

LED-Streifen LK04-6r-60



Technische Daten

| | |
|---|---|
| Artikel-Nr. | LK04-6r-60 |
| LED-Typ | 2835 RGB + 2216 Weiß |
| Farbangaben | Rot: 620 – 630nm Grün: 515 – 525nm Blau: 460 – 470nm Weiß: ca. 6500K |
| Farbkonsistenz / Binning | SDCM<3 |
| Farbwiedergabeindex (CRI) | 92 (nur Weiß) |
| LEDs/m | 120 RGB + 120 Weiß |
| Lumen/m (Φ_{use}) | Rot: 170 Grün: 450 Blau: 120 Weiß: 650 |
| Breite mm | 12 |
| trennbar aller | 5cm |
| Betriebsspannung | 24 VDC |
| Nennleistung | 24 W/m |
| Leistungsaufnahme im Betrieb (P_{on}) | Rot: 5,6 W/m Grün: 5,8 W/m Blau: 5,9 W/m Weiß: 5,9 W/m |
| Leistungsaufnahme im Standby (P_{sb}) | 0 W/m |
| Energieeffizienzklasse (A-G) | G (für nur Weiß: F) |
| Verkaufseinheit | 1 Rolle = 5m |

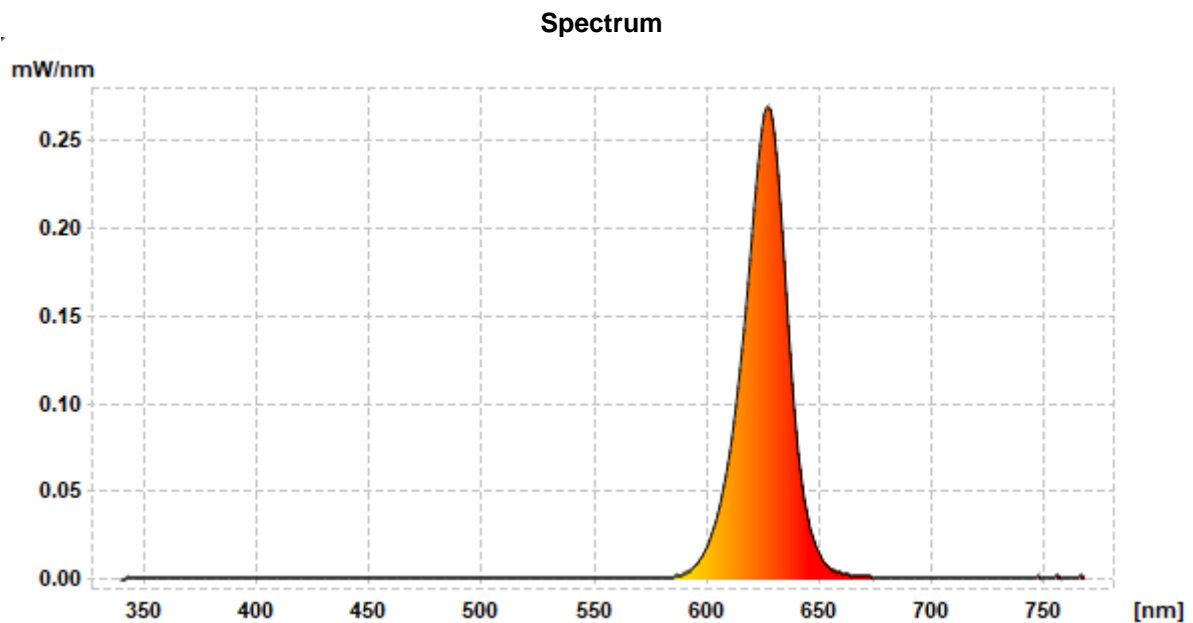
Hinweise zum Dimmen & Schalten

Für ein Dimmen des LED-Streifens ist ein PWM-LED-Controller im passenden Spannungsbereich, mit ausreichender Leistung und min. 400Hz PWM zu verwenden.

Bei Nicht-Verwenden des LED-Bandes ist dies primärseitig inkl. des zum Betrieb verwendeten Netzteils auszuschalten.

GL SpectroSoft Report – LED-Messprotokoll

Measurement name: *m241101-142520* Kunde: *LED-Studien GmbH*
 Measurement time: *2024-11-01 14:25:18* Artikel: *LK04-6r-60, 24V*
 Report time: *2024-11-04 12:52:19*
 Messung: *3535/2016 RGBW, 120* SN Gerät.: *Xt010208/A13W0158*
LEDs/m



Ergebnisse / Messwerte

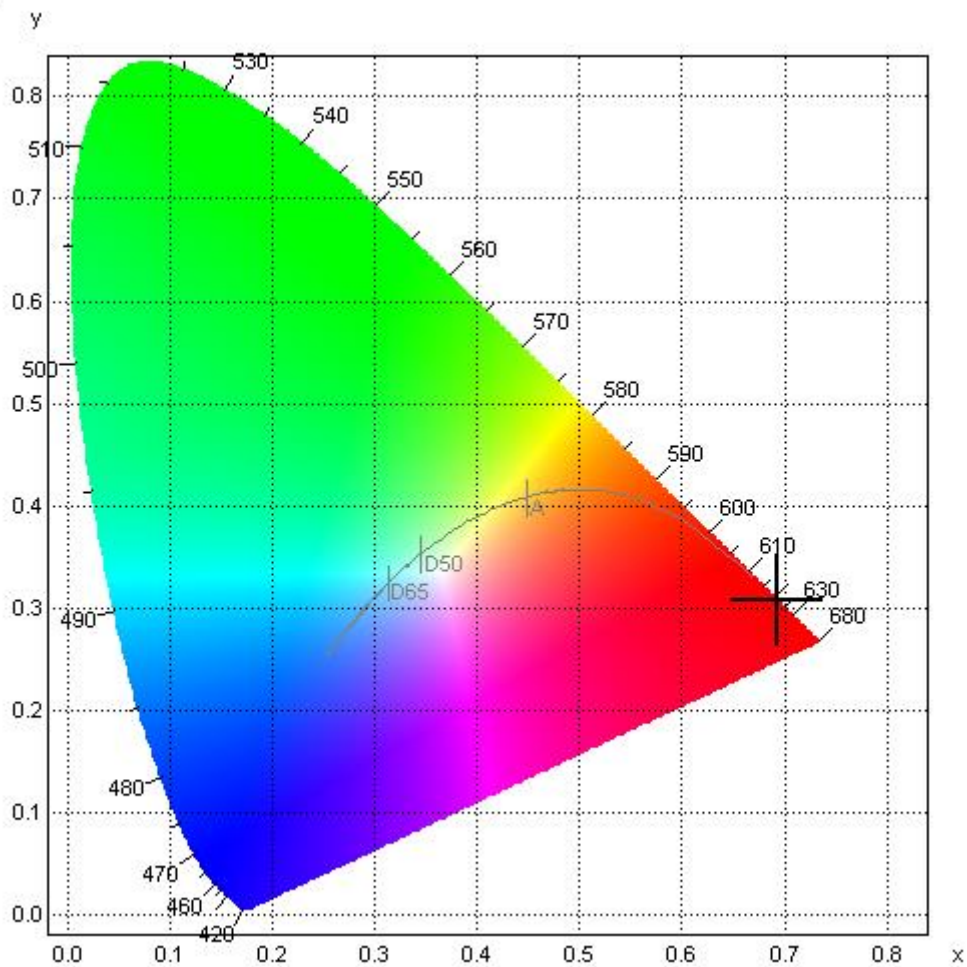
| CIE 1931 2° observer | |
|----------------------|----------------|
| x | 0.6933 |
| y | 0.3067 |
| u' | 0.5239 |
| v' | 0.5214 |
| L | 100.00 |
| a | 167.42 |
| b | nan |
| X | 3.08 |
| Y | 1.36 lm |
| Z | 0.00 |

| Farbtemperatur | |
|-----------------------------|----------------|
| CCT | - K |
| Color Rendering Index (CRI) | |
| Ra | -61.4 |
| Luminous Intensity | |
| Y | 1.36 lm |
| Binning | |
| Binning | |
| Sonstige | |
| Chromaticity Error | 0.295 |
| Color Peak | 627.51 |
| Color Peak Value | 0.27 |
| Color Dominant | 620.8 |
| Radiometric | 0.0063 |

| Rendering Indices | |
|-------------------|--------|
| R1 | -139.6 |
| R2 | -53.4 |
| R3 | 50.0 |
| R4 | -118.4 |
| R5 | -128.6 |
| R6 | -104.0 |
| R7 | 56.6 |
| R8 | -54.1 |
| R9 | -404.8 |
| R10 | -189.4 |
| R11 | -185.6 |
| R12 | -81.6 |
| R13 | -136.1 |

| | |
|-----|------|
| R14 | 76.0 |
|-----|------|

CIE 1931

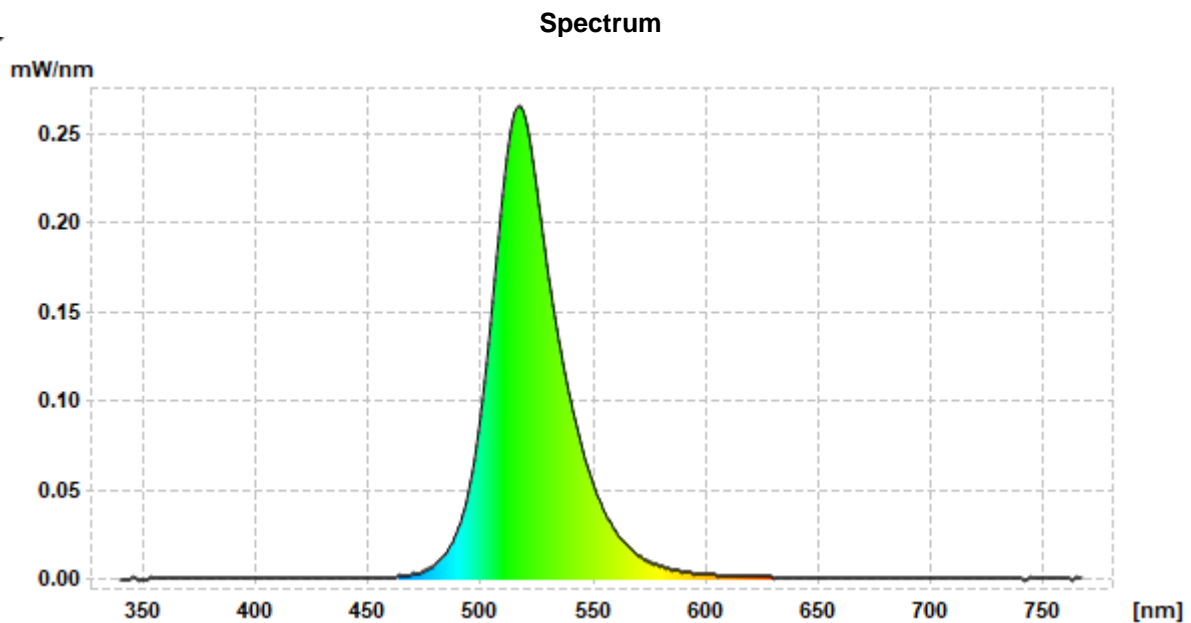


Weitere Messungen

| Pos | Name | x2 | y2 | Y2 | CCT | Ra | Chromaticity Error | Peak Wavelength | Dominant Wavelength |
|-----|----------------|--------|--------|------|-----|-------|--------------------|-----------------|---------------------|
| | | | | lm | K | | | nm | nm |
| 1 | m241101-142520 | 0,6933 | 0,3067 | 1,36 | 0 | -61,4 | 0,295 | 627,51 | 620,8 |
| 2 | m241101-142535 | 0,6933 | 0,3067 | 1,36 | 0 | -62,9 | 0,295 | 627,51 | 620,8 |
| 3 | m241101-142544 | 0,694 | 0,306 | 1,36 | 0 | -34,2 | 0,297 | 629,18 | 621,2 |

GL SpectroSoft Report – LED-Messprotokoll

Measurement name: *m241101-142605* Kunde: *LED-Studien GmbH*
 Measurement time: *2024-11-01 14:26:04* Artikel: *LK04-6r-60, 24V*
 Report time: *2024-11-04 12:54:58*
 Messung: *3535/2016 RGBW, 120* SN Gerät.: *Xt010208/A13W0158*
LEDs/m



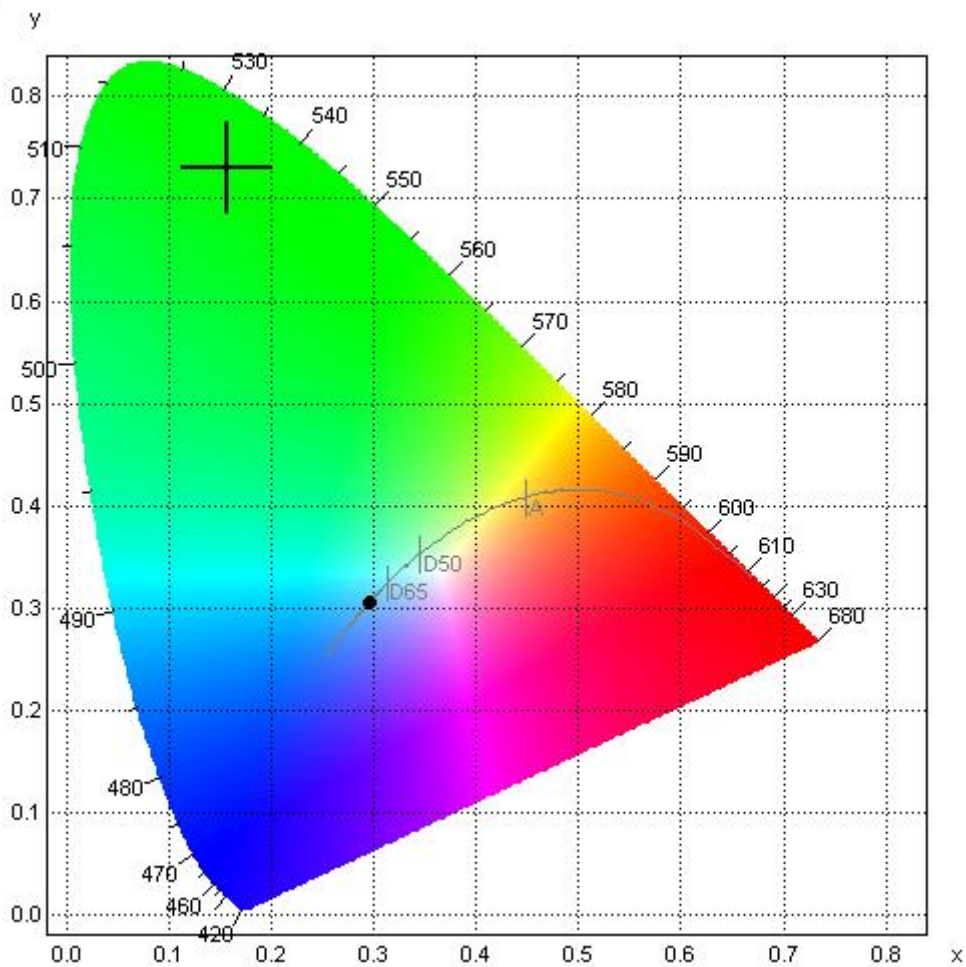
Ergebnisse / Messwerte

| CIE 1931 2° observer | |
|----------------------|----------------|
| x | 0.1557 |
| y | 0.7299 |
| u' | 0.0544 |
| v' | 0.5739 |
| L | 100.00 |
| a | -196.16 |
| b | 95.20 |
| X | 0.99 |
| Y | 4.63 lm |
| Z | 0.73 |

| Farbtemperatur | |
|-----------------------------|----------------|
| CCT | 8037 K |
| Color Rendering Index (CRI) | |
| Ra | -28.2 |
| Luminous Intensity | |
| Y | 4.63 lm |
| Binning | |
| Binning | |
| Sonstige | |
| Chromaticity Error | 0.171 |
| Color Peak | 518.16 |
| Color Peak Value | 0.26 |
| Color Dominant | 524.8 |
| Radiometric | 0.0097 |

| Rendering Indices | |
|-------------------|--------|
| R1 | -35.6 |
| R2 | -12.3 |
| R3 | -30.8 |
| R4 | -68.4 |
| R5 | -9.6 |
| R6 | -19.9 |
| R7 | -14.0 |
| R8 | -35.4 |
| R9 | -356.8 |
| R10 | -114.2 |
| R11 | -97.9 |
| R12 | -36.3 |
| R13 | -42.4 |
| R14 | 34.9 |

CIE 1931



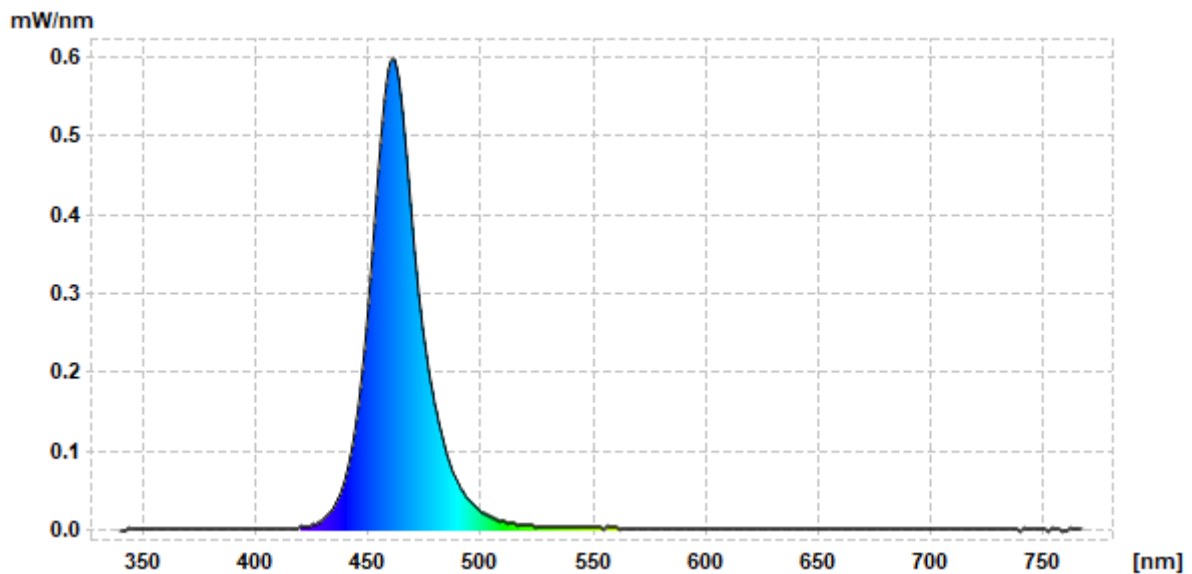
Weitere Messungen

| Pos | Name | x2 | y2 | Y2 | CCT | Ra | Chromaticity Error | Peak Wavelength | Dominant Wavelength |
|-----|----------------|--------|--------|------|------|-------|--------------------|-----------------|---------------------|
| | | | | lm | K | | | nm | nm |
| 1 | m241101-142605 | 0,1557 | 0,7299 | 4,63 | 8037 | -28,2 | 0,171 | 518,16 | 524,8 |
| 2 | m241101-142614 | 0,1536 | 0,7299 | 4,63 | 8060 | -28,3 | 0,172 | 518,16 | 524,4 |
| 3 | m241101-142619 | 0,1535 | 0,7281 | 4,38 | 8076 | -27,7 | 0,172 | 518,16 | 524,2 |

GL SpectroSoft Report – LED-Messprotokoll

Measurement name: *m241101-142651* Kunde: *LED-Studien GmbH*
 Measurement time: *2024-11-01 14:26:51* Artikel: *LK04-6r-60, 24V*
 Report time: *2024-11-04 12:56:34*
 Messung: *3535/2016 RGBW, 120* SN Gerät.: *Xt010208/A13W0158*
LEDs/m

Spectrum



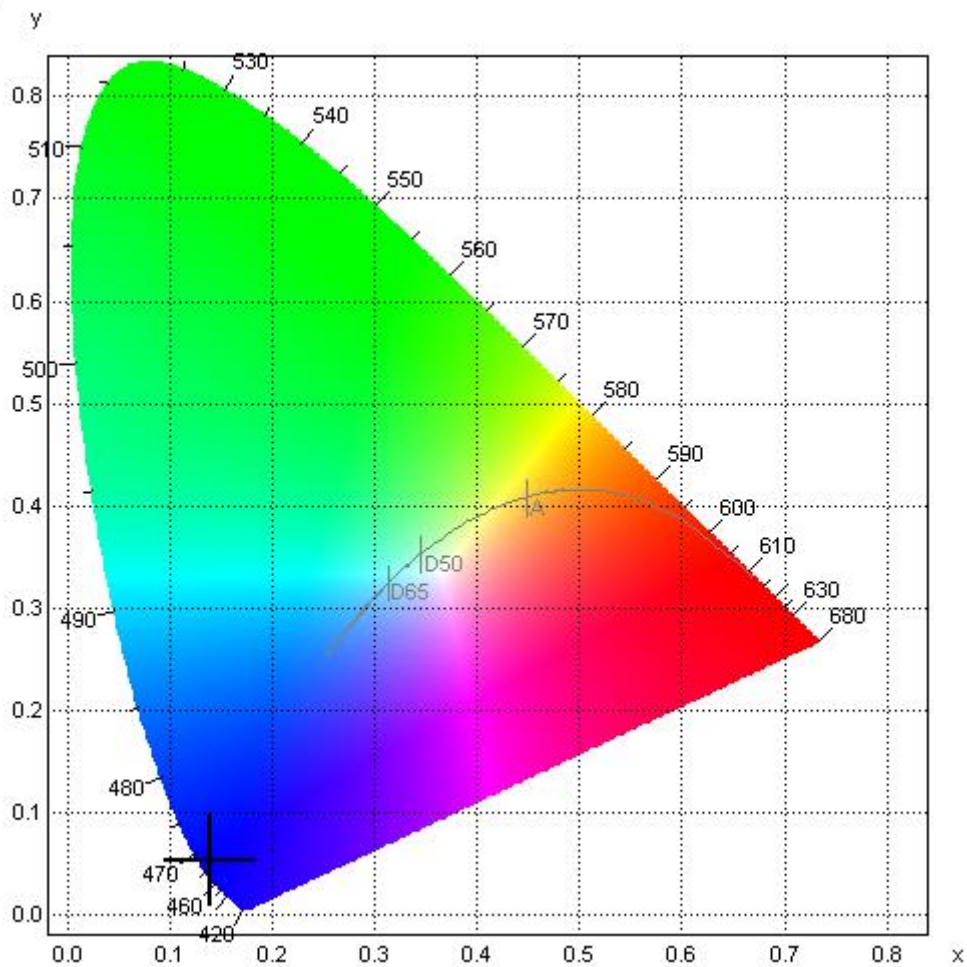
Ergebnisse / Messwerte

| CIE 1931 2° observer | |
|----------------------|----------------|
| x | 0.1391 |
| y | 0.0522 |
| u' | 0.1661 |
| v' | 0.1402 |
| L | 100.00 |
| a | 205.09 |
| b | -284.74 |
| X | 2.62 |
| Y | 0.98 lm |
| Z | 15.27 |

| Farbtemperatur | |
|-----------------------------|----------------|
| CCT | - K |
| Color Rendering Index (CRI) | |
| Ra | -54.4 |
| Luminous Intensity | |
| Y | 0.98 lm |
| Binning | |
| Binning | |
| Sonstige | |
| Chromaticity Error | 0.287 |
| Color Peak | 461.90 |
| Color Peak Value | 0.60 |
| Color Dominant | 466.2 |
| Radiometric | 0.0158 |

| Rendering Indices | |
|-------------------|--------|
| R1 | -51.2 |
| R2 | 4.3 |
| R3 | -90.5 |
| R4 | -111.4 |
| R5 | -35.9 |
| R6 | -34.0 |
| R7 | -30.4 |
| R8 | -85.9 |
| R9 | -402.2 |
| R10 | -105.3 |
| R11 | -158.8 |
| R12 | -117.8 |
| R13 | -35.0 |
| R14 | -5.0 |

CIE 1931



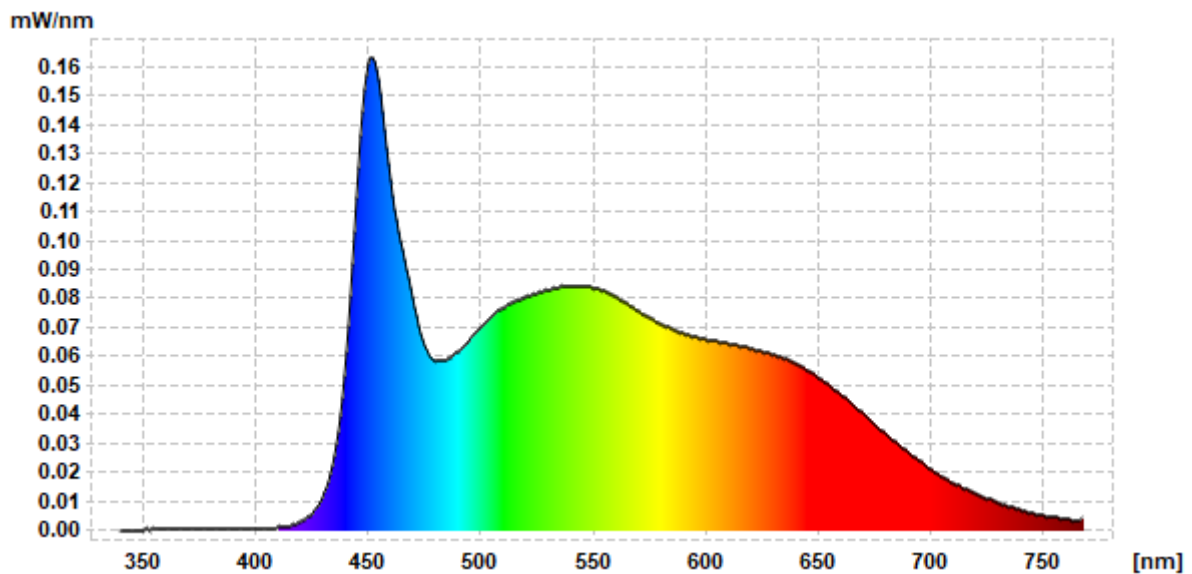
Weitere Messungen

| Pos | Name | x2 | y2 | Y2 | CCT | Ra | Chromaticity Error | Peak Wavelength | Dominant Wavelength |
|-----|----------------|--------|--------|------|-----|-------|--------------------|-----------------|---------------------|
| | | | | lm | K | | | nm | nm |
| 1 | m241101-142651 | 0,1391 | 0,0522 | 0,98 | 0 | -54,4 | 0,287 | 461,9 | 466,2 |
| 2 | m241101-142659 | 0,1396 | 0,051 | 0,98 | 0 | -54,5 | 0,289 | 461,9 | 465,9 |
| 3 | m241101-142705 | 0,1373 | 0,0551 | 1,05 | 0 | -54 | 0,28 | 461,9 | 467,1 |

GL SpectroSoft Report – LED-Messprotokoll

Measurement name: *m241101-142736* Kunde: *LED-Studien GmbH*
 Measurement time: *2024-11-01 14:27:35* Artikel: *LK04-6r-60, 24V*
 Report time: *2024-11-04 12:58:12*
 Messung: *3535/2016 RGBW, 120* SN Gerät.: *Xt010208/A13W0158*
LEDs/m

Spectrum



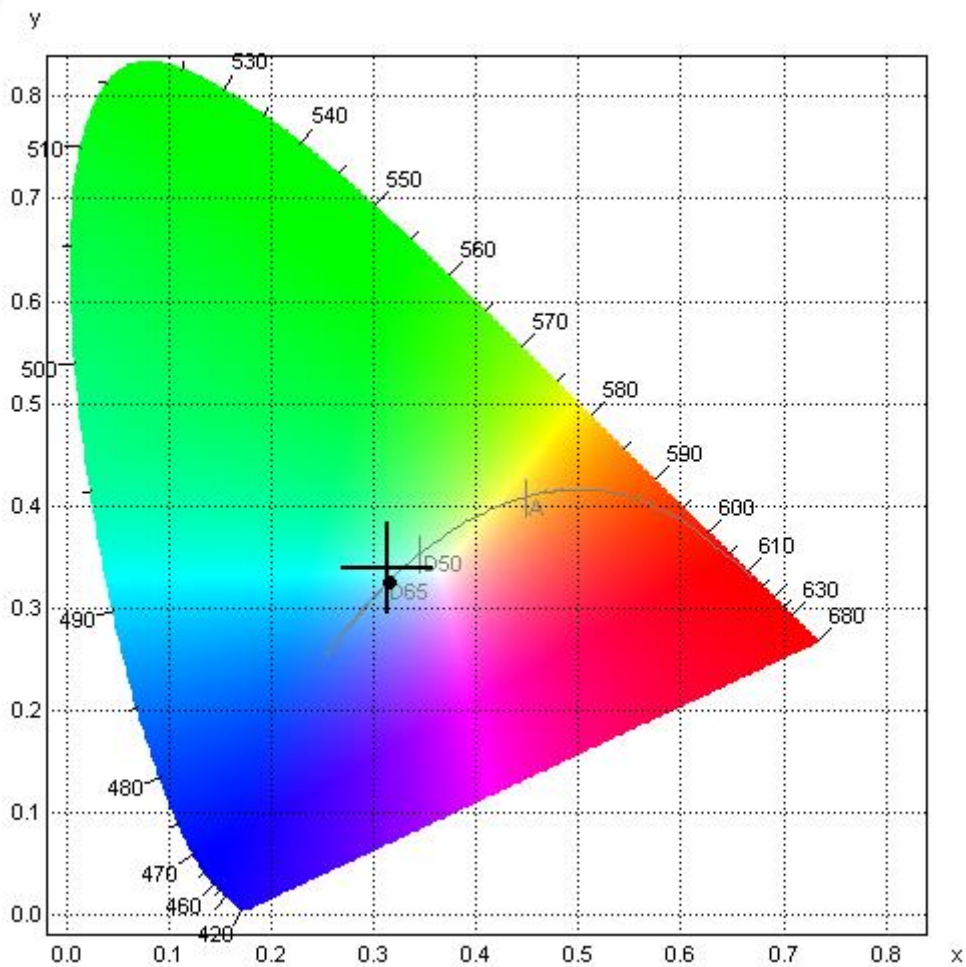
Ergebnisse / Messwerte

| CIE 1931 2° observer | |
|----------------------|---------|
| x | 0.3135 |
| y | 0.3383 |
| u' | 0.1949 |
| v' | 0.4733 |
| L | 100.00 |
| a | -4.23 |
| b | 3.73 |
| X | 5.02 |
| Y | 5.42 lm |
| Z | 5.58 |

| Farbtemperatur | |
|-----------------------------|---------|
| CCT | 6402 K |
| Color Rendering Index (CRI) | |
| Ra | 91.5 |
| Luminous Intensity | |
| Y | 5.42 lm |
| Binning | |
| Binning | 1C |
| Sonstige | |
| Chromaticity Error | 0.005 |
| Color Peak | 452.72 |
| Color Peak Value | 0.16 |
| Color Dominant | 495.0 |
| Radiometric | 0.0190 |

| Rendering Indices | |
|-------------------|------|
| R1 | 90.7 |
| R2 | 94.6 |
| R3 | 95.7 |
| R4 | 88.7 |
| R5 | 89.1 |
| R6 | 90.2 |
| R7 | 95.1 |
| R8 | 87.8 |
| R9 | 66.1 |
| R10 | 86.1 |
| R11 | 88.3 |
| R12 | 62.8 |
| R13 | 91.9 |
| R14 | 97.9 |

CIE 1931



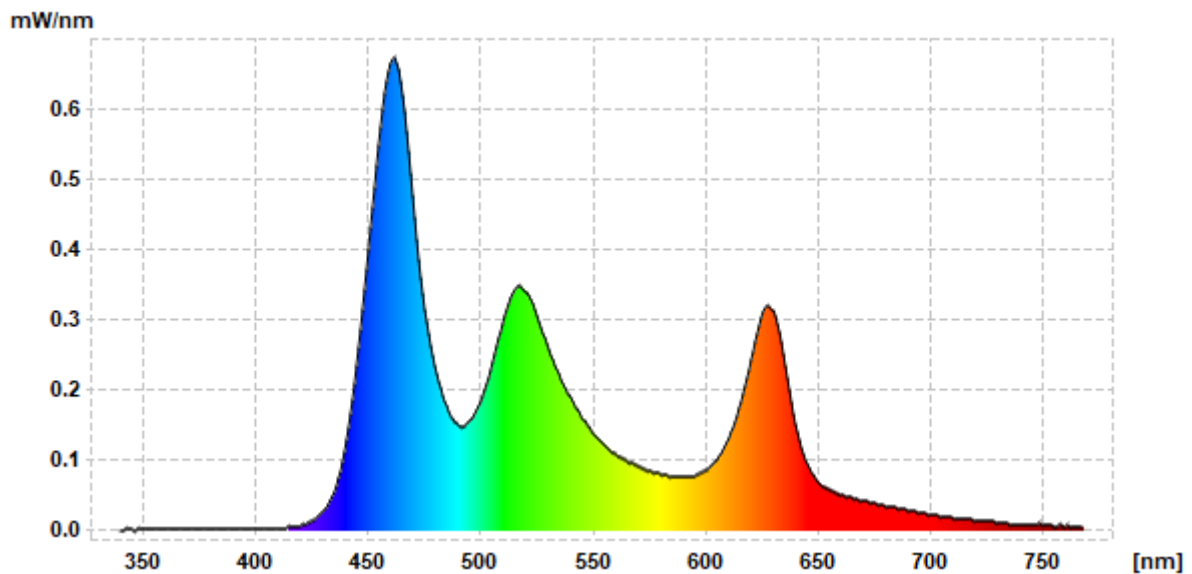
Weitere Messungen

| Pos | Name | x2 | y2 | Y2 | CCT | Ra | Chromaticity Error | Peak Wavelength | Dominant Wavelength |
|-----|----------------|--------|--------|------|------|------|--------------------|-----------------|---------------------|
| | | | | lm | K | | | nm | nm |
| 1 | m241101-142736 | 0,3135 | 0,3383 | 5,42 | 6402 | 91,5 | 0,005 | 452,72 | 495 |
| 2 | m241101-142747 | 0,3135 | 0,3365 | 5,5 | 6413 | 92,1 | 0,004 | 452,72 | 493,8 |
| 3 | m241101-142757 | 0,3113 | 0,3342 | 5,35 | 6544 | 92,3 | 0,005 | 454,55 | 492,3 |

GL SpectroSoft Report – LED-Messprotokoll

Measurement name: *m241101-142851* Kunde: *LED-Studien GmbH*
 Measurement time: *2024-11-01 14:28:50* Artikel: *LK04-6r-60, 24V*
 Report time: *2024-11-04 13:00:18*
 Messung: *3535/2016 RGBW, 120 LEDs/m* SN Gerät.: *Xt010208/A13W0158*
LEDs/m

Spectrum



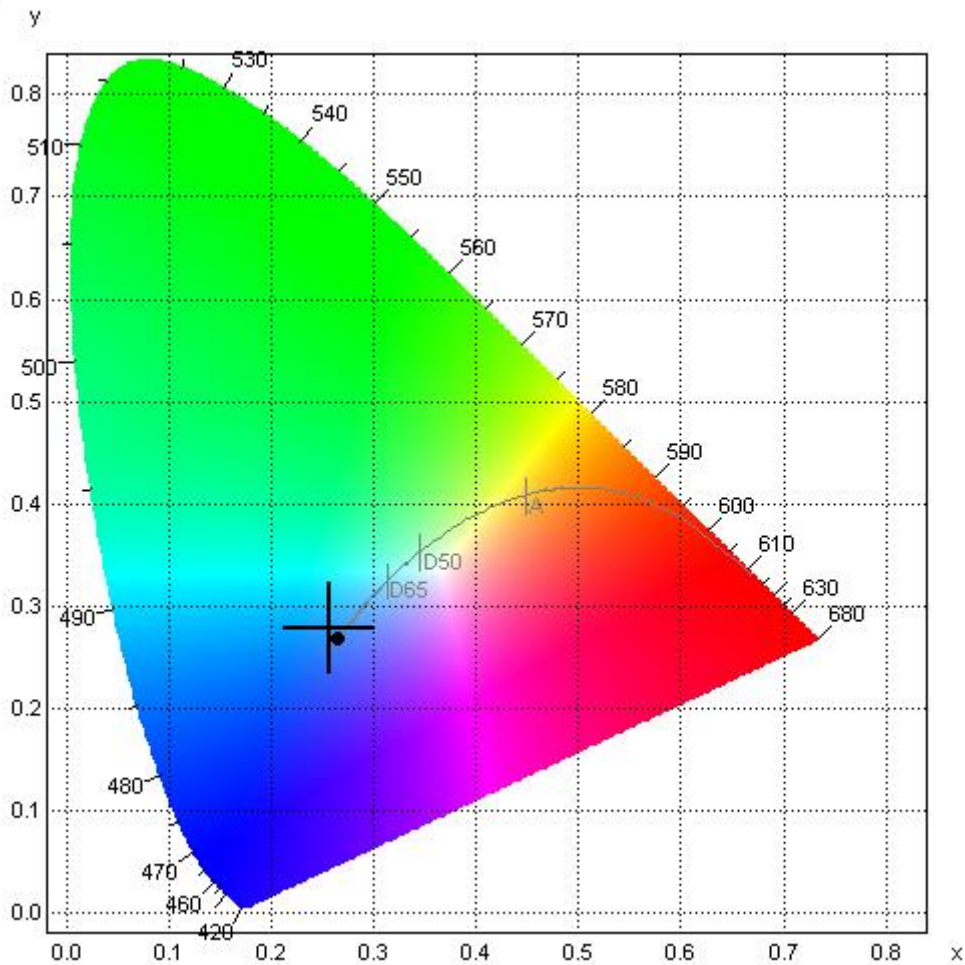
Ergebnisse / Messwerte

| CIE 1931 2° observer | |
|----------------------|-----------------|
| x | 0.2567 |
| y | 0.2776 |
| u' | 0.1765 |
| v' | 0.4294 |
| L | 100.00 |
| a | -4.56 |
| b | -31.01 |
| X | 11.30 |
| Y | 12.23 lm |
| Z | 20.51 |

| Farbtemperatur | |
|-----------------------------|-----------------|
| CCT | 14743 K |
| Color Rendering Index (CRI) | |
| Ra | 77.8 |
| Luminous Intensity | |
| Y | 12.23 lm |
| Binning | |
| Binning | |
| Sonstige | |
| Chromaticity Error | 0.014 |
| Color Peak | 461.90 |
| Color Peak Value | 0.67 |
| Color Dominant | 481.6 |
| Radiometric | 0.0497 |

| Rendering Indices | |
|-------------------|-------|
| R1 | 71.4 |
| R2 | 82.0 |
| R3 | 89.6 |
| R4 | 80.8 |
| R5 | 82.1 |
| R6 | 82.3 |
| R7 | 77.6 |
| R8 | 56.8 |
| R9 | -38.7 |
| R10 | 59.4 |
| R11 | 76.0 |
| R12 | 64.7 |
| R13 | 70.8 |
| R14 | 91.4 |

CIE 1931



Weitere Messungen

| Pos | Name | x2 | y2 | Y2 | CCT | Ra | Chromaticity Error | Peak Wavelength | Dominant Wavelength |
|-----|----------------|--------|--------|-------|-------|------|--------------------|-----------------|---------------------|
| | | | | lm | K | | | nm | nm |
| 1 | m241101-142851 | 0,2567 | 0,2776 | 12,23 | 14743 | 77,8 | 0,014 | 461,9 | 481,6 |
| 2 | m241101-142900 | 0,2522 | 0,2775 | 12,02 | 15787 | 77,4 | 0,018 | 463,73 | 482,2 |
| 3 | m241101-142942 | 0,2587 | 0,2782 | 12,62 | 14232 | 76,1 | 0,014 | 461,9 | 481,5 |