

VEROBOARD®

LED Type: VBDFS-5050-WRGBWW-60-24-NS
Colour: White+RGB+Warm White

Contact Name: _____

Company: _____

Phone: _____

Email: _____



DESCRIPTION

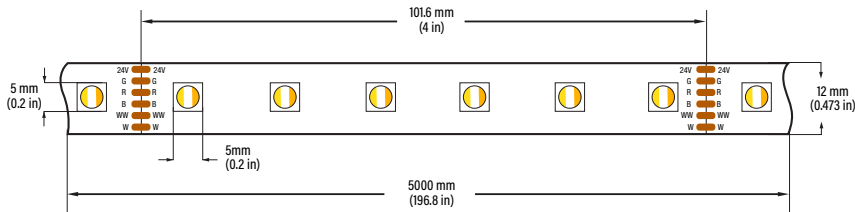
Flexible 12 mm wide linear LED strip. Available in 5 meter (196.8 inches) rolls that can be cut every 6 LEDs (101.6 mm or 4 in). The LED Strip lights are manufactured with high-quality materials and designed for professional lighting. Every strip light begins with a heavy-duty dual-core copper printed circuit board (PC Board), which is then soldered with an array of chips and color options. They can be cut to any size (marked interval points) and rejoined by soldering.

| | Wattage | Brightness |
|-----------|---------|--------------|
| Per Foot | 5.5W/ft | 219-256Lm/ft |
| Per Meter | 18W/m | 720-840Lm/m |



666561413224

DIMENSIONS



SPECIFICATIONS

| | |
|-------------------------------|--|
| Model: | VBDFS-5050-RGB+WRGBWW-60-24-NS |
| Color Temperature: | White+RGB+Warm White (WRGBWW) |
| LED Type: | 5050 SMD |
| LED Qty: | 60 LEDs per meter |
| Input Voltage (VF): | 24V DC |
| Power: | 18W per meter (5.5W/ft) |
| Brightness: | 1600-2200 MCD for RGB & 720-840Lm/m (219-256 Lm/ft) for White and Warm White |
| 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 (4 inches) |
| Operating Temperature: | -15°C to +40°C |
| Dimensions: | 5,000mm x 12mm (196.8in x 0.47in) |
| Certificates: | UL / RoHs |
| Roll Length: | 5 meter roll (16.4 feet) |



ORDERING GUIDE

Example part number: **VBDFS - 5050 - WRGBWW - 60 - 24 - NS**

| MODEL | SERIES | COLOUR | LEDS/METER | VOLTAGE | LENGTH |
|-------|--------|--------|------------|---------|--------|
| VBDFS | 5050 | WRGBWW | 60 | 24V | XXXX |

Custom Length
 NS (Full Roll 5 Meter)



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

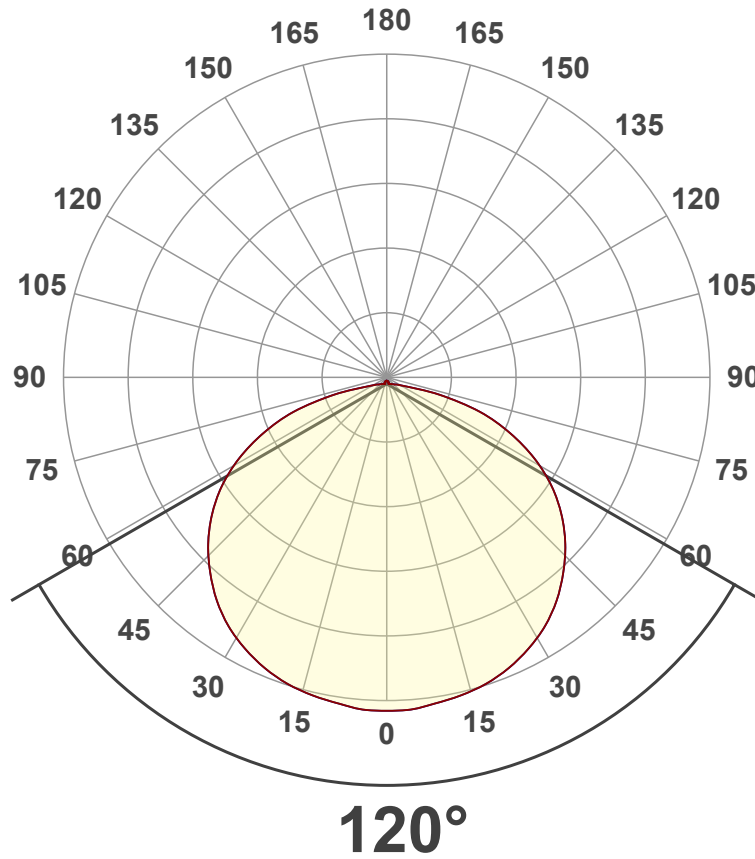
Light Measurement Report

Print date: 2023-05-02

Measurement date and time: 2023-05-02 2:08:39 PM – Measurement no. VFR-230502-0202-MS

Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

| | |
|-------------------|----------------|
| Lumen Up% / Down% | 1.27% / 98.73% |
| Peak Intensity | 2.40 cd |
| Beam Angle (50%) | 120° |
| Beam Angle (90%) | 128.5° |
| Beam Angle (10%) | 128.5° |

Cut-off Angle

| | |
|--------------|--------|
| Average 2,5% | 173.2° |
|--------------|--------|

Field Angle

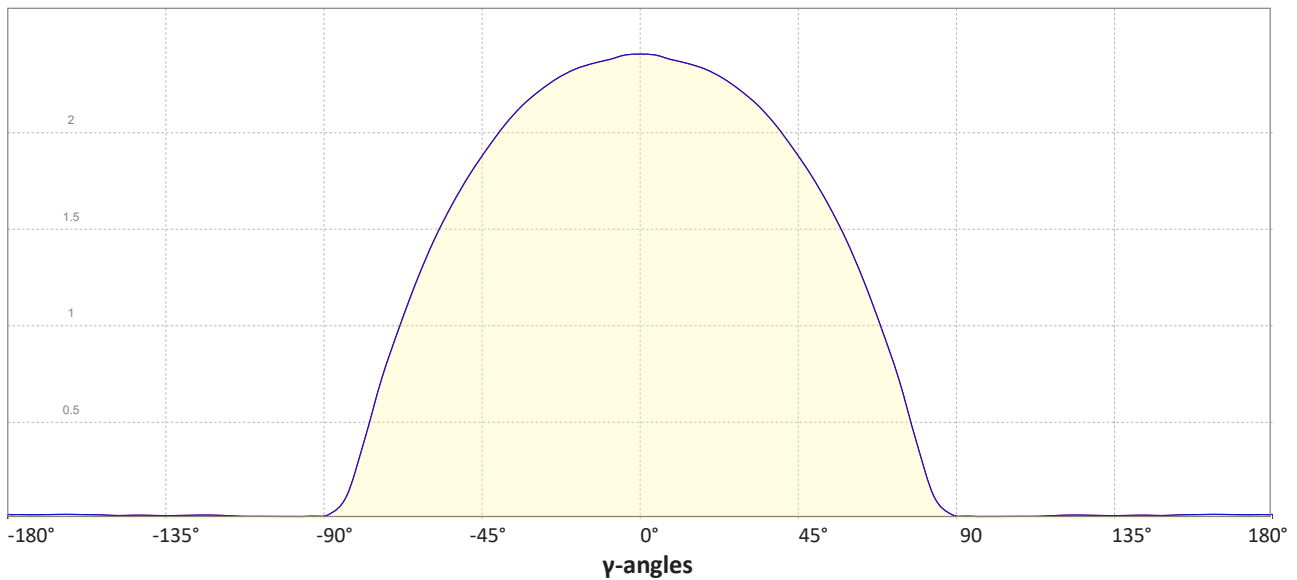
| | |
|-------------|--------|
| Average 10% | 162.8° |
|-------------|--------|

Intensity Ratio

| | |
|--------------|-------|
| In 120° cone | 75.0% |
| In 90° cone | 48.8% |

C000-C180
C090-C270

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

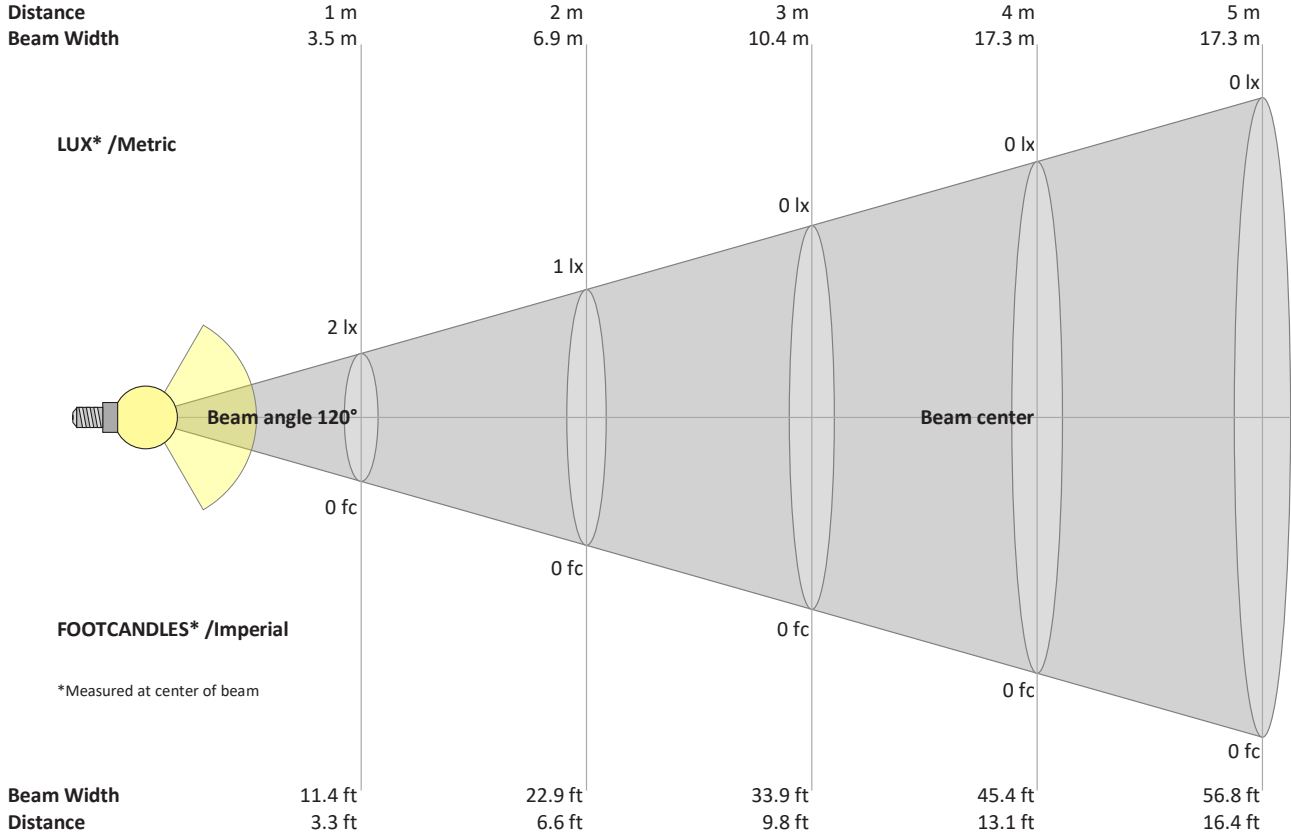


Light Measurement Report

Print date: 2023-05-02

Measurement date and time: 2023-05-02 2:08:39 PM – Measurement no. VFR-230502-0202-M5

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 | |
| 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | lux |
| 0.2 | 0.1 | 0 | 0 | 0 | 0 | 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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| 2.40 | 2.40 | 2.37 | 2.35 | 2.32 | 2.26 | 2.20 | 2.11 | 2.00 | 1.88 | 1.74 | 1.58 | 1.39 | 1.17 | 0.92 | 0.63 | 0.32 | 0.09 | 0.02 | 0.01 | cd |
| 100% | 100% | 99% | 98% | 96% | 94% | 91% | 88% | 83% | 78% | 72% | 66% | 58% | 48% | 38% | 26% | 13% | 4% | 1% | 1% | 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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| 2.40 | 2.40 | 2.37 | 2.35 | 2.32 | 2.26 | 2.20 | 2.11 | 2.00 | 1.88 | 1.74 | 1.58 | 1.39 | 1.17 | 0.92 | 0.63 | 0.32 | 0.09 | 0.02 | 0.01 | cd |
| 100% | 100% | 99% | 98% | 96% | 94% | 91% | 88% | 83% | 78% | 72% | 66% | 58% | 48% | 38% | 26% | 13% | 4% | 1% | 1% | 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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| 2.40 | 2.40 | 2.37 | 2.35 | 2.32 | 2.26 | 2.20 | 2.11 | 2.00 | 1.88 | 1.74 | 1.58 | 1.39 | 1.17 | 0.92 | 0.63 | 0.32 | 0.09 | 0.02 | 0.01 | cd |
| 100% | 100% | 99% | 98% | 96% | 94% | 91% | 88% | 83% | 78% | 72% | 66% | 58% | 48% | 38% | 26% | 13% | 4% | 1% | 1% | 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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| 2.40 | 2.40 | 2.37 | 2.35 | 2.32 | 2.26 | 2.20 | 2.11 | 2.00 | 1.88 | 1.74 | 1.58 | 1.39 | 1.17 | 0.92 | 0.63 | 0.32 | 0.09 | 0.02 | 0.01 | cd |
| 100% | 100% | 99% | 98% | 96% | 94% | 91% | 88% | 83% | 78% | 72% | 66% | 58% | 48% | 38% | 26% | 13% | 4% | 1% | 1% | of 0°val |