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20.0mm Elliptical Ripple Linear TIR (10203)






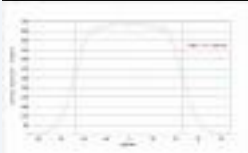


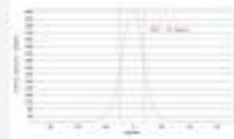
Part no.	10203
Drawing no.	60436
Family	20mm
Type	TIR
Diameter	20.0
Beam	Elliptical
Finish	Ripple Linear



LEDs & Performances

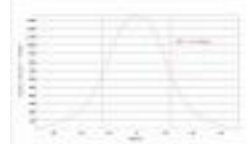
Select LED to view available holders

Manu.	Performance Data	Images	IES/STP
 Avago Moonstone White	Eff: 85.7 FWHM: 46 x 17 Cd/lm: 2.7	 	View
 Cree XLamp CSP XD16 Cool White	Eff: 83.5 FWHM: 47 x 8 Cd/lm: 4.6	 	View



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

Eff: 83
FWHM: 41 x 24
Cd/lm: 2

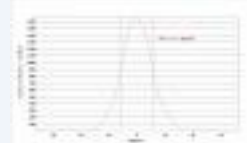
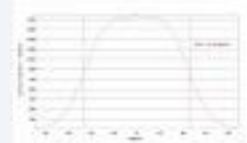


[View](#)



[Cree XLamp XHP35 HI White](#)

Eff: 86.6
FWHM: 46x12
Cd/lm: 3.8



[View](#)

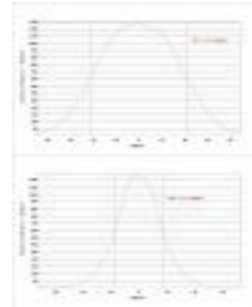
Eff: 85





[Cree XLamp XHP35 White](#)

FWHM: 42 x 17
Cd/lm: 2.75

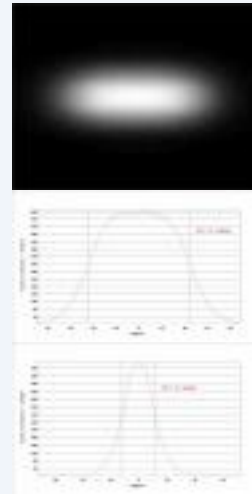


[View](#)



[Cree XLamp XP-G3 White](#)

Eff: 87
FWHM: 45 x 12
Cd/lm: 3.62

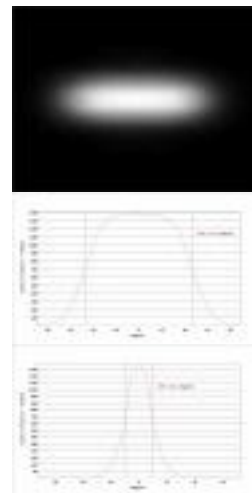


[View](#)



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

Eff: 86.8
FWHM: 47x10
Cd/lm: 4.3

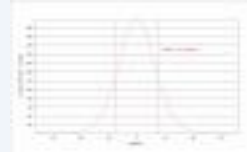
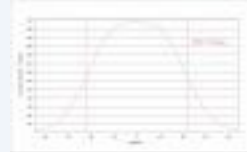


[View](#)



[Cree XLamp XP-L White](#)

Eff: 85.9
FWHM: 43 x 15
Cd/lm: 3.2

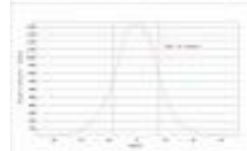
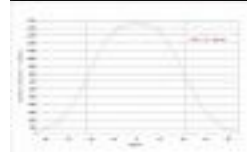
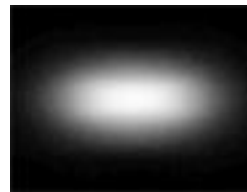


[View](#)



[Cree XLamp XP-L2 White](#)

Eff: 83.5
FWHM: 43 x 16
Cd/lm: 2.9

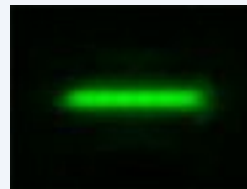


[View](#)

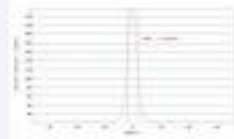


[Cree XLamp XQ-A Green](#)

Eff: 85.5
FWHM: 49 x 3
Cd/lm: 13.4

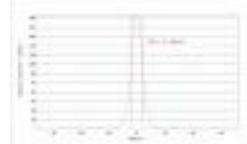
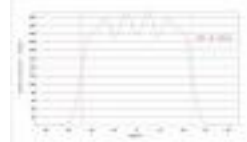
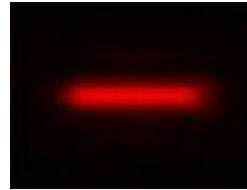


[View](#)



[Cree XLamp XQ-A Red](#)

Eff: 85.5
FWHM: 48 x 4
Cd/lm: 11.5

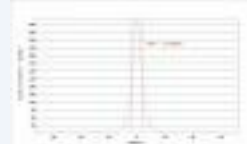
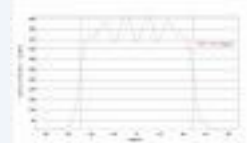


[View](#)



[Cree XLamp XQ-A White](#)

Eff: 87
FWHM: 49 x 3
Cd/lm: 12.77

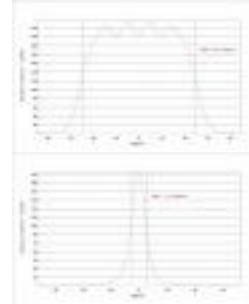


[View](#)



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

Eff: 83
FWHM: 50 X 5
Cd/lm: 7

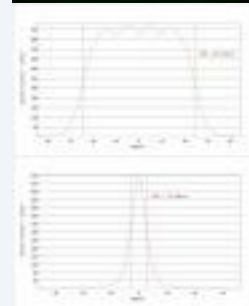


[View](#)



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

Eff: 83.5
FWHM: 49 x 5
Cd/lm: 6.8



[View](#)

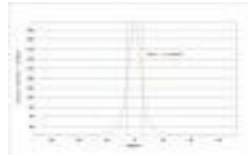


[Cree XLamp XQ-E HI Red](#)

Eff: 83.5
FWHM: 48 X 5
Cd/lm: 7.9

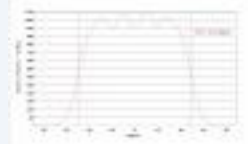
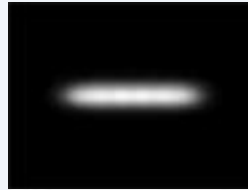


[View](#)



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

Eff: 87.2
FWHM: 48 x 5
Cd/lm: 7.59



[Cree XLamp XR White](#)

Eff: 85
FWHM: 46 x 9
Cd/lm: 5.8



[Cree XLamp XR-C White](#)

Eff: 84
FWHM: 41 x 8
Cd/lm: 7.1



[Cree XLamp XR-E White](#)

Eff: 90
FWHM: 41 x 10
Cd/lm: 5.1

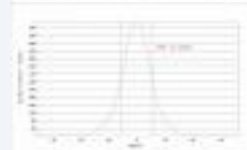
[View](#)

[View](#)



[Cree XLamp XTE HE White](#)

Eff: 84.5
FWHM: 46 x 11
Cd/lm: 4

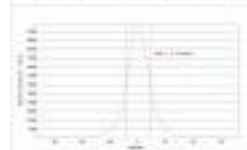
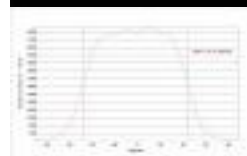


[View](#)



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

Eff: 89.5
FWHM: 46 x 8
Cd/lm: 6.1



[View](#)



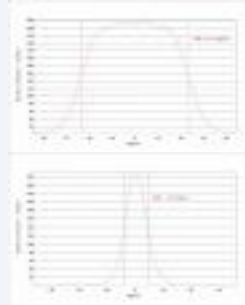
Eff: 85
FWHM: 47 x 8



[View](#)

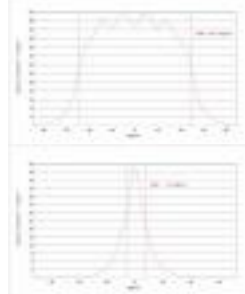
[LUMILEDS LUXEON 3030 White](#)

Cd/lm: 5



[LUMILEDS LUXEON 3535L Blue](#)

Eff: 83.5
FWHM: 49 x 7
Cd/lm: 5.7

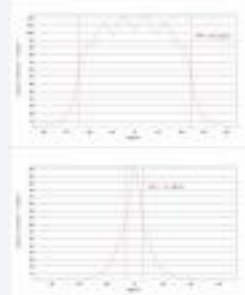
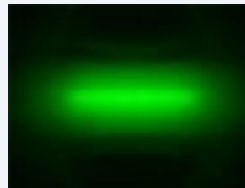


[View](#)



[LUMILEDS LUXEON 3535L Green](#)

Eff: 84
FWHM: 49 x 6
Cd/lm: 6.1

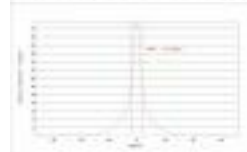
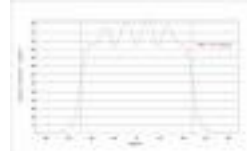


[View](#)



LUMILEDS LUXEON 3535L Red

Eff: 85
FWHM: 48 x 3
Cd/lm: 10.1

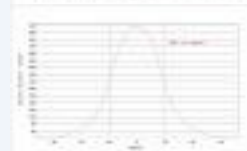
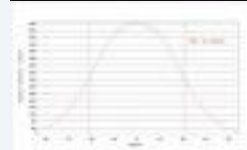


[View](#)



LUMILEDS LUXEON 5050 White

Eff: 84.5
FWHM: 41 x 19
Cd/lm: 2.6



[View](#)



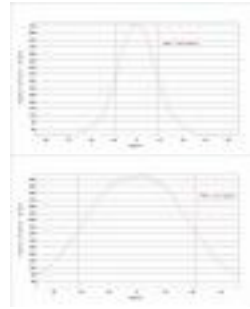
Eff: 84
FWHM: 19 x 42



[View](#)

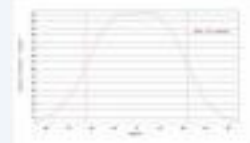
[LUMILEDS LUXEON 5050 White](#)

Cd/lm: 2.7



[LUMILEDS LUXEON C Blue](#)

Eff: 81.5
FWHM: 45 x 15
Cd/lm: 3.1

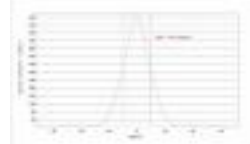
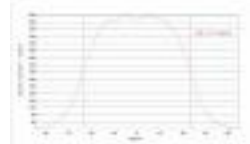
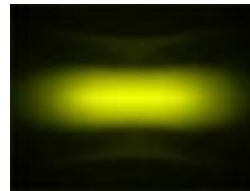


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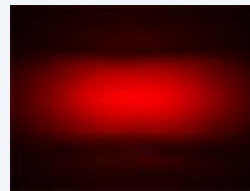


[LUMILEDS LUXEON C Lime](#)

Eff: 82.5
FWHM: 47 x 10
Cd/lm: 4.6



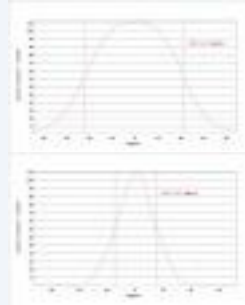
[View](#)





[LUMILEDS LUXEON C Red](#)

Eff: 81
FWHM: 43 x 15
Cd/lm: 3.3

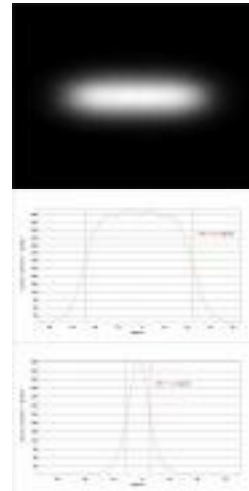


[View](#)



[LUMILEDS LUXEON CSP 10 White](#)

Eff: 85
FWHM: 47 x 8
Cd/lm: 3.28

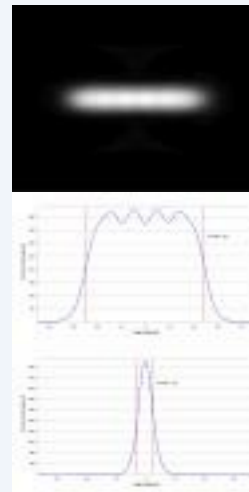


[View](#)



[LUMILEDS LUXEON CZ](#)

Eff: 85.5
FWHM: 49 x 5
Cd/lm: 8.8

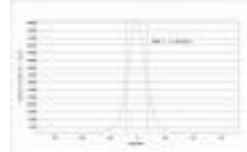
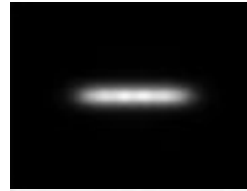


[View](#)



[LUMILEDS LUXEON IR Compact 850nm](#)

Eff: 87.5
FWHM: 47 X 7
Cd/lm: 6.7

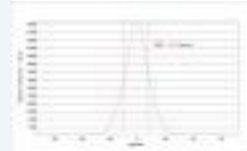
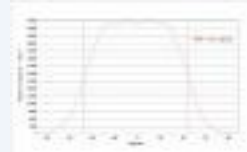
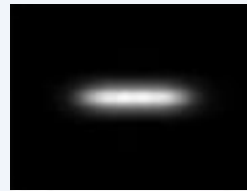


[View](#)



[LUMILEDS LUXEON IR Domed 150 Degree](#)

Eff: 88.5
FWHM: 46 x 9
Cd/lm: 5.7

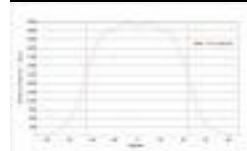
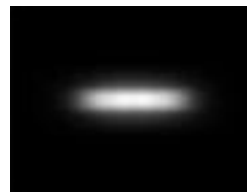


[View](#)

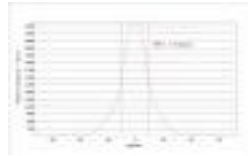


[LUMILEDS LUXEON IR Domed 60 Degree](#)

Eff: 87.5
FWHM: 46 x 9
Cd/lm: 5

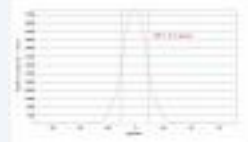
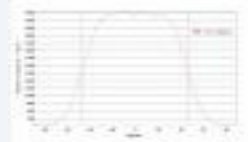
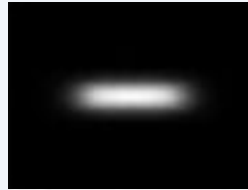


[View](#)



[LUMILEDS LUXEON IR Domed 90 Degree](#)

Eff: 88.5
FWHM: 46 x 10
Cd/lm: 5.2

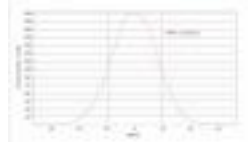


[View](#)



[LUMILEDS LUXEON MZ White](#)

Eff: 85.1
FWHM: 42 x 18
Cd/lm: 2.8



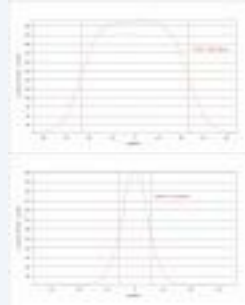
[View](#)





LUMILEDS LUXEON Q White

Eff: 84.6
FWHM: 46x10
Cd/lm: 3.8

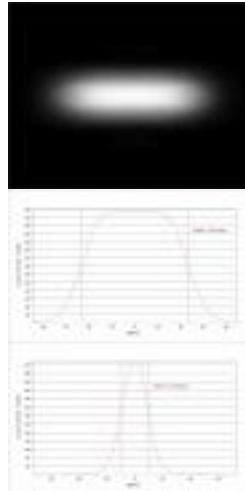


[View](#)



LUMILEDS LUXEON TX White

Eff: 86.9
FWHM: 47 x 10
Cd/lm: 4.1

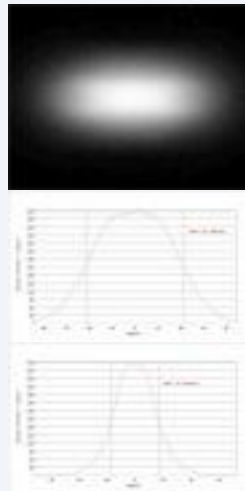


[View](#)



LUMILEDS LUXEON V White

Eff: 82
FWHM: 43 x 16
Cd/lm: 2.8

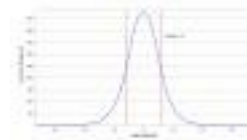
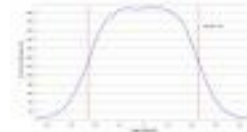


[View](#)



[LUMILEDS LUXEON V2 White](#)

Eff: 84.5
FWHM: 46 x 12
Cd/lm: 4

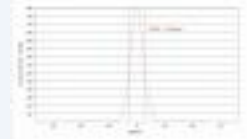
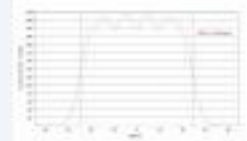
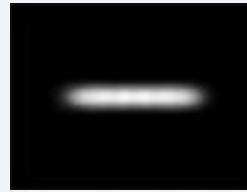


[View](#)



[LUMILEDS LUXEON Z White](#)

Eff: 86.8
FWHM: 48 x 5
Cd/lm: 8.29



[View](#)



[Nichia 229A White](#)

Eff: 83
FWHM: 42 x 17
Cd/lm: 2.9

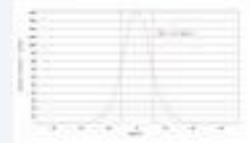
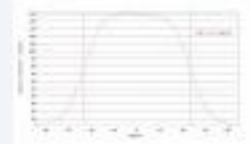
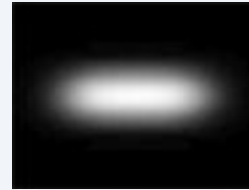
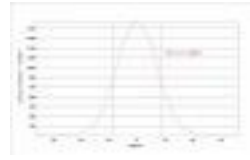


[View](#)



[Nichia 757G White](#)

Eff: 85
FWHM: 47 x 11
Cd/lm: 4.2

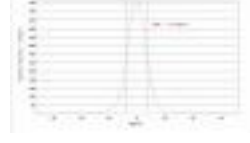
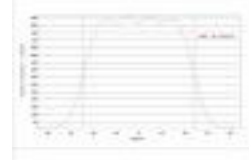


[View](#)



[Nichia NCSW E17A White](#)

Eff: 83.5
FWHM: 48 x 7
Cd/lm: 6



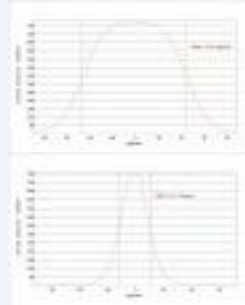
[View](#)





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

Eff: 84.5
FWHM: 45 x 11
Cd/lm: 4.2

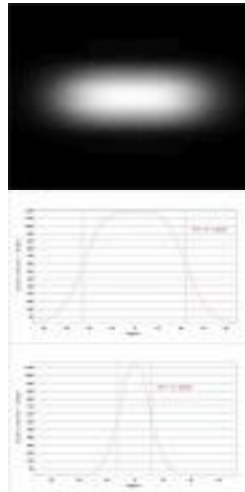


[View](#)



[Nichia NVSW 219C White](#)

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

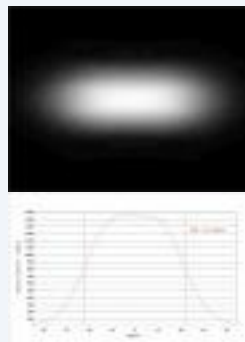


[View](#)

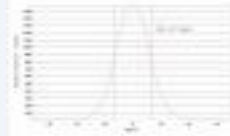


[Nichia NVSW 319A White](#)

Eff: 83.5
FWHM: 44 x 13
Cd/lm: 3.4

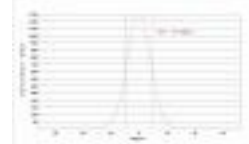
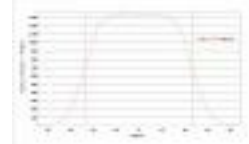
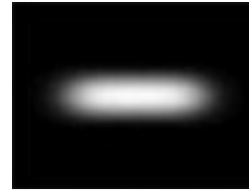


[View](#)



[Nichia NVSW E21A White](#)

Eff: 86
FWHM: 47 x 9
Cd/lm: 4.58

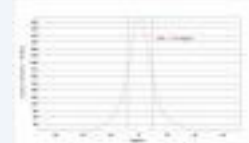
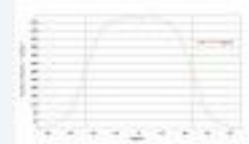


[View](#)



[Osram OS DURIS E 2835 White](#)

Eff: 85.5
FWHM: 47 x 8
Cd/lm: 5.1



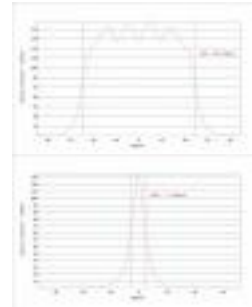
[View](#)



OSRAM
Opto Semiconductors

[Osram OS DURIS E2 White](#)

Eff: 87
FWHM: 49 x 5
Cd/lm: 7.3



[View](#)

OSRAM
Opto Semiconductors

[Osram OS DURIS E3 White](#)

Eff: 90
FWHM: 47x6
Cd/lm: 6.9

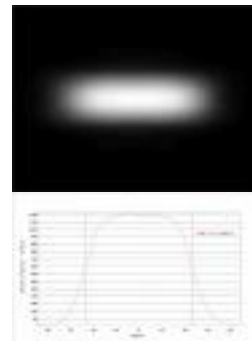


[View](#)

OSRAM
Opto Semiconductors

[Osram OS DURIS P8 White](#)

Eff: 86.7
FWHM: 47 x 10
Cd/lm: 4.2

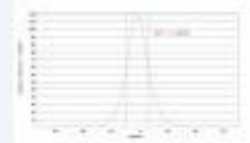
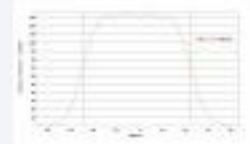
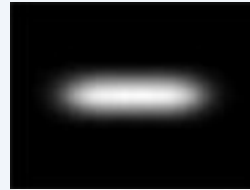
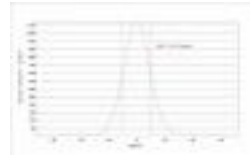


[View](#)

OSRAM
Opto Semiconductors

[Osram OS DURIS S2 White](#)

Eff: 92.1
FWHM: 47x8
Cd/lm: 4.8

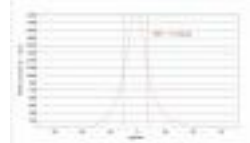
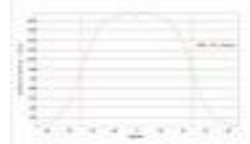
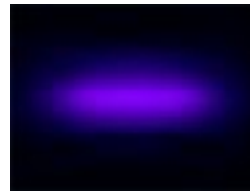


[View](#)

OSRAM
Opto Semiconductors

[Osram OS DURIS S5 Deep Blue](#)

Eff: 84
FWHM: 48 x 8
Cd/lm: 4.9

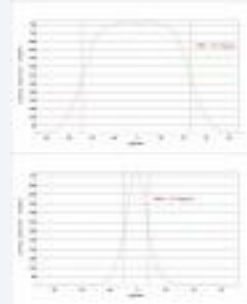
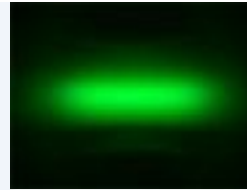


[View](#)

OSRAM
Opto Semiconductors

[Osram OS DURIS S5 Green](#)

Eff: 86
FWHM: 48 x 8
Cd/lm: 5.3

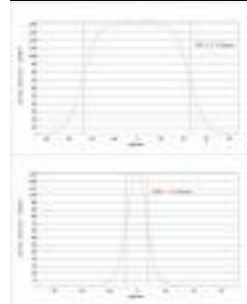
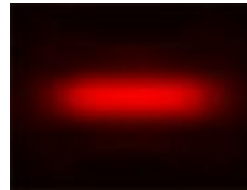


[View](#)

OSRAM
Opto Semiconductors

[Osram OS DURIS S5 Red](#)

Eff: 86.5
FWHM: 47 x 8
Cd/lm: 6

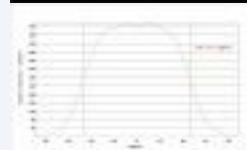


[View](#)

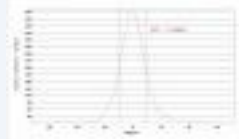
OSRAM
Opto Semiconductors

[Osram OS DURIS S5 White](#)

Eff: 87
FWHM: 47 x 9
Cd/lm: 4.42



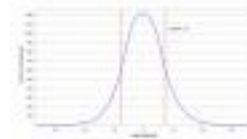
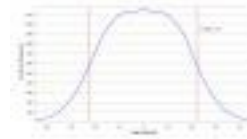
[View](#)



OSRAM
Opto Semiconductors

[Osram OS Osconiq P3737 White](#)

Eff: 82.5
FWHM: 45 x 15
Cd/lm: 3.2

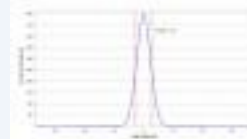
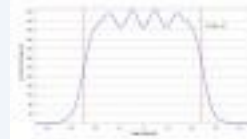


[View](#)

OSRAM
Opto Semiconductors

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

Eff: 84
FWHM: 49 x 5
Cd/lm: 8.9



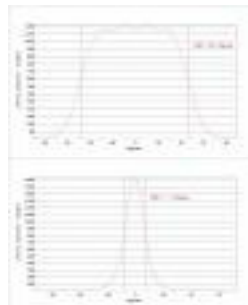
[View](#)



OSRAM
Opto Semiconductors

[Osram OS OSLON Square Flat White](#)

Eff: 84
FWHM: 48 x 7
Cd/lm: 5.9

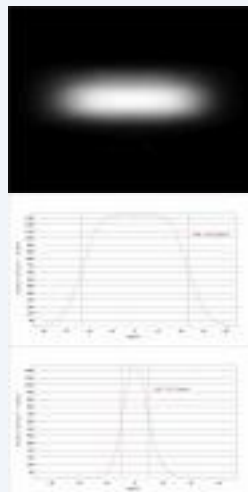


[View](#)

OSRAM
Opto Semiconductors

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

Eff: 86.5
FWHM: 46 x 10
Cd/lm: 4.4

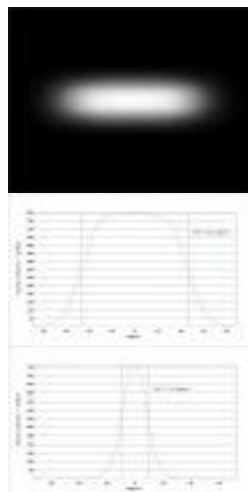


[View](#)

OSRAM
Opto Semiconductors

[Osram OS OSLON Square White](#)

Eff: 86
FWHM: 46 x 9
Cd/lm: 4.5

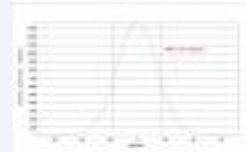
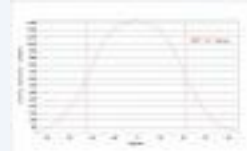


[View](#)



[Samsung 3535 LH351D White](#)

Eff: 86
FWHM: 43 x 16
Cd/lm: 3.2

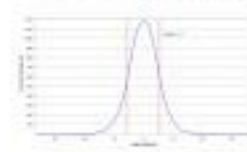
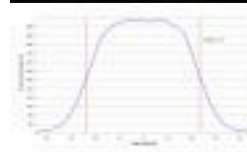


[View](#)



[Samsung CSP LH181B White](#)

Eff: 85.5
FWHM: 47 x 11
Cd/lm: 4.4

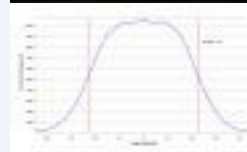


[View](#)

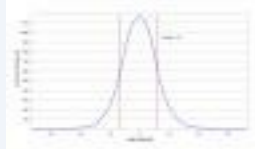


[Samsung CSP LH231B White](#)

Eff: 85
FWHM: 45 x 13
Cd/lm: 3.7



[View](#)

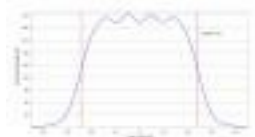


[Samsung CSP LM101B White](#)

Eff: 85
FWHM: 48 x 7
Cd/lm: 6.4



[View](#)

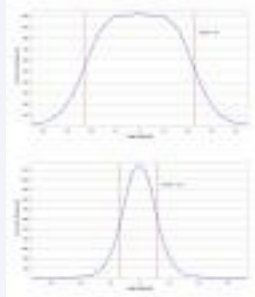


[Seoul CSP SZ8Y22P White](#)

Eff: 82
FWHM: 46 x 12
Cd/lm: 3.4



[View](#)

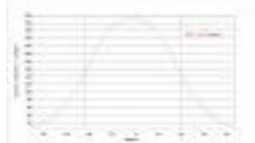


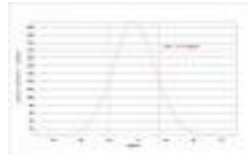
[Seoul P4 White](#)

Eff: 84.4
FWHM: 42x17
Cd/lm: 2.97



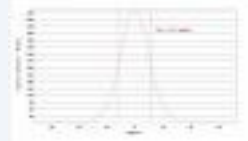
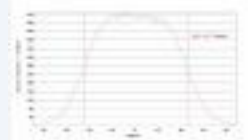
[View](#)





[Seoul SZ8Y19 White](#)

Eff: 88
FWHM: 45 x 11
Cd/lm: 3.52

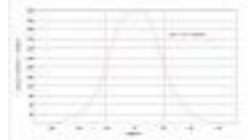
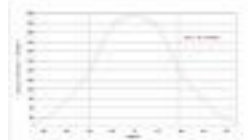


[View](#)



[Stanley 6J White](#)

Eff: 85
FWHM: 39 x 21
Cd/lm: 2.28

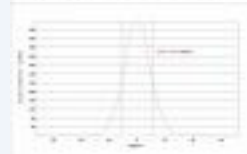
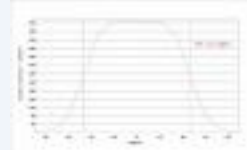
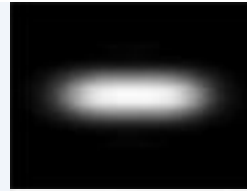


[View](#)

TOSHIBA

[Toshiba TL 1L2 White](#)

Eff: 87
FWHM: 46 x 10
Cd/lm: 3.98

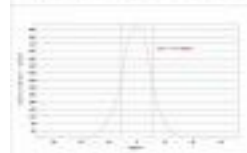
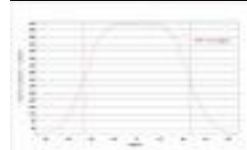


[View](#)

TOSHIBA

[Toshiba TL 1L4 White](#)

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



[View](#)