
 <a href="#">Cree XLamp XP-L HI White</a>	Eff: 79.3 FWHM: 29 Cd/lm: 2.5			
 <a href="#">Cree XLamp XP-L White</a>	Eff: 79.6 FWHM: 30 Cd/lm: 2.2			
 <a href="#">Cree XLamp XQ-E HI White</a>	Eff: 80 FWHM: 30 Cd/lm: 2.56			
 <a href="#">Cree XLamp XQ-E White</a>	Eff: 79 FWHM: 30 Cd/lm: 2.4			
 <a href="#">Cree XLamp XT-E White</a>	FWHM: 30 Cd/lm: 5.8			
 <a href="#">Everlight Shuen White</a>	Eff: 81.2 FWHM: 34 Cd/lm: 2.2			
 <a href="#">LEDEngin 3W White</a>	Eff: 76.9 FWHM: 39 Cd/lm: 1.7			
 <a href="#">LEDEngin 5W White</a>	Eff: 77.3 FWHM: 38 Cd/lm: 1.7			
 <a href="#">LUMILEDS LUXEON 3535 HV White</a>	Eff: 78.9 FWHM: 29 Cd/lm: 2.56			
 <a href="#">LUMILEDS LUXEON 3535 L White</a>	Eff: 78.7 FWHM: 32 Cd/lm: 2.27			
 <a href="#">LUMILEDS LUXEON C White</a>	Eff: 79.5 FWHM: 27 Cd/lm: 3.2			
 <a href="#">LUMILEDS LUXEON Flip Chip 05 White</a>	Eff: 79 FWHM: 33 Cd/lm: 2.09			
 <a href="#">LUMILEDS LUXEON MZ White</a>	Eff: 79.1 FWHM: 49 Cd/lm: 0.98			
 <a href="#">LUMILEDS LUXEON Q White</a>	Eff: 78.8 FWHM: 31 Cd/lm: 2.3			

 <a href="#">LUMILEDS LUXEON TX White</a>	Eff: 79.5 FWHM: 30 Cd/lm: 2.4			
 <a href="#">LUMILEDS LUXEON Z ES White</a>	FWHM: 26 Cd/lm: 3.2			
 <a href="#">LUMILEDS LUXEON Z White</a>	Eff: 79.34 FWHM: 28 Cd/lm: 2.85			
 <a href="#">Luminus Devices SST-50 White</a>	Eff: 75 FWHM: 49 Cd/lm: 1.1			
 <a href="#">Nichia 219 White</a>	FWHM: 32 Cd/lm: 6.6			
 <a href="#">Nichia Top Emitting NCSL 119-H3 White</a>	Eff: 81.4 FWHM: 30 Cd/lm: 3.1			
 <a href="#">Osram DURIS S5 White</a>	Eff: 79 FWHM: 30 Cd/lm: 2.46			
 <a href="#">Osram DURIS® E3 White</a>	Eff: 83 FWHM: 27 Cd/lm: 3.1			
 <a href="#">Osram DURIS® S2 White</a>	Eff: 85.3 FWHM: 28 Cd/lm: 3			
 <a href="#">Osram GOLDEN DRAGON PLUS® W5AM White</a>	Eff: 78.9 FWHM: 37 Cd/lm: 1.9			
 <a href="#">Osram OSLON® Square White</a>	Eff: 78 FWHM: 30 Cd/lm: 2.39			
 <a href="#">Osram OSLON® SSL 150 degree White</a>	Eff: 82.9 FWHM: 23 Cd/lm: 4.5			
 <a href="#">Osram OSLON® SSL 80 degree White</a>	Eff: 78.5 FWHM: 31 Cd/lm: 2.7			
 <a href="#">Samsung 3535 LH351A White</a>	FWHM: 29 Cd/lm: 3.5			
 <a href="#">Samsung 3535 LH351Z White</a>	Eff: 78.5 FWHM: 31 Cd/lm: 2.31			
 <a href="#">Seoul MidPower MJT3030 White</a>	Eff: 78.5 FWHM: 32 Cd/lm: 2.2			
 <a href="#">Seoul MidPower MJT4040 White</a>	Eff: 79 FWHM: 38 Cd/lm: 1.6			
 <a href="#">Seoul P4 White</a>	Eff: 79.64 FWHM: 27 Cd/lm: 2.77			

 <a href="#">Seoul P4 White</a>	Eff: 78.3 FWHM: 39 Cd/lm: 1.8			
 <a href="#">Seoul SZ8Y15 White</a>	Eff: 80 FWHM: 33 Cd/lm: 1.93			
 <a href="#">Seoul SZ8Y19 White</a>	Eff: 80 FWHM: 34 Cd/lm: 1.81			
 <a href="#">Seoul Z - Power Z5 M1 White</a>	Eff: 78.6 FWHM: 35 Cd/lm: 1.92			
 <a href="#">Seoul Z - Power Z5M White</a>	FWHM: 33 Cd/lm: 2.7			
 <a href="#">SSC Z - Power Z1 White</a>	Eff: 76.4 FWHM: 43 Cd/lm: 1.4			
 <a href="#">SSC Z - Power Z5 White</a>	Eff: 80.8 FWHM: 26 Cd/lm: 3.3			
 <a href="#">SSC Z - Power Z5P White</a>	FWHM: 27 Cd/lm: 3.5			
 <a href="#">Stanley 1N White</a>	FWHM: 43 Cd/lm: 1.7			
 <a href="#">Stanley 3A White</a>	Eff: 79.4 FWHM: 31 Cd/lm: 2.4			
 <a href="#">Toshiba TL 1L2 White</a>	Eff: 78 FWHM: 31 Cd/lm: 2.3			
 <a href="#">Toshiba TL 1L2 White</a>	Eff: 79 FWHM: 31 Cd/lm: 2.26	