



Products | Custom Design | Media | Optic Types | Where To Buy | Contact Us

 sales@carclo-optics.com

 +44 1753 575 011



20.0mm Wide Spot Frosted TIR (10202)





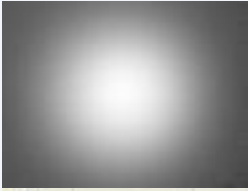
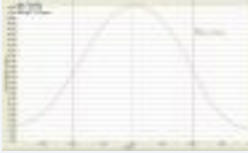


Part no.	10202
Drawing no.	60462
Family	20mm
Type	TIR
Diameter	20.0
Beam	Wide Spot
Finish	Frosted



LEDs & Performances

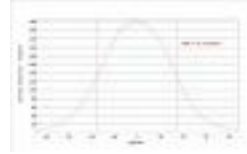
Select LED to view available holders

Manu.	Performance Data	Images	IES/STP
 Avago Moonstone RGB	Eff: 76.7 FWHM: 38 Cd/lm: 1.4	 	View
 Avago Moonstone White	Eff: 80.6 FWHM: 40 Cd/lm: 1.4	 	View



[Cree XLamp CSP XD16 Cool White](#)

Eff: 84
FWHM: 35
Cd/lm: 1.7

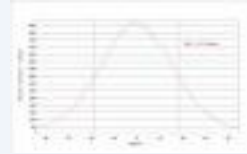


[View](#)



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

Eff: 84
FWHM: 37
Cd/lm: 1.4

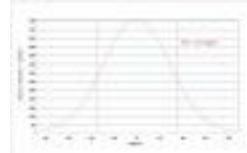
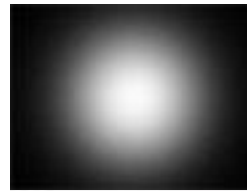


[View](#)



[Cree XLamp XHP35 HI White](#)

Eff: 85.6
FWHM: 35
Cd/lm: 1.7



[View](#)



[Cree XLamp XHP35 White](#)

Eff: 85
FWHM: 35
Cd/lm: 1.62

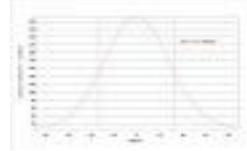


[View](#)



[Cree XLamp XP-G3 White](#)

Eff: 86
FWHM: 34
Cd/lm: 1.7

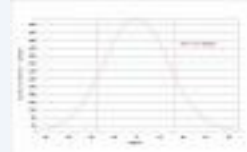
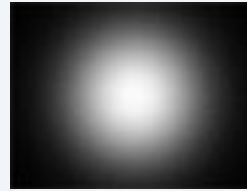


[View](#)



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

Eff: 85.9
FWHM: 34
Cd/lm: 1.8

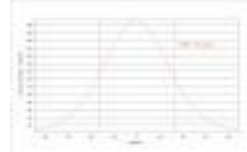


[View](#)



[Cree XLamp XP-L White](#)

Eff: 85.5
FWHM: 33
Cd/lm: 1.8



[View](#)

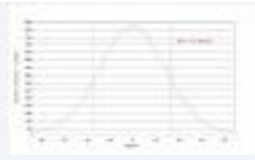


[Cree XLamp XP-L2 White](#)

Eff: 84.5
FWHM: 34
Cd/lm: 1.7

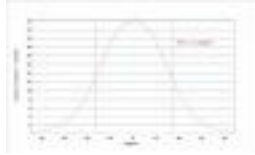


[View](#)



[Cree XLamp XQ-A Blue](#)

Eff: 86
FWHM: 34
Cd/lm: 2.1

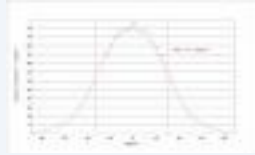
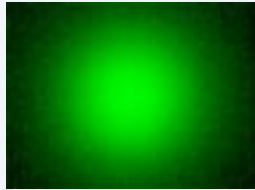


[View](#)



[Cree XLamp XQ-A Green](#)

Eff: 86
FWHM: 32
Cd/lm: 2.2

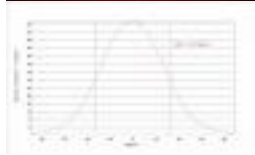


[View](#)



[Cree XLamp XQ-A Red](#)

Eff: 86.5
FWHM: 33
Cd/lm: 2.2

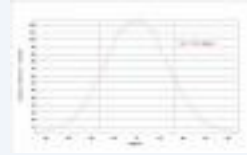


[View](#)



[Cree XLamp XQ-A White](#)

Eff: 86
FWHM: 33
Cd/lm: 1.99



[View](#)



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

Eff: 84
FWHM: 33
Cd/lm: 1.9



[View](#)



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

Eff: 84
FWHM: 33
Cd/lm: 1.9

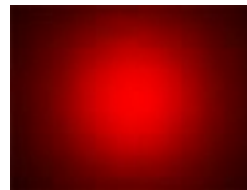


[View](#)

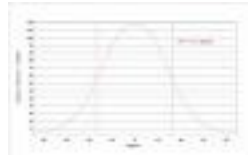


[Cree XLamp XQ-E HI Red](#)

Eff: 84
FWHM: 34
Cd/lm: 1.8



[View](#)

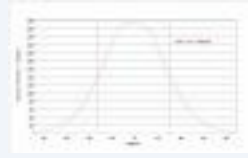


[Cree XLamp XQ-E HI White](#)

Eff: 87
FWHM: 32
Cd/lm: 1.92



[View](#)



[Cree XLamp XR White](#)

Eff: 81
FWHM: 36
Cd/lm: 1.8



[Cree XLamp XR-C White](#)

Eff: 81
FWHM: 39
Cd/lm: 2

[View](#)



[Cree XLamp XR-E White](#)

Eff: 84
FWHM: 36
Cd/lm: 2

[View](#)

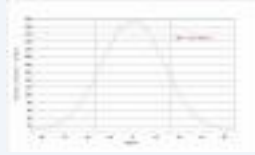


[Cree XLamp XT-E HE White](#)

Eff: 85
FWHM: 33
Cd/lm: 2



[View](#)



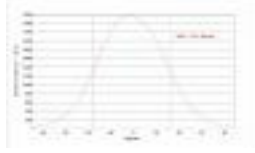
LITEON

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

Eff: 90
FWHM: 35
Cd/lm: 2.2



[View](#)



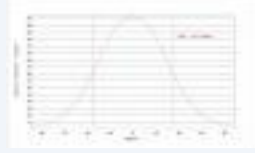
LUMILEDS

[LUMILEDS LUXEON 3030 White](#)

Eff: 84
FWHM: 35
Cd/lm: 1.65



[View](#)



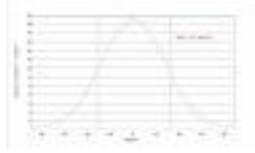
LUMILEDS

[LUMILEDS LUXEON 3535L Blue](#)

Eff: 85
FWHM: 33
Cd/lm: 2



[View](#)

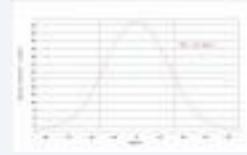
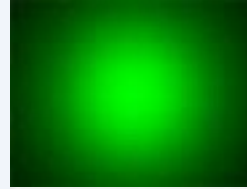


Eff: 85



FWHM: 33
Cd/lm: 2

[LUMILEDS LUXEON 3535L Green](#)

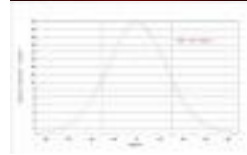


[View](#)



Eff: 86
FWHM: 31
Cd/lm: 2.3

[LUMILEDS LUXEON 3535L Red](#)



[View](#)



Eff: 85
FWHM: 38
Cd/lm: 1.6

[LUMILEDS LUXEON 5050 White](#)



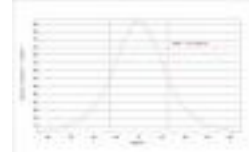
[View](#)

Eff: 83



[LUMILEDS LUXEON C Blue](#)

FWHM: 25
Cd/lm: 2.7

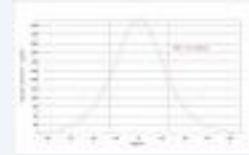


[View](#)



[LUMILEDS LUXEON C Lime](#)

Eff: 83.5
FWHM: 26
Cd/lm: 2.7

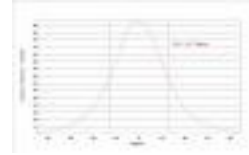


[View](#)



[LUMILEDS LUXEON C Red](#)

Eff: 82.5
FWHM: 26
Cd/lm: 2.6

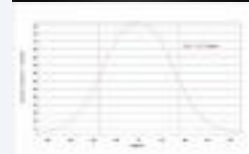


[View](#)



[LUMILEDS LUXEON CSP 05 White](#)

Eff: 85
FWHM: 35
Cd/lm: 1.35

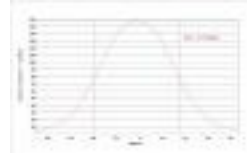
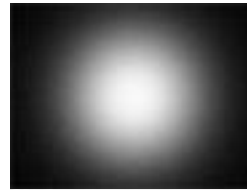


[View](#)



[LUMILEDS LUXEON CSP 10 White](#)

Eff: 84
FWHM: 37
Cd/lm: 1.18

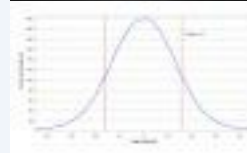


[View](#)



[LUMILEDS LUXEON CZ](#)

Eff: 86.5
FWHM: 32
Cd/lm: 2.3

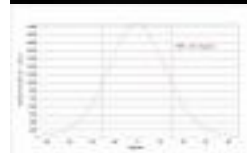


[View](#)



[LUMILEDS LUXEON IR Compact 850nm](#)

Eff: 88.5
FWHM: 30
Cd/lm: 2.4

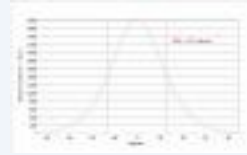


[View](#)



[LUMILEDS LUXEON IR Domed 150 Degree](#)

Eff: 89.5
FWHM: 27
Cd/lm: 2.9

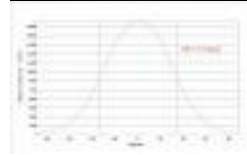


[View](#)



[LUMILEDS LUXEON IR Domed 60 Degree](#)

Eff: 88
FWHM: 35
Cd/lm: 2.1

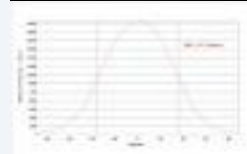


[View](#)



[LUMILEDS LUXEON IR Domed 90 Degree](#)

Eff: 88.5
FWHM: 36
Cd/lm: 2

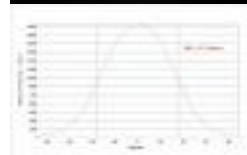


[View](#)



[LUMILEDS LUXEON IR Domed 90 Degree](#)

Eff: 88.5
FWHM: 36
Cd/lm: 2

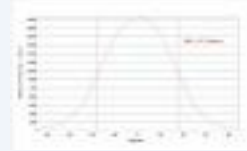


[View](#)



[LUMILEDS LUXEON IR Domed 90 Degree](#)

Eff: 88.5
FWHM: 36
Cd/lm: 2

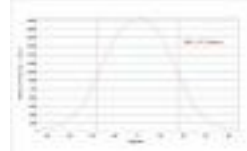


[View](#)



[LUMILEDS LUXEON IR Domed 90 Degree](#)

Eff: 88.5
FWHM: 36
Cd/lm: 2

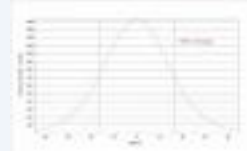
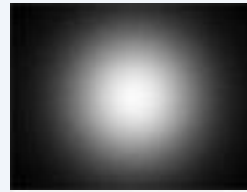


[View](#)



[LUMILEDS LUXEON MZ White](#)

Eff: 85
FWHM: 33
Cd/lm: 1.8



[View](#)



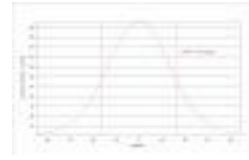
Eff: 84
FWHM: 33



[View](#)

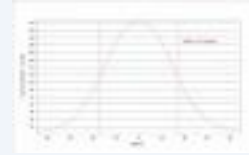
[LUMILEDS LUXEON Q White](#)

Cd/lm: 1.7



[LUMILEDS LUXEON TX White](#)

Eff: 86.1
FWHM: 34
Cd/lm: 1.7

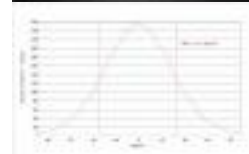


[View](#)



[LUMILEDS LUXEON V White](#)

Eff: 83.5
FWHM: 34
Cd/lm: 1.7

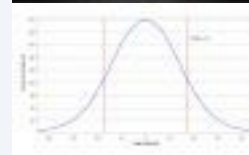


[View](#)



[LUMILEDS LUXEON V2 White](#)

Eff: 85
FWHM: 34
Cd/lm: 1.9

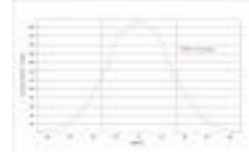


[View](#)



[LUMILEDS LUXEON Z White](#)

Eff: 86
FWHM: 33
Cd/lm: 1.9

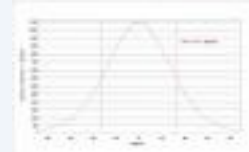


[View](#)



[Nichia 229A White](#)

Eff: 84
FWHM: 34
Cd/lm: 1.8



[View](#)



[Nichia 757G White](#)

Eff: 85.5
FWHM: 34
Cd/lm: 2



[View](#)

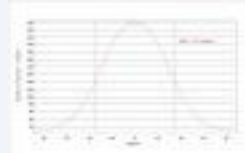


Eff: 84
FWHM: 35
Cd/lm: 2



[View](#)

[Nichia NCSW E17A White](#)



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

Eff: 85.5
FWHM: 34
Cd/lm: 2

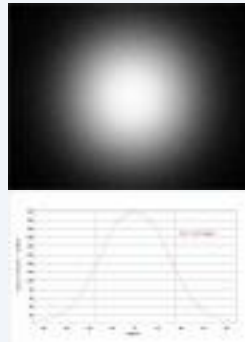


[View](#)



[Nichia NSBWL 121A White](#)

Eff: 84
FWHM: 35
Cd/lm: 1.67

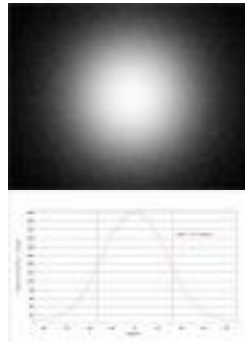


[View](#)



[Nichia NVSL 219B White](#)

Eff: 83
FWHM: 33
Cd/lm: 1.9



[View](#)

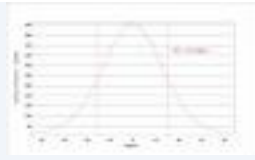


[Nichia NVSW 219C White](#)

Eff: 85.5
FWHM: 31
Cd/lm: 2.1



[View](#)

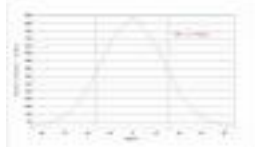


[Nichia NVSW 319A White](#)

Eff: 84
FWHM: 32
Cd/lm: 2



[View](#)

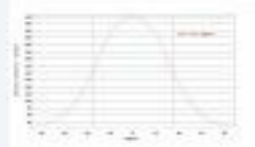


[Nichia NVSW E21A White](#)

Eff: 85
FWHM: 36
Cd/lm: 1.61



[View](#)

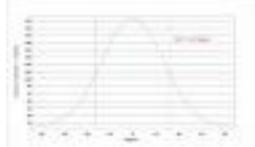


[Osram OS DURIS E 2835 White](#)

Eff: 86
FWHM: 33
Cd/lm: 2.1



[View](#)

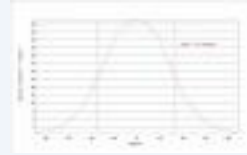


Eff: 86

OSRAM
Opto Semiconductors

[Osram OS DURIS E2 White](#)

FWHM: 34
Cd/lm: 1.81

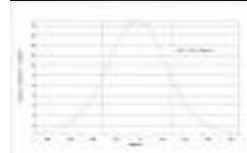


[View](#)

OSRAM
Opto Semiconductors

[Osram OS DURIS E3 White](#)

Eff: 90
FWHM: 30
Cd/lm: 2.3

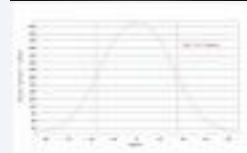


[View](#)

OSRAM
Opto Semiconductors

[Osram OS DURIS P8 White](#)

Eff: 85.5
FWHM: 36
Cd/lm: 1.6



[View](#)

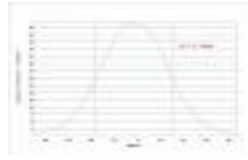
OSRAM
Opto Semiconductors

[Osram OS DURIS S2 White](#)

Eff: 91.3
FWHM: 34
Cd/lm: 1.7



[View](#)



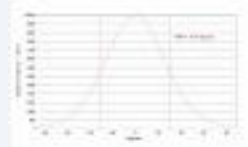
OSRAM
Opto Semiconductors

[Osram OS DURIS S5 Deep Blue](#)

Eff: 85
FWHM: 31
Cd/lm: 2.3



[View](#)



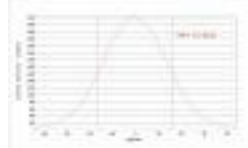
OSRAM
Opto Semiconductors

[Osram OS DURIS S5 Green](#)

Eff: 86.5
FWHM: 33
Cd/lm: 2.1



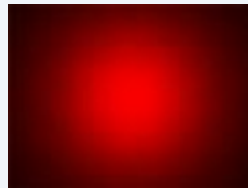
[View](#)



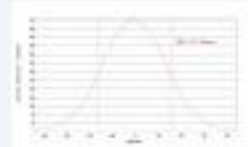
OSRAM
Opto Semiconductors

[Osram OS DURIS S5 Red](#)

Eff: 87
FWHM: 33
Cd/lm: 2.2



[View](#)

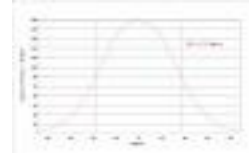


Eff: 86

OSRAM
Opto Semiconductors

[Osram OS DURIS S5 White](#)

FWHM: 38
Cd/lm: 1.48

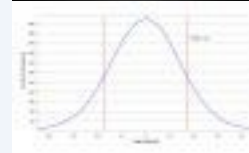


[View](#)

OSRAM
Opto Semiconductors

[Osram OS Osconiq P3737 White](#)

Eff: 83.5
FWHM: 34
Cd/lm: 1.9

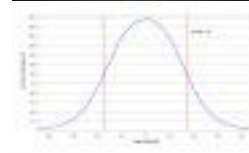


[View](#)

OSRAM
Opto Semiconductors

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

Eff: 85
FWHM: 35
Cd/lm: 1.9

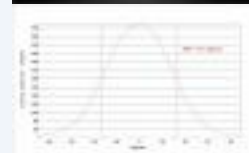


[View](#)

OSRAM
Opto Semiconductors

[Osram OS OSLON Square Flat White](#)

Eff: 85
FWHM: 34
Cd/lm: 2

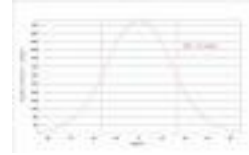
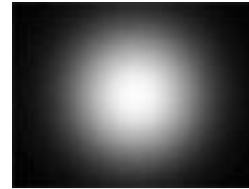


[View](#)



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

Eff: 85.8
FWHM: 34
Cd/lm: 1.8

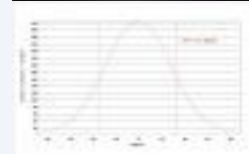
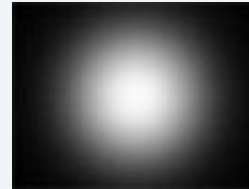


[View](#)



[Osram OS OSLON Square White](#)

Eff: 85
FWHM: 34
Cd/lm: 1.76

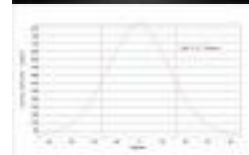


[View](#)



[Samsung 3535 LH351D White](#)

Eff: 87
FWHM: 33
Cd/lm: 2.1

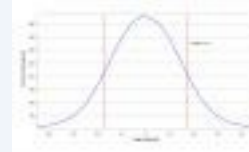


[View](#)



[Samsung CSP LH181B White](#)

Eff: 86
FWHM: 35
Cd/lm: 2



[View](#)



[Samsung CSP LH231B White](#)

Eff: 85.5
FWHM: 36
Cd/lm: 1.8

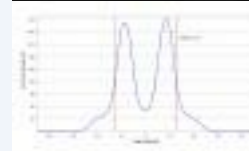


[View](#)



[Samsung CSP LM101B White](#)

Eff: 87
FWHM: 25
Cd/lm: 4.7

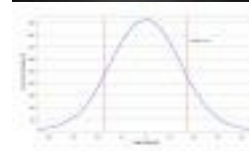


[View](#)



[Seoul CSP SZ8Y22P White](#)

Eff: 83
FWHM: 35
Cd/lm: 1.7

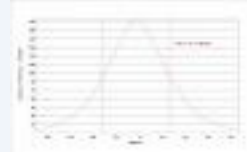


[View](#)



[Seoul P4 White](#)

Eff: 85.59
FWHM: 29
Cd/lm: 2

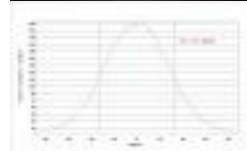


[View](#)



[Seoul SZ8Y19 White](#)

Eff: 87
FWHM: 33
Cd/lm: 1.64

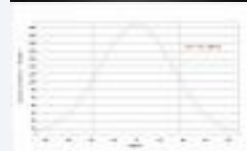
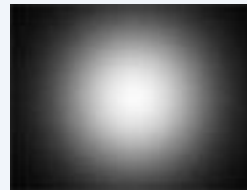


[View](#)



[Stanley 6J White](#)

Eff: 85
FWHM: 38
Cd/lm: 1.38



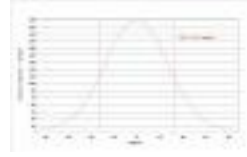
[View](#)

Eff: 86

TOSHIBA

[Toshiba TL 1L2 White](#)

FWHM: 33
Cd/lm: 1.8

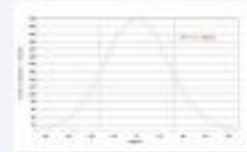
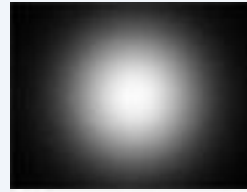


[View](#)

TOSHIBA

[Toshiba TL 1L4 White](#)

Eff: 85
FWHM: 33
Cd/lm: 1.9



[View](#)