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 [sales@carclo-optics.com](mailto:sales@carclo-optics.com)

 +44 1753 575 011



## 20.0mm Medium Spot Frosted TIR (10201)



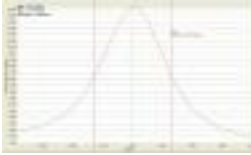


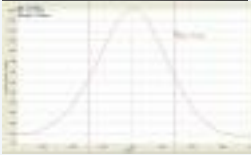


Part no.	10201
Drawing no.	60434
Family	20mm
Type	TIR
Diameter	20.0
Beam	Medium Spot
Finish	Frosted



## LEDs & Performances

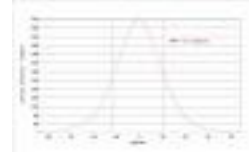
Select LED to view available holders

Manu.	Performance Data	Images	IES/STP
 <a href="#">Avago Moonstone RGB</a>	Eff: 81 FWHM: 26 Cd/lm: 2.7	 	<a href="#">View</a>
 <a href="#">Avago Moonstone White</a>	Eff: 82.8 FWHM: 28 Cd/lm: 2.4	 	<a href="#">View</a>



[Cree XLamp CSP XD16 Cool White](#)

Eff: 84.5  
FWHM: 23  
Cd/lm: 3.3

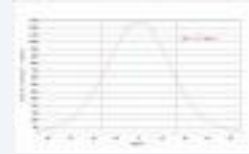


[View](#)



[Cree XLamp XHP-50 Gen 2 White](#)

Eff: 85.5  
FWHM: 33  
Cd/lm: 1.9

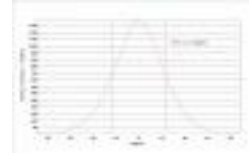


[View](#)



[Cree XLamp XHP35 HI White](#)

Eff: 86.8  
FWHM: 24  
Cd/lm: 3

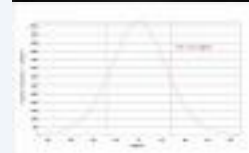


[View](#)



[Cree XLamp XHP35 White](#)

Eff: 86  
FWHM: 28  
Cd/lm: 2.32

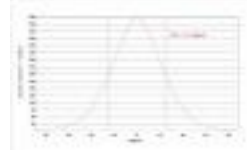


[View](#)



[Cree XLamp XP-G3 White](#)

Eff: 87  
FWHM: 25  
Cd/lm: 2.81

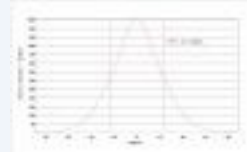


[View](#)



[Cree XLamp XP-L HI White](#)

Eff: 86.9  
FWHM: 23  
Cd/lm: 3.2

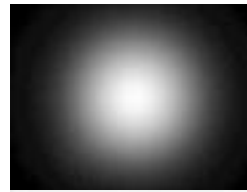


[View](#)



[Cree XLamp XP-L White](#)

Eff: 86.5  
FWHM: 27  
Cd/lm: 2.6



[View](#)

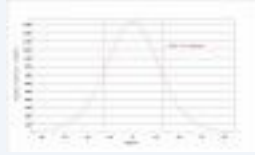


[Cree XLamp XP-L2 White](#)

Eff: 85  
FWHM: 27  
Cd/lm: 2.7

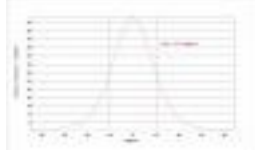


[View](#)



[Cree XLamp XQ-A Blue](#)

Eff: 86  
FWHM: 21  
Cd/lm: 4.3

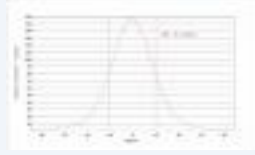
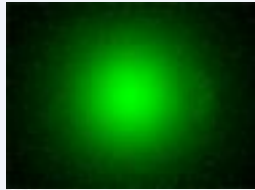


[View](#)



[Cree XLamp XQ-A Green](#)

Eff: 86  
FWHM: 21  
Cd/lm: 4.4

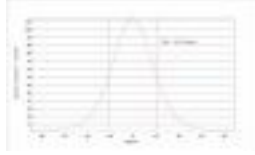


[View](#)



[Cree XLamp XQ-A Red](#)

Eff: 86.5  
FWHM: 21  
Cd/lm: 4.4

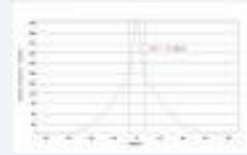


[View](#)



[Cree XLamp XQ-A White](#)

Eff: 87  
FWHM: 8  
Cd/lm: 6.96



[View](#)



[Cree XLamp XQ-E HI Blue](#)

Eff: 84  
FWHM: 22  
Cd/lm: 3.6

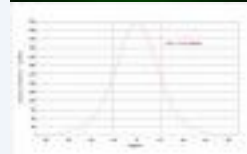


[View](#)



[Cree XLamp XQ-E HI Green](#)

Eff: 84  
FWHM: 22  
Cd/lm: 3.5

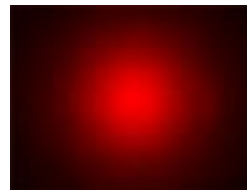


[View](#)

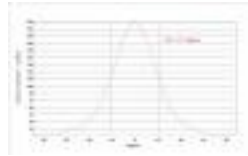


[Cree XLamp XQ-E HI Red](#)

Eff: 84.5  
FWHM: 22  
Cd/lm: 3.7



[View](#)

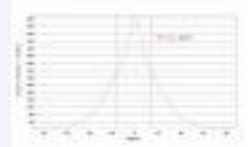


[Cree XLamp XQ-E HI White](#)

Eff: 87  
FWHM: 15  
Cd/lm: 4.22



[View](#)



[Cree XLamp XR White](#)

Eff: 87  
FWHM: 23  
Cd/lm: 2.8



[Cree XLamp XR-C White](#)

Eff: 84  
FWHM: 18  
Cd/lm: 4.4



[Cree XLamp XR-E White](#)

Eff: 83  
FWHM: 20  
Cd/lm: 4.2

[View](#)

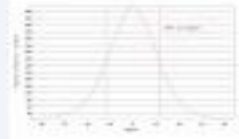


[Cree XLamp XT-E HE White](#)

Eff: 86  
FWHM: 14  
Cd/lm: 9.2



[View](#)



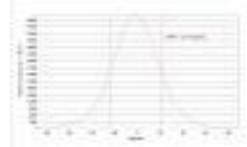
**LITEON**

[Lite-On R38386AS - S R38 IR](#)

Eff: 90  
FWHM: 23  
Cd/lm: 4.2



[View](#)



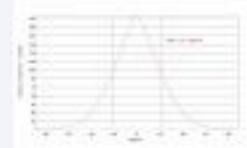
**LUMILEDS**

[LUMILEDS LUXEON 3030 White](#)

Eff: 85  
FWHM: 22  
Cd/lm: 3.33



[View](#)



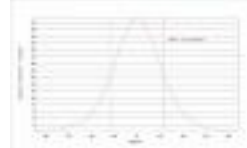
**LUMILEDS**

[LUMILEDS LUXEON 3535L Blue](#)

Eff: 85  
FWHM: 24  
Cd/lm: 3.5



[View](#)



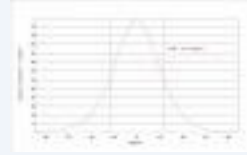
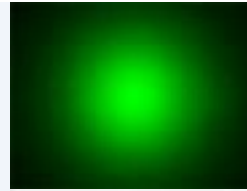
Eff: 85





FWHM: 24  
Cd/lm: 3.4

[LUMILEDS LUXEON 3535L Green](#)

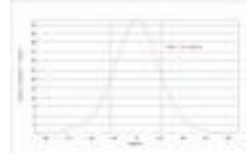
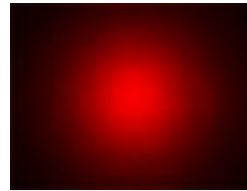


[View](#)



Eff: 86  
FWHM: 22  
Cd/lm: 3.9

[LUMILEDS LUXEON 3535L Red](#)

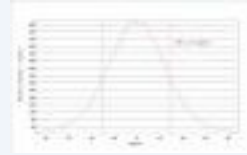


[View](#)



Eff: 86.5  
FWHM: 30  
Cd/lm: 2.5

[LUMILEDS LUXEON 5050 White](#)



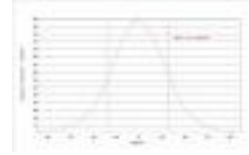
[View](#)

Eff: 83



[LUMILEDS LUXEON C Blue](#)

FWHM: 27  
Cd/lm: 2.8

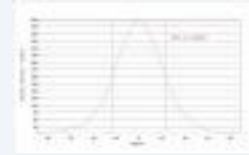


[View](#)



[LUMILEDS LUXEON C Lime](#)

Eff: 83.5  
FWHM: 24  
Cd/lm: 3.4

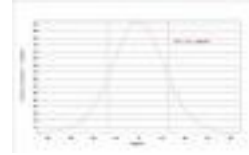


[View](#)



[LUMILEDS LUXEON C Red](#)

Eff: 82.5  
FWHM: 27  
Cd/lm: 2.8

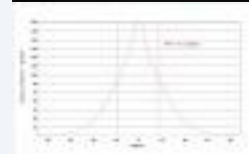


[View](#)



[LUMILEDS LUXEON CSP 05 White](#)

Eff: 86  
FWHM: 18  
Cd/lm: 3.03

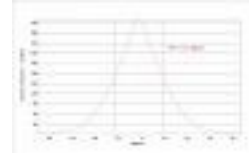


[View](#)



[LUMILEDS LUXEON CSP 10 White](#)

Eff: 85  
FWHM: 22  
Cd/lm: 2.52

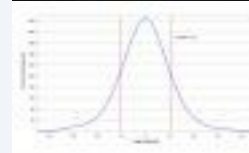


[View](#)



[LUMILEDS LUXEON CZ](#)

Eff: 86  
FWHM: 22  
Cd/lm: 4.3

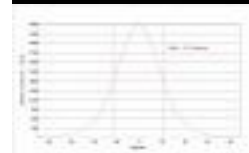


[View](#)



[LUMILEDS LUXEON IR Compact 850nm](#)

Eff: 88.5  
FWHM: 22  
Cd/lm: 4

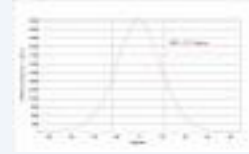


[View](#)



[LUMILEDS LUXEON IR Domed 150 Degree](#)

Eff: 89  
FWHM: 23  
Cd/lm: 4

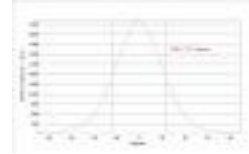


[View](#)



[LUMILEDS LUXEON IR Domed 60 Degree](#)

Eff: 88.5  
FWHM: 24  
Cd/lm: 3.8

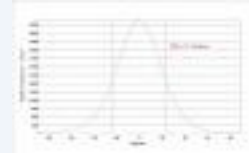


[View](#)



[LUMILEDS LUXEON IR Domed 90 Degree](#)

Eff: 89  
FWHM: 23  
Cd/lm: 4.2



[View](#)



[LUMILEDS LUXEON MZ White](#)

Eff: 86.2  
FWHM: 29  
Cd/lm: 2.4

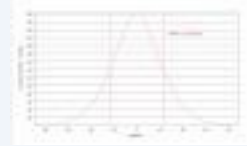


[View](#)



[LUMILEDS LUXEON Q White](#)

Eff: 86.8  
FWHM: 23  
Cd/lm: 2.8

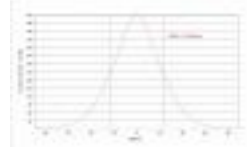


[View](#)



[LUMILEDS LUXEON TX White](#)

Eff: 87  
FWHM: 23  
Cd/lm: 3.1

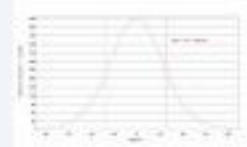


[View](#)



[LUMILEDS LUXEON V White](#)

Eff: 83.5  
FWHM: 27  
Cd/lm: 2.6



[View](#)



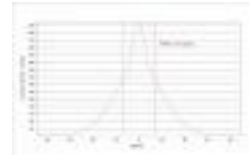
Eff: 86.5  
FWHM: 14



[View](#)

[LUMILEDS LUXEON Z White](#)

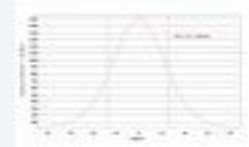
Cd/lm: 4.57





[Nichia 229A White](#)

Eff: 84.5  
FWHM: 27  
Cd/lm: 2.7

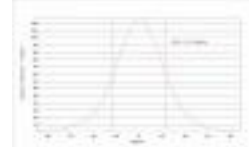


[View](#)



[Nichia 757G White](#)

Eff: 86  
FWHM: 24  
Cd/lm: 3.5

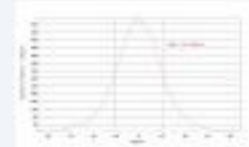


[View](#)



[Nichia NCSW E17A White](#)

Eff: 84.5  
FWHM: 22  
Cd/lm: 14.9



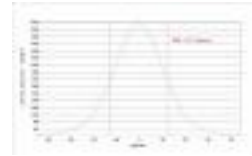
[View](#)





[Nichia NF2W 385AR-V2 White](#)

Eff: 86  
FWHM: 25  
Cd/lm: 3.3

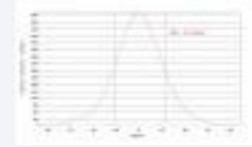


[View](#)



[Nichia NVSL 219B White](#)

Eff: 83  
FWHM: 23  
Cd/lm: 3.5

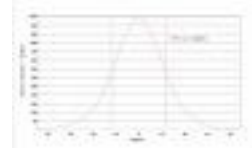


[View](#)



[Nichia NVSW 219C White](#)

Eff: 86  
FWHM: 16  
Cd/lm: 3.3

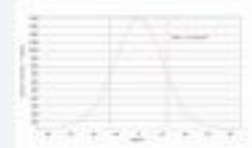


[View](#)



[Nichia NVSW 319A White](#)

Eff: 84.5  
FWHM: 25  
Cd/lm: 3

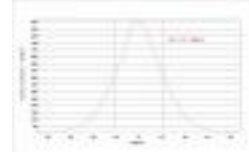


[View](#)



[Nichia NVSW E21A White](#)

Eff: 86  
FWHM: 22  
Cd/lm: 3.3

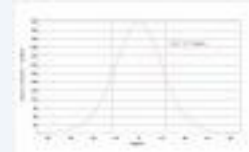


[View](#)



[Osram OS DURIS E 2835 White](#)

Eff: 86.5  
FWHM: 24  
Cd/lm: 3.5

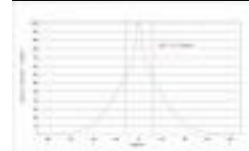


[View](#)



[Osram OS DURIS E2 White](#)

Eff: 87  
FWHM: 13  
Cd/lm: 4.42



[View](#)



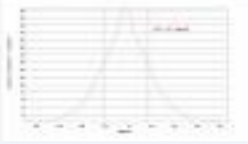
[Osram OS DURIS E3 White](#)

Eff: 90  
FWHM: 19  
Cd/lm: 4



[View](#)





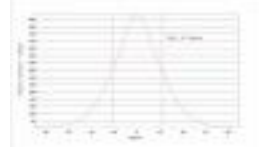
**OSRAM**  
Opto Semiconductors

[Osram OS DURIS P8 White](#)

Eff: 86.8  
FWHM: 22  
Cd/lm: 3.2



[View](#)



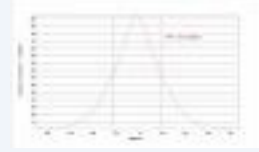
**OSRAM**  
Opto Semiconductors

[Osram OS DURIS S2 White](#)

Eff: 92.1  
FWHM: 21  
Cd/lm: 3.3



[View](#)



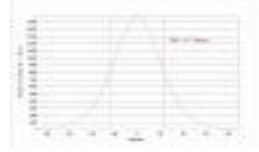
**OSRAM**  
Opto Semiconductors

[Osram OS DURIS S5 Deep Blue](#)

Eff: 85.5  
FWHM: 25  
Cd/lm: 3.5



[View](#)

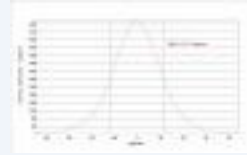
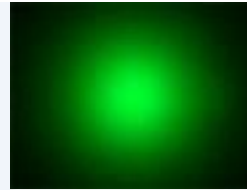


Eff: 87

**OSRAM**  
Opto Semiconductors

[Osram OS DURIS S5 Green](#)

FWHM: 23  
Cd/lm: 3.7

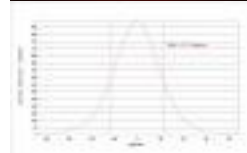


[View](#)

**OSRAM**  
Opto Semiconductors

[Osram OS DURIS S5 Red](#)

Eff: 87  
FWHM: 23  
Cd/lm: 3.9

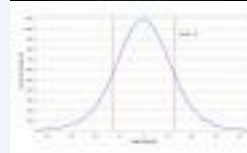


[View](#)

**OSRAM**  
Opto Semiconductors

[Osram OS Osconiq P3737 White](#)

Eff: 83.5  
FWHM: 28  
Cd/lm: 2.9



[View](#)

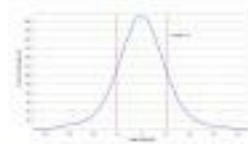
**OSRAM**  
Opto Semiconductors

[Osram OS OSOLON Pure CSP GW VJLPE 1  
White](#)

Eff: 85  
FWHM: 21  
Cd/lm: 4.2



[View](#)



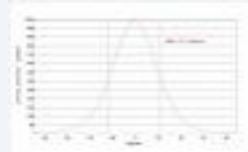
**OSRAM**  
Opto Semiconductors

[Osram OS OSLON Square Flat White](#)

Eff: 85  
FWHM: 23  
Cd/lm: 3.8



[View](#)



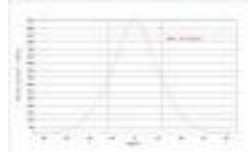
**OSRAM**  
Opto Semiconductors

[Osram OS OSLON Square Gen 3 White](#)

Eff: 86.6  
FWHM: 23  
Cd/lm: 3.2



[View](#)



**OSRAM**  
Opto Semiconductors

[Osram OS OSLON Square White](#)

Eff: 86  
FWHM: 22  
Cd/lm: 3.27



[View](#)



Eff: 87.5



[Samsung 3535 LH351D White](#)

FWHM: 28  
Cd/lm: 3

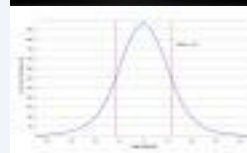


[View](#)



[Samsung CSP LH181B White](#)

Eff: 86.5  
FWHM: 24  
Cd/lm: 3.5

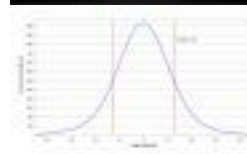


[View](#)



[Samsung CSP LH231B White](#)

Eff: 86  
FWHM: 25 x 24  
Cd/lm: 3.2

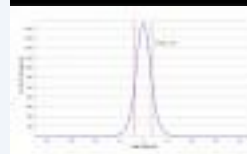
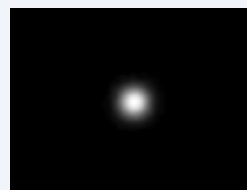


[View](#)



[Samsung CSP LM101B White](#)

Eff: 86.5  
FWHM: 7  
Cd/lm: 40.2

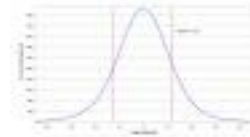


[View](#)



[Seoul CSP SZ8Y22 White](#)

Eff: 83.5  
FWHM: 25  
Cd/lm: 3

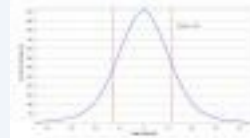


[View](#)



[Seoul CSP SZ8Y22P White](#)

Eff: 83  
FWHM: 25  
Cd/lm: 3

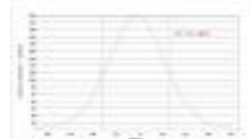


[View](#)



[Seoul P4 White](#)

Eff: 85.5  
FWHM: 29  
Cd/lm: 2.38

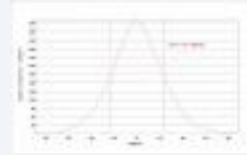


[View](#)



[Seoul SZ8Y19 White](#)

Eff: 88  
FWHM: 24  
Cd/lm: 2.68

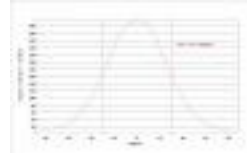
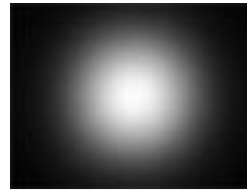


[View](#)



[Stanley 6J White](#)

Eff: 87  
FWHM: 31  
Cd/lm: 2

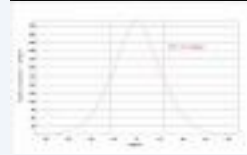


[View](#)



[Toshiba TL 1L2 White](#)

Eff: 87  
FWHM: 23  
Cd/lm: 3

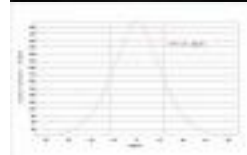


[View](#)



[Toshiba TL 1L4 White](#)

Eff: 86  
FWHM: 24  
Cd/lm: 3.1



[View](#)

