

VEROBOARD®

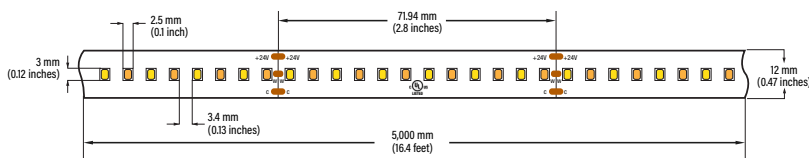
LED Type: VBDFS-2835-CW&WW-168-24-NS
Colour: 2700K-6000K (Adjustable CCT)



DESCRIPTION

Flexible 12 mm wide linear LED strip. Available in 5 meter (16.4 feet) rolls that can be cut every 12 LEDs (71.94 mm or 2.8 in). The LED Strip lights are manufactured with high-quality materials and designed for professional lighting. Every strip light begins with a heavy-duty dual-core copper printed circuit board (PC Board), it is then soldered with an array of chips and color options. Moreover, the strip lights comes with a strong 3M adhesive backing. They can be cut to any size (marked interval points) and rejoined by soldering.

DIMENSIONS



SPECIFICATIONS

Model:	VBDFS-2835-CW&WW-168-24-NS
Color Temperature:	2700K-6000K (Adjustable colour temperature from Warm White to Cool White)
LED Type:	2835 SMD
LED Qty:	168 LEDs per meter
LM/LED:	20-22 Lm per LED
Input Voltage (VF):	24V DC
Power:	15W per meter (5W/ft)
Brightness:	3360-3696 Lm/meter (1024-1126 Lm/ft)
Lifespan:	>50,000 hours
PCB:	4oz PCB, Double-side, white colour 12mm width
IP Rating:	IP20 (Indoor use only)
Rendering Index (Ra):	CRI>95
Beam Angle:	120°
Dimmable:	Yes
Cut Size:	Every 12 LED chips (2.8")
Operating Temperature:	-15°C to +40°C
Dimensions:	5,000 x 12 x 1.5mm (196.8" x 0.47" x 0.05")
Certificates:	UL / RoHs
Roll Length:	5 meter roll (16.4ft)

Contact Name: _____

Company: _____

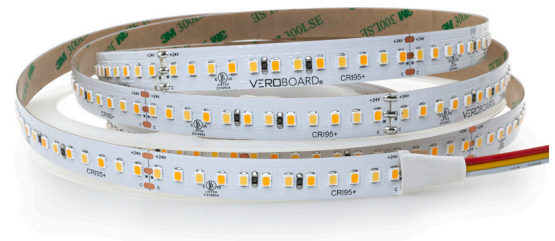
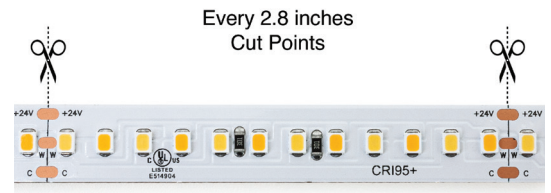
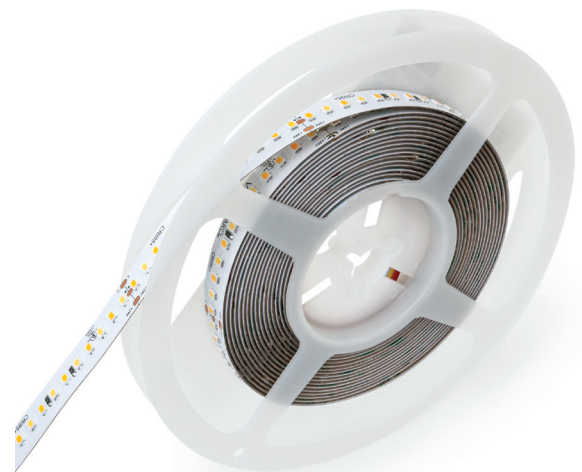
Phone: _____

Email: _____

	Wattage	Brightness
Per Foot	5W/ft	1024-1126Lm/ft
Per Meter	15W/m	3360-3696Lm/m



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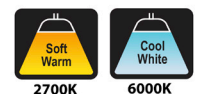


ORDERING GUIDE

Example part number: **VBDFS - 2835 - CW&WW - 168 - 24 - NS**

MODEL	SERIES	COLOUR	LEDS/METER	VOLTAGE	LENGTH
VBDFS	2835	XXXX 2700K-6000K	168	24V	XXXX Custom Length

NS (Full Roll 5 Meter)



For more information about our products and services, please visit our website: www.veroboard.com

Light Measurement Report

Print date: 2023-04-26

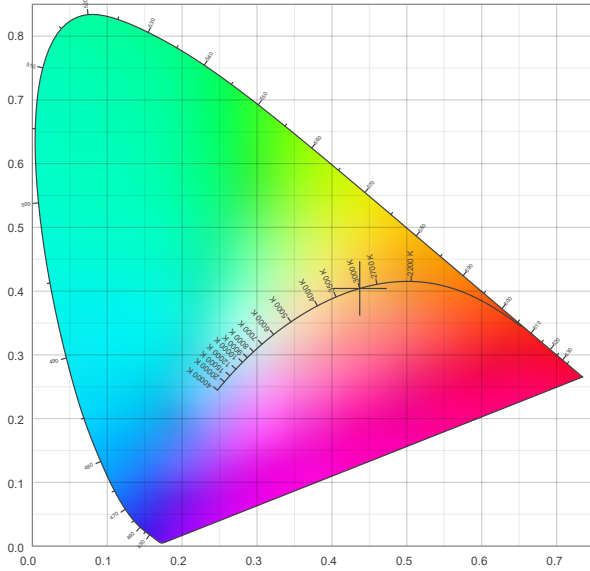
Measurement date and time: 2023-04-26 3:33:45 PM – Measurement no. VFR-230426-0177-MS

Color details

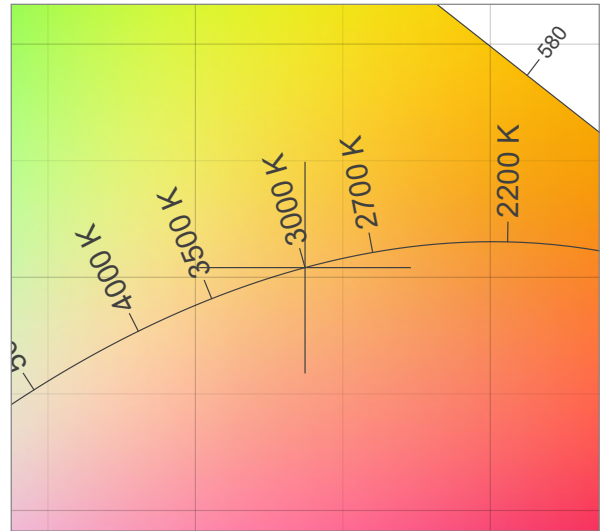
Correlated Color Temperature, Target CCT = 3000 K
 Correlated Color Temperature, Measured CCT = 2916 K
 Color Rendering Index CRI 97.1
 Color Rendering Index, R9 (red component) R9 = 97.6
 Color Rendering TM30-18 R_f 94.4 – R_g 102.1
 Color Quality Scale CQS = 95.0

MacAdam Steps
 Color coordinates CIE 1931 (x;y) = (0.437;0.404)
 Color coordinate CIEs 1960 (u;v) = (0.251;0.348)
 Color deviation from BBL Duv = -0.0036
 Color coordinate CIEs 1976 (CIELUV) (u';v') = (0.251;0.251)

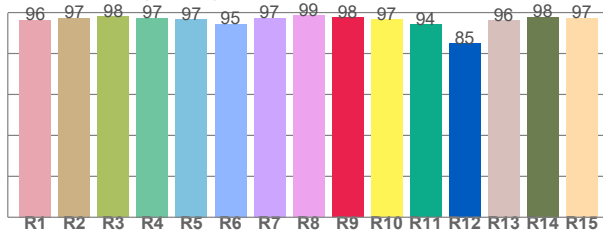
CIE 1931



CIE 1931 – zoomed on Planckian locus



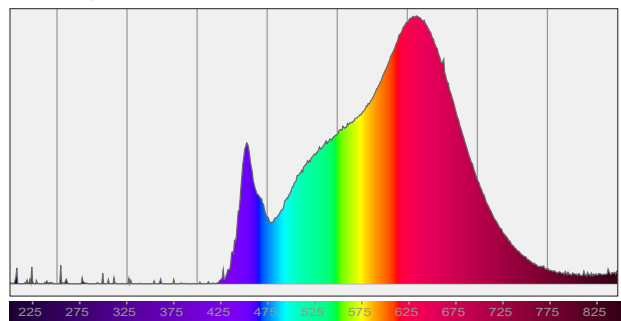
Color Rendering Index per reference color (CIE 1995)



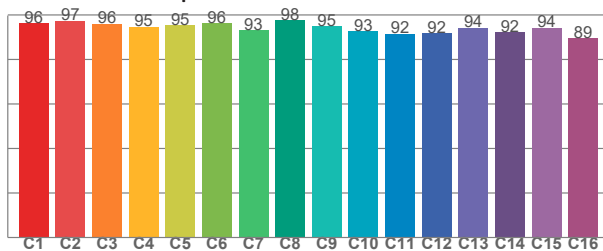
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
96.5	97.4	98.2	97.3	96.7	94.5	97.4	98.5	97.6	96.6	94.1	85.0	96.3	97.9	97.4

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



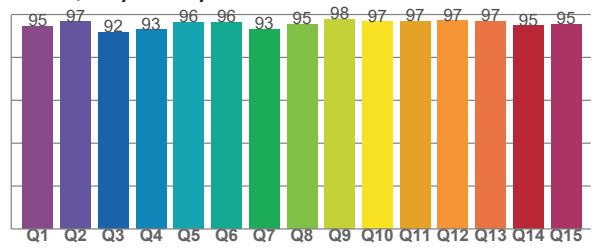
TM30-18 Rf-values per hue bin



TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
96.3	97.4	96.0	94.6	95.4	96.2	93.1	97.7	95.0	92.6	91.5	91.8	94.3	92.3	94.2	89.4

Color Quality Scale by reference color



CQS Q values

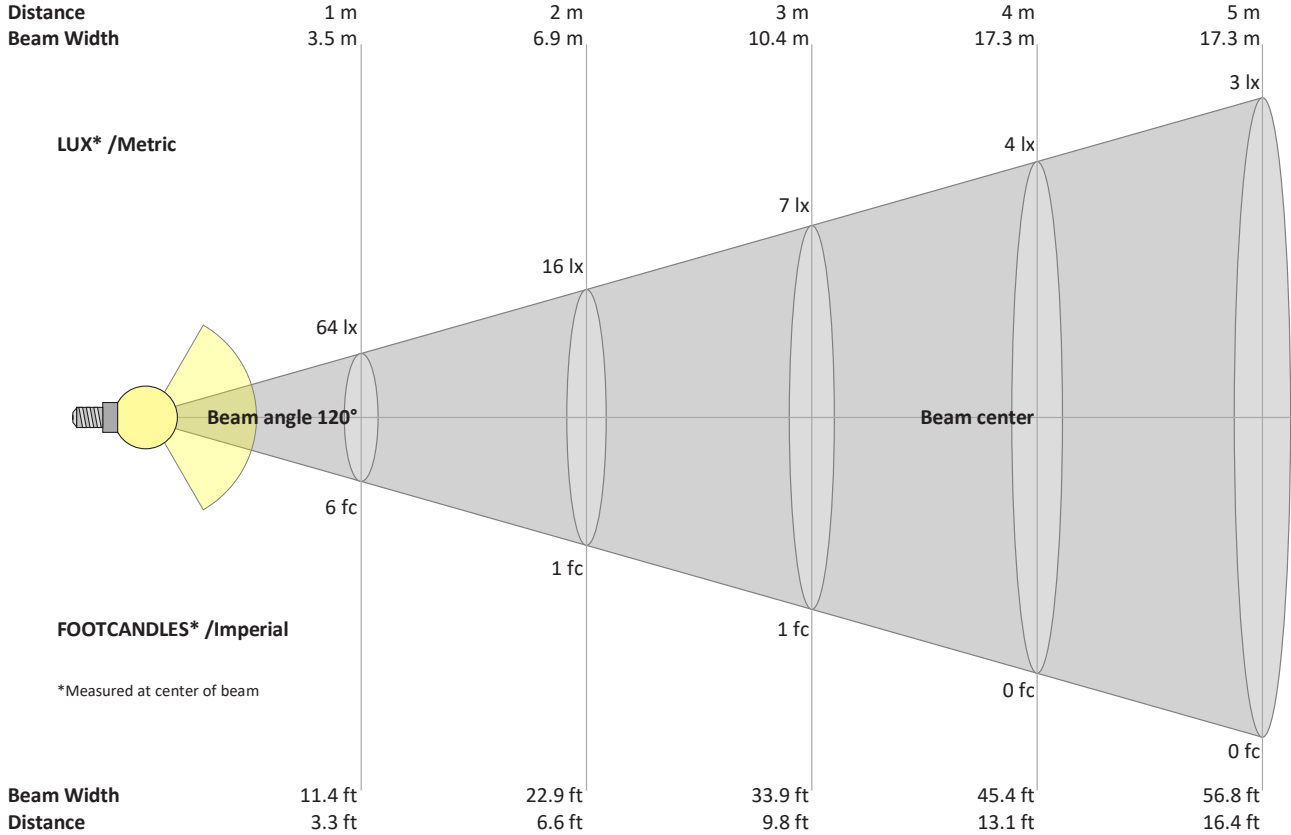
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94.6	96.6	91.7	92.9	96.4	96.3	93.2	95.4	97.8	96.6	96.8	97.1	96.9	94.7	95.4

Light Measurement Report

Print date: 2023-04-26

Measurement date and time: 2023-04-26 3:33:45 PM – Measurement no. VFR-230426-0177-MS

Beam Details



Beam intensities from 1 – 20 m

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	m	
3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6	ft	
64	16	7	4	3	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	lux
6	1.5	0.7	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0	0	0	0	0	0	0	0	0	0	0	fc

Intensities in 0° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ	
64.1	64.0	63.5	62.5	61.2	59.2	56.8	53.8	50.5	46.8	42.4	37.7	32.7	27.4	21.7	15.7	9.9	4.7	0.9	0.1	0.1	cd
100%	100%	99%	98%	96%	92%	89%	84%	79%	73%	66%	59%	51%	43%	34%	25%	16%	7%	1%	0%	0%	of 0°val

Intensities in 90° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ	
64.1	64.2	63.8	62.9	61.3	59.5	57.0	54.0	50.7	46.8	42.6	37.8	32.9	27.5	21.7	15.6	9.9	4.6	0.9	0.2	0.2	cd
100%	100%	100%	98%	96%	93%	89%	84%	79%	73%	66%	59%	51%	43%	34%	24%	15%	7%	1%	0%	0%	of 0°val

Intensities in 180° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ	
64.1	63.3	62.3	60.7	58.7	56.2	53.2	49.9	46.1	41.8	37.2	32.3	26.9	21.4	15.6	9.8	4.8	1.2	0.1	0.1	0.1	cd
100%	99%	97%	95%	92%	88%	83%	78%	72%	65%	58%	50%	42%	33%	24%	15%	8%	2%	0%	0%	0%	of 0°val

Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ	
64.1	63.7	62.5	61.0	58.8	56.4	53.5	50.0	46.1	41.8	37.2	32.2	26.8	21.3	15.4	9.3	3.5	0.9	0.1	0.1	0.1	cd
100%	99%	98%	95%	92%	88%	83%	78%	72%	65%	58%	50%	42%	33%	24%	14%	6%	1%	0%	0%	0%	of 0°val