

VEROBOARD®

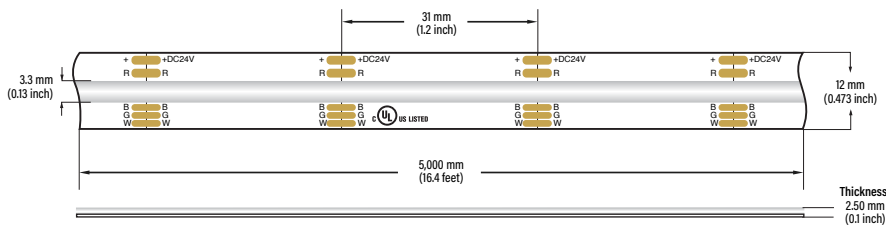
LED Type: VBDFS-COB896W6.6-RGB30K-24S
Color: RGB+3000K (Warm White)



DESCRIPTION

Flexible 12mm wide linear LED strip. Available in 5 meter (16.4') rolls that can be cut every 1.2". The LED Strip lights are manufactured with high-quality materials and designed for professional lighting. Every strip light begins with a heavyduty dual-core copper printed circuit board (PC Board), which is then soldered with an array of chips and color options. Moreover, the strip lights come with a strong 3M adhesive backing. They can be cut to any size (marked interval points) and rejoined by soldering. The RGB30K COB LED Strips can work with LED Controllers to adjust the static shade or dynamic settings, you can readjust the rate of dynamic setting or the illumination of fixed color.

DIMENSIONS



SPECIFICATIONS

Model:	VBDFS-COB896W6.6-RGB30K-24S
Color Temperature:	RGB+3000K (Warm White)
LED Type:	COB
LED Qty:	896 LEDs per meter
Input Voltage (VF):	24V DC
Power:	20W per meter (6.6W/ft)
Lifespan:	>50,000 hours
PCB:	3oz PCB, Double-side, white Color 12mm width
IP Rating:	IP20 (Indoor use only)
Rendering Index (Ra):	CRI>95
Beam Angle:	120°
Dimmable:	Yes
Cut Size:	Every 1.2"
Operating Temperature:	-15°C to +40°C
Dimensions:	5,000 x 12 x 2.15mm (196.8" x 0.473" x 0.08")
Certificates:	UL / cUL / RoHS
Roll Length:	5 meter roll (16.4ft)

Job Name: _____

Distributor: _____

Type: _____

	Wattage
Per Foot	6.6W/ft
Per Meter	20W/m



666561437084



3 pcs
Strip-to-Wire Connectors
included.



ORDERING GUIDE

Example part number: **VBDFS - COB896W6.6 - RGB30K - 24 - S**

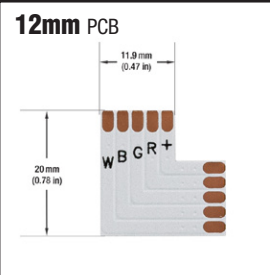
MODEL	SERIES	COLOR	VOLTAGE	LENGTH
VBDFS	COB896W6.6	RGB+3000K	24V	S
				XXXX
				Custom Length
				Full Roll (5m)

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

[veroboard.com](http://www.veroboard.com)

AVAILABLE CONNECTORS (Sold Separately)

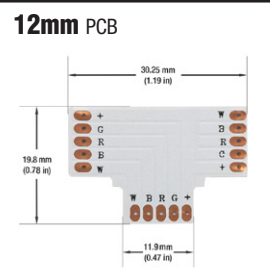
Note: Connectors fit in some aluminum channels only.



12mm PCB

MODEL: VBD-FPC12-L5A
Material: PCB
Strip Light Width: 12mm
Package Content: L Shape PCB Connectors (Pack of 3)

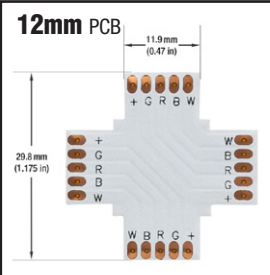
☐ 666561406943



12mm PCB

MODEL: VBD-FPC12-T5A
Material: PCB
Strip Light Width: 12mm
Package Content: T Shape PCB Connectors (Pack of 3)

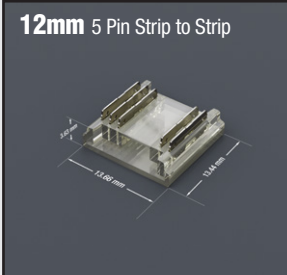
☐ 666561406936



12mm PCB

MODEL: VBD-FPC12-C5A
Material: PCB
Strip Light Width: 12mm
Package Content: 4 Way PCB Connectors (Pack of 3)

☐ 666561406929



12mm 5 Pin Strip to Strip

MODEL: VBD-RGBWBC-12MM-2S
Material: Clear Plastic
Strip Light Width: 12mm
Package Content: LED Strip to Strip Connector (Pack of 1)
Dimensions: 13.66 x 13.44 x 3.63mm (0.54" x 0.53" x 0.14")

☐ 666561436056

AVAILABLE CONTROLLERS (Sold Separately)



Model: RC03RFB-RGBWCCT-4Z
SKU: 666561435110



Model: RC05RFB-RGBWCCT-8Z
SKU: 666561435127



Model: VBD-MI-4Z-B3
SKU: 666561412913

AVAILABLE RECEIVER (Sold Separately)

tuya RGBW



Model: VBD-WCON4CL-12A-RGBW
SKU: 666561435073

AVAILABLE DMX512 & RDM DECODER (Sold Separately)



Model: SR-2108B-M5-5
SKU: 666561412623

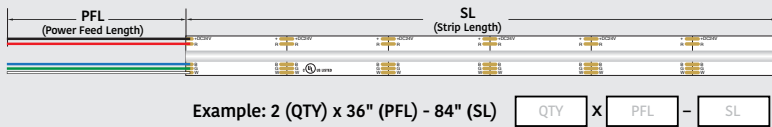
Disclaimer:

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.

CUSTOM ORDERING GUIDE ✂

Single Run (Straight Run): The below ordering guide will be used for single run LED strip.

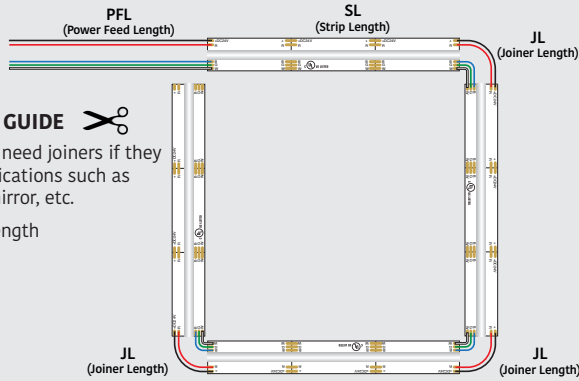
- **PFL:** Power Feed Length
- **SL:** Strip Length



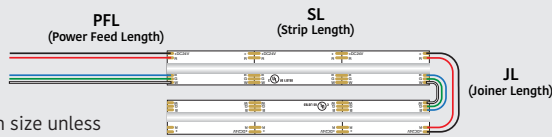
CUSTOM ORDERING GUIDE ✂

Joiner: LED strip lights need joiners if they are used for curve applications such as corner side, behind a mirror, etc.

- **PFL:** Power Feed Length
- **SL:** Strip Length
- **JL:** Joiner Length



Note: Joiners will be 1-inch size unless customers require a specific size.



RECOMMENDED LED ALUMINUM CHANNELS

(Sold Separately)

VBD-CH-S4 SKU: 666561423278	VBD-CH-S4B SKU: 666561423285	VBD-CH-S6 SKU: 666561423315
VBD-CH-S5 SKU: 666561423292	VBD-CH-S5B SKU: 666561423308	VBD-CH-B1 SKU: 666561423360
VBD-CH-C2 SKU: 666561423506	VBD-CH-C2B SKU: 666561423513	VBD-CH-RF4 SKU: 666561423377
VBD-CH-RF1 SKU: 666561423339	VBD-CH-RF1B SKU: 666561423346	VBD-CH-C1 SKU: 666561423490
VBD-CH-C3 SKU: 666561423520	VBD-CH-C3B SKU: 666561423537	VBD-CH-W1 SKU: 666561423445
VBD-CH-RF7 SKU: 666561423407	VBD-CH-RF8 SKU: 666561423414	VBD-CH-S2 SKU: 666561423254
VBD-CH-WC4 SKU: 666561423629	VBD-CH-WC5 SKU: 666561423636	VBD-CH-ST2 SKU: 666561423582
VBD-CH-S3 SKU: 666561423261	VBD-CH-RF6 SKU: 666561423391	VBD-CH-RF5 SKU: 666561423384
VBD-CH-C4 SKU: 666561423544	VBD-CH-C4B SKU: 666561423551	VBD-CH-D10 SKU: 666561430023
VBD-CH-RF2 SKU: 666561423353	VBD-CH-RF3 SKU: 666561423360	
VBD-CH-R2 SKU: 666561423742	VBD-CH-R2B SKU: 666561428280	

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

VBD-CH-WC1 SKU: 666561423599	VBD-CH-WC2 SKU: 666561423605	VBD-CH-WC3 SKU: 666561423612	VBD-CH-S1 SKU: 666561423247	VBD-CH-R3 SKU: 666561423759	VBD-CH-RF10 SKU: 666561423438
VBD-CH-S55 SKU: 666561429966	VBD-CH-S55B SKU: 666561429973	VBD-CH-C5 SKU: 666561423568	VBD-CH-R1 SKU: 666561423735	VBD-CH-D1 SKU: 666561423643	VBD-CH-D5 SKU: 666561423681
VBD-CH-RS5 SKU: 666561428631	VBD-CH-RS5B SKU: 666561428648	VBD-CH-D7 SKU: 666561423704	VBD-CH-D8 SKU: 666561423711	VBD-CH-D9 SKU: 666561423728	
VBD-CH-M1 SKU: 666561423773	VBD-CH-M1B SKU: 666561431013	VBD-CH-E1 SKU: 666561423483			

Note: To avoid a dark spot on the sides of these channels (RF10, RF6, RF8, R3, S1, R3) we recommend installing more than one Run LED Strip. For more details please contact us at: sales@veroboard.com

RECOMMENDED LED POWER SUPPLIES (Sold Separately)

For more options and varieties, please visit our website: www.veroboard.com

Constant Voltage Dimmable LED Drivers (5 in 1), Triac/Phase, 0-10V, 1-10V, Potentiometer, 10V PWM 5 in 1 Dimming



Model No.	Input Voltage	Output Voltage	Wattage	IP Rating	Class	Max. Strip Length	SKU#
VBD-024-030C2DM5i1	100-277V	24V	30W	IP67	Class 2	3.6ft	666561426033
VBD-024-060C2DM5i1	100-277V	24V	60W	IP67	Class 2	7.2ft	666561426040
VBD-024-080C2DM5i1	100-277V	24V	80W	IP67	Class 2	9.6ft	666561426088
VBD-024-096C2DM5i1	100-277V	24V	96W	IP67	Class 2	11.6ft	666561426057
VBD-024-192C2DM5i1	100-277V	24V	192W (2x96W)	IP67	Class 2	23.2ft	666561426064
VBD-024-200TR010	100-277V	24V	200W	IP65	Type HL	24.2ft	666561435912
VBD-024-288C2DM5i1	100-277V	24V	288W (3x96W)	IP67	Class 2	34.9ft	666561426071
VBD-024-300TR010	100-277V	24V	300W	IP65	Type HL	36.3ft	666561435929

Constant Voltage Triac LED Drivers forward Phase, Magnetic Low Voltage & Triac Dimmers



Model No.	Input Voltage	Output Voltage	Wattage	IP Rating	Class	Max. Strip Length	SKU#
VBD-024-024DM	100-130V	24V	24W	IP20	Class 2	2.9ft	666561415839
VBD-024-048DM	100-130V	24V	48W	IP20	Class 2	5.8ft	666561415822
VBD-024-060DM	100-130V	24V	60W	IP20	Class 2	7.2ft	666561415815
VBD-024-096DM	100-130V	24V	96W	IP67	Class 2	11.6ft	666561415808
VBD-024-150DM	100-130V	24V	150W	IP67	-	18.1ft	666561415792
VBD-024-200DM	100-130V	24V	200W	IP67	-	24.2ft	666561415785
VBD-024-300VTHWJ	100-277V	24V	300W	IP65	-	36.3ft	666561419806

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

PLUG-IN DRIVERS



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.

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

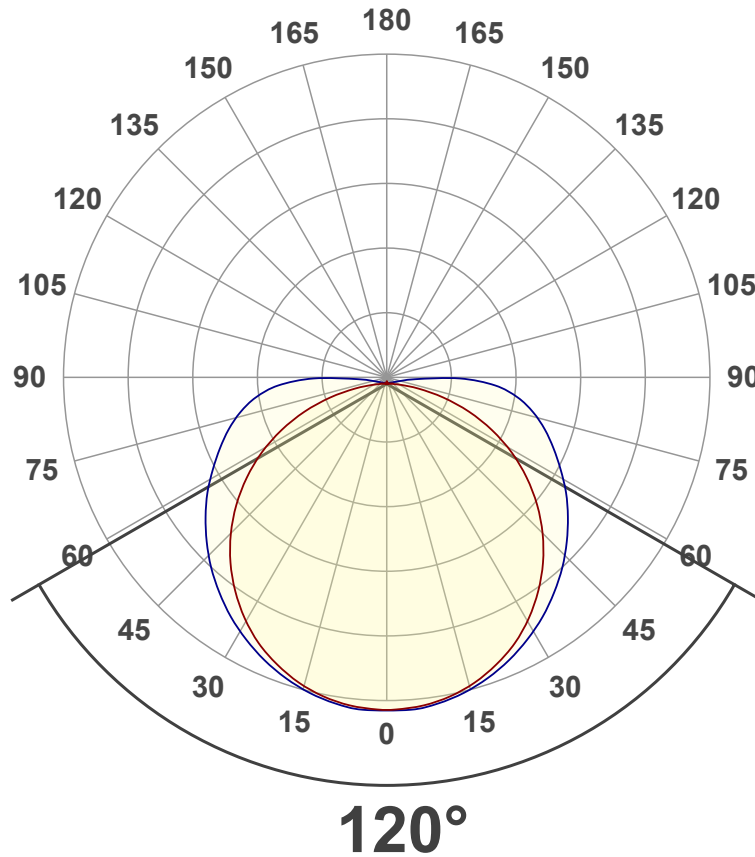
Light Measurement Report

Print date: 2023-05-02

Measurement date and time: 2023-05-02 12:40:15 PM – Measurement no. VFR-230502-0197-MS

Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Lumen Up% / Down%	3.87% / 96.13%
Peak Intensity	5.38 cd
Beam Angle (50%)	120°
Beam Angle (90%)	150.8°
Beam Angle (10%)	116.2°

Cut-off Angle

Average 2,5%	192.7°
--------------	--------

Field Angle

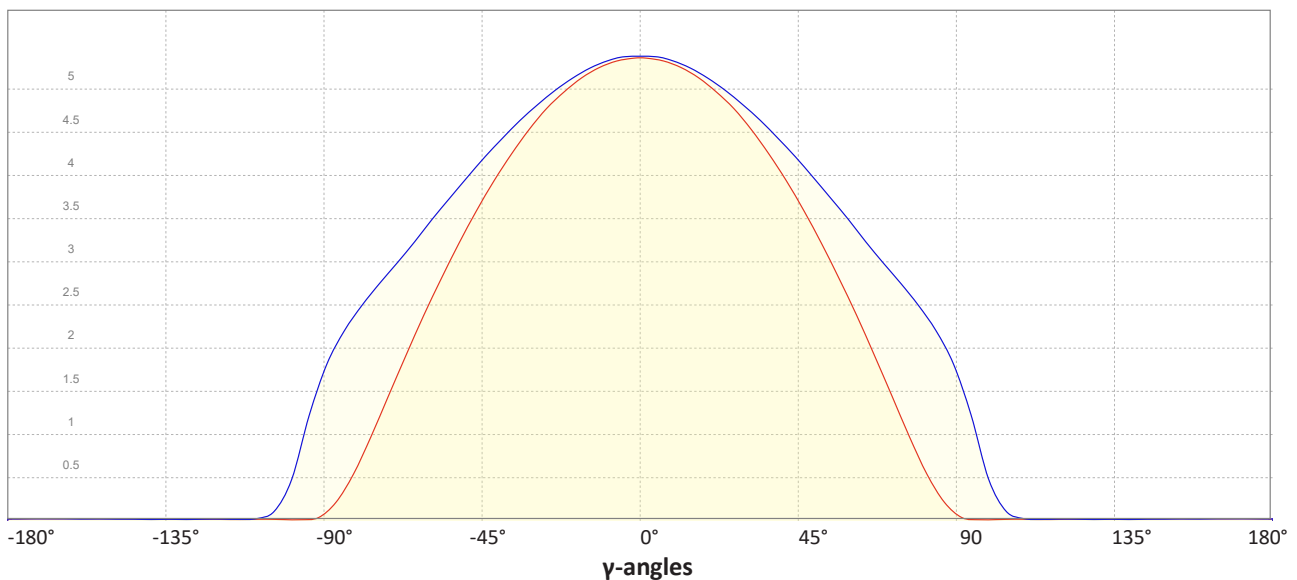
Average 10%	180.5°
-------------	--------

Intensity Ratio

In 120° cone	65.9%
In 90° cone	43.2%

C000-C180
C090-C270

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



Light Measurement Report

Print date: 2023-05-02

Measurement date and time: 2023-05-02 12:40:15 PM – Measurement no. VFR-230502-0197-MS

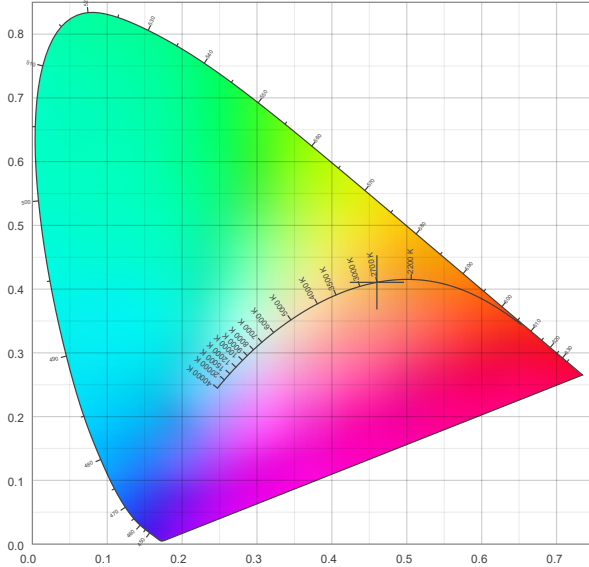


Color details

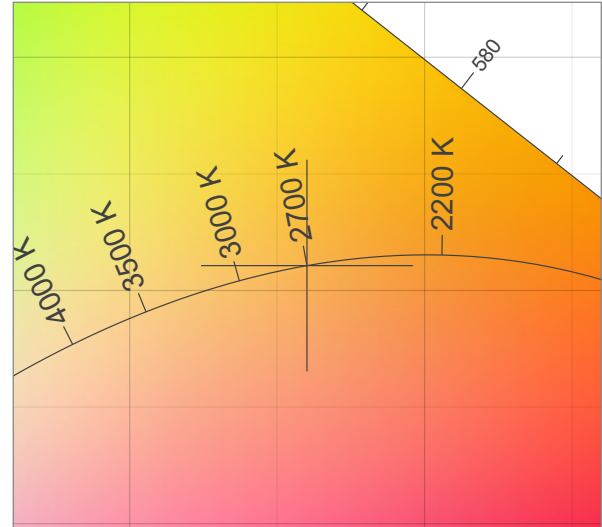
Correlated Color Temperature, Target CCT = 2700 K
Correlated Color Temperature, Measured CCT = 2642 K
Color Rendering Index CRI 95.3
Color Rendering Index, R9 (red component) R9 = 74.6
Color Rendering TM30-18 R_f 91.6 – R_g 94.0
Color Quality Scale CQS = 82.9

MacAdam Steps
Color coordinates CIE 1931 (x;y) = (0.460;0.411)
Color coordinate CIEs 1960 (u';v') = (0.263;0.352)
Color deviation from BBL Duv = 0.0069
Color coordinate CIEs 1976 (CIELUV) (u';v') = (0.263;0.263)

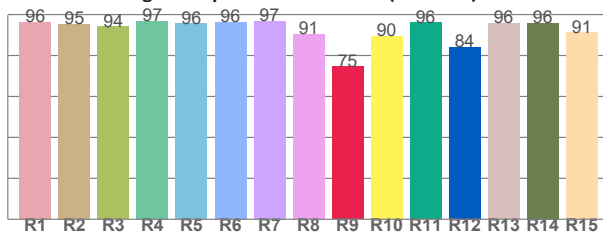
CIE 1931



CIE 1931 – zoomed on Planckian locus



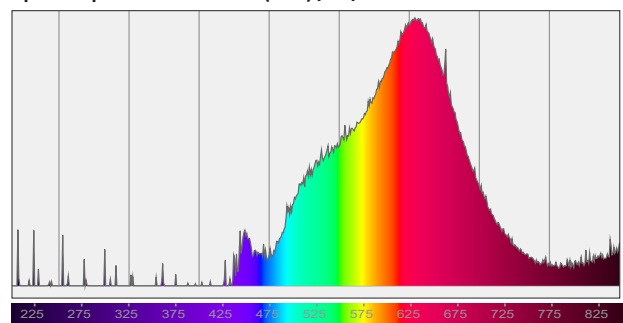
Color Rendering Index per reference color (CIE 1995)



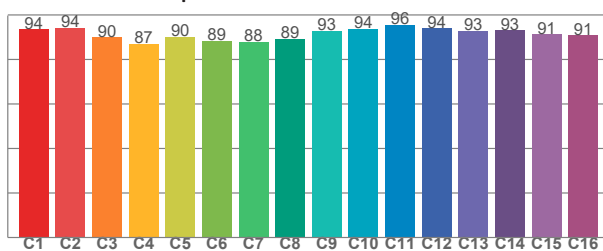
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
96.4	95.5	94.2	96.9	95.6	96.5	96.9	90.6	74.6	89.5	96.2	84.2	95.9	95.9	91.1

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



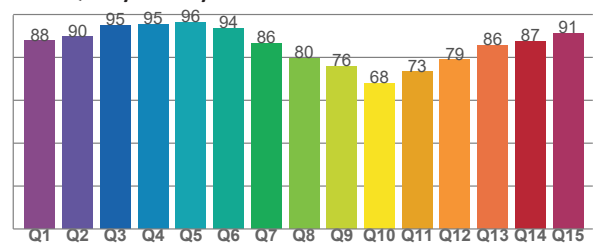
TM30-18 Rf-values per hue bin



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
93.5	94.3	89.9	87.0	90.3	88.5	87.9	89.3	92.9	93.8	95.6	93.9	92.9	93.2	91.4	90.9

Color Quality Scale by reference color



CQS Q values

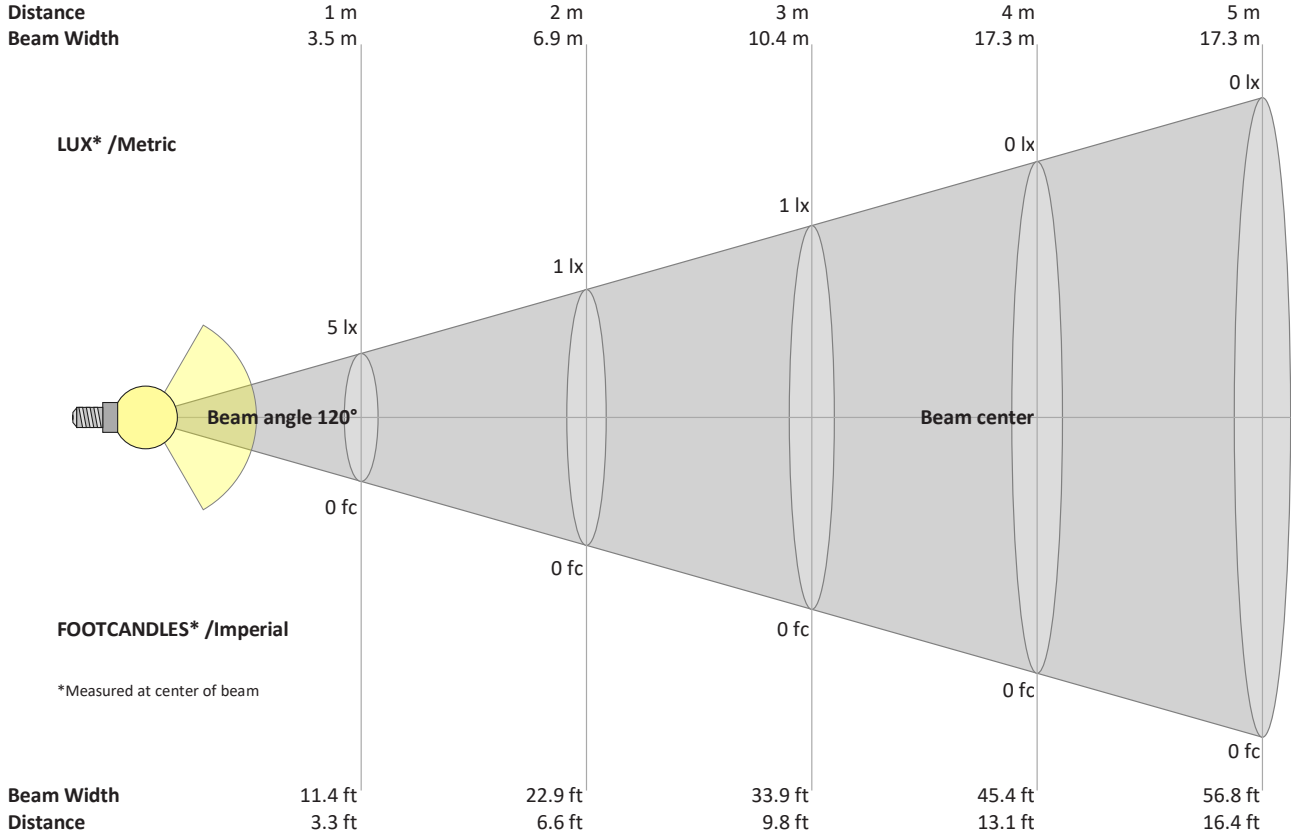
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87.8	89.6	95.0	95.5	96.3	93.6	86.5	79.7	75.8	67.9	73.3	78.9	85.6	87.4	91.3

Light Measurement Report

Print date: 2023-05-02

Measurement date and time: 2023-05-02 12:40:15 PM – Measurement no. VFR-230502-0197-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
5	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	lux
0.5	0.1	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	fc

Intensities in 0° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°	γ
5.37	5.29	5.09	4.76	4.28	3.70	3.02	2.25	1.41	0.59	0.09	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	cd
100%	99%	95%	89%	80%	69%	56%	42%	26%	11%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	of 0°val

Intensities in 90° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°	γ
5.37	5.33	5.16	4.89	4.56	4.18	3.75	3.29	2.85	2.39	1.72	0.51	0.05	0.02	0.02	0.02	0.02	0.02	0.02	0.02	cd
100%	99%	96%	91%	85%	78%	70%	61%	53%	45%	32%	9%	1%	0%	0%	0%	0%	0%	0%	0%	of 0°val

Intensities in 180° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°	γ
5.37	5.29	5.09	4.76	4.28	3.70	3.02	2.25	1.41	0.59	0.09	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	cd
100%	99%	95%	89%	80%	69%	56%	42%	26%	11%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	of 0°val

Intensities in 270° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°	γ
5.37	5.33	5.16	4.89	4.56	4.18	3.75	3.29	2.85	2.39	1.72	0.51	0.05	0.02	0.02	0.02	0.02	0.02	0.02	0.02	cd
100%	99%	96%	91%	85%	78%	70%	61%	53%	45%	32%	9%	1%	0%	0%	0%	0%	0%	0%	0%	of 0°val