ERDBOAR

LED Type: VBDSH-2835-3000-648-24-NS **Colour:** 3000K



DESCRIPTION

Discover the limitless possibilities of lighting with our innovative 3000K (Warm White) Flexible LED Light Sheet. Thin, bendable, and easily shaped, it adapts flawlessly to various uses including signage, backlighting, trade shows, displays, and panels. Effortlessly create captivating designs by bending it into intricate shapes, and with cut lines in both directions, odd shapes are a breeze to achieve.

Installing our LED sheet is a breeze with slot-in and push-it electrical connections, wired and ready to go within minutes. Long lifespan of over 50,000 hours, and a high color rendering index (CRI). Illuminate curved objects like columns and point- of-sale displays with ease, opening up a world of creative possibilities.

SPECIFICATIONS

Model:	VBDSH-2835-3000-648-24-NS		
Color Temperature:	3000K (Warm White)		
LED Type:	2835 SMD		
LED Qty:	648 LEDs		
Input Voltage (VF):	24V DC		
Brightness:	1200Lm		
Power:	24W		
Lifespan:	>50,000 hours		
IP Rating:	IP20		
Rendering Index (Ra):	CRI>90+		
Beam Angle:	120°		
Dimmable:	Yes		
Cut Size:	Every 16.50mm (0.65")		
Installation Method:	3M Double Sided Tape		
Operating Temperature:	-15°C to +40°C		
Silicon Bumper Dimensions:	Ø 12mm x H 7.75mm (Ø 0.4" x H 0.3")		
Connector Size:	40mm (1.6") Sheet to Sheet		
	150mm (6") Sheet to Power		
	20AWG		
Certificates:	UL / RoHs		

Job Name:

Type:

Distributor:

Transform the ambiance of your interior spaces, including walls/floors, with these LED sheets, creating a stunning and captivating look.



Disclaimer:

The data and information contained in this specification sheet are subject to change without notice; the ratings supplied are provided based on the product manufacturer. The information contained in this specification sheet should not be considered a warranty, expressed or implied, including, but not limited to, a warranty of merchantability or fitness for a particular purpose. In no event shall Veroboard be liable for any incidental or consequential damages resulting from the use, misuse, or inability to use the product. This exclusion applies regardless of whether such damages are sought based on breach of warranty, breach of contract, negligence, strict liability in tort, or any other legal theory.



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DIMENSIONS

Free cut in any direction



Prior to installing the LED sheets, please take note and read each instruction attentively.

ATTENTION: To prevent electrical shortages, leave a 2mm gap between each LED sheets during assembly.





Ensure to check the polarity of the connectors; otherwise, the light will not turn on (pay attention to the input and output decals on each sheet). Those decals must be removed after installation.



Easily tailor the LED sheet to suit your requirements by cutting it in any direction.



The LED sheet comes with 3M double-sided tape backing, making it easy to apply on flat or curved surfaces such as wood, metal, stone.



Use the 6" cables to link the LED sheet to the power supply.



Use the 1.6" connectors to interconnect the LED sheets with each other.



Employing silicon bumpers to prevent direct contact between the stone marble and the LED sheet.



The flexibility of the LED sheet allows you to bend it on all directions.





Light Measurement Report Print date: 2023-07-31

Measurement date and time: 2023-07-31 1:11:05 PM – Measurement no. VFR-230731-0286-MS



Main Values	
Output (total Lumen)	1200 lm
Lumen Up% / Down%	0.91% / 99.09%
Peak Intensity	385 cd
Beam Angle (50%)	120°
Beam Angle (90%)	119°
Beam Angle (10%)	119°
Cut-off Angle	
Average 2,5%	178.7°
Field Angle	
Average 10%	164.6°
Intensity Ratio	
In 120° cone	76.4%
In 90° cone	51.0%
C000-C180	
C090-C270	

Linear distribution diagram - Intensity (candela) vs y-angle





Color details

0.8

0.7

0.6

0.5

0.4

0.3

0.2

0.1

0.0

Correlated Color Temperature, Target Correlated Color Temperature, Measured Color Rendering Index Color Rendering Index, R9 (red component) Color Rendering TM30-18 Color Quality Scale

CCT = 3000 K CCT = 2935 K CRI 91.5 R9 = 67.9 $R_f 88.6 - R_g 96.3$ CQS = 91.2

MacAdam Steps	SI
Color coordinates CIE 1931	(x
Color coordinate CIEs 1960	(ι
Color deviation from BBL	D
Color coordinate CIEs 1976 (CIELUV)	(ι

DCM = 4.6x;y) = (0.437;0.404) u;v) = (0.251;0.348) 0uv = -0.0046 u';v') = (0.251;0.521)

CIE 1931 – zoomed on Planckian locus



Color Rendering Index per reference color (CIE 1995)



97.9 95.2 90.8 94.0 96.5 88.9 86.8 81.9 67.9 90.3 97.5 77.4 97.9 95.9 94.0

TM30-18 Rf-values per hue bin





Spectral power distribution (SPD) / W/nm - 0-100%



Color Quality Scale by reference color





Beam Details

