

VEROBOARD®

LED Type: VBDFS-L2835-XXXX-120-24-NS
Colour: 2700K • 3000K • 3500K • 4000K • 5000K • 6000K

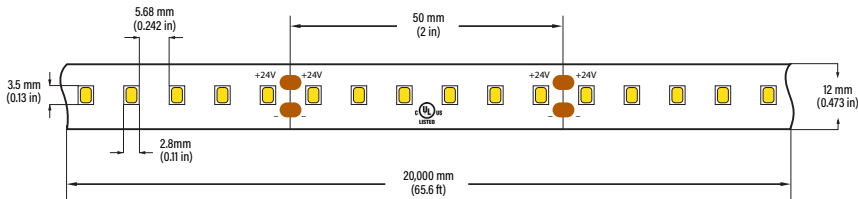
	Wattage	Brightness
Per Foot	3W/ft	298Lm/ft
Per Meter	10W/m	980Lm/m



DESCRIPTION

Flexible 12 mm wide linear LED strip. Available in 20 meter (65.6 feet) rolls that can be cut every 6 LEDs (50.8 mm or 2 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 come with a strong 3M adhesive backing. You can also purchase our high quality plastic mounting clips for installing LED strips to mount on any rough materials and withstand high temperatures without impairing the brightness of the LED. They can be cut to any size (marked interval points) and rejoined by soldering.

DIMENSIONS



SPECIFICATIONS

Model:	VBDFS-L2835-xxxx-120-24-NS
Color Temperature:	2700K • 3000K • 3500K • 4000K • 5000K • 6000K
LED Type:	2835 SMD
LED Qty:	120 LEDs per meter
LM/LED:	8-10 Lm per LED
Input Voltage (VF):	24V DC
Power:	10W per meter (3W/ft)
Brightness:	980 Lm/meter (298 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 6 LED chips (2 inches)
Operating Temperature:	-15°C to +40°C
Dimensions:	20,000mm x 12mm (787.2in x 0.47in)
Certificates:	UL / RoHS
Roll Length:	20 meter roll (65.6 feet)

Contact Name: _____

Company: _____

Phone: _____

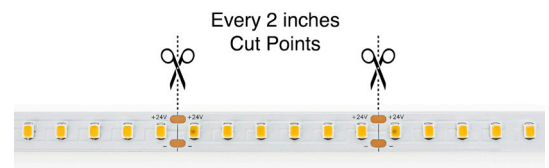
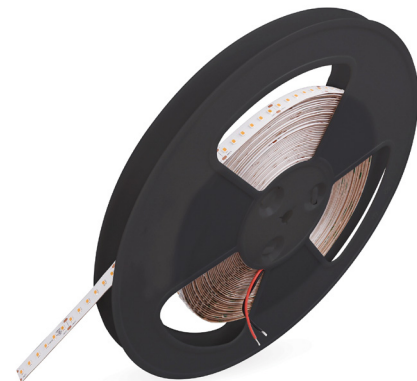
Email: _____



666561419653 666561419660 666561419677



666561419684 666561419691 666561419707



ORDERING GUIDE

Example part number: **VBDFS - L2835 - XXXX - 120 - 24 - NS**

MODEL	SERIES	COLOUR	LEDS/METER	VOLTAGE	LENGTH
VBDFS	L2835	XXXX 2700K 4000K 3000K 5000K 3500K 6000K	120	24V	XXXX Custom Length NS (Full Roll 20 Meter)

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

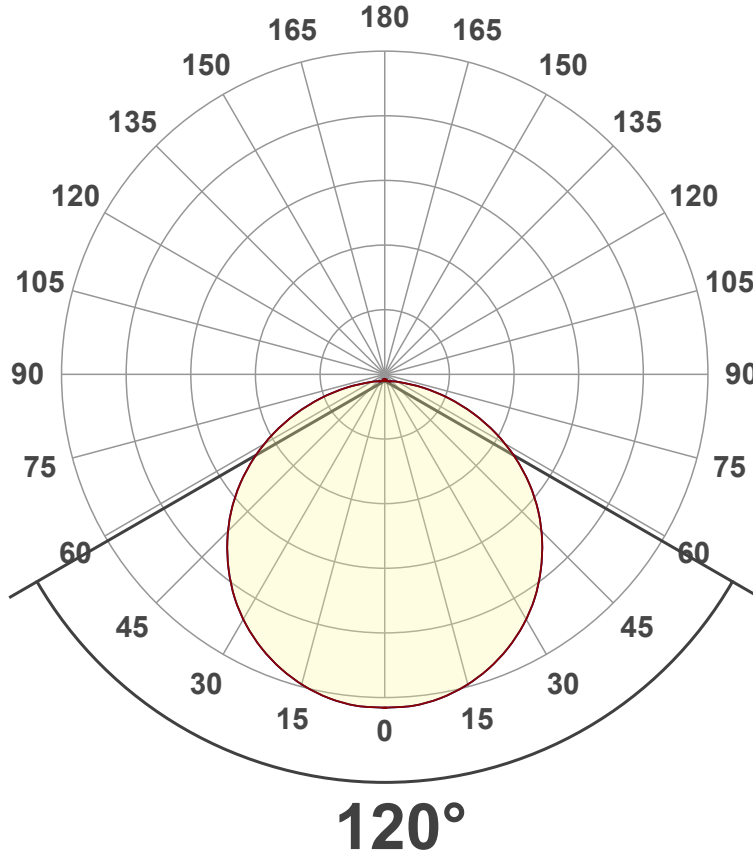
Light Measurement Report

Print date: 2023-05-02

Measurement date and time: 2023-05-02 11:22:03 AM – Measurement no. VFR-230502-0193-MS

Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Lumen Up% / Down%	0.61% / 99.39%
Peak Intensity	18.8 cd
Beam Angle (50%)	120°
Beam Angle (90%)	116.1°
Beam Angle (10%)	116.1°

Cut-off Angle

Average 2,5%	175.3°
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Field Angle

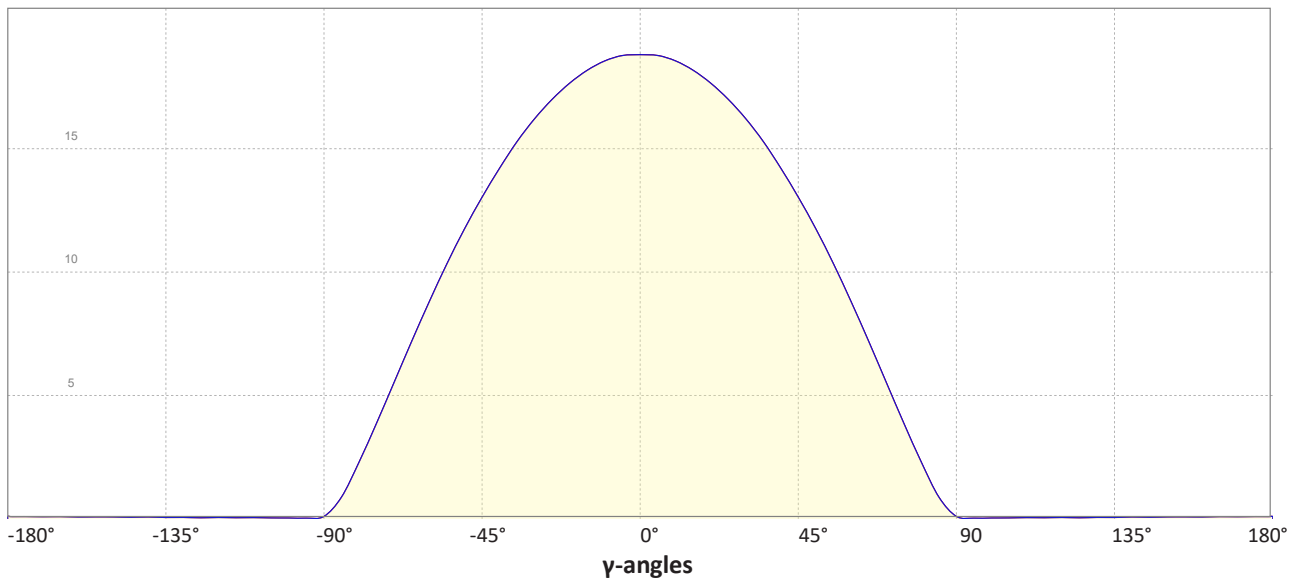
Average 10%	163°
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Intensity Ratio

In 120° cone	77.4%
In 90° cone	52.1%

C000-C180
C090-C270

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



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Color details

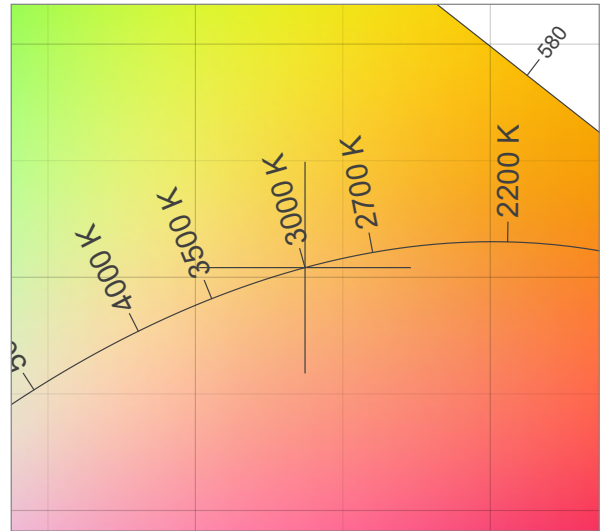
Correlated Color Temperature, Target CCT = 3000 K
 Correlated Color Temperature, Measured CCT = 3013 K
 Color Rendering Index CRI 96.2
 Color Rendering Index, R9 (red component) R9 = 94.0
 Color Rendering TM30-18 R_f 93.1 – R_g 100.5
 Color Quality Scale CQS = 95.4

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 = -0.0020
 Color coordinate CIEs 1976 (CIELUV) (u'';v'') = (0.251;0.251)

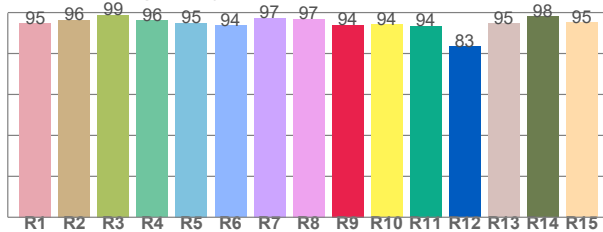
CIE 1931



CIE 1931 – zoomed on Planckian locus



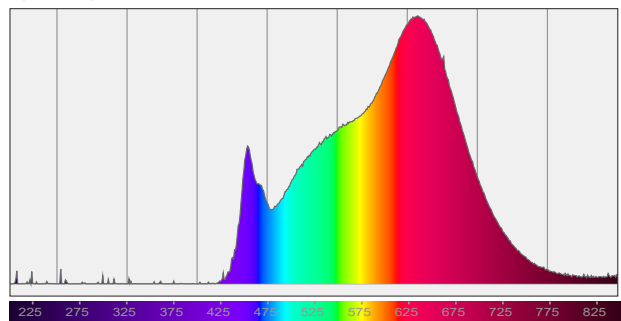
Color Rendering Index per reference color (CIE 1995)



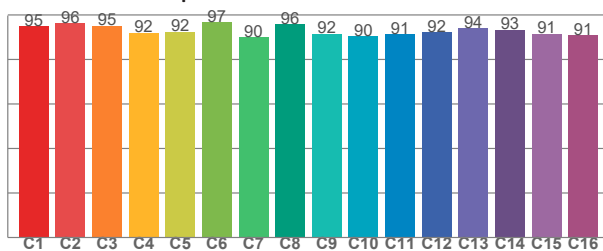
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94.8	96.5	98.8	96.2	95.0	93.7	97.5	96.9	94.0	94.3	93.5	83.4	94.7	98.2	95.2

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



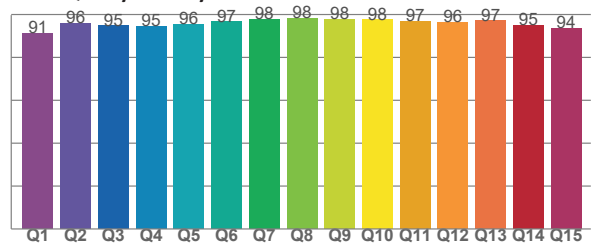
TM30-18 R_f-values per hue bin



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
94.9	96.2	95.1	91.9	92.5	96.7	90.0	95.8	91.6	90.5	91.3	92.2	94.0	93.3	91.4	90.9

Color Quality Scale by reference color



CQS Q values

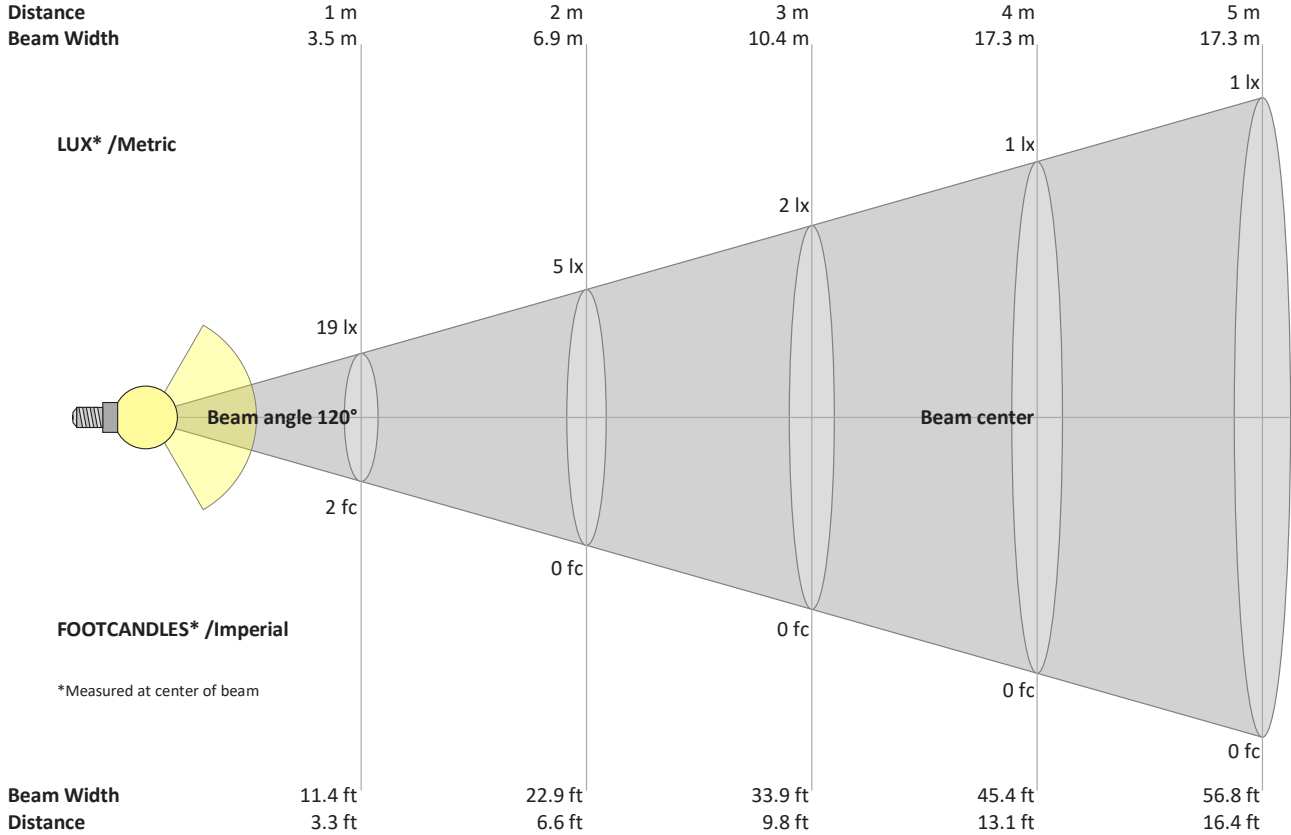
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91.3	96.0	94.7	94.6	95.5	96.6	97.8	98.2	97.8	97.5	96.9	96.4	97.1	95.1	93.6

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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
19	5	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	lux
1.7	0.4	0.2	0.1	0.1	0	0	0	0	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°	y
18.8	18.8	18.6	18.2	17.7	17.0	16.2	15.3	14.2	13.0	11.7	10.3	8.8	7.2	5.5	3.9	2.3	0.9	0.1	0.0	cd
100%	100%	99%	97%	94%	90%	86%	81%	76%	69%	62%	55%	47%	38%	29%	21%	12%	5%	1%	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°	y
18.8	18.8	18.6	18.2	17.7	17.0	16.2	15.3	14.2	13.0	11.7	10.3	8.8	7.2	5.5	3.9	2.3	0.9	0.1	0.0	cd
100%	100%	99%	97%	94%	90%	86%	81%	76%	69%	62%	55%	47%	38%	29%	21%	12%	5%	1%	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°	y
18.8	18.8	18.6	18.2	17.7	17.0	16.2	15.3	14.2	13.0	11.7	10.3	8.8	7.2	5.5	3.9	2.3	0.9	0.1	0.0	cd
100%	100%	99%	97%	94%	90%	86%	81%	76%	69%	62%	55%	47%	38%	29%	21%	12%	5%	1%	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°	y
18.8	18.8	18.6	18.2	17.7	17.0	16.2	15.3	14.2	13.0	11.7	10.3	8.8	7.2	5.5	3.9	2.3	0.9	0.1	0.0	cd
100%	100%	99%	97%	94%	90%	86%	81%	76%	69%	62%	55%	47%	38%	29%	21%	12%	5%	1%	0%	of 0°val