

VEROBOARD®

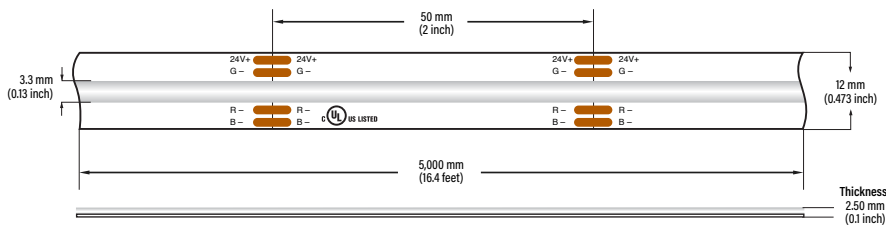
LED Type: VBDFS-COB840W4.5-RGB-24S
Colour: RGB



DESCRIPTION

Flexible 12mm wide linear LED strip. Available in 5 meter (16.4') rolls that can be cut every 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 RGB 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-COB840W4.5-RGB-24S
Color Temperature:	RGB
LED Type:	COB
LED Qty:	840 LEDs per meter
Input Voltage (VF):	24V DC
Power:	15W per meter (4.5W/ft)
Lifespan:	>50,000 hours
PCB:	3oz PCB, Double-side, white colour 12mm width
IP Rating:	IP20 (Indoor use only)
Rendering Index (Ra):	CRI>95
Beam Angle:	180°
Dimmable:	Yes
Cut Size:	Every 2"
Operating Temperature:	-15°C to +40°C
Dimensions:	5,000 x 12 x 2.50mm (196.8" x 0.473" x 0.1")
Certificates:	UL / RoHS
Roll Length:	5 meter roll (16.4ft)

Job Name: _____

Distributor: _____

Type: _____

	Wattage
Per Foot	4.5W/ft
Per Meter	15W/m

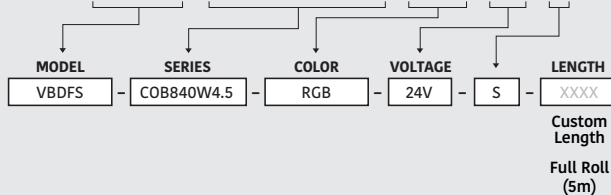


666561429294



ORDERING GUIDE

Example part number: **VBDFS - COB840W4.5 - RGB - 24 - S**



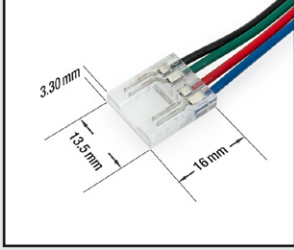
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CONNECTORS (Sold Separately)

Note: Connectors fit in some aluminum channels only.

12mm Strip to Wire



MODEL:

VBD-RGBBC-12MM-1S1W

Material: Clear Plastic

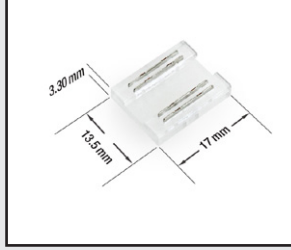
Strip Light Width: 12mm

Package Content: LED Strip to Wire Connector (Pack of 1)

Dimensions: 16 x 13.5 x 3.3mm
(0.62" x 0.53" x 0.12")

☐ 666561430290

12mm Strip to Strip



MODEL:

VBD-RGBBC-12MM-2S

Material: Clear Plastic

Strip Light Width: 12mm

Package Content: LED Strip to Strip Connectors (Pack of 1)

Dimensions: 17 x 13.5 x 3.3mm
(0.66" x 0.53" x 0.12")

☐ 666561430306

CONTROLLERS (Sold Separately)



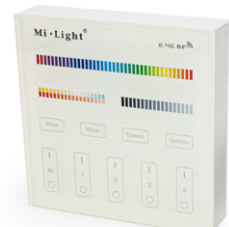
Model: RC03RFB-RGBWCCT-4Z
SKU: 666561435110



Model: RC05RFB-RGBWCCT-8Z
SKU: 666561435127



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



Model: VBD-MI-B4
SKU: 666561412920

COMPATIBLE RECEIVERS (Sold Separately)

tuya RGB



Model: CX-W01-P3-12A-RGB
SKU: 666561435066

tuya RGBCCT



Model: CX-W01-P5-12A-RGBCCT
SKU: 666561435080

Scan the QR code with your smartphone to view the complete selection of controllers and remote controls.



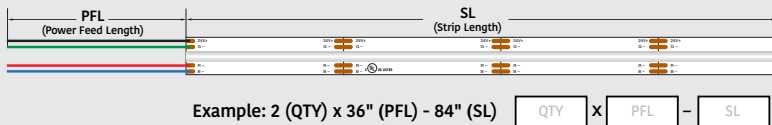
Disclaimer:

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CUSTOM ORDERING GUIDE ✂

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

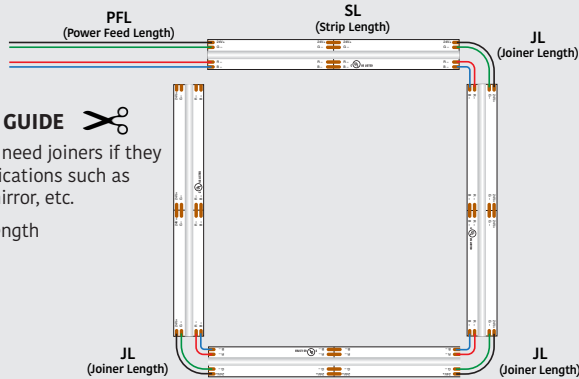
- **PFL:** Power Feed Length
- **SL:** Strip Length



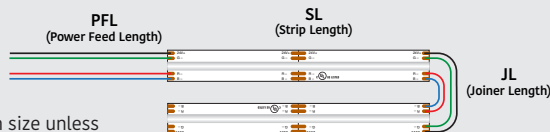
CUSTOM ORDERING GUIDE ✂

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-R2 SKU: 666561423742	VBD-CH-R2B SKU: 666561428280
		VBD-CH-D10 SKU: 666561420023

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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	5.3ft	666561426033
VBD-024-060C2DM5i1	100-277V	24V	60W	IP67	Class 2	10.6ft	666561426040
VBD-024-080C2DM5i1	100-277V	24V	80W	IP67	Class 2	14.2ft	666561426088
VBD-024-096C2DM5i1	100-277V	24V	96W	IP67	Class 2	17ft	666561426057
VBD-024-192C2DM5i1	100-277V	24V	192W (2x96W)	IP67	Class 2	34ft	666561426064
VBD-024-288C2DM5i1	100-277V	24V	288W (3x96W)	IP67	Class 2	51.2ft	666561426071

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	4.2ft	666561415839
VBD-024-048DM	100-130V	24V	48W	IP20	Class 2	8.5ft	666561415822
VBD-024-060DM	100-130V	24V	60W	IP20	Class 2	10.6ft	666561415815
VBD-024-096DM	100-130V	24V	96W	IP67	Class 2	17ft	666561415808
VBD-024-150DM	100-130V	24V	150W	IP67	-	26.6ft	666561415792
VBD-024-200DM	100-130V	24V	200W	IP67	-	35.5ft	666561415785
VBD-024-300VTHWJ	100-277V	24V	300W	IP65	-	53.3ft	666561419806

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Model No.	Input Voltage	Output Voltage	Wattage	IP Rating	Class	Max. Strip Length	SKU#
VBD-024-030DD	100-265V AC	24V	30W	IP20	Class 2	5.3ft	666561427306
VBD-024-060DD	100-265V AC	24V	60W	IP65	Class 2	10.6ft	666561427320
VBD-024-096DD	100-265V AC	24V	96W	IP65	Class 2	17ft	666561427344
VBD-024-150DD	100-265V AC	24V	150W	IP65	-----	26.6ft	666561427368
VBD-024-200DD	100-265V AC	24V	200W	IP65	-----	35.5ft	666561427375

Model No.	Input Voltage	Output Voltage	Wattage	IP Rating	Class	Max. Strip Length	SKU#
VBDA-024-024P1J	100-240V AC	24V	24W	IP20	Class 2	4.2ft	666561428969
VBDA-024-036P1J	100-240V AC	24V	36W	IP20	Class 2	6.4ft	666561428983
VBDA-024-060P1J	100-240V AC	24V	60W	IP20	Class 2	10.6ft	666561429003

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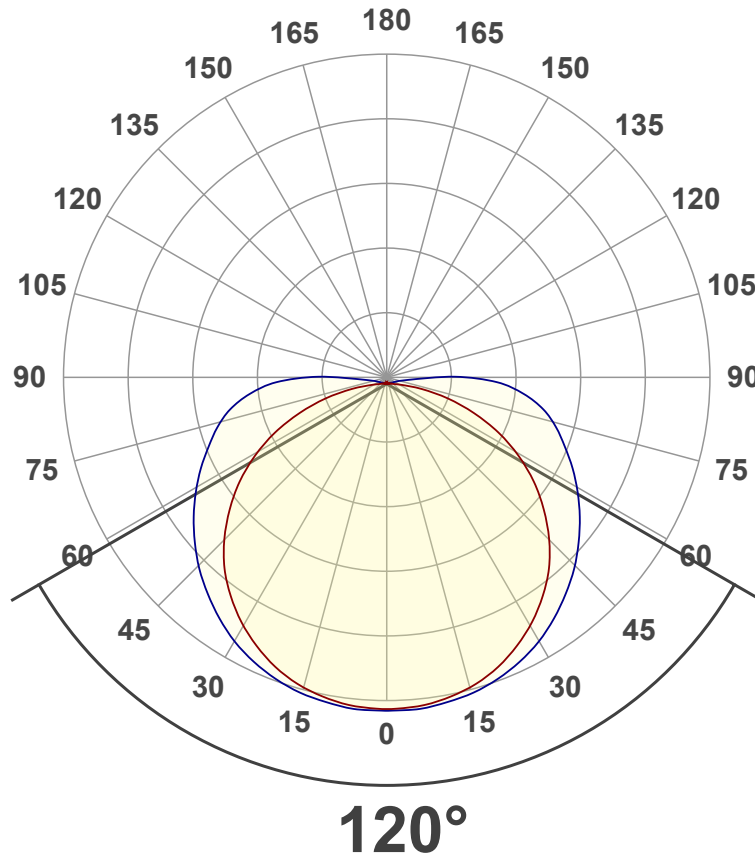
Light Measurement Report

Print date: 2023-05-02

Measurement date and time: 2023-05-02 1:21:58 PM – Measurement no. VFR-230502-0199-MS

Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Lumen Up% / Down%	4.04% / 95.96%
Peak Intensity	6.42 cd
Beam Angle (50%)	120°
Beam Angle (90%)	160.5°
Beam Angle (10%)	119.7°

Cut-off Angle

Average 2,5%	193.3°
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Field Angle

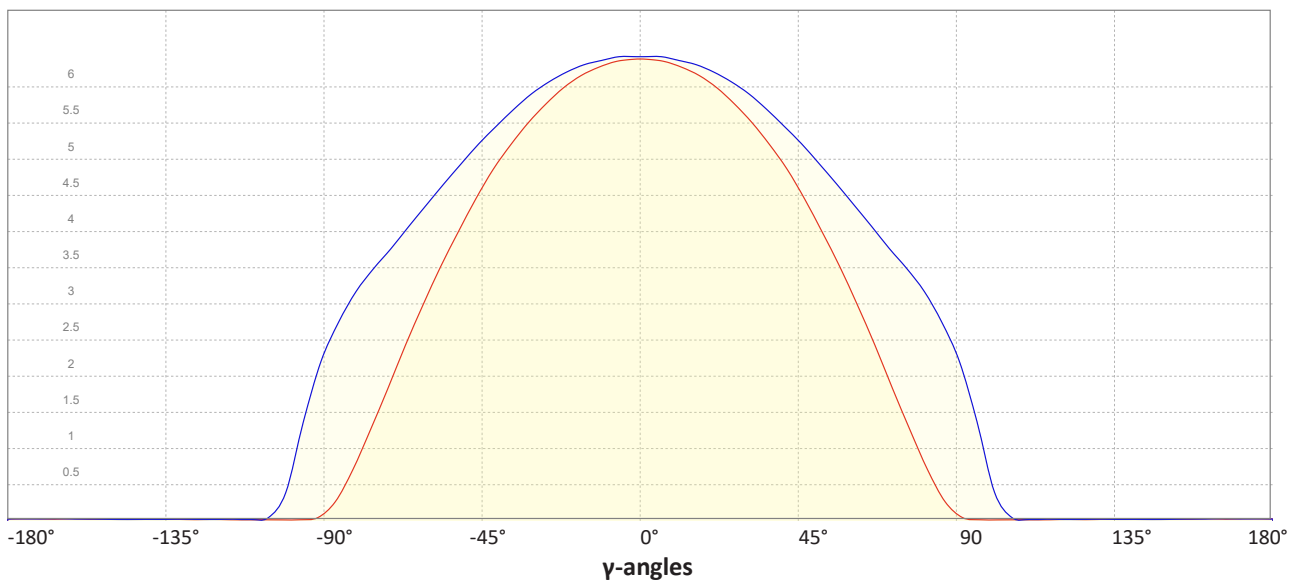
Average 10%	182.2°
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Intensity Ratio

In 120° cone	64.9%
In 90° cone	42.1%

C000-C180
C090-C270

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



Print date: 2023-05-02

VEROLAB
POWERED BY **VISO** SYSTEMS

Correlated Color Temperature, Target	CCT = 0 K
Correlated Color Temperature, Measured	CCT = 0 K
Color Rendering Index	CRI 0.0
Color Rendering Index, R9 (red component)	R9 = 0.0
Color Rendering TM30-18	R _f 0.0 — R _g 0.0
Color Quality Scale	CQS = 0.0

MacAdam Steps	SDCM = n/a
Color coordinates CIE 1931	(x;y) = (0.139;0.729)
Color coordinate CIEs 1960	(u;v) = (0.049;0.381)
Color deviation from BBL	Duv = n/a
Color coordinate CIEs 1976 (CIELUV)	(u';v') = (0.049;0.049)

A zoomed-in view of the Planckian locus, showing a smooth, downward-curving line. The area under the curve is filled with a light blue color. A black crosshair is centered on the curve. The curve is labeled with '530' and '5' at different points.

R ₁	R ₂	R ₃	R ₄	R ₅	R ₆	R ₇	R ₈	R ₉	R ₁₀	R ₁₁	R ₁₂	R ₁₃	R ₁₄	R ₁₅			

[illegible]

C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	C ₉	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆		

[illegible]

Mass spectrum of the sample showing a major peak at m/z 500. The x-axis is labeled from 225 to 825. The peak is colored with a gradient from blue to red.

Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q15

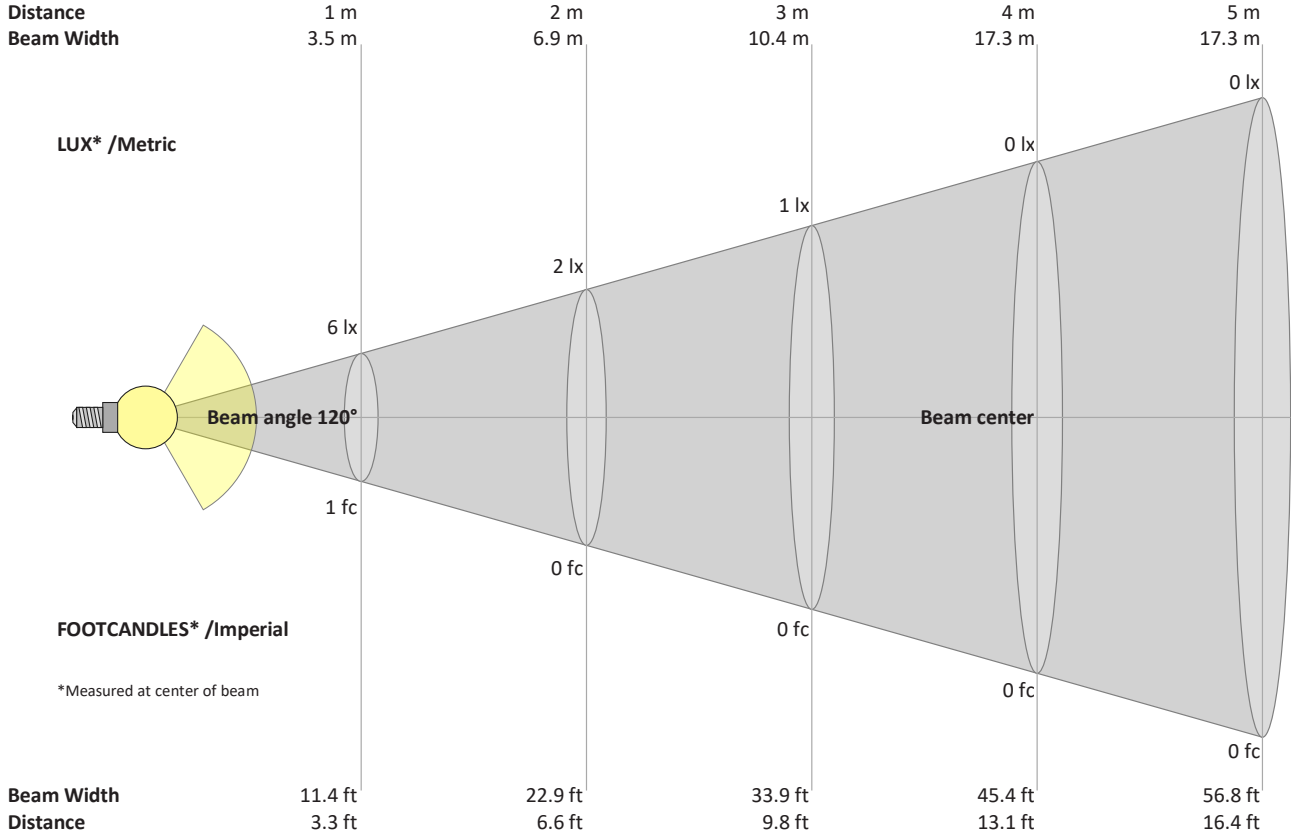
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Light Measurement Report

Print date: 2023-05-02

Measurement date and time: 2023-05-02 1:21:58 PM – Measurement no. VFR-230502-0199-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
6	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	lux
0.6	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
6.40	6.32	6.12	5.76	5.25	4.60	3.78	2.85	1.81	0.79	0.12	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.03	cd
100%	99%	96%	90%	82%	72%	59%	45%	28%	12%	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
6.40	6.39	6.27	6.03	5.69	5.26	4.77	4.24	3.70	3.16	2.30	0.76	0.03	0.02	0.02	0.02	0.02	0.02	0.03	0.03	cd
100%	100%	98%	94%	89%	82%	74%	66%	58%	49%	36%	12%	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
6.40	6.32	6.12	5.76	5.25	4.60	3.78	2.85	1.81	0.79	0.12	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.03	cd
100%	99%	96%	90%	82%	72%	59%	45%	28%	12%	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
6.40	6.39	6.27	6.03	5.69	5.26	4.77	4.24	3.70	3.16	2.30	0.76	0.03	0.02	0.02	0.02	0.02	0.02	0.03	0.03	cd
100%	100%	98%	94%	89%	82%	74%	66%	58%	49%	36%	12%	1%	0%	0%	0%	0%	0%	0%	0%	of 0°val