LED-Streifen LK04-45b

Technische Daten

Artikel-Nr.	LK04-45b
LED-Typ	3838 RGB + 2110 WW + 2110 KW
Farbangaben	Rot: 620 – 630nm Grün: 515 – 525nm Blau: 460 – 470nm Warmweiß: ca. 2700K Kaltweiß: ca. 6200K
Farbkonsistenz / Binning	SDCM<3
Farbwiedergabeindex (CRI)	95 (nur Weiß)
LEDs/m	120 RGB + 120 Warmweiß + 120 Kaltweiß
Lumen/m (Φ_{use})	Rot: 230 Grün: 510 Blau: 90 Warmweiß: 400 Kaltweiß: 450
Breite mm	12
trennbar aller	5cm
Betriebsspannug	24 VDC
Nennleistung	24 W/m
Leistungsaufnahme im Betrieb (P_{on})	Rot: 5,7 W/m Grün: 4,1 W/m Blau: 3,1 W/m Warmweiß: 3,8 W/m Kaltweiß: 3,8 W/m
Leistungsaufnahme im Standby (P_{sb})	0 W/m
Energieeffizienzklasse (A-G)	G (für nur Weiß: E)
Verkaufseinheit	1 Rolle = 5m

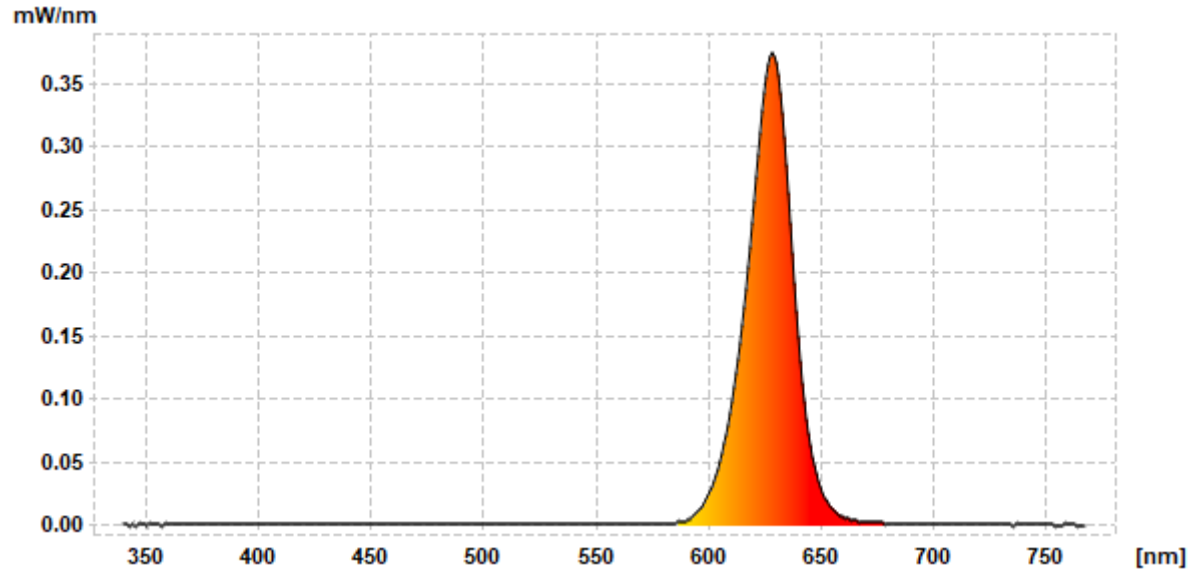
Hinweise zum Dimmen & Schalten

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:	*m260726-140347*	Kunde:	*LED-Studien GmbH*
Measurement time:	*2026-07-26 14:03:47*	Artikel:	*LK04-45b*
Report time:	*2026-07-26 16:53:06*		
Messung: *24V*	*3x120 LEDs/m, RGB-CCT,*	SN Gerät.:	*Xt010208/A13W0158*

Spectrum



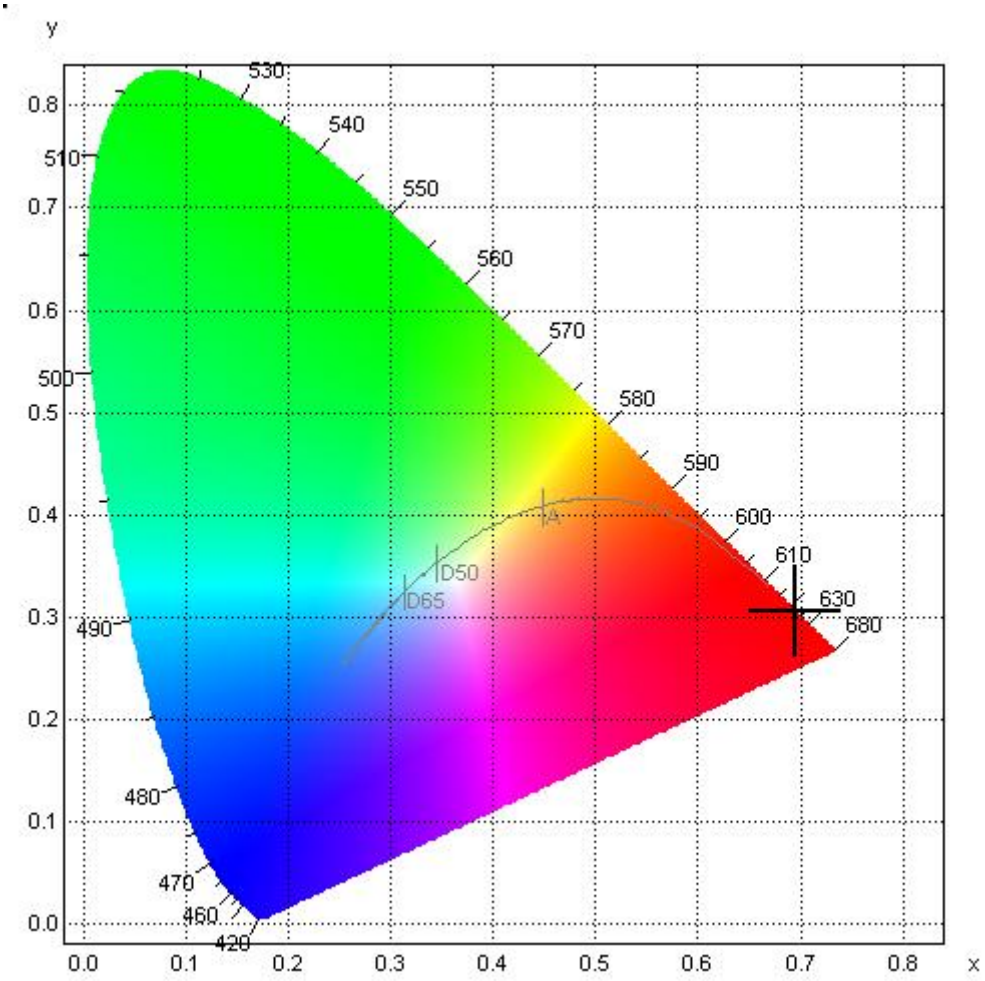
Ergebnisse / Messwerte

CIE 1931 2°observer	
x	**0.6950**
y	**0.3050**
u'	0.5274
v'	0.5209
L	100.00
a	169.16
b	nan
X	4.32
Y	**1.89 lm**
Z	0.00

Farbtemperatur	
CCT	**- K**
Color Rendering Index (CRI)	
Ra	**-36.5**
Luminous Intensity	
Y	**1.89 lm**
Binning	
Binning	
Sonstige	
Chromaticity Error	0.299
Color Peak	629.18
Color Peak Value	0.37
Color Dominant	621.7
Radiometric	0.0090

Rendering Indices	
R1	-105.7
R2	-16.7
R3	65.5
R4	-91.4
R5	-89.0
R6	-65.4
R7	50.8
R8	-39.8
R9	-356.9
R10	-104.1
R11	-161.4
R12	-82.1
R13	-101.1
R14	66.6

CIE 1931



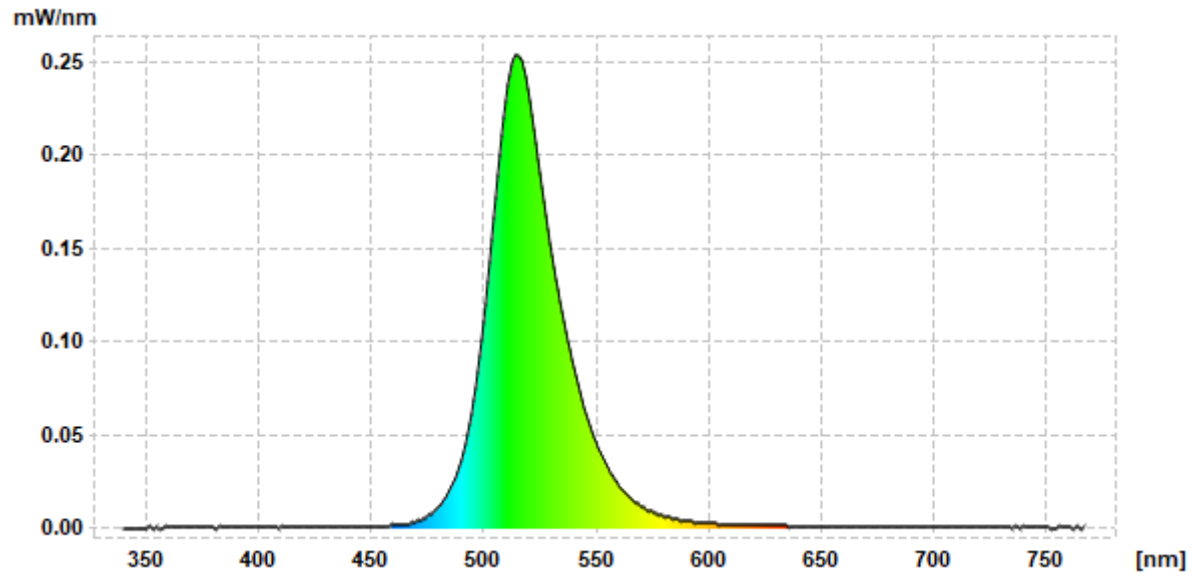
Weitere Messungen

Pos	Name	x2	y2	Y2	CCT	Ra	Chromaticity Error	Peak Wavelength	Dominant Wavelength
				lm	K			nm	nm
1	m260726-140347	0,695	0,305	1,89	0	-36,5	0,299	629,18	621,7
2	m260726-140410	0,6959	0,3041	1,79	0	-37,2	0,3	629,18	622,2
3	m260726-140418	0,6955	0,3045	1,79	0	-38,8	0,3	629,18	622

GL SpectroSoft Report – LED-Messprotokoll

Measurement name:	*m260726-140437*	Kunde:	*LED-Studien GmbH*
Measurement time:	*2026-07-26 14:04:37*	Artikel:	*LK04-45b*
Report time:	*2026-07-26 16:54:42*		
Messung: *24V*	*3x120 LEDs/m, RGB-CCT,*	SN Gerät.:	*Xt010208/A13W0158*

Spectrum



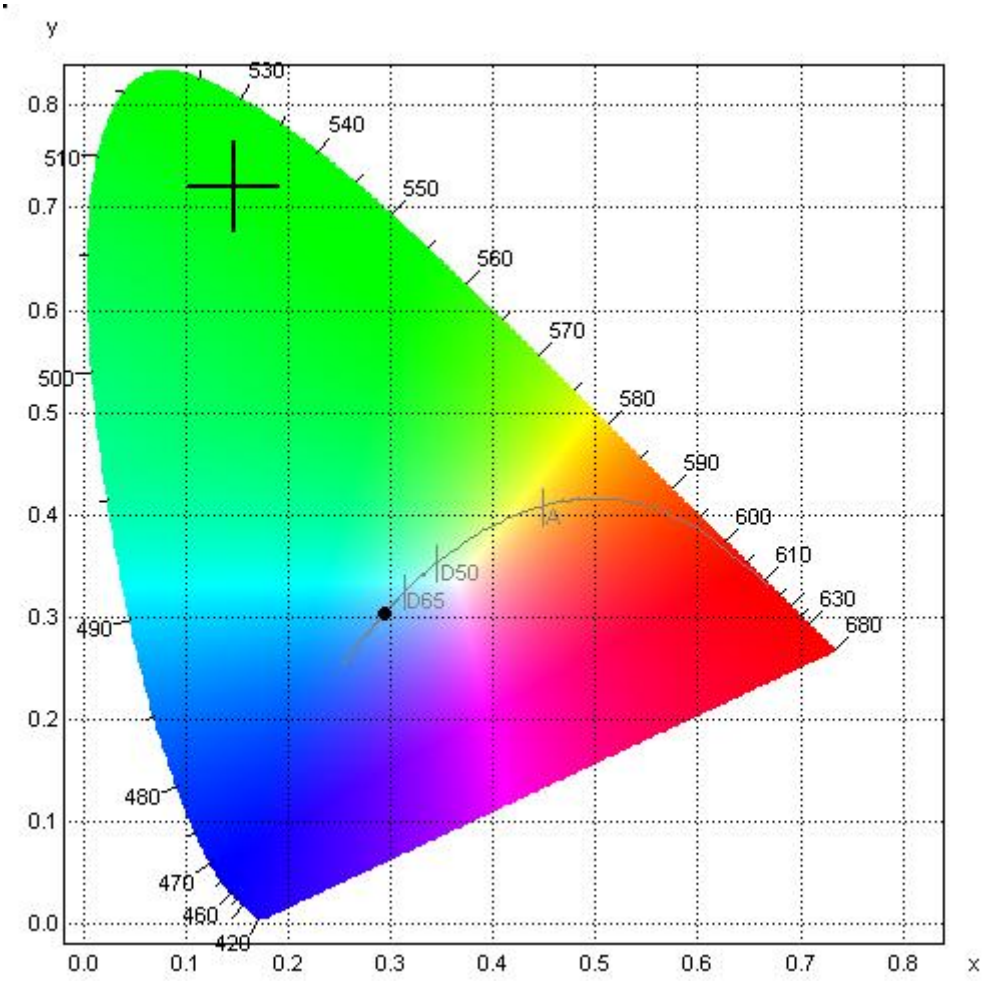
Ergebnisse / Messwerte

CIE 1931 2˚observer	
x	**0.1458**
y	**0.7201**
u'	0.0514
v'	0.5710
L	100.00
a	-201.37
b	88.97
X	0.87
Y	**4.29 lm**
Z	0.80

Farbtemperatur	
CCT	**8254 K**
Color Rendering Index (CRI)	
Ra	**-27.2**
Luminous Intensity	
Y	**4.29 lm**
Binning	
Binning	
Sonstige	
Chromaticity Error	0.174
Color Peak	516.36
Color Peak Value	0.25
Color Dominant	522.1
Radiometric	0.0094

Rendering Indices	
R1	-34.9
R2	-10.9
R3	-29.3
R4	-67.3
R5	-8.8
R6	-19.0
R7	-13.2
R8	-34.1
R9	-353.0
R10	-111.3
R11	-95.4
R12	-33.5
R13	-41.9
R14	35.7

CIE 1931



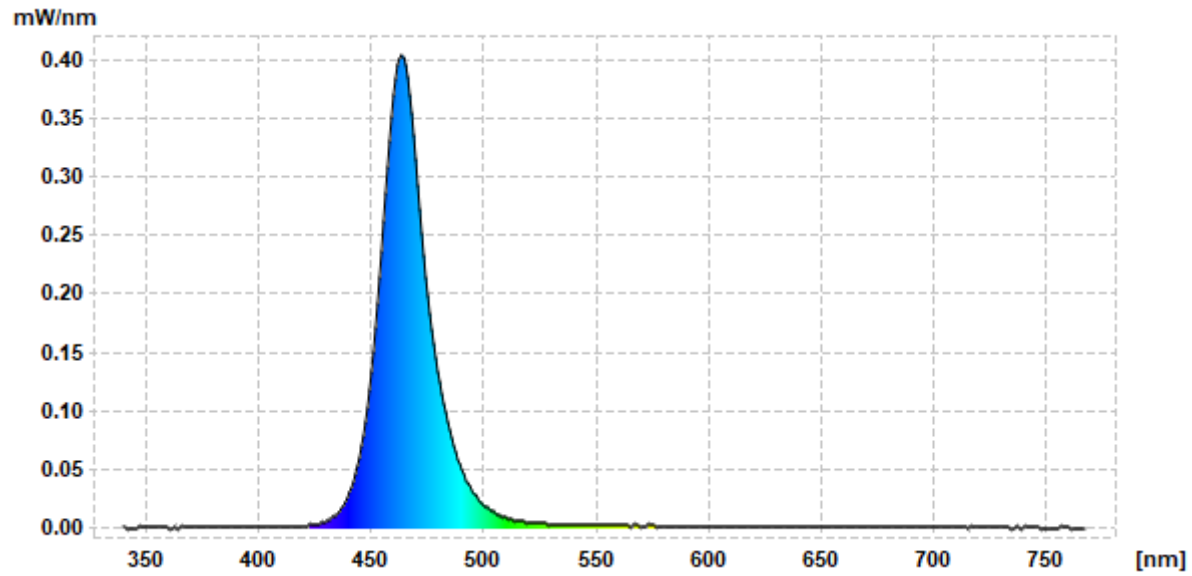
Weitere Messungen

Pos	Name	x2	y2	Y2	CCT	Ra	Chromaticity Error	Peak Wavelength	Dominant Wavelength
				lm	K			nm	nm
1	m260726-140437	0,1458	0,7201	4,29	8254	-27,2	0,174	516,36	522,1
2	m260726-140457	0,1443	0,7223	4,25	8281	-27,8	0,174	516,36	522,1
3	m260726-140508	0,1413	0,7208	3,99	8319	-27,9	0,175	514,57	521,4

GL SpectroSoft Report – LED-Messprotokoll

Measurement name:	*m260726-140538*	Kunde:	*LED-Studien GmbH*
Measurement time:	*2026-07-26 14:05:38*	Artikel:	*LK04-45b*
Report time:	*2026-07-26 16:56:24*		
Messung: *24V*	*3x120 LEDs/m, RGB-CCT,*	SN Gerät.:	*Xt010208/A13W0158*

Spectrum



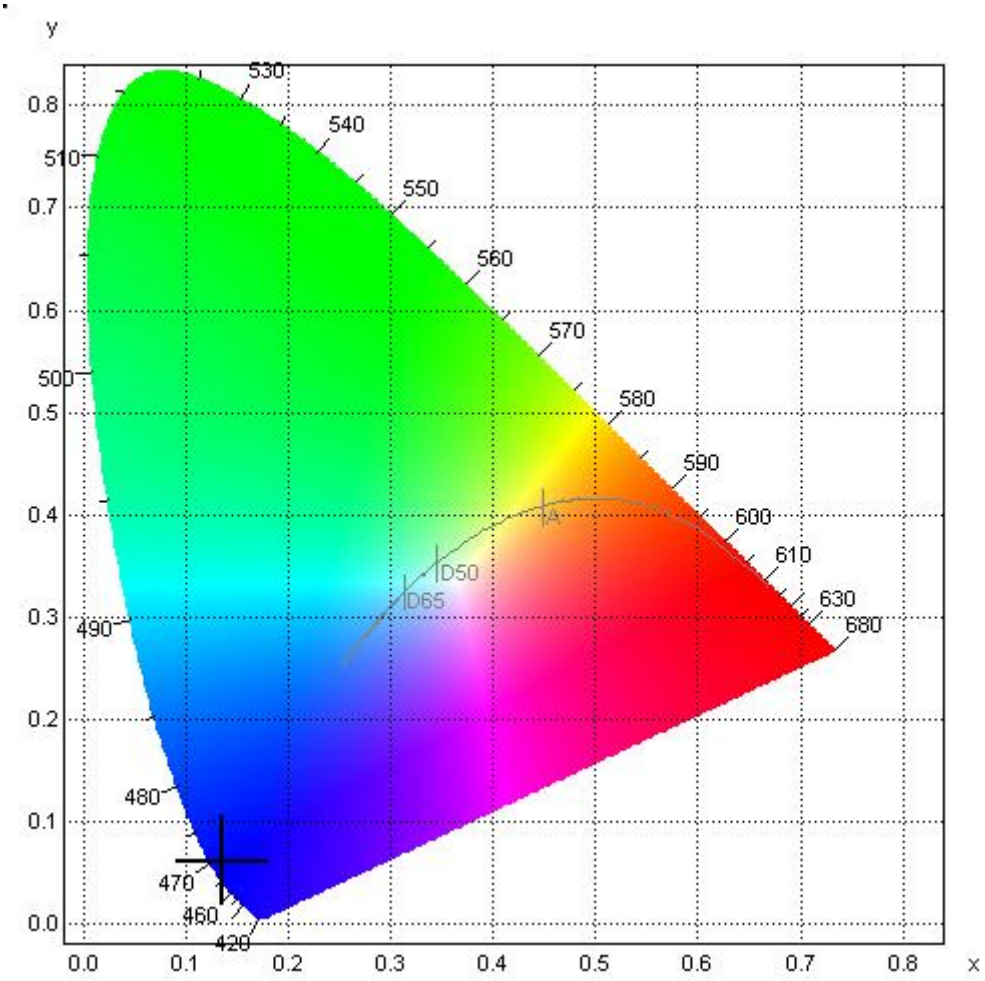
Ergebnisse / Messwerte

CIE 1931 2˚observer	
x	**0.1353**
y	**0.0613**
u'	0.1562
v'	0.1591
L	100.00
a	162.28
b	-258.47
X	1.62
Y	**0.74 lm**
Z	9.65

Farbtemperatur	
CCT	**- K**
Color Rendering Index (CRI)	
Ra	**-52.0**
Luminous Intensity	
Y	**0.74 lm**
Binning	
Binning	
Sonstige	
Chromaticity Error	0.269
Color Peak	463.73
Color Peak Value	0.40
Color Dominant	468.4
Radiometric	0.0105

Rendering Indices	
R1	-49.3
R2	7.2
R3	-88.0
R4	-107.4
R5	-33.5
R6	-31.1
R7	-28.7
R8	-84.8
R9	-399.3
R10	-99.4
R11	-155.1
R12	-111.9
R13	-32.7
R14	-4.1

CIE 1931



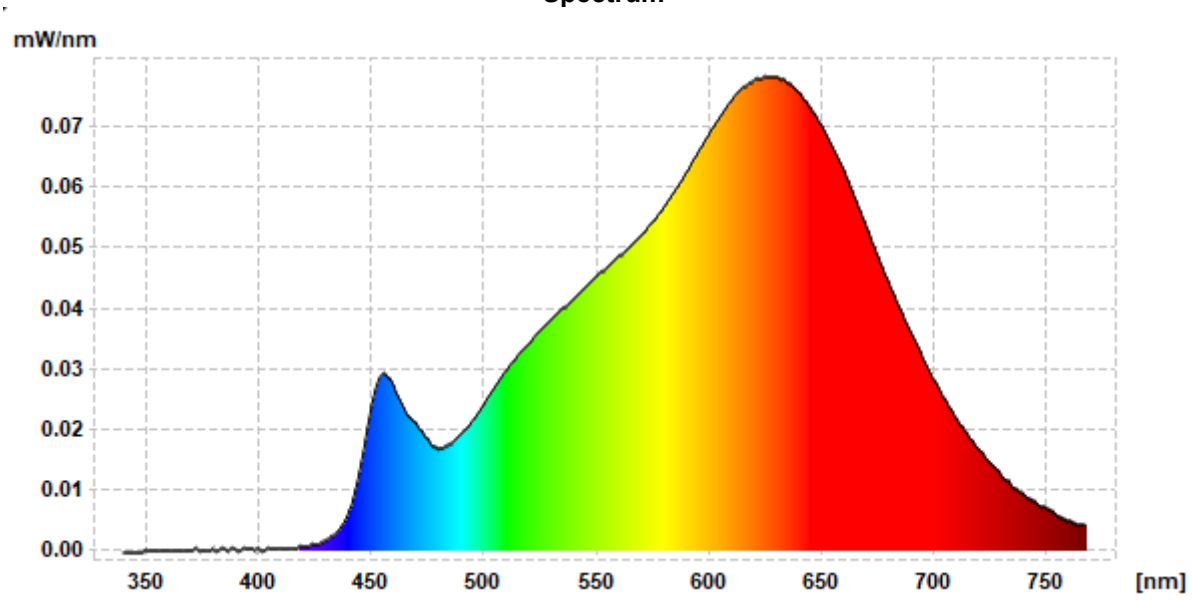
Weitere Messungen

Pos	Name	x2	y2	Y2	CCT	Ra	Chromaticity Error	Peak Wavelength	Dominant Wavelength
				lm	K			nm	nm
1	m260726-140538	0,1353	0,0613	0,74	0	-52	0,269	463,73	468,4
2	m260726-140550	0,1349	0,0598	0,73	0	-53,4	0,271	463,73	468,3
3	m260726-140558	0,1358	0,0584	0,68	0	-53,2	0,274	463,73	467,9

GL SpectroSoft Report – LED-Messprotokoll

Measurement name:	*m260726-140620*	Kunde:	*LED-Studien GmbH*
Measurement time:	*2026-07-26 14:06:20*	Artikel:	*LK04-45b*
Report time:	*2026-07-26 17:02:25*		
Messung: *24V*	*3x120 LEDs/m, RGB-CCT,*	SN Gerät.:	*Xt010208/A13W0158*

Spectrum



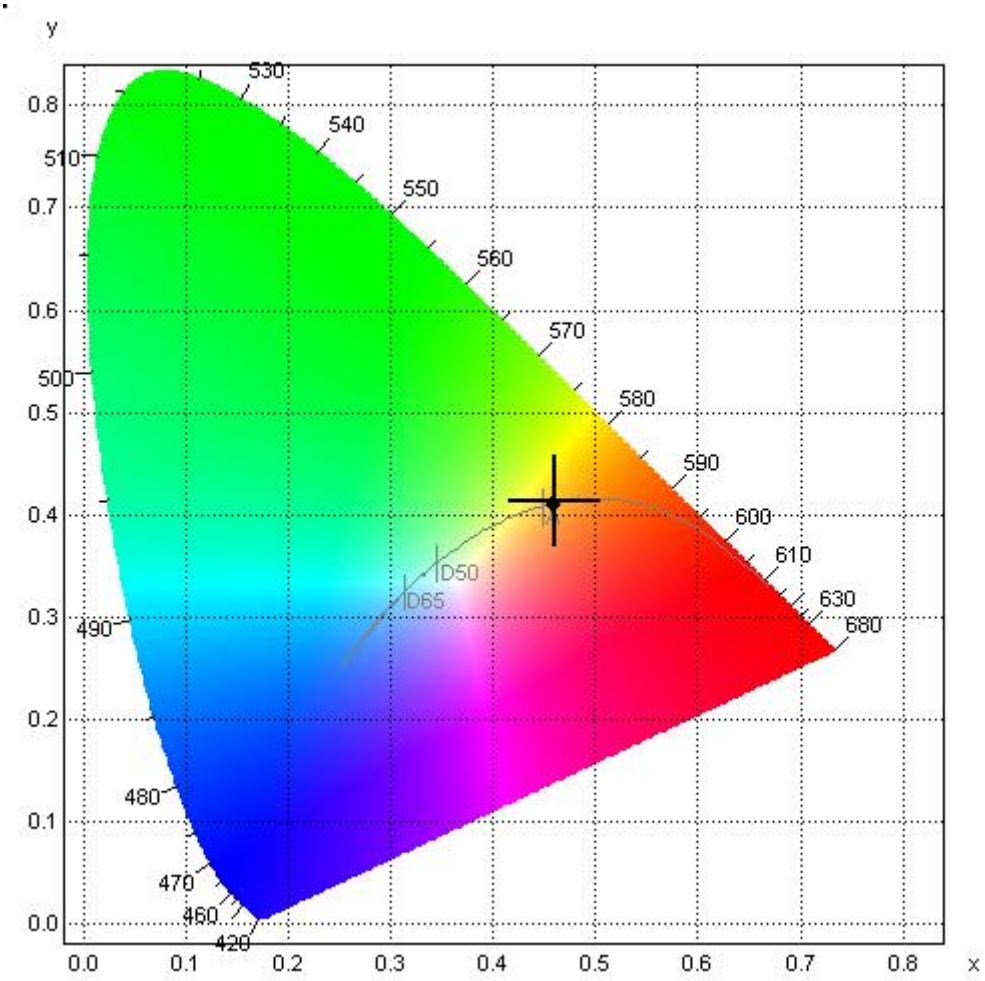
Ergebnisse / Messwerte

CIE 1931 2˚observer	
x	**0.4593**
y	**0.4131**
u'	0.2610
v'	0.5282
L	100.00
a	26.83
b	68.55
X	3.97
Y	**3.57 lm**
Z	1.10

Farbtemperatur	
CCT	**2727 K**
Color Rendering Index (CRI)	
Ra	**94.7**
Luminous Intensity	
Y	**3.57 lm**
Binning	
Binning	8B4
Sonstige	
Chromaticity Error	0.002
Color Peak	629.18
Color Peak Value	0.08
Color Dominant	583.8
Radiometric	0.0128

Rendering Indices	
R1	95.3
R2	98.1
R3	99.2
R4	94.2
R5	94.5
R6	97.5
R7	93.0
R8	85.4
R9	68.5
R10	94.0
R11	95.4
R12	81.2
R13	96.3
R14	98.5

CIE 1931



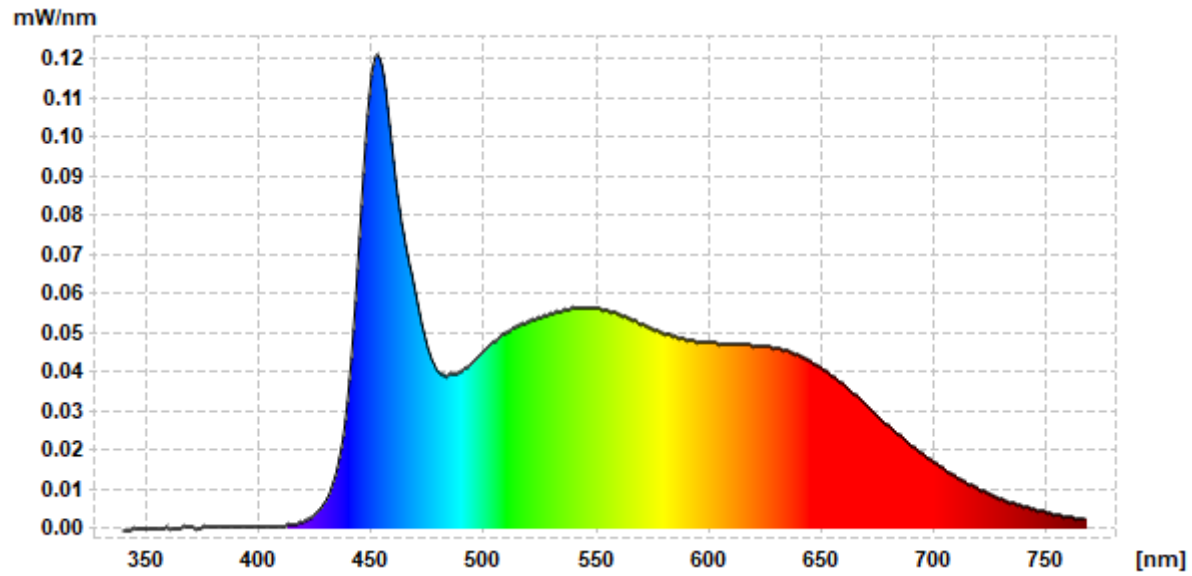
Weitere Messungen

Pos	Name	x2	y2	Y2	CCT	Ra	Chromaticity Error	Peak Wavelength	Dominant Wavelength
				lm	K			nm	nm
1	m260726-140620	0,4593	0,4131	3,57	2727	94,7	0,002	629,18	583,8
2	m260726-140638	0,4569	0,4075	3,51	2718	95	0,001	629,18	584,4
3	m260726-140645	0,4574	0,4084	3,58	2718	94,9	0,001	629,18	584,3

GL SpectroSoft Report – LED-Messprotokoll

Measurement name:	*m260726-140705*	Kunde:	*LED-Studien GmbH*
Measurement time:	*2026-07-26 14:07:04*	Artikel:	*LK04-45b*
Report time:	*2026-07-26 17:04:36*		
Messung: *24V*	*3x120 LEDs/m, RGB-CCT,*	SN Gerät.:	*Xt010208/A13W0158*

Spectrum



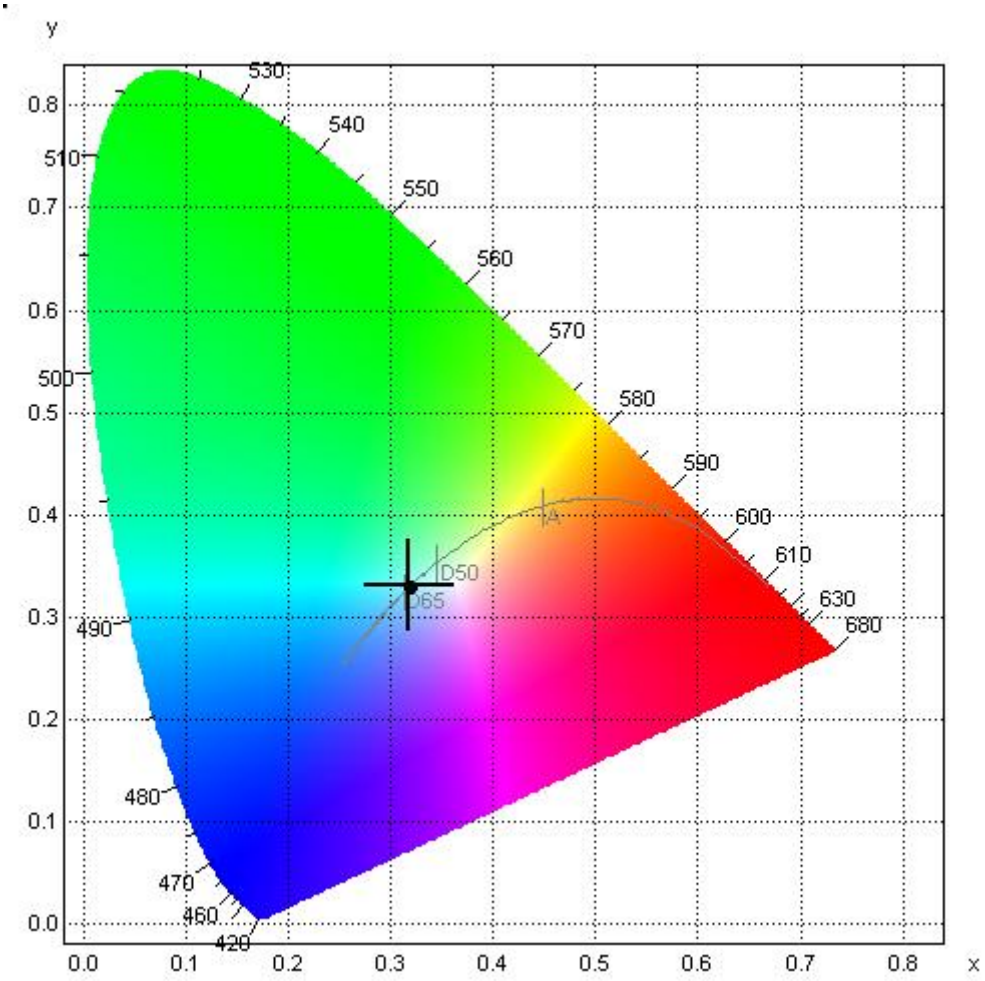
Ergebnisse / Messwerte

CIE 1931 2˚observer	
x	**0.3179**
y	**0.3303**
u'	0.2009
v'	0.4698
L	100.00
a	2.07
b	1.48
X	3.58
Y	**3.72 lm**
Z	3.96

Farbtemperatur	
CCT	**6223 K**
Color Rendering Index (CRI)	
Ra	**94.7**
Luminous Intensity	
Y	**3.72 lm**
Binning	
Binning	1D
Sonstige	
Chromaticity Error	0.002
Color Peak	452.72
Color Peak Value	0.12
Color Dominant	489.2
Radiometric	0.0135

Rendering Indices	
R1	95.9
R2	98.3
R3	95.7
R4	92.7
R5	93.0
R6	92.1
R7	95.7
R8	94.0
R9	88.8
R10	93.1
R11	93.3
R12	64.7
R13	98.0
R14	97.7

CIE 1931



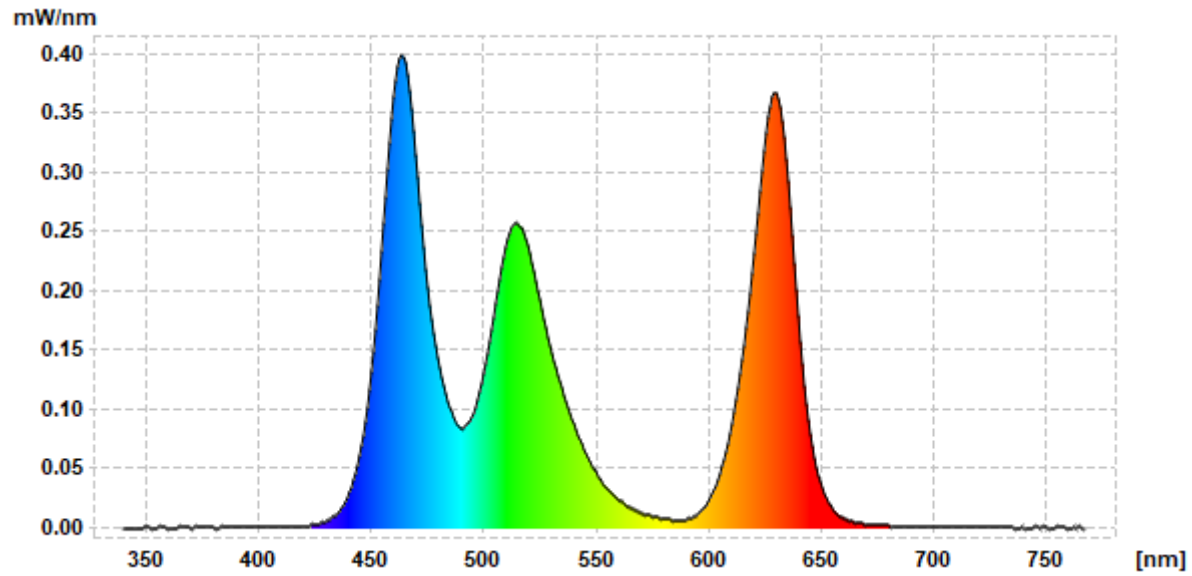
Weitere Messungen

Pos	Name	x2	y2	Y2	CCT	Ra	Chromaticity Error	Peak Wavelength	Dominant Wavelength
				lm	K			nm	nm
1	m260726-140705	0,3179	0,3303	3,72	6223	94,7	0,002	452,72	489,2
2	m260726-140715	0,31	0,3227	3,77	6716	94,2	0,002	454,55	485,6
3	m260726-140723	0,3166	0,3295	3,91	6294	94,6	0,002	454,55	488,8

GL SpectroSoft Report – LED-Messprotokoll

Measurement name:	*m260726-140800*	Kunde:	*LED-Studien GmbH*
Measurement time:	*2026-07-26 14:07:59*	Artikel:	*LK04-45b*
Report time:	*2026-07-26 17:06:20*		
Messung: *24V*	*3x120 LEDs/m, RGB-CCT,*	SN Gerät.:	*Xt010208/A13W0158*

Spectrum



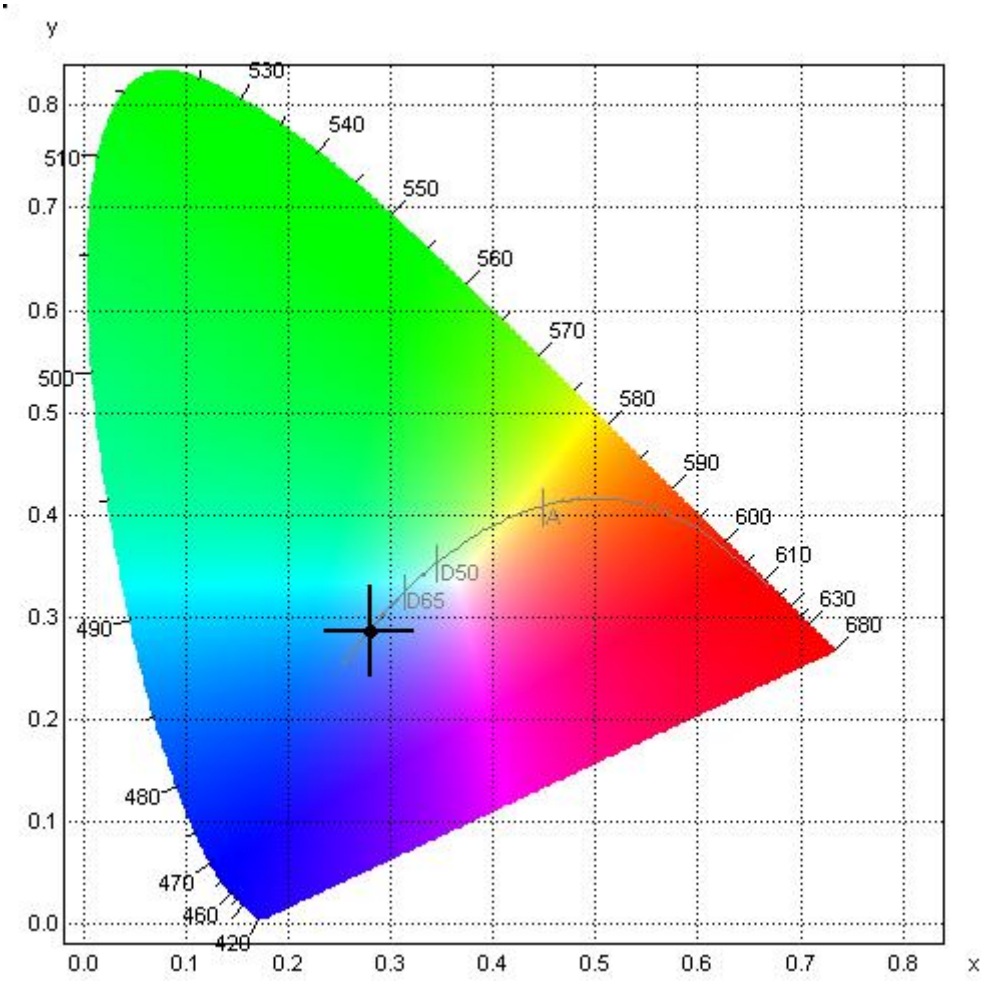
Ergebnisse / Messwerte

CIE 1931 2˚observer	
x	**0.2788**
y	**0.2861**
u'	0.1898
v'	0.4382
L	100.00
a	4.19
b	-23.56
X	6.62
Y	**6.79 lm**
Z	10.33

Farbtemperatur	
CCT	**10359 K**
Color Rendering Index (CRI)	
Ra	**29.0**
Luminous Intensity	
Y	**6.79 lm**
Binning	
Binning	
Sonstige	
Chromaticity Error	0.012
Color Peak	463.73
Color Peak Value	0.40
Color Dominant	479.4
Radiometric	0.0288

Rendering Indices	
R1	5.9
R2	47.4
R3	69.5
R4	22.7
R5	27.6
R6	38.0
R7	48.8
R8	-28.2
R9	-250.4
R10	-26.7
R11	4.5
R12	45.0
R13	13.4
R14	77.6

CIE 1931



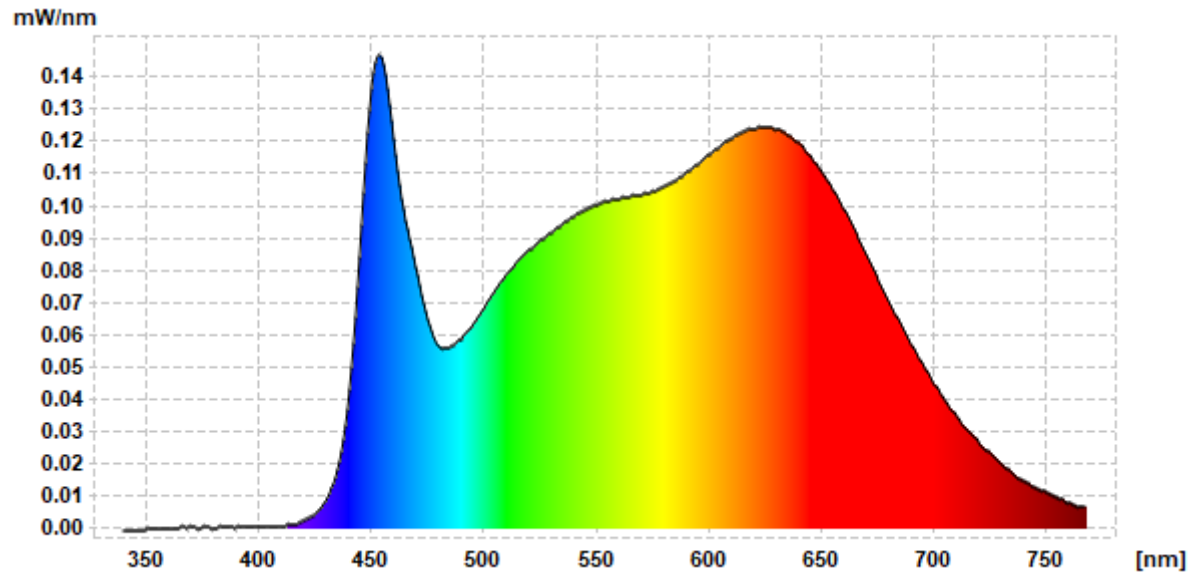
Weitere Messungen

Pos	Name	x2	y2	Y2	CCT	Ra	Chromaticity Error	Peak Wavelength	Dominant Wavelength
				lm	K			nm	nm
1	m260726-140800	0,2788	0,2861	6,79	10359	29	0,012	463,73	479,4
2	m260726-140809	0,2723	0,2879	6,7	11032	34	0,016	463,73	481,4
3	m260726-140815	0,2752	0,2843	6,12	10936	30,4	0,013	463,73	479,7
4	m260726-140820	0,2748	0,2817	6,46	11198	29,3	0,012	463,73	479,1

GL SpectroSoft Report – LED-Messprotokoll

Measurement name:	*m260726-140846*	Kunde:	*LED-Studien GmbH*
Measurement time:	*2026-07-26 14:08:45*	Artikel:	*LK04-45b*
Report time:	*2026-07-26 17:09:34*		
Messung: *24V*	*3x120 LEDs/m, RGB-CCT,*	SN Gerät.:	*Xt010208/A13W0158*

Spectrum



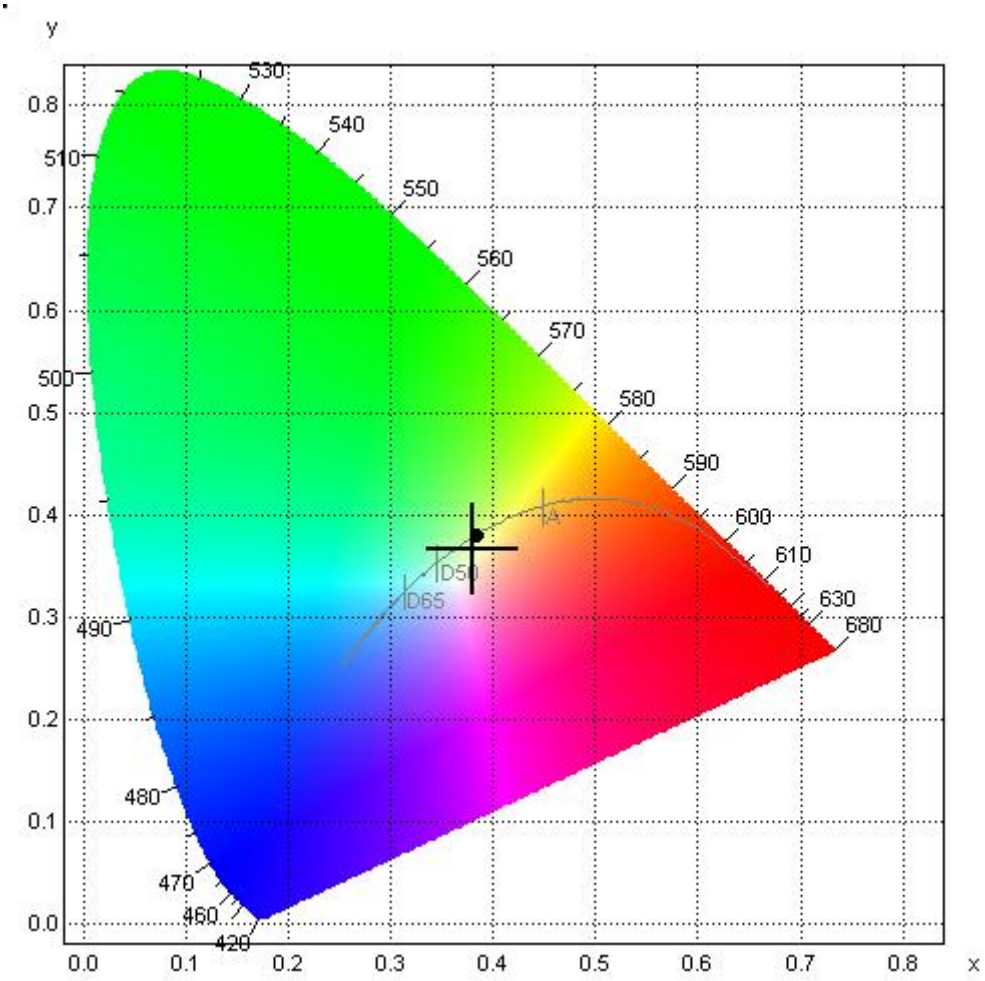
Ergebnisse / Messwerte

CIE 1931 2˚observer	
x	**0.3799**
y	**0.3662**
u'	0.2290
v'	0.4967
L	100.00
a	14.81
b	27.92
X	7.51
Y	**7.24 lm**
Z	5.02

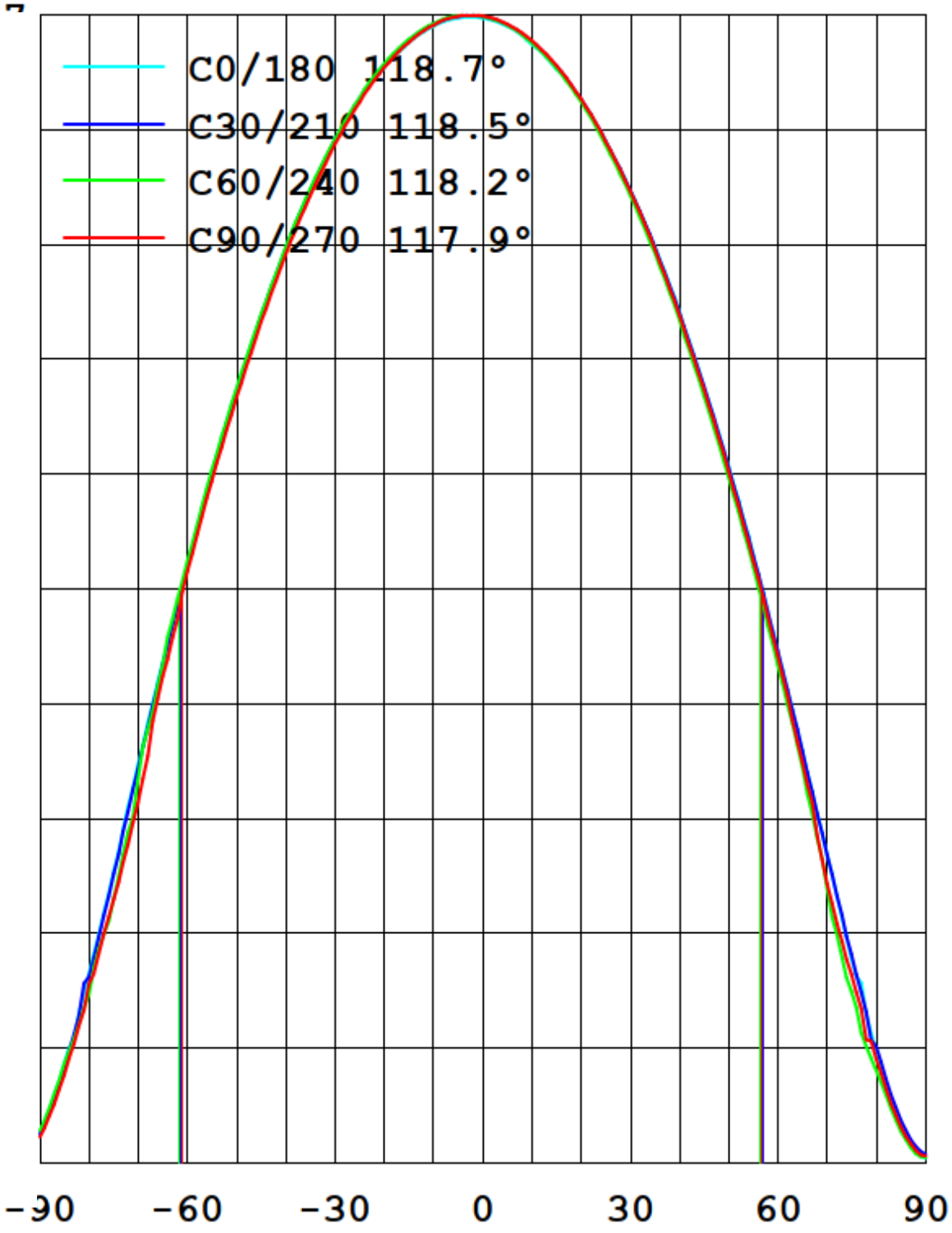
Farbtemperatur	
CCT	**3934 K**
Color Rendering Index (CRI)	
Ra	**96.5**
Luminous Intensity	
Y	**7.24 lm**
Binning	
Binning	5D1
Sonstige	
Chromaticity Error	0.005
Color Peak	454.55
Color Peak Value	0.15
Color Dominant	582.4
Radiometric	0.0261

Rendering Indices	
R1	97.7
R2	98.0
R3	97.8
R4	96.6
R5	96.5
R6	94.5
R7	95.3
R8	95.2
R9	93.2
R10	98.3
R11	96.9
R12	73.2
R13	98.2
R14	98.4

CIE 1931



Weitere Messungen

Pos	Name	x2	y2	Y2	CCT	Ra	Chromaticity Error	Peak Wavelength	Dominant Wavelength
				lm	K			nm	nm
2	m260726-140846	0,3799	0,3662	7,24	3934	96,5	0,005	454,55	582,4
3	m260726-140854	0,3744	0,36	7,26	4046	96,1	0,006	454,55	583,4
4	m260726-140901	0,376	0,3622	7,45	4016	96,1	0,006	454,55	582,9

Lichtstärkeverteilung