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sales@carclo-optics.com



+44 1753 575 011



20.0mm Elliptical Ripple Linear TIR (10197)



Part no.	10197
Drawing no.	60432
Family	20mm
Type	TIR
Diameter	20.0
Beam	Elliptical
Finish	Ripple Linear



LEDs & Performances

Select LED to view available holders

Manu.

Performance

Data

Images

IES/STP

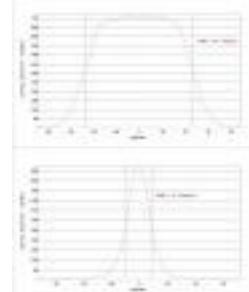
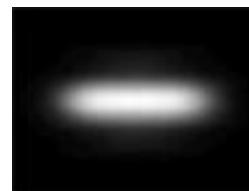


[Cree XLamp CSP XD16 Cool White](#)

Eff: 85

FWHM: 47 x 9

Cd/lm: 4.7



[View](#)



[Cree XLamp MC-E White](#)

Eff: 81

FWHM: 44 x 23

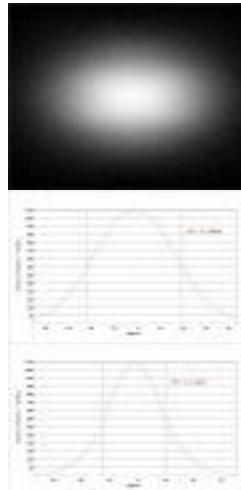
Cd/lm: 2.3

[View](#)



Cree XLamp MH-B White

Eff: 83.6
FWHM: 41 x 22
Cd/lm: 2.08

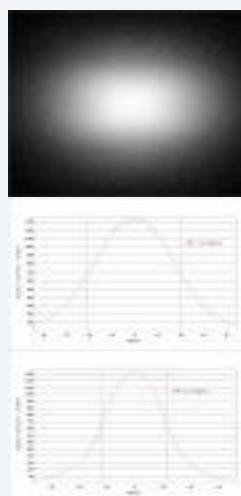


[View](#)



Cree XLamp XHP-50 Gen 2 White

Eff: 83
FWHM: 41 x 23
Cd/lm: 2

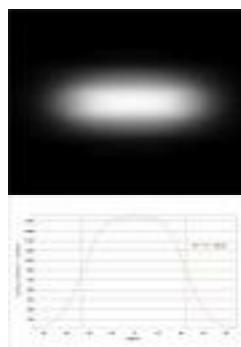


[View](#)



Cree XLamp XHP35 HI White

Eff: 85.6
FWHM: 45x12
Cd/lm: 3.9

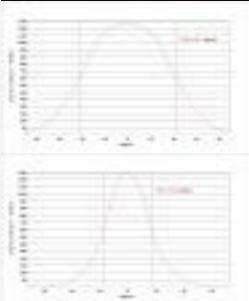
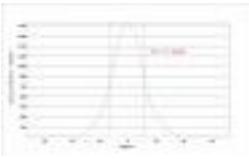


[View](#)



Cree Xlamp XHP35 White

Eff: 84.6
FWHM: 42x17
Cd/lm: 2.8

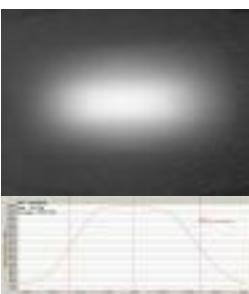


[View](#)



Cree Xlamp XM-L White

FWHM: 47 X 17
Cd/lm: 3.8

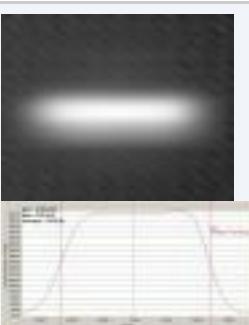


[View](#)



Cree Xlamp XP-E White

Eff: 86
FWHM: 47 x 8
Cd/lm: 6.5

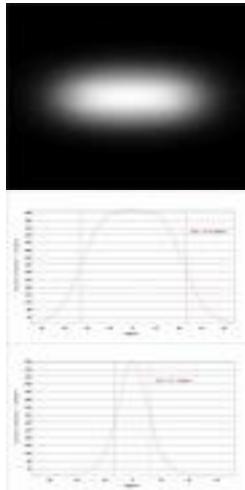


[View](#)



Cree Xlamp XP-G3 White

Eff: 86
FWHM: 45 x 12
Cd/lm: 3.6

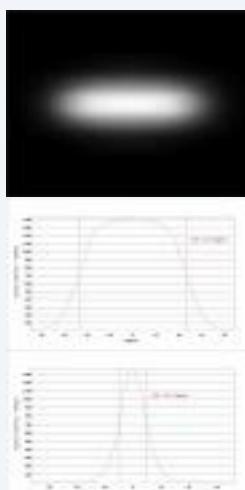


[View](#)



Cree Xlamp XP-L HI White

Eff: 86
FWHM: 46x10
Cd/lm: 4.3

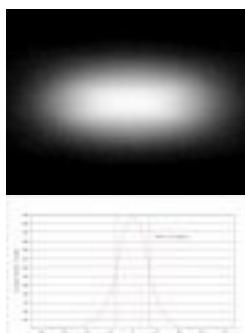


[View](#)



Cree Xlamp XP-L White

Eff: 85.3
FWHM: 43x15
Cd/lm: 3.2

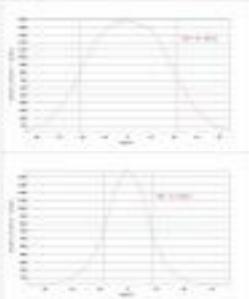
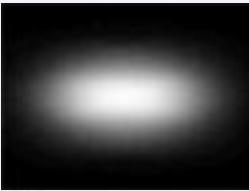
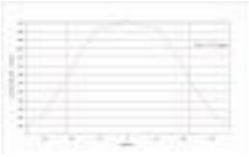


[View](#)



Cree XLamp XP-L2 White

Eff: 84.5
FWHM: 43 x 17
Cd/lm: 2.9

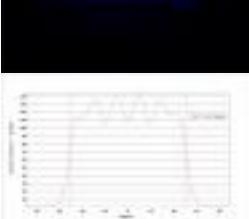


[View](#)



Cree XLamp XQ-A Blue

Eff: 86
FWHM: 51 x 3
Cd/lm: 13.6



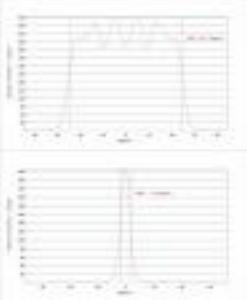
[View](#)





Cree XLamp XQ-A Green

Eff: 86
FWHM: 49 X 3
Cd/lm: 13.6

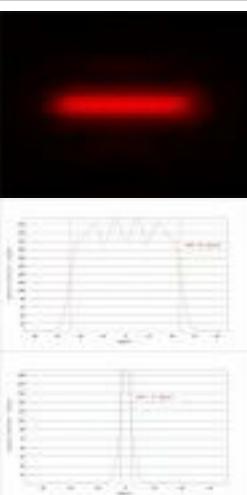


[View](#)



Cree XLamp XQ-A Red

Eff: 86.5
FWHM: 48 x 4
Cd/lm: 11.7

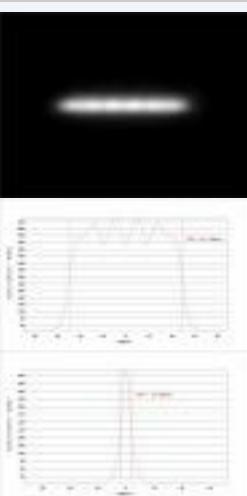


[View](#)



Cree XLamp XQ-A White

Eff: 86
FWHM: 49 x 3
Cd/lm: 12.34

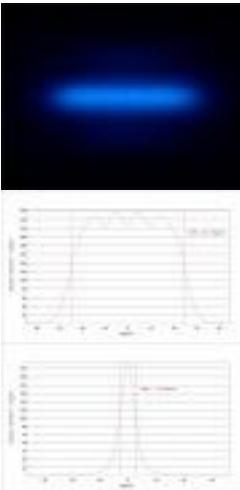


[View](#)



Cree XLamp XQ-E HI Blue

Eff: 84.5
FWHM: 49 X 5
Cd/lm: 7.1

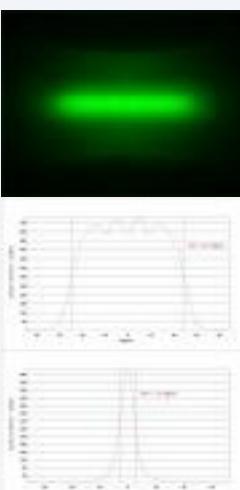


[View](#)



Cree XLamp XQ-E HI Green

Eff: 84.5
FWHM: 49 x 5
Cd/lm: 7.4



[View](#)



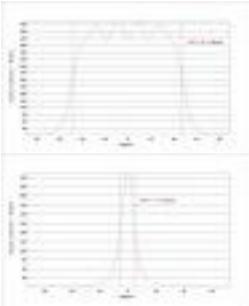
Eff: 85
FWHM: 48 x 5



[View](#)

Cree Xlamp XQ-E HI Red

Cd/lm: 8.1



Cree Xlamp XQ-E HI White

Eff: 87
FWHM: 48 x 5
Cd/lm: 8.04

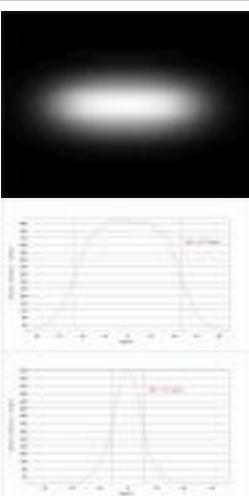


[View](#)



Cree Xlamp XT-E HE White

Eff: 86
FWHM: 46 x 11
Cd/lm: 4.1



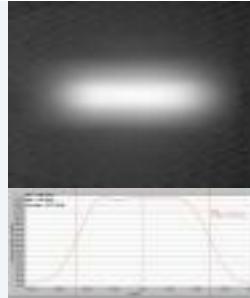
[View](#)



LG
Life's Good

[LG 3535LG White](#)

FWHM: 48 x 11
Cd/lm: 5.4



[View](#)



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

Eff: 89.5
FWHM: 46 x 8
Cd/lm: 5.9

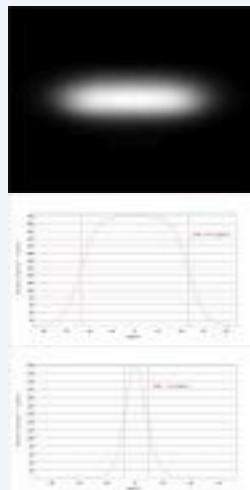


[View](#)



[LUMILEDS LUXEON 3030 White](#)

Eff: 84
FWHM: 47 x 8
Cd/lm: 5.14

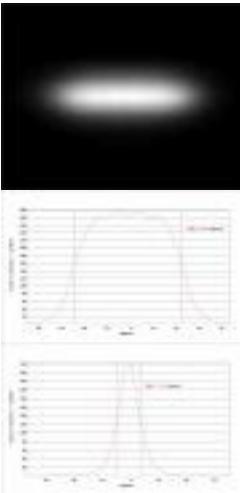


[View](#)



LUMILEDS LUXEON 3535 HV White

Eff: 85.8
FWHM: 48 x 8
Cd/lm: 5.43

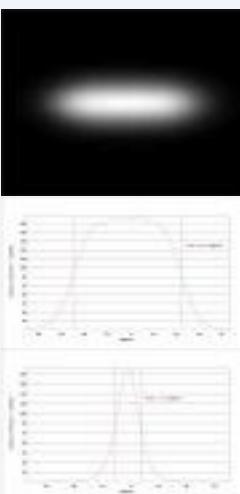


[View](#)



LUMILEDS LUXEON 3535 L White

Eff: 86
FWHM: 47 x 9
Cd/lm: 5.05

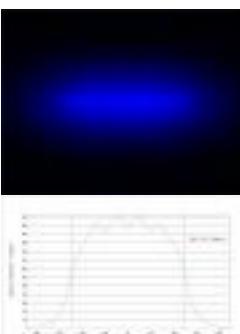


[View](#)



LUMILEDS LUXEON 3535L Blue

Eff: 86.5
FWHM: 49 x 7
Cd/lm: 5.8

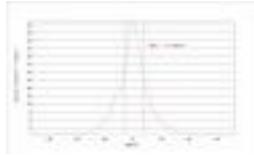


[View](#)

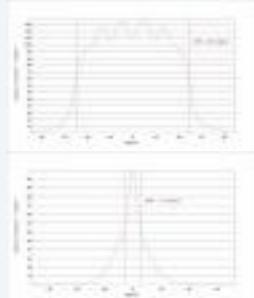


LUMILEDS LUXEON 3535L Green

Eff: 84.6
FWHM: 49 x 5
Cd/lm: 6.7



[View](#)

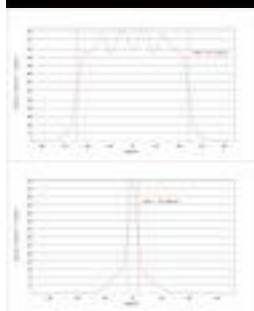


LUMILEDS LUXEON 3535L Red

Eff: 86.5
FWHM: 48 x 4
Cd/lm: 9.8



[View](#)



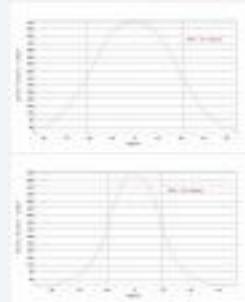


LUMILEDS LUXEON 5050 White

Eff: 85
FWHM: 41 x 20
Cd/lm: 2.6



[View](#)

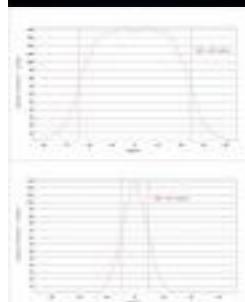


LUMILEDS LUXEON C Blue

Eff: 82
FWHM: 49 x 10
Cd/lm: 4.6



[View](#)



LUMILEDS LUXEON C Lime

Eff: 83.5
FWHM: 47 X 9
Cd/lm: 4.9



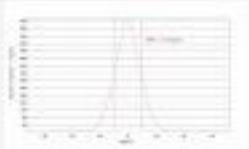
[View](#)





LUMILEDS LUXEON C Red

Eff: 81.5
FWHM: 46 x 10
Cd/lm: 4.5

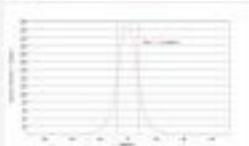
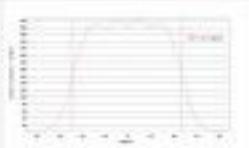


[View](#)



LUMILEDS LUXEON CSP 05 White

Eff: 83
FWHM: 48 x 7
Cd/lm: 5.08



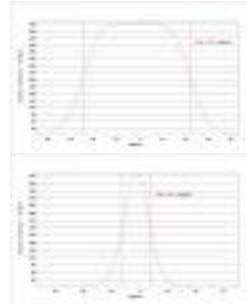
[View](#)





LUMILEDS LUXEON CSP 10 White

Eff: 83
FWHM: 47 x 10
Cd/lm: 3.68

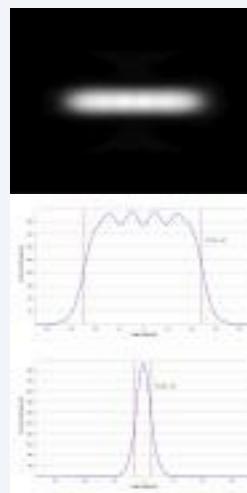


[View](#)



LUMILEDS LUXEON CZ

Eff: 86.5
FWHM: 49 x 5
Cd/lm: 9.1

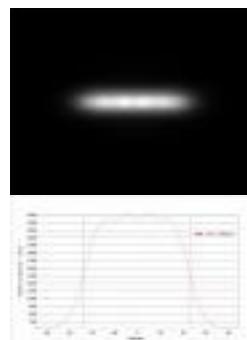


[View](#)



LUMILEDS LUXEON IR Compact 850nm

Eff: 90
FWHM: 46 x 7
Cd/lm: 6.7

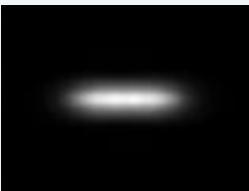
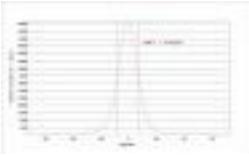


[View](#)

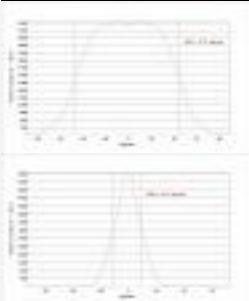


LUMILEDS LUXEON IR Domed 150
Degree

Eff: 90.5
FWHM: 46 x 10
Cd/lm: 5.5



[View](#)

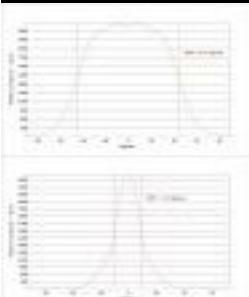


LUMILEDS LUXEON IR Domed 60 Degree

Eff: 88
FWHM: 45 x 9
Cd/lm: 5



[View](#)



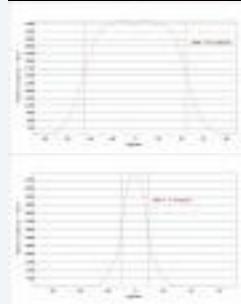


LUMILEDS LUXEON IR Domed 90 Degree

Eff: 89
FWHM: 46 x 9
Cd/lm: 5.4



[View](#)

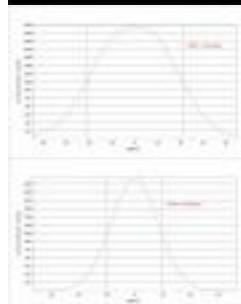


LUMILEDS LUXEON MZ White

Eff: 84.4
FWHM: 42 x 19
Cd/lm: 2.7



[View](#)



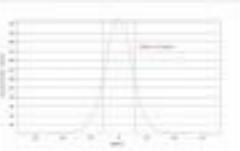
LUMILEDS LUXEON Q White

Eff: 83.8
FWHM: 46x11
Cd/lm: 3.9



[View](#)





LUMILEDS LUXEON R White

Eff: 81.2
FWHM: 47 x 12
Cd/lm: 4.8



[View](#)



LUMILEDS LUXEON Rebel ES White

Eff: 81.2
FWHM: 47 x 12
Cd/lm: 4.8



[View](#)



LUMILEDS LUXEON Rebel White

Eff: 82
FWHM: 48 x 9
Cd/lm: 6



[View](#)



LUMILEDS LUXEON T White

Eff: 81.2
FWHM: 47x12
Cd/lm: 4.8

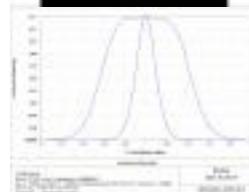
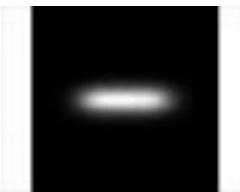


[View](#)



LUMILEDS LUXEON TX White

Eff: 87
FWHM: 46 x 12
Cd/lm: 4.5

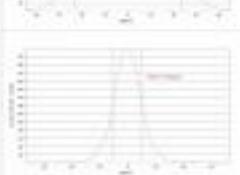


[View](#)



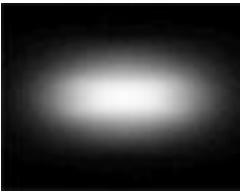
LUMILEDS LUXEON TX White

Eff: 85.8
FWHM: 46 x 10
Cd/lm: 4.3



[View](#)

Eff: 83

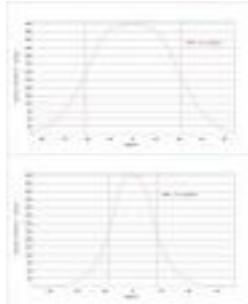




FWHM: 43 x 17

Cd/lm: 2.8

[View](#)



[LUMILEDS LUXEON V White](#)

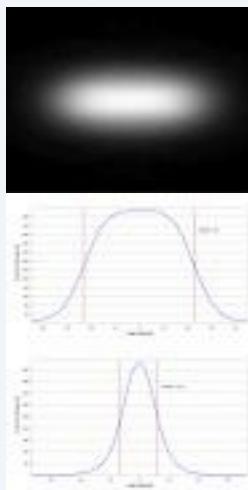


Eff: 86.5

FWHM: 46 x 12

Cd/lm: 4

[View](#)



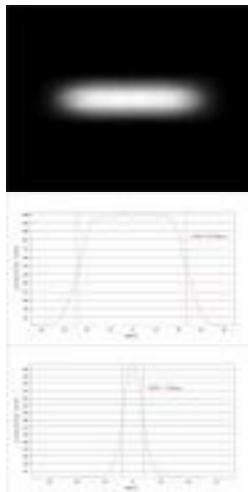
[LUMILEDS LUXEON V2 White](#)



Eff: 86

FWHM: 48 x 7

Cd/lm: 6

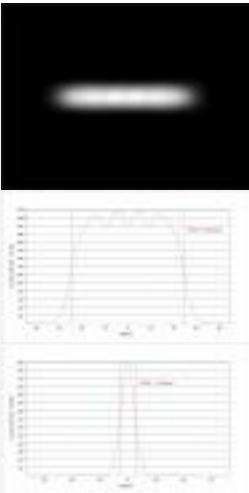


[LUMILEDS LUXEON Z ES White](#)



LUMILEDS LUXEON Z White

Eff: 86
FWHM: 48 x 5
Cd/lm: 8.23

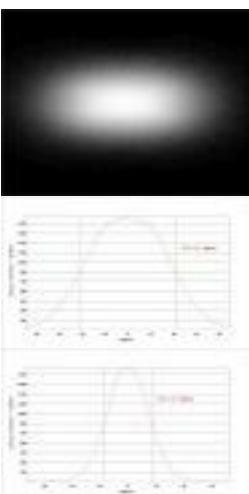


[View](#)



Nichia 229A White

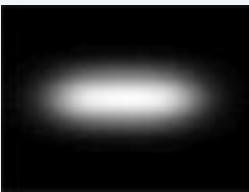
Eff: 83.5
FWHM: 42 x 17
Cd/lm: 2.9



[View](#)



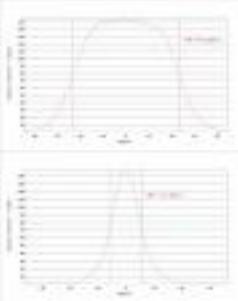
Eff: 86
FWHM: 47 x 11



[View](#)

[Nichia 757G White](#)

Cd/lm: 4.3



[Nichia NCSW E17A White](#)

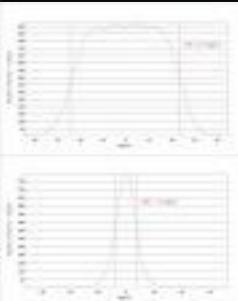
Eff: 86

FWHM: 48 x 7

Cd/lm: 6.1



[View](#)

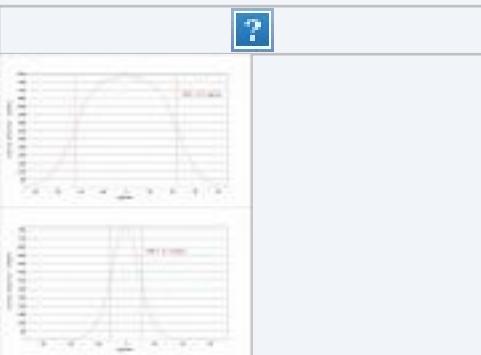


[Nichia NF2W 385AR-V2 White](#)

Eff: 86

FWHM: 45 x 11

Cd/lm: 4.3



[View](#)

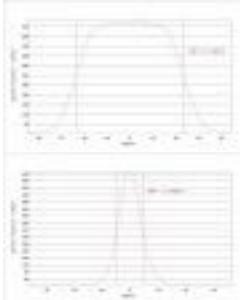


Nichia NVSL 219B White

Eff: 84
FWHM: 47 x 9
Cd/lm: 4.9



[View](#)

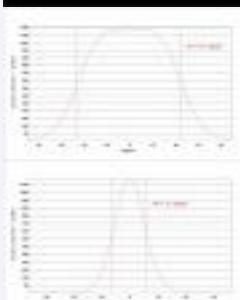


Nichia NVSW 219C White

Eff: 84.5
FWHM: 45 x 12
Cd/lm: 3.8



[View](#)

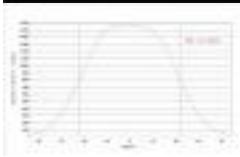


Nichia NVSW 319A White

Eff: 84.5
FWHM: 44 x 14
Cd/lm: 3.4



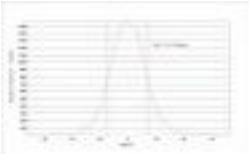
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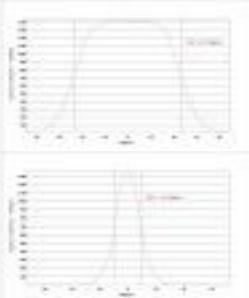


Nichia NVSW E21A White

Eff: 84
FWHM: 47 x 9
Cd/lm: 4.83



[View](#)



Nichia Top Emitting 083 White

Eff: 84.2
FWHM: 44x12
Cd/lm: 3.8



[View](#)



Nichia Top Emitting NFSW 036 White

Eff: 87
FWHM: 47x7
Cd/lm: 5.7



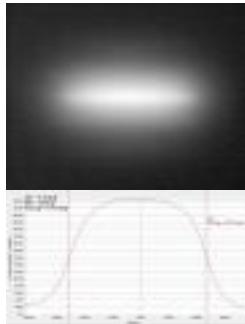
[View](#)





Nichia Top Emitting NS3W 183T White

Eff: 86.8
FWHM: 48x14
Cd/lm: 3.8

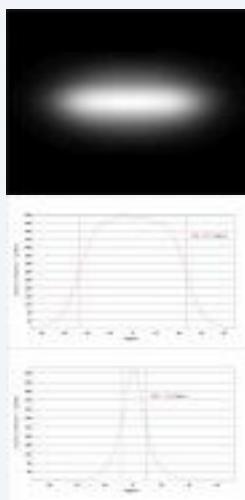


[View](#)



Osram OS DURIS E 2835 White

Eff: 86
FWHM: 47 x 8
Cd/lm: 5.1



[View](#)



Osram OS DURIS E2 White

Eff: 86
FWHM: 49 x 4
Cd/lm: 7.63

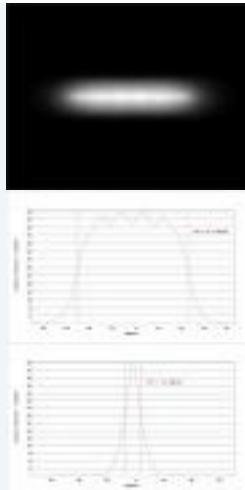


[View](#)



Osram OS DURIS E3 White

Eff: 89.5
FWHM: 48x6
Cd/lm: 7.5

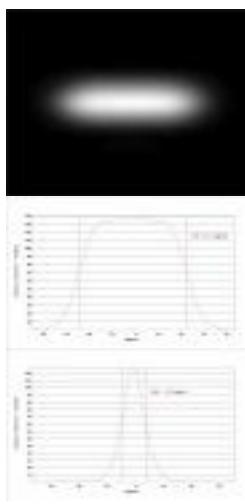


[View](#)



Osram OS DURIS S2 White

Eff: 90.8
FWHM: 47x8
Cd/lm: 4.9



[View](#)

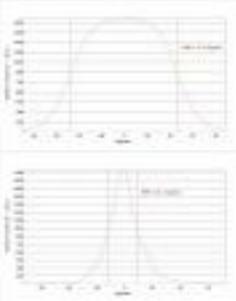


Eff: 85.5
FWHM: 47 x 10
Cd/lm: 4.6



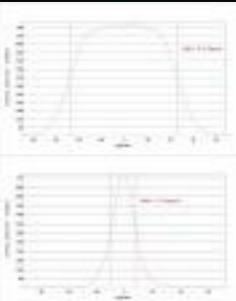
[View](#)

Osram OS DURIS S5 Deep Blue



Osram OS DURIS S5 Green

Eff: 86.5
FWHM: 47 x 9
Cd/lm: 5.4

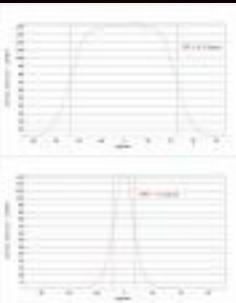


[View](#)



Osram OS DURIS S5 Red

Eff: 87
FWHM: 47 x 8
Cd/lm: 6.1

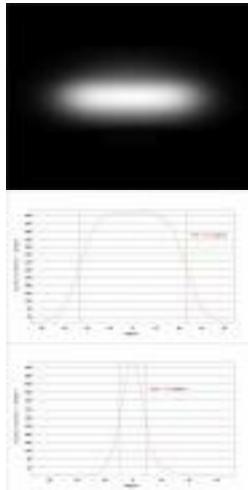


[View](#)



Osram OS DURIS S5 White

Eff: 86
FWHM: 47 X 9
Cd/lm: 4.86

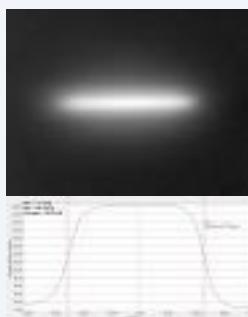


[View](#)



Osram OS GOLDEN DRAGON W5SM White

Eff: 87
FWHM: 39x7
Cd/lm: 6

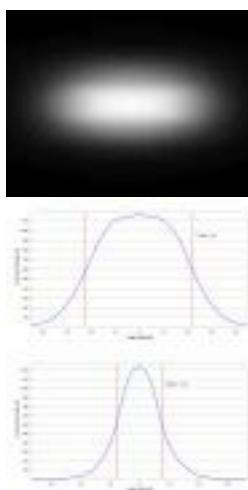


[View](#)



Osram OS Osconiq P3737 White

Eff: 84
FWHM: 44 x 15
Cd/lm: 3.3

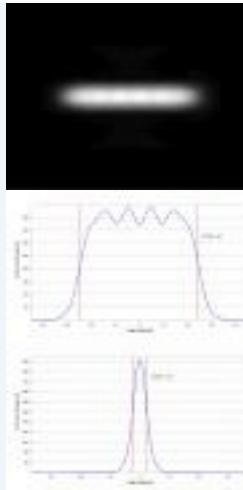


[View](#)



[Osram OS OSLON Pure CSP GW VJLPE1 White](#)

Eff: 86.5
FWHM: 49 x 5
Cd/lm: 10

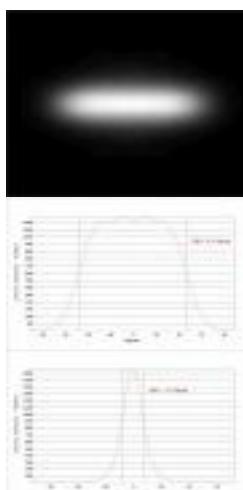


[View](#)



[Osram OS OSLON Square Flat White](#)

Eff: 86.5
FWHM: 48 x 8
Cd/lm: 5.9



[View](#)



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

Eff: 85.8
FWHM: 46 x 10
Cd/lm: 4.5

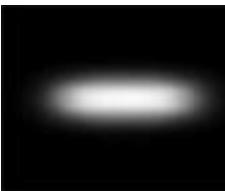
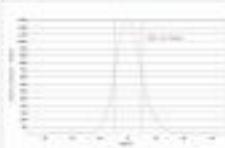


[View](#)

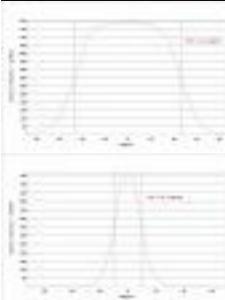


Osram OS OSLON Square White

Eff: 85
FWHM: 46 x 10
Cd/Im: 4.52



[View](#)

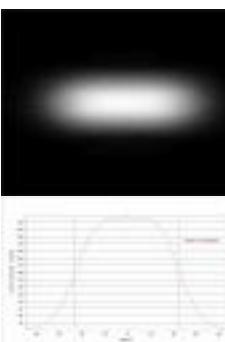


Osram OS PLATINUM DRAGON W5SN White

Eff: 89
FWHM: 47x8
Cd/Im: 6.7



[View](#)

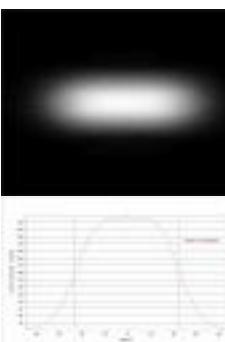


Samsung 3535 LH351B White

Eff: 85
FWHM: 46 x 12
Cd/Im: 3.95



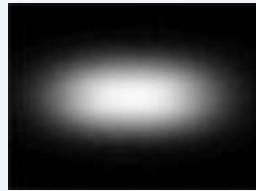
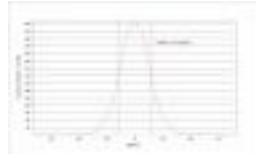
[View](#)





Samsung 3535 LH351D White

Eff: 86
FWHM: 43 x 17
Cd/lm: 3.3

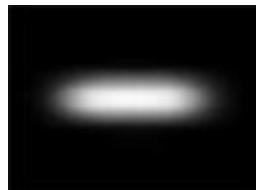
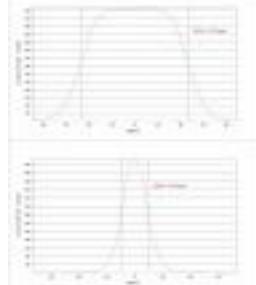


[View](#)



Samsung 3535 LH351Z White

Eff: 85.7
FWHM: 47 x 10
Cd/lm: 4.81



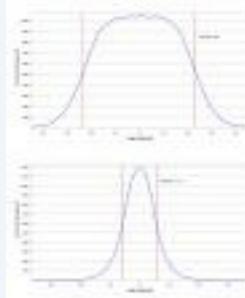


Samsung CSP LH181B White

Eff: 87.5
FWHM: 46 x 11
Cd/lm: 2.1



[View](#)

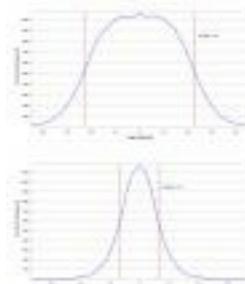


Samsung CSP LH231B White

Eff: 85.5
FWHM: 45 x 13
Cd/lm: 3.7



[View](#)

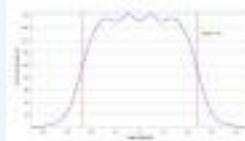


Samsung CSP LM101B White

Eff: 86
FWHM: 48 x 7
Cd/lm: 6.4



[View](#)





Samsung WH5 White

Eff: 86.5
FWHM: 47 x 16
Cd/lm: 3.2

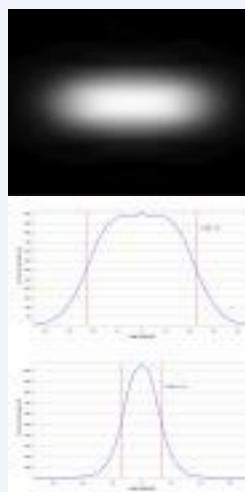


[View](#)



Seoul CSP SZ8Y22 White

Eff: 85.5
FWHM: 45 x 13
Cd/lm: 3.7



[View](#)



Seoul CSP SZ8Y22P White

Eff: 84.5
FWHM: 45 x 13
Cd/lm: 3.5

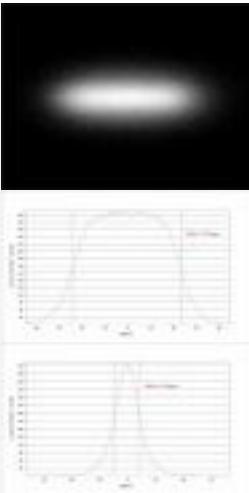


[View](#)



[Seoul MidPower MJT3030 White](#)

Eff: 85
FWHM: 47 x 9
Cd/lm: 4.7

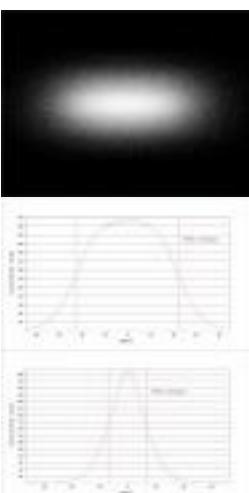


[View](#)



[Seoul MidPower MJT4040 White](#)

Eff: 86
FWHM: 45 x 14
Cd/lm: 3.15



[View](#)



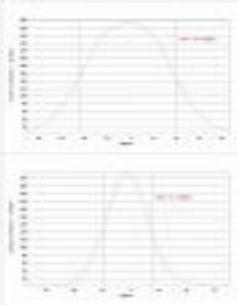
Eff: 84.05
FWHM: 42x17



[View](#)

Seoul P4 White

Cd/lm: 3



Seoul SZ8Y19 White

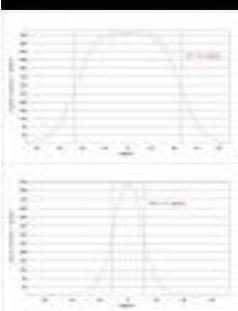
Eff: 87

FWHM: 45 x 11

Cd/lm: 3.61



[View](#)



Seoul Z - Power Z5 M1 White

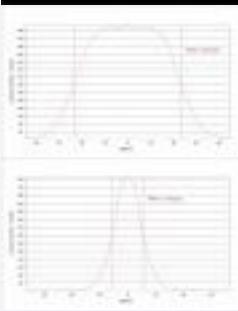
Eff: 85.9

FWHM: 46 x 11

Cd/lm: 4.2



[View](#)





SSC Acrich A2000 White

Eff: 83.1
FWHM: 45 x 20
Cd/lm: 3.1

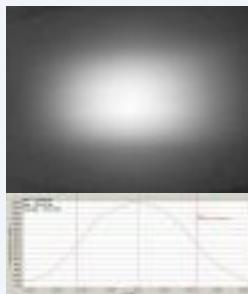


[View](#)

STANLEY

Stanley 6J White

FWHM: 44 X 28
Cd/lm: 3.1

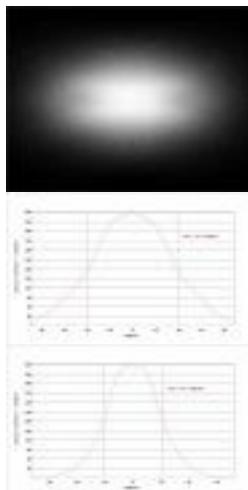


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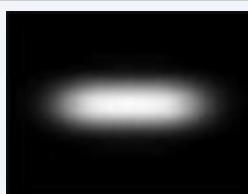
STANLEY

Stanley 6J White

Eff: 84
FWHM: 39 x 21
Cd/lm: 2.28



[View](#)



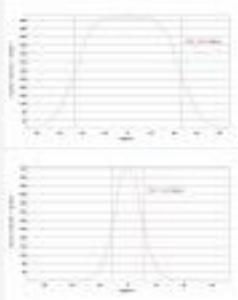
Eff: 86

TOSHIBA

Toshiba TL 1L2 White

FWHM: 46 x 11

Cd/lm: 4.03



[View](#)

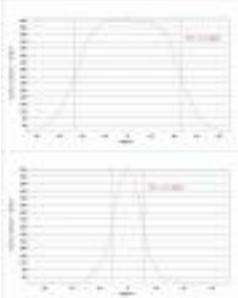
TOSHIBA

Toshiba TL 1L4 White

Eff: 85

FWHM: 46 x 11

Cd/lm: 4.1



[View](#)