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20.0mm Medium Spot Frosted TIR (10139)

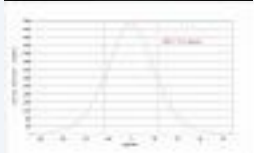


Part no.	10139
Drawing no.	60424
Family	20mm
Type	TIR
Diameter	20.0
Beam	Medium Spot
Finish	Frosted



LEDs & Performances

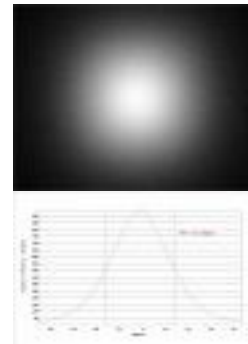
Select LED to view available holders

Manu.	Performance Data	Images	IES/STP
 Avago Jade White	Eff: 87.4 FWHM: 23 Cd/lm: 4.3	 	View
 Cree XLamp CSP XD16 Cool White	Eff: 87 FWHM: 24 Cd/lm: 3.5	 	View



[Cree XLamp MH-B White](#)

Eff: 86
FWHM: 30
Cd/lm: 1.86

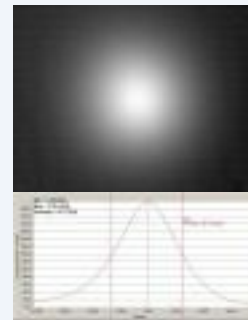


[View](#)



[Cree XLamp MX-6 White](#)

Eff: 87.4
FWHM: 26
Cd/lm: 3.5

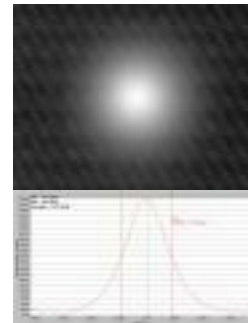


[View](#)



[Cree XLamp XB-D White](#)

FWHM: 20
Cd/lm: 6.9



[View](#)



[Cree XLamp XHP-50 White](#)

Eff: 83
FWHM: 30
Cd/lm: 1.87

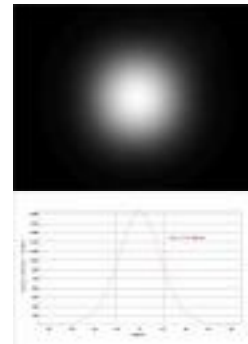


[View](#)



[Cree XLamp XHP35 HI White](#)

Eff: 85.5
FWHM: 22
Cd/lm: 4.1



[View](#)



[Cree XLamp XHP35 White](#)

Eff: 84.8
FWHM: 25
Cd/lm: 3

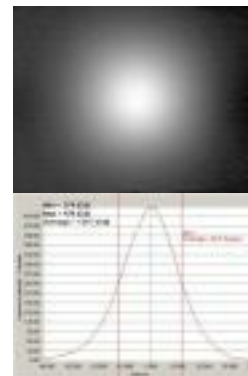


[View](#)



[Cree XLamp XM-L White](#)

Eff: 82.5
FWHM: 24
Cd/lm: 4.1



[View](#)

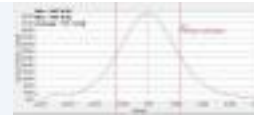


FWHM: 24
Cd/lm: 4.2



[View](#)

Cree XLamp XM-L2 White



Cree XLamp XP-C White

Eff: 83.8
FWHM: 16
Cd/lm: 8



[View](#)



Cree XLamp XP-E2 White

Eff: 85
FWHM: 18
Cd/lm: 8



[View](#)



Cree XLamp XP-G White

Eff: 82.1
FWHM: 21
Cd/lm: 5



[View](#)



FWHM: 20
Cd/lm: 5.9



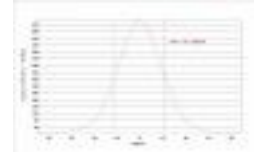
[View](#)

[Cree XLamp XP-G2 White](#)



[Cree XLamp XP-G3 White](#)

Eff: 86
FWHM: 22
Cd/lm: 3.9

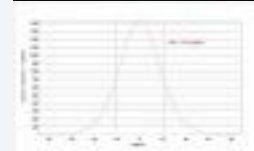


[View](#)



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

Eff: 85.5
FWHM: 21
Cd/lm: 4.3

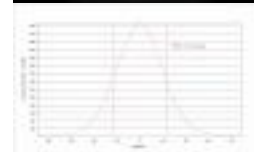


[View](#)



[Cree XLamp XP-L White](#)

Eff: 85.5
FWHM: 23
Cd/lm: 3.5

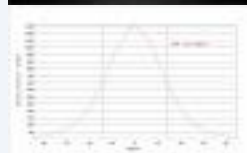


[View](#)



[Cree XLamp XP-L2 White](#)

Eff: 85.5
FWHM: 28
Cd/lm: 2.5



[View](#)



[Cree XLamp XQ-A Blue](#)

Eff: 87.5
FWHM: 22
Cd/lm: 4.3



[View](#)



[Cree XLamp XQ-A Green](#)

Eff: 87.5
FWHM: 22
Cd/lm: 4.3

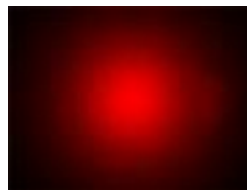


[View](#)



[Cree XLamp XQ-A Red](#)

Eff: 87.5
FWHM: 22
Cd/lm: 4.3

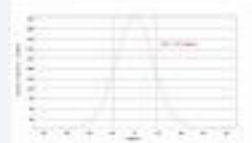
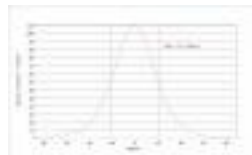


[View](#)



[Cree XLamp XQ-A White](#)

Eff: 85
FWHM: 19
Cd/lm: 5.47

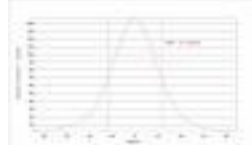
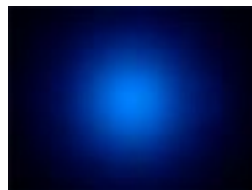


[View](#)



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

Eff: 87
FWHM: 23
Cd/lm: 3.8

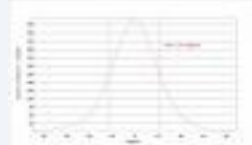


[View](#)



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

Eff: 86.5
FWHM: 22
Cd/lm: 3.8



[View](#)



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

Eff: 86.5
FWHM: 22
Cd/lm: 3.9

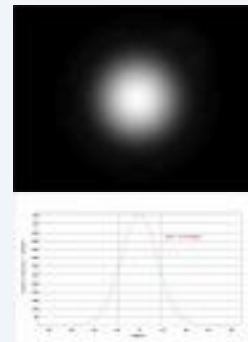


[View](#)



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

Eff: 85
FWHM: 17
Cd/lm: 5.46

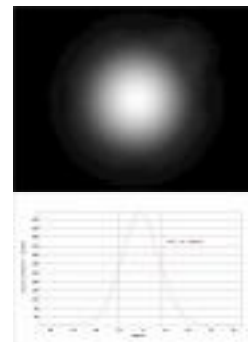


[View](#)



[Cree XLamp XQ-E White](#)

Eff: 85
FWHM: 19
Cd/lm: 5.1



[View](#)



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

Eff: 87.5
FWHM: 25
Cd/lm: 3.4



[View](#)



[Cree XLamp XT-E White](#)

FWHM: 21
Cd/lm: 5.8



[View](#)



[Everlight Shuen White](#)

Eff: 82.4
FWHM: 20
Cd/lm: 4.9

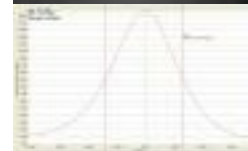
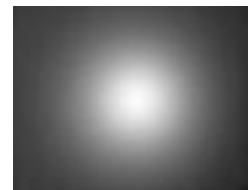


[View](#)



[LEDEngin 3W White](#)

Eff: 82.3
FWHM: 27
Cd/lm: 3.1



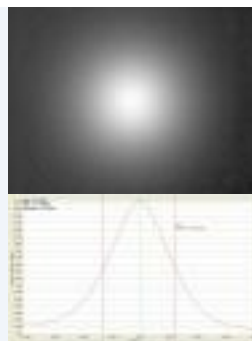
[View](#)

Eff: 82.3



[LEDEngin 5W White](#)

FWHM: 25
Cd/lm: 3.4

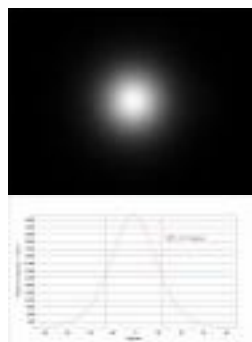


[View](#)



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

Eff: 91.5
FWHM: 24
Cd/lm: 3.9

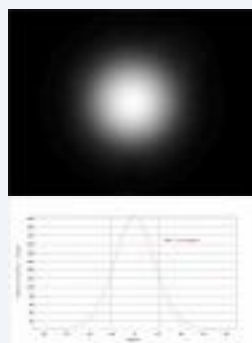


[View](#)



[LUMILEDS LUXEON 3030 White](#)

Eff: 84
FWHM: 21
Cd/lm: 4.42

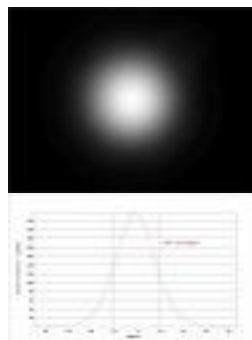


[View](#)



[LUMILEDS LUXEON 3535 HV White](#)

Eff: 85
FWHM: 20
Cd/lm: 4.67

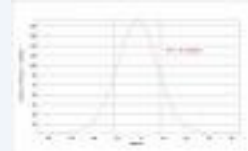


[View](#)



[LUMILEDS LUXEON 3535 L White](#)

Eff: 85
FWHM: 21
Cd/lm: 4.57



[View](#)



[LUMILEDS LUXEON 3535L Blue](#)

Eff: 87.5
FWHM: 24
Cd/lm: 3.6

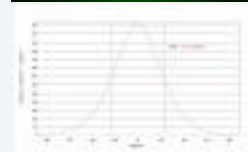


[View](#)



[LUMILEDS LUXEON 3535L Green](#)

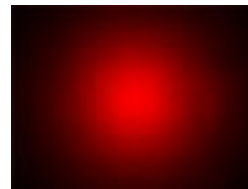
Eff: 88
FWHM: 24
Cd/lm: 3.6



[View](#)



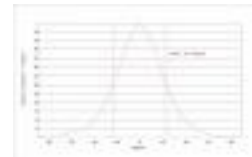
Eff: 88
FWHM: 23



[View](#)

[LUMILEDS LUXEON 3535L Red](#)

Cd/lm: 4



[LUMILEDS LUXEON C Blue](#)

Eff: 83
FWHM: 23
Cd/lm: 12.1



[View](#)

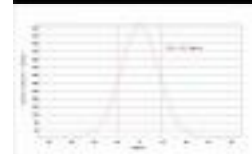


[LUMILEDS LUXEON C High-Power](#)

Eff: 81
FWHM: 19
Cd/lm: 5



[View](#)

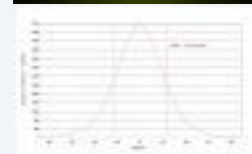


[LUMILEDS LUXEON C Lime](#)

Eff: 84
FWHM: 23
Cd/lm: 3.7



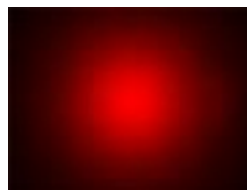
[View](#)





LUMILEDS LUXEON C Red

Eff: 81.5
FWHM: 24
Cd/lm: 3.4



[View](#)



LUMILEDS LUXEON C White

Eff: 82
FWHM: 16
Cd/lm: 7.8

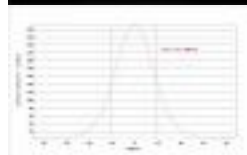


[View](#)



LUMILEDS LUXEON CSP 05 White

Eff: 83
FWHM: 20
Cd/lm: 4.52



[View](#)



LUMILEDS LUXEON CSP 10 White

Eff: 83
FWHM: 22
Cd/lm: 3.37

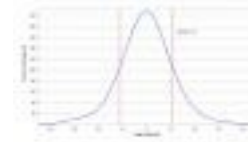


[View](#)



[LUMILEDS LUXEON CZ](#)

Eff: 88.5
FWHM: 22
Cd/lm: 4.3

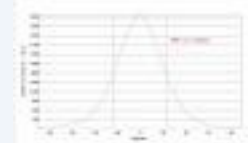


[View](#)



[LUMILEDS LUXEON IR Compact 850nm](#)

Eff: 90
FWHM: 23
Cd/lm: 4.1

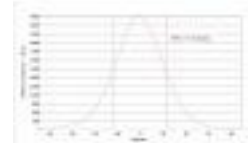


[View](#)



[LUMILEDS LUXEON IR Domed 150 Degree](#)

Eff: 91
FWHM: 24
Cd/lm: 4



[View](#)

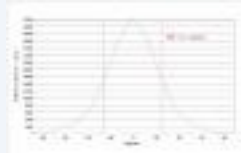


[LUMILEDS LUXEON IR Domed 60 Degree](#)

Eff: 89
FWHM: 25
Cd/lm: 3.5

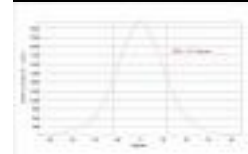


[View](#)



[LUMILEDS LUXEON IR Domed 90 Degree](#)

Eff: 90
FWHM: 24
Cd/lm: 3.9

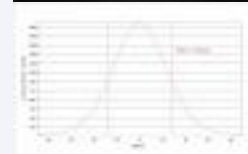


[View](#)



[LUMILEDS LUXEON MZ White](#)

Eff: 86.8
FWHM: 28
Cd/lm: 2.4

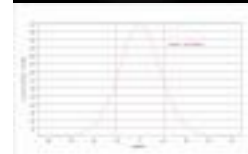


[View](#)



[LUMILEDS LUXEON Q White](#)

Eff: 84.2
FWHM: 21
Cd/lm: 4.2



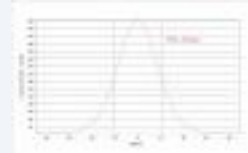
[View](#)

Eff: 85.1



[LUMILEDS LUXEON TX White](#)

FWHM: 21
Cd/lm: 4.4

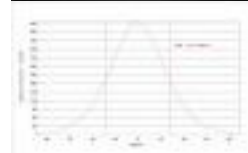


[View](#)



[LUMILEDS LUXEON V White](#)

Eff: 85
FWHM: 28
Cd/lm: 2.6

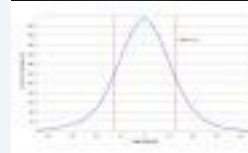


[View](#)



[LUMILEDS LUXEON V2 White](#)

Eff: 87.5
FWHM: 25
Cd/lm: 3.4



[View](#)



[LUMILEDS LUXEON Z ES White](#)

Eff: 85
FWHM: 17
Cd/lm: 6.1

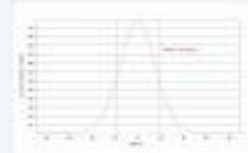


[View](#)



[LUMILEDS LUXEON Z White](#)

Eff: 85
FWHM: 19
Cd/lm: 5.7

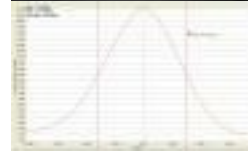


[View](#)



[Luminus Devices SST-50 White](#)

Eff: 82.2
FWHM: 31
Cd/lm: 2.6



[View](#)



[Nichia 219 White](#)

FWHM: 21
Cd/lm: 5.6



[View](#)



[Nichia 229A White](#)

Eff: 85.5
FWHM: 28
Cd/lm: 2.6

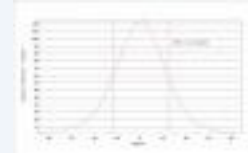


[View](#)



[Nichia 757G White](#)

Eff: 87.5
FWHM: 25
Cd/lm: 3.5

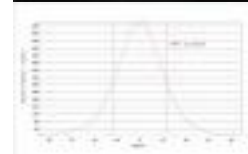


[View](#)



[Nichia NCSW E17A White](#)

Eff: 87
FWHM: 23
Cd/lm: 3.9



[View](#)



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

Eff: 87.5
FWHM: 25
Cd/lm: 3.3

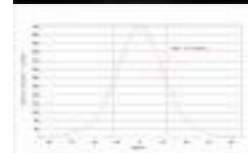


[View](#)



[Nichia NVSL 219B White](#)

Eff: 86.5
FWHM: 24
Cd/lm: 3.7

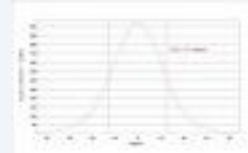


[View](#)



[Nichia NVSW 219C White](#)

Eff: 86.5
FWHM: 25
Cd/lm: 3.2

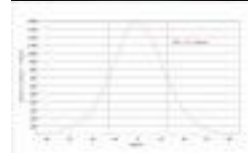


[View](#)



[Nichia NVSW 319A White](#)

Eff: 86
FWHM: 27
Cd/lm: 3

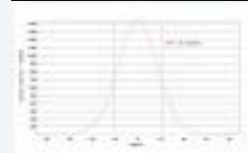


[View](#)



[Nichia NVSW E21A White](#)

Eff: 84
FWHM: 20
Cd/lm: 4.76



[View](#)

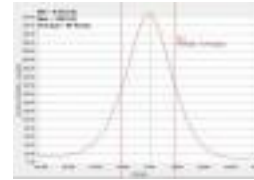


[Nichia Top Emitting NCSL 119-H3 White](#)

Eff: 84.2
FWHM: 20
Cd/lm: 6



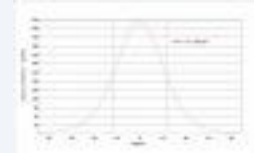
[View](#)



OSRAM
Opto Semiconductors

[Osram OS DURIS E 2835 White](#)

Eff: 87.5
FWHM: 25
Cd/lm: 3.5

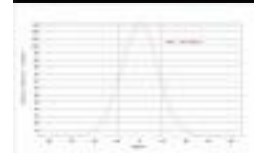


[View](#)

OSRAM
Opto Semiconductors

[Osram OS DURIS E2 White](#)

Eff: 85
FWHM: 19
Cd/lm: 5.41

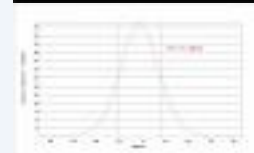


[View](#)

OSRAM
Opto Semiconductors

[Osram OS DURIS E3 White](#)

Eff: 88.7
FWHM: 20
Cd/lm: 5.3



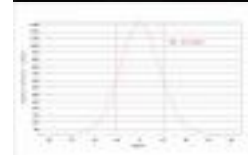
[View](#)

Eff: 85.5



[Osram OS DURIS P8 White](#)

FWHM: 21
Cd/lm: 4.4

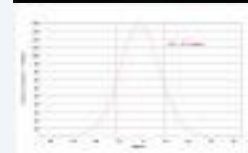


[View](#)



[Osram OS DURIS S2 White](#)

Eff: 90.3
FWHM: 21
Cd/lm: 4.9

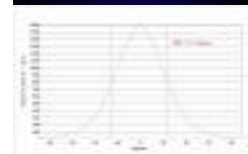


[View](#)



[Osram OS DURIS S5 Deep Blue](#)

Eff: 86.5
FWHM: 25
Cd/lm: 3.5

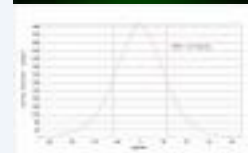
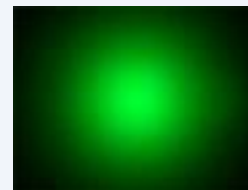


[View](#)



[Osram OS DURIS S5 Green](#)

Eff: 88.5
FWHM: 24
Cd/lm: 3.7

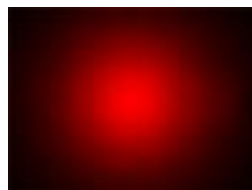


[View](#)



[Osram OS DURIS S5 Red](#)

Eff: 89.5
FWHM: 24
Cd/lm: 3.9



[View](#)



[Osram OS DURIS S5 White](#)

Eff: 86
FWHM: 21
Cd/lm: 4.47

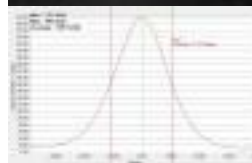


[View](#)



[Osram OS Golden DRAGON Plus W5AM White](#)

Eff: 83.9
FWHM: 21
Cd/lm: 4.7



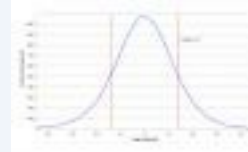
[View](#)

Eff: 86



[Osram OS Osconiq P3737 White](#)

FWHM: 27
Cd/lm: 2.9

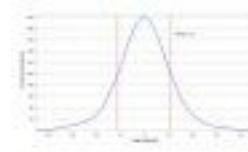


[View](#)



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

Eff: 88
FWHM: 22
Cd/lm: 4.3

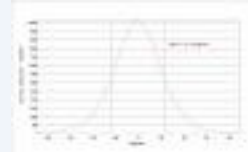


[View](#)



[Osram OS OSLON Square Flat White](#)

Eff: 88
FWHM: 24
Cd/lm: 3.9



[View](#)



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

Eff: 85.4
FWHM: 21
Cd/lm: 4.5

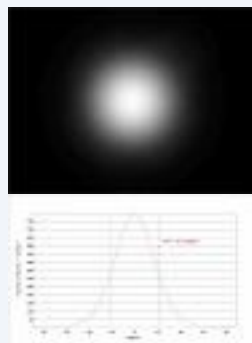


[View](#)



[Osram OS OSLON Square White](#)

Eff: 85
FWHM: 21
Cd/lm: 4.49

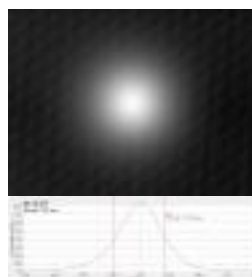


[View](#)



[Osram OS OSLON SSL 150 degree White](#)

Eff: 83.3
FWHM: 17
Cd/lm: 7.4

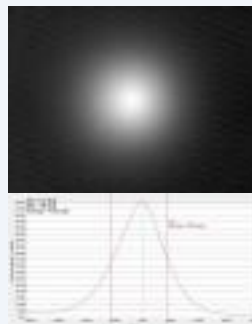


[View](#)



[Osram OS OSLON SSL 80 degree White](#)

Eff: 82.5
FWHM: 19
Cd/lm: 5.7

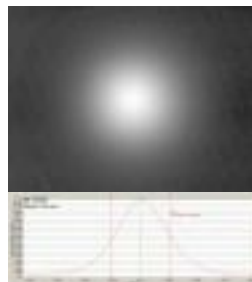


[View](#)



[Samsung 3535 LH351A White](#)

FWHM: 20
Cd/lm: 6.3

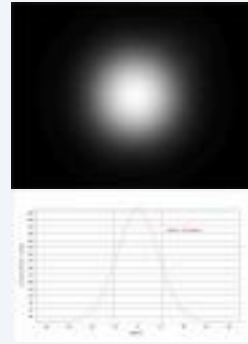


[View](#)



[Samsung 3535 LH351B White](#)

Eff: 85
FWHM: 21
Cd/lm: 4.1



[View](#)



[Samsung 3535 LH351D White](#)

Eff: 86.5
FWHM: 28
Cd/lm: 2.8

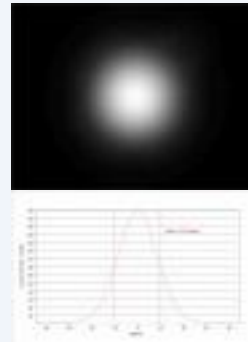


[View](#)



[Samsung 3535 LH351Z White](#)

Eff: 85
FWHM: 20
Cd/lm: 4.7



[View](#)

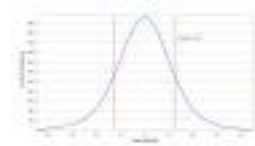


[Samsung CSP LH181B White](#)

Eff: 88.5
FWHM: 25
Cd/lm: 3.6

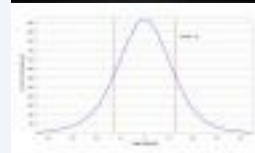


[View](#)



[Samsung CSP LH231B White](#)

Eff: 88.5
FWHM: 26
Cd/lm: 3.2



[View](#)



[Samsung CSP LM101B White](#)

Eff: 89
FWHM: 7
Cd/lm: 36.4

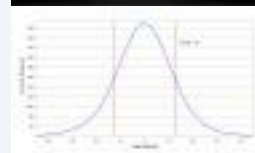


[View](#)



[Seoul CSP SZ8Y22 White](#)

Eff: 88
FWHM: 26
Cd/lm: 3.3

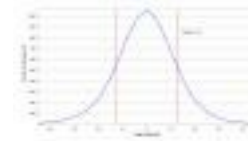


[View](#)



[Seoul CSP SZ8Y22P White](#)

Eff: 88.5
FWHM: 26
Cd/lm: 3.2

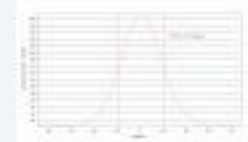


[View](#)



[Seoul MidPower MJT3030 White](#)

Eff: 85.5
FWHM: 21
Cd/lm: 4.4

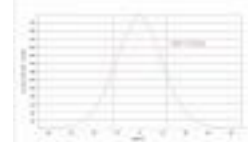


[View](#)



[Seoul MidPower MJT4040 White](#)

Eff: 86
FWHM: 23
Cd/lm: 3.36



[View](#)



[Seoul P4 White](#)

Eff: 81.5
FWHM: 22
Cd/lm: 4.3

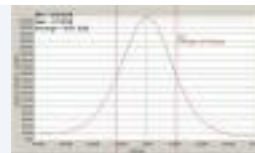


[View](#)



[Seoul P4 White](#)

Eff: 84.5
FWHM: 21
Cd/lm: 4.26

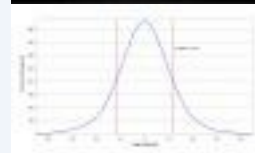


[View](#)



[Seoul SZ8Y11 White](#)

Eff: 88
FWHM: 22 X 23
Cd/lm: 4



[View](#)



[Seoul SZ8Y15 White](#)

Eff: 88
FWHM: 22
Cd/lm: 4.2

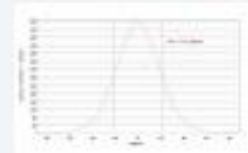


[View](#)



[Seoul SZ8Y19 White](#)

Eff: 86
FWHM: 22
Cd/lm: 3.78



[View](#)



[Seoul Z - Power Z5 M1 White](#)

Eff: 85.6
FWHM: 21
Cd/lm: 4.23



[View](#)



[Seoul Z - Power Z5M White](#)

FWHM: 21
Cd/lm: 5.4



[View](#)



[SSC Z - Power Z1 White](#)

Eff: 81
FWHM: 28
Cd/lm: 2.8

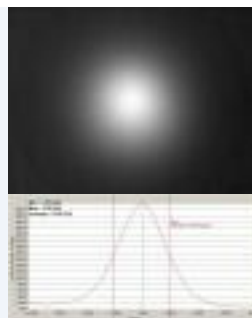


[View](#)



[SSC Z - Power Z5 White](#)

Eff: 83.2
FWHM: 21
Cd/lm: 5.4

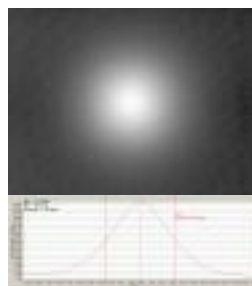


[View](#)



[SSC Z - Power Z5P White](#)

FWHM: 20
Cd/lm: 6.1

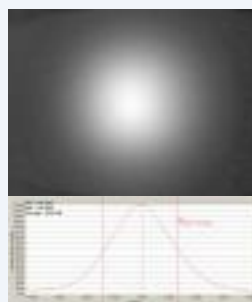


[View](#)



[Stanley 1N White](#)

FWHM: 26
Cd/lm: 3.6



[View](#)

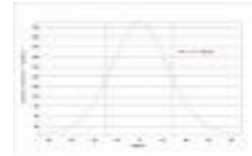


[Stanley 6J White](#)

Eff: 86
FWHM: 29
Cd/lm: 2.16



[View](#)



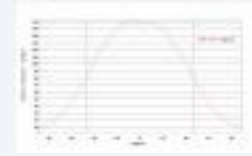
STANLEY

[Stanley 6J White](#)

Eff: 79
FWHM: 47
Cd/lm: 1.02



[View](#)



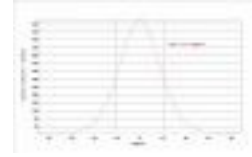
TOSHIBA

[Toshiba TL 1L2 White](#)

Eff: 85
FWHM: 21
Cd/lm: 4.3



[View](#)



TOSHIBA

[Toshiba TL 1L4 White](#)

Eff: 85
FWHM: 21
Cd/lm: 4.2



[View](#)

