AMERICAN BRIGHT OPTOELECTRONICS CORP.
Toll Free: 888-533-0800 | Fax: 909-628-5006
13815-C Magnolia Ave. Chino, CA 91710
www.americanbrightled.com

AB-L15D03Wxx4N2

Features:

- DC Linear light engine
- Easily assembly light engine

Applications:

- Cove light
- Ceiling light

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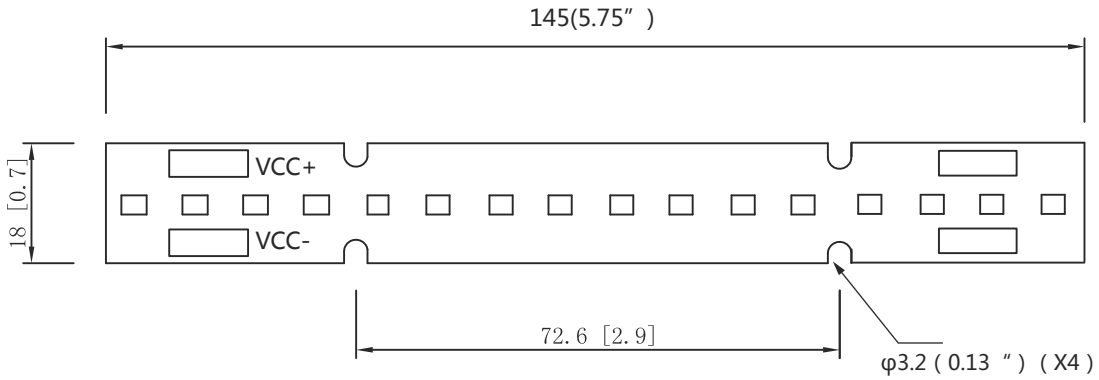
Outline Dimensions



LED Qty:16ea

PCB thickness=1.0mm(0.04")
Unit:mm(inch)

Units: mm

Notes:

1. 4 pcs terminal connectors were used for the serial connection
2. Thickness of PCB: 1.0mm
3. Tolerance of dimension: ±0.15mm

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Characteristics

■ Absolute Maximum Ratings

Parameter	Symbol	Rating	Unit
Input Current	Iin	300	mA
LED Junction Temperature	T_J	115	°C
Storage Temperature	T_{stg}	-40 ~ 100 °C	°C
Operation Temperature	T_{opr}	-40 ~ 45 °C	°C

- Proper current rating must be observed to maintain junction temperature below maximum at all time.For this product, we suggest to keep the Temperature of TC point under 75°C, and the temperature of Top IC surface under 115°C. After passing the maximum temperature of IC, the rating current will be lower automatically for protecting the whole circuit.

■Electrical Characteristics, Ta=25ºC

Parameter	Symbol	Spec	Max.	Unit
Forward voltage	Vf	24.4(typ.)		Vdc
Input Current	Iin	130	300	mA

■ Optical Characteristics (V_{in}=120V), Ta=25ºC

Model name	Color Temp	Spec Luminous Flux		Max Luminous Flux		CRI
	(K)	Current	lumen	Current	lumen	
AB-L15D03W304N2	3000	130	500	300	900	>80
AB-L15D03W354N2	3500	130	500	300	900	>80
AB-L15D03W404N2	4000	130	535	300	960	>80
AB-L15D03W504N2	5000	130	535	300	960	>80

- Correlated color Temperature is derived from the CIE 1931Chromaticity diagram.
- The luminous flux tolerance is ± 10%.
- This CRI value tolerance is ± 2.
- Calibration accuracy of CIEx and CIEy : ±0.007 ;
- Calibration error CCT 3000K ±175K ; 4000K ±300K

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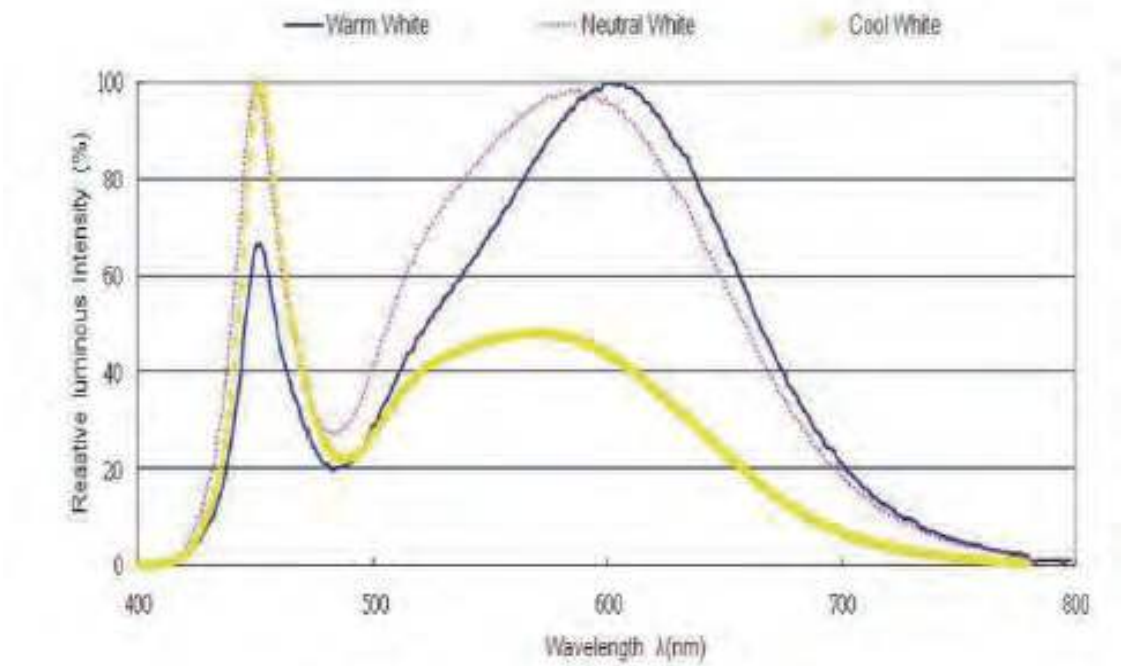
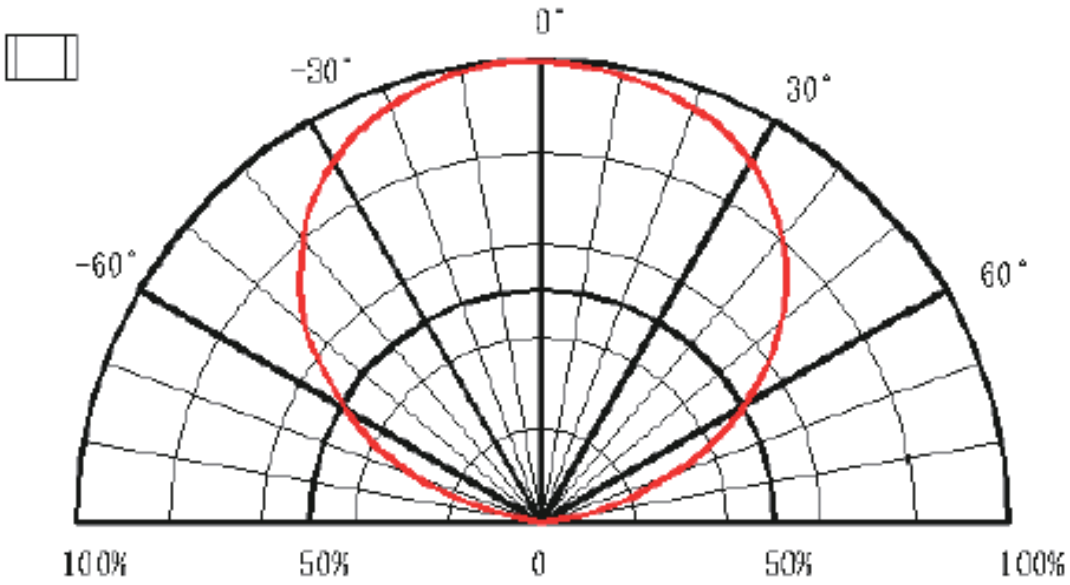
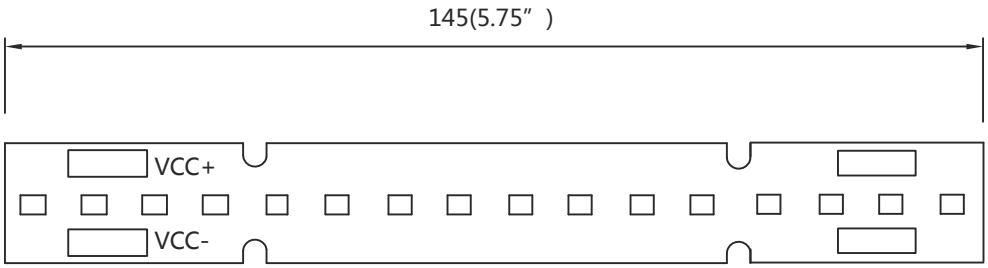
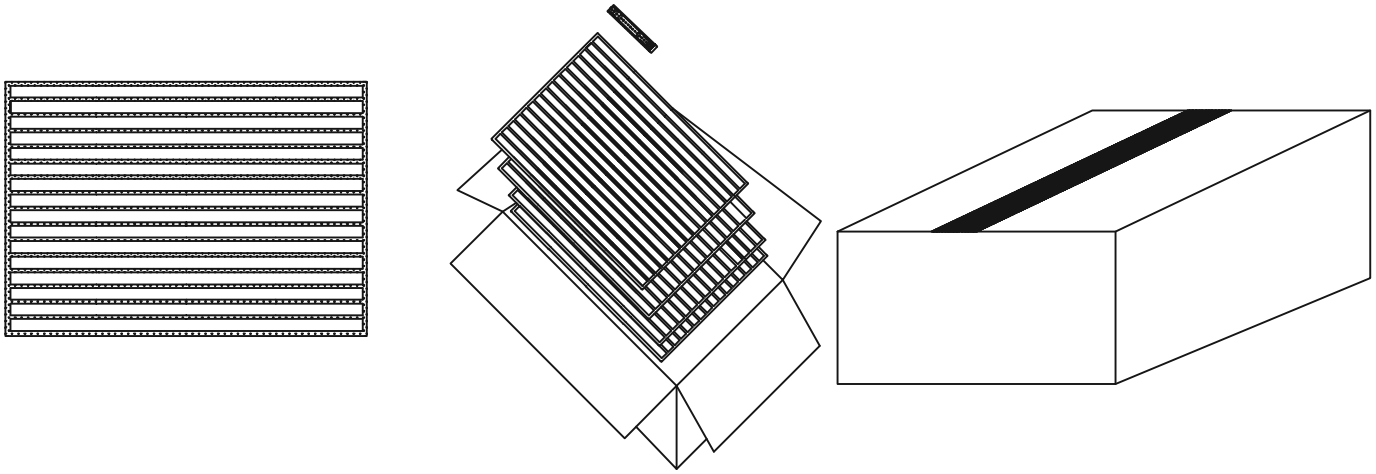
■ Relative Spectrum of Emission (Ta=25ºC)



■ Radiation Pattern

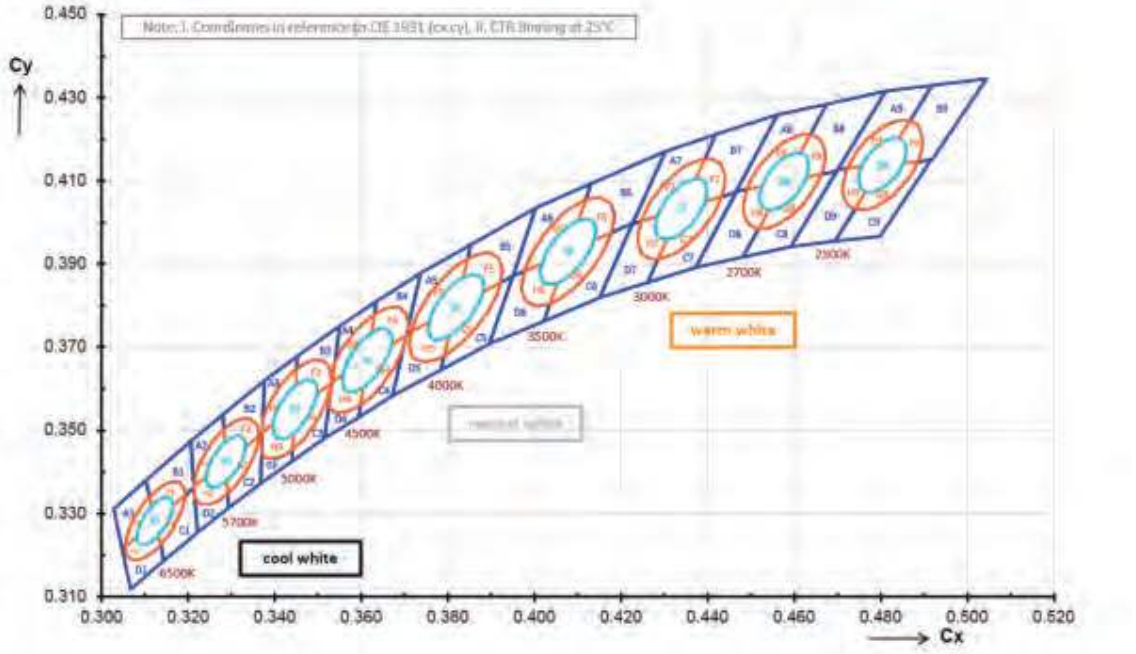




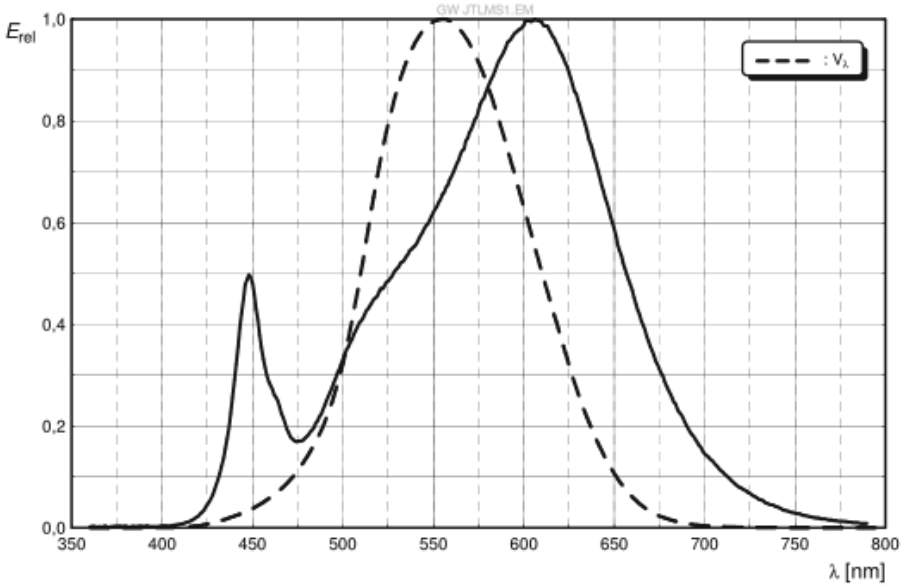


Model	Part number	box(pcs)	Ret Weight/box	Gross Weight/box
1	AB-L15D03Wxx4N2	250	4.8	5.8

Chromaticity Coordinate Groups 5) *page 24*
Farbortgruppen 5) *Seite 24*



Relative Spectral Emission - V(λ) = Standard eye response curve 6) *page 24*
Relative spektrale Emission - V(λ) = spektrale Augenempfindlichkeit 6) *Seite 24*
$\Phi_{rel} = f(\lambda)$; $T_J = 25$ °C; $I_F = 60$ mA



Radiation Characteristics 5) page 24
Abstrahlcharakteristik 6) Seite 24
$I_{rel} = f(\phi)$; $T_J = 25$ °C

Radiation Characteristics 5) page 24
Abstrahlcharakteristik 6) Seite 24
$I_{rel} = f(\phi)$; $T_J = 25$ °C