

GL OPTIC Polska Sp. z o.o., Poznańska 70, PL 62-040 Puszczykowo

RAPORT POMIARU SPEKTRALNEGO

Data wydania: 2024-08-26

Numer badania: GLR0232024

Opis

Zleceniodawca: Spacetronik Sp. z o. o.
64-000 Kościan
ul. Wiśniowa 36

Obiekt badania: GLOW D1 GL0162024
Zmierzył: Piotr Augustyniak

Wypożyczenie

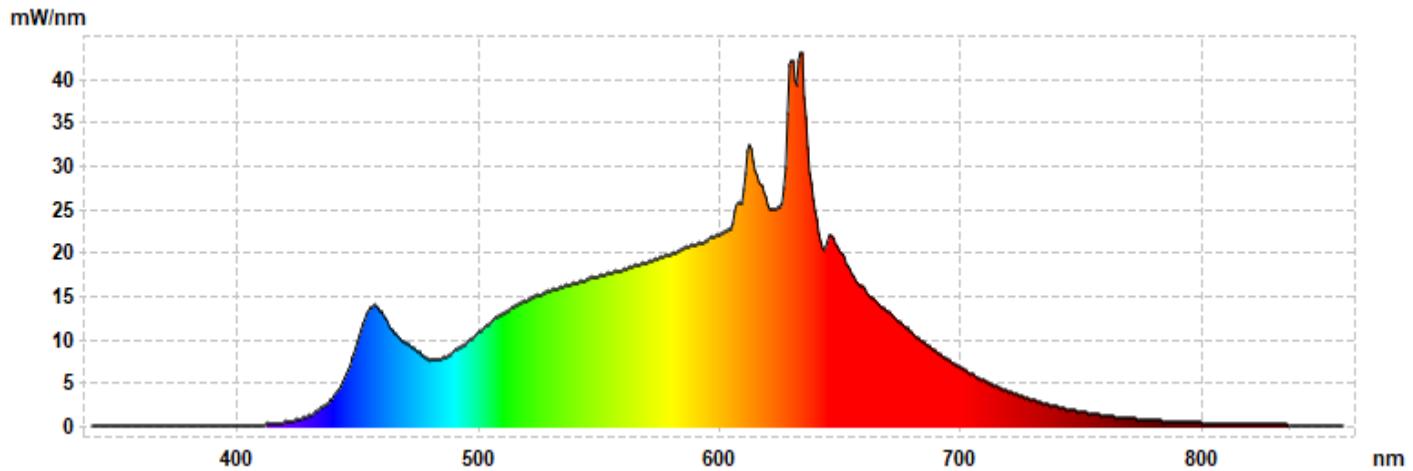
- Pomiar spektralny

Kula całkująca: GL OPTI SPHERE 2000 SN: GL180408
Spektroradiometr: GL SPECTIS 5.0 Touch UV-VIS-NIR SN: Xt050222

Warunki pomiarowe

Temperatura otoczenia: 25.3 +/- 0.4 °C
Zakres pomiarowy: 350 nm – 850 nm
Czas stabilizacji: 30 minut

tryb 1 100%
Spectrum (350nm – 850 nm)

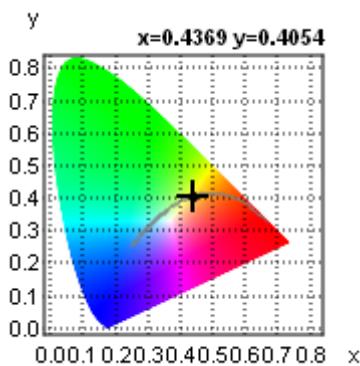


Results

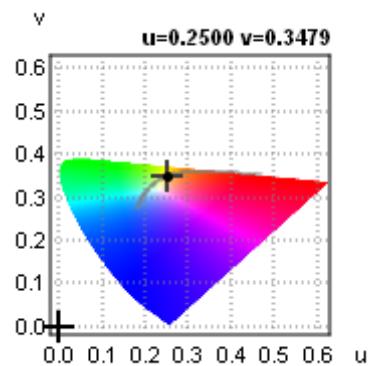
CIE 1931 2° observer	
x	0.4369
y	0.4054
u'	0.2500
v'	0.5219
CCT [K]	3012
Y [lm]	1333.86
Purity	0.528
Radiometric [W]	4.5197

Rendering Indices	
Ra	97.1
R1	98.5
R2	99.1
R3	98.4
R4	98.2
R5	98.0
R6	95.9
R7	95.4
R8	93.6
R9	86.1
R10	99.2
R11	97.5
R12	83.1
R13	98.5
R14	97.6

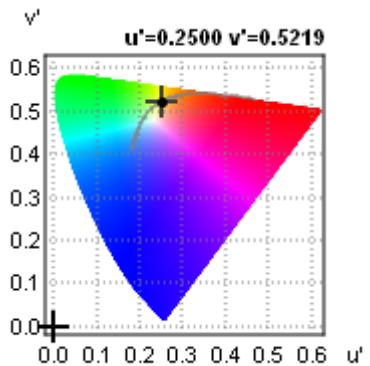
CIE 1931



CIE 1960

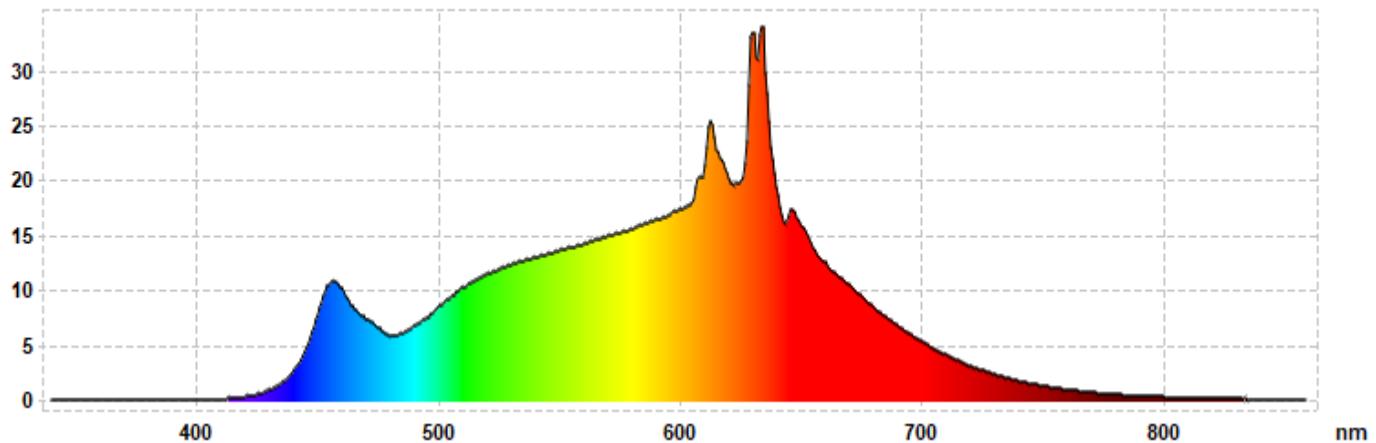


CIE 1976



tryb 1 80%
Spectrum (350nm – 850 nm)

mW/nm

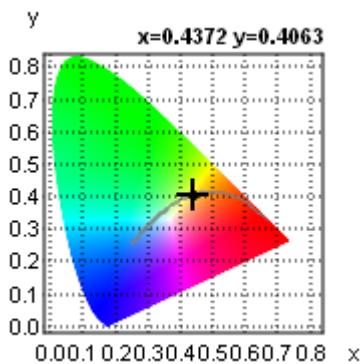


Results

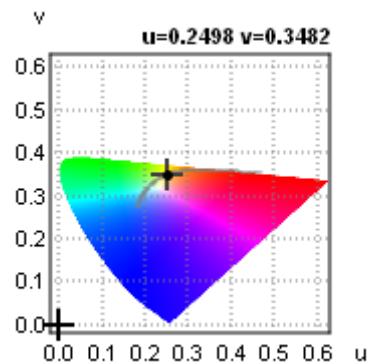
CIE 1931 2° observer	
x	0.4372
y	0.4063
u'	0.2498
v'	0.5223
CCT [K]	3013
Y [lm]	1050.24
Purity	0.532
Radiometric [W]	3.5552

Rendering Indices	
Ra	97.2
R1	98.6
R2	99.3
R3	98.0
R4	98.2
R5	98.0
R6	96.2
R7	95.6
R8	93.9
R9	86.4
R10	98.8
R11	97.3
R12	82.9
R13	98.6
R14	97.5

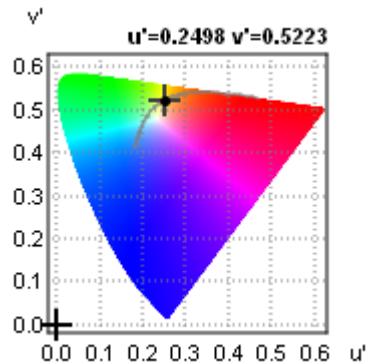
CIE 1931



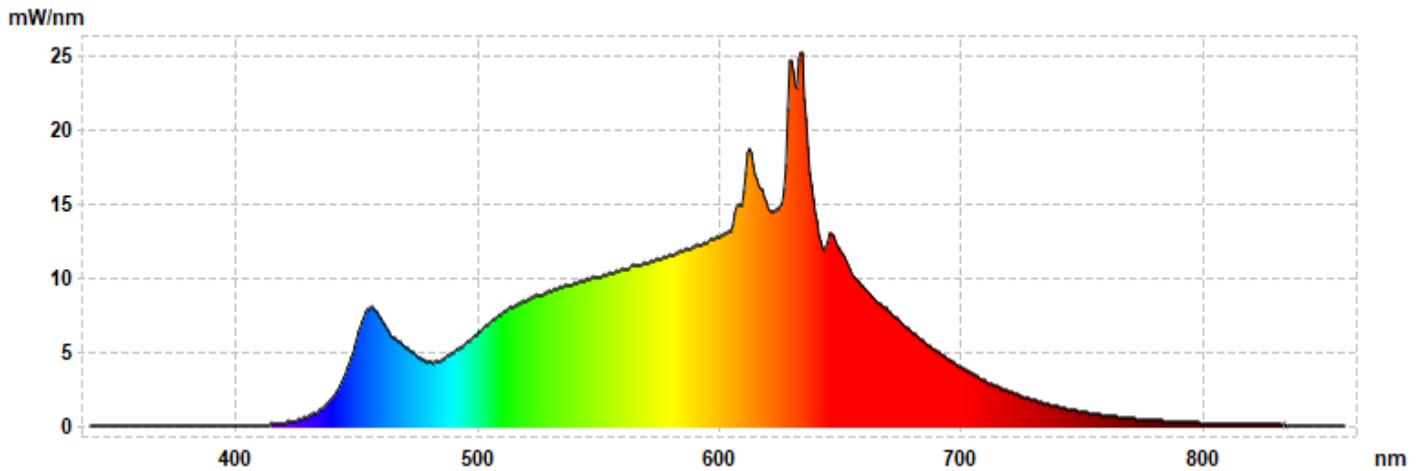
CIE 1960



CIE 1976



tryb 1 60%
Spectrum (350nm – 850 nm)

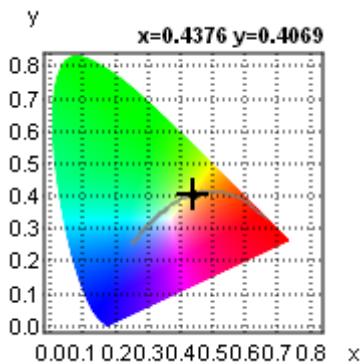


Results

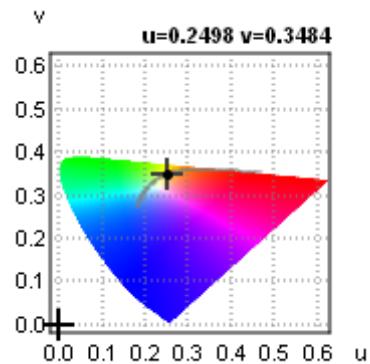
CIE 1931 2° observer	
x	0.4376
y	0.4069
u'	0.2498
v'	0.5226
CCT [K]	3012
Y [lm]	777.49
Purity	0.535
Radiometric [W]	2.6324

Rendering Indices	
Ra	97.3
R1	98.6
R2	99.4
R3	97.8
R4	98.3
R5	98.1
R6	96.4
R7	95.8
R8	94.1
R9	86.7
R10	98.5
R11	97.3
R12	82.7
R13	98.7
R14	97.4

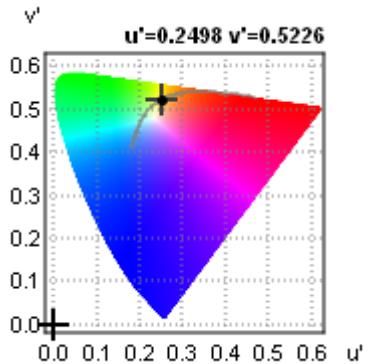
CIE 1931



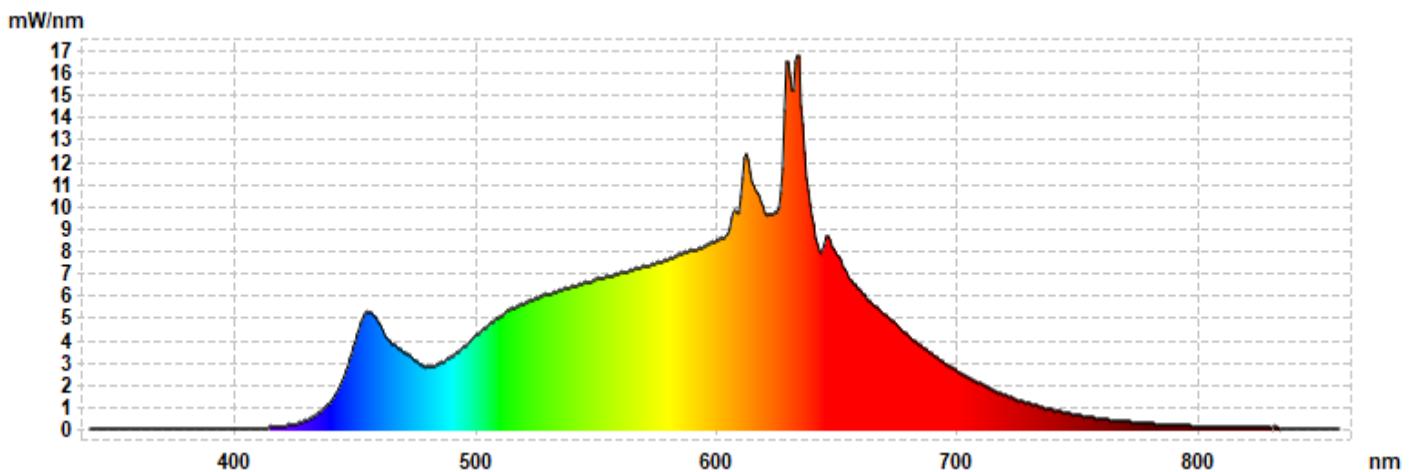
CIE 1960



CIE 1976



tryb 1 40%
Spectrum (350nm – 850 nm)

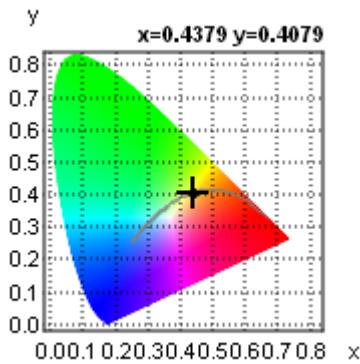


Results

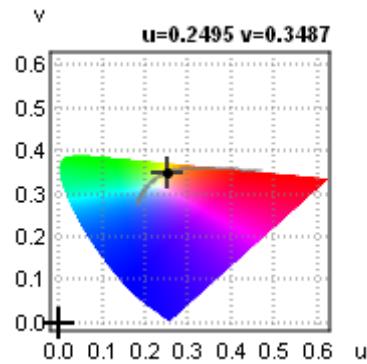
CIE 1931 2° observer	
x	0.4379
y	0.4079
u'	0.2495
v'	0.5230
CCT [K]	3015
Y [lm]	514.29
Purity	0.539
Radiometric [W]	1.7387

Rendering Indices	
Ra	97.4
R1	98.8
R2	99.6
R3	97.5
R4	98.3
R5	98.2
R6	96.8
R7	96.1
R8	94.3
R9	86.9
R10	98.0
R11	97.2
R12	82.5
R13	98.9
R14	97.2

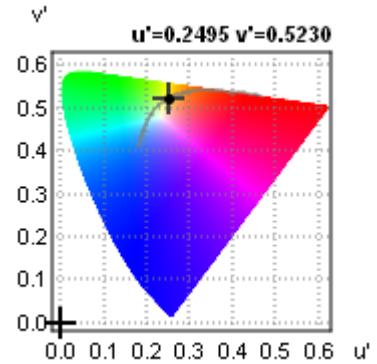
CIE 1931



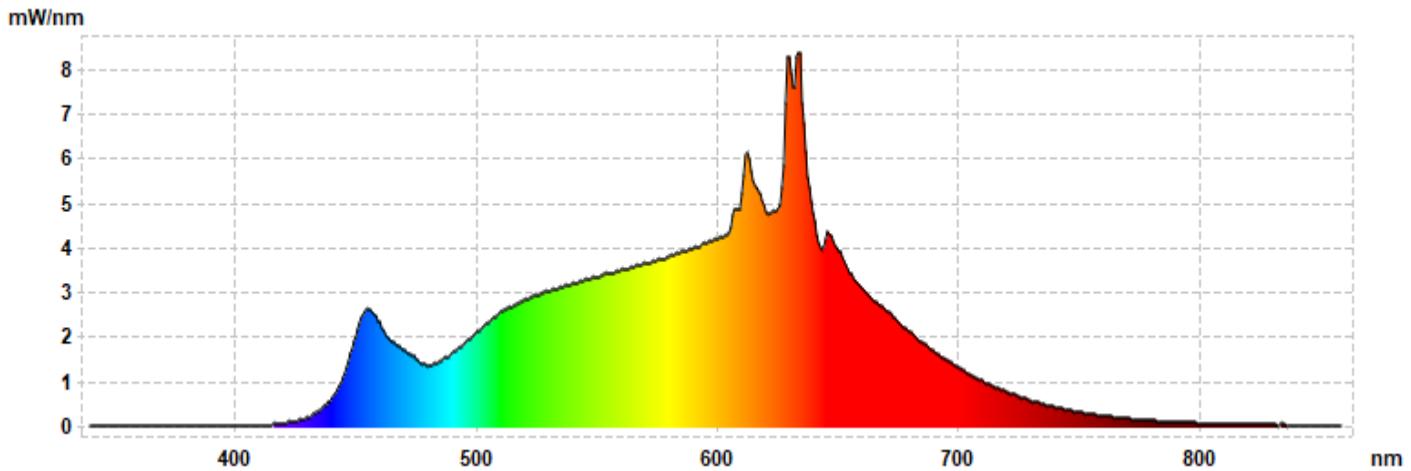
CIE 1960



CIE 1976



tryb 1 20%
Spectrum (350nm – 850 nm)

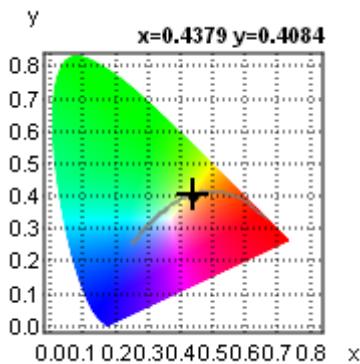


Results

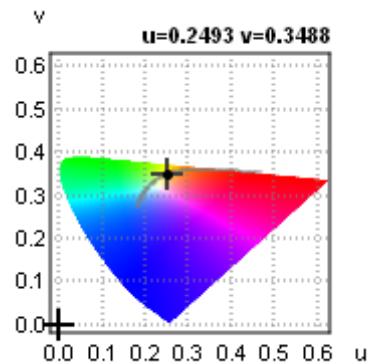
CIE 1931 2° observer	
x	0.4379
y	0.4084
u'	0.2493
v'	0.5232
CCT [K]	3018
Y [lm]	256.70
Purity	0.541
Radiometric [W]	0.8682

Rendering Indices	
Ra	97.5
R1	98.8
R2	99.6
R3	97.3
R4	98.2
R5	98.2
R6	97.0
R7	96.3
R8	94.6
R9	87.5
R10	97.8
R11	97.0
R12	82.3
R13	98.9
R14	97.1

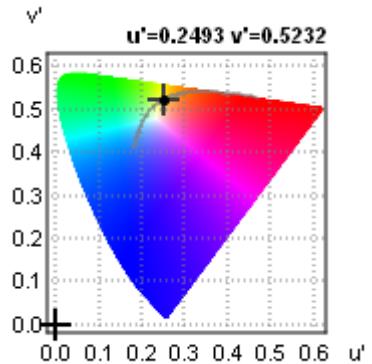
CIE 1931



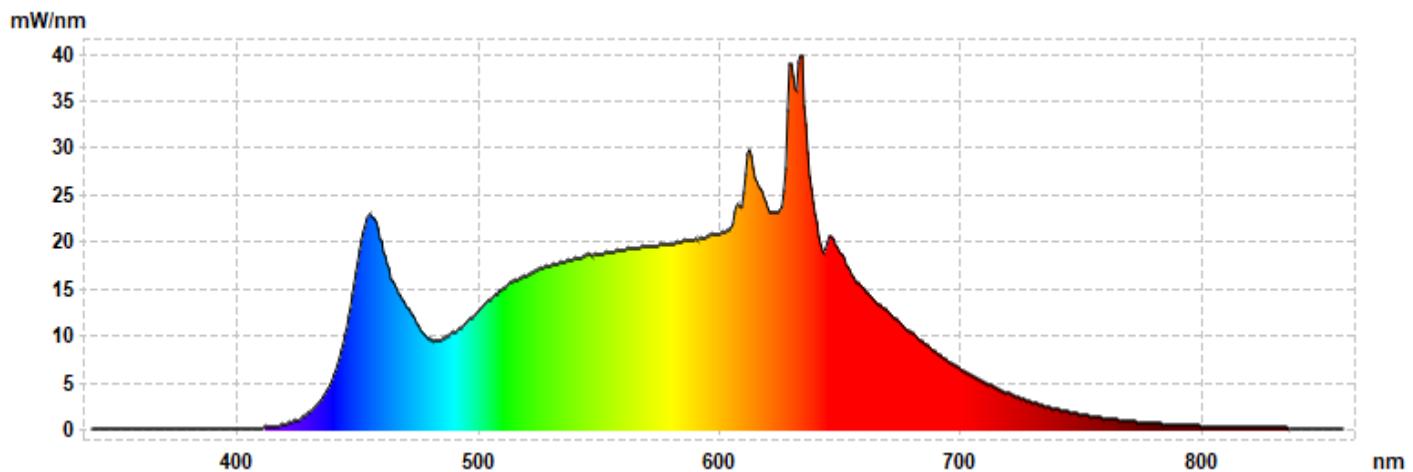
CIE 1960



CIE 1976



tryb 2 100%
Spectrum (350nm – 850 nm)

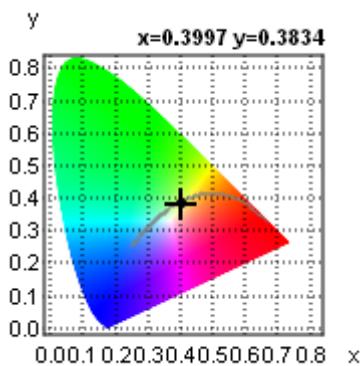


Results

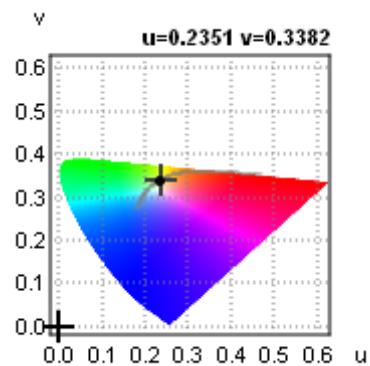
CIE 1931 2° observer	
x	0.3997
y	0.3834
u'	0.2351
v'	0.5073
CCT [K]	3565
Y [lm]	1377.19
Purity	0.350
Radiometric [W]	4.7280

Rendering Indices	
Ra	97.2
R1	96.9
R2	98.2
R3	97.6
R4	98.7
R5	97.1
R6	95.3
R7	96.6
R8	97.1
R9	97.0
R10	99.0
R11	97.4
R12	77.7
R13	97.0
R14	97.4

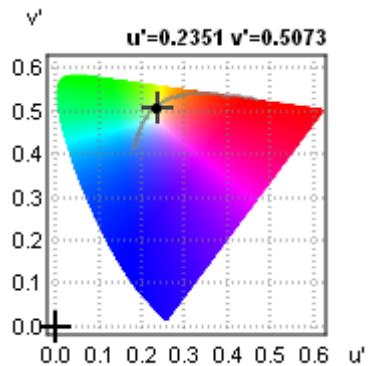
CIE 1931



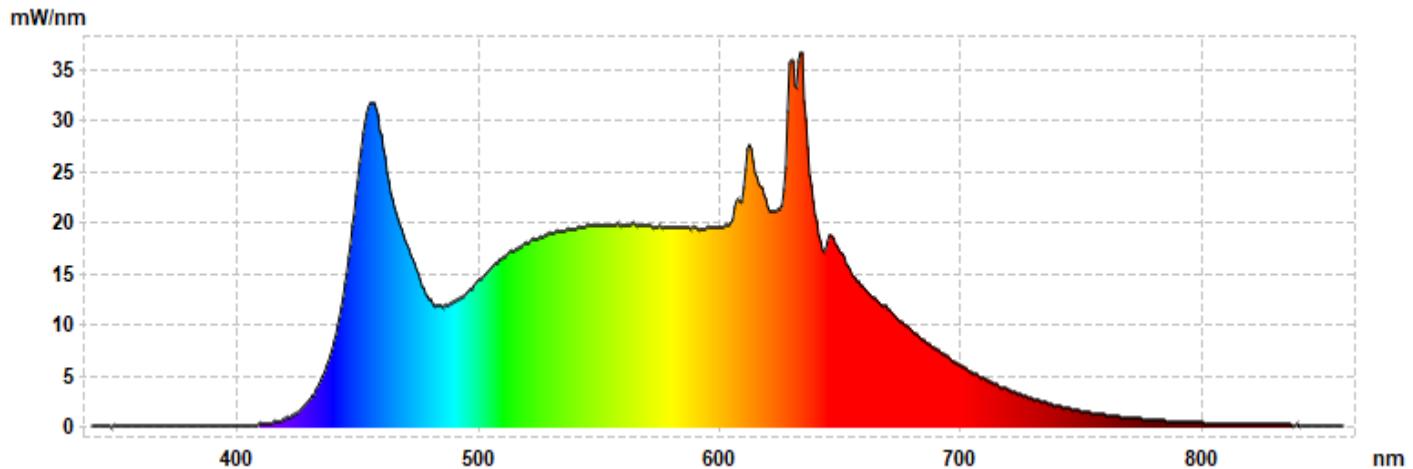
CIE 1960



CIE 1976



tryb 3 100%
Spectrum (350nm – 850 nm)

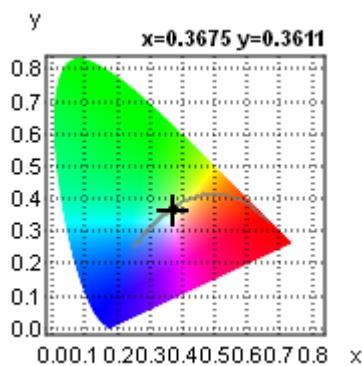


Results

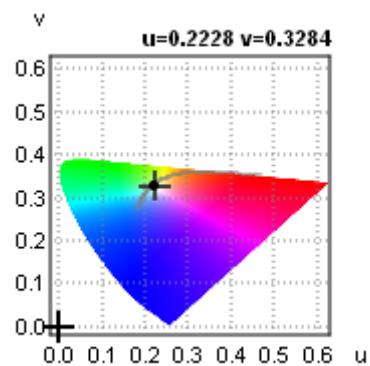
CIE 1931 2° observer	
x	0.3675
y	0.3611
u'	0.2228
v'	0.4925
CCT [K]	4267
Y [lm]	1408.14
Purity	0.186
Radiometric [W]	4.9220

Rendering Indices	
Ra	96.0
R1	95.3
R2	96.9
R3	97.6
R4	97.2
R5	95.5
R6	94.3
R7	95.7
R8	95.4
R9	91.6
R10	97.1
R11	98.4
R12	72.7
R13	95.6
R14	97.6

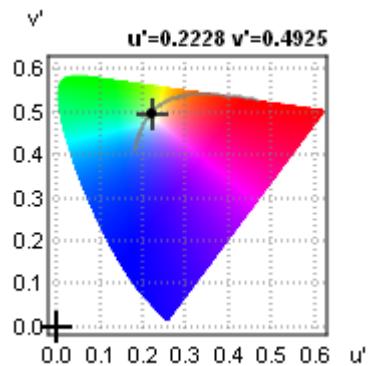
CIE 1931



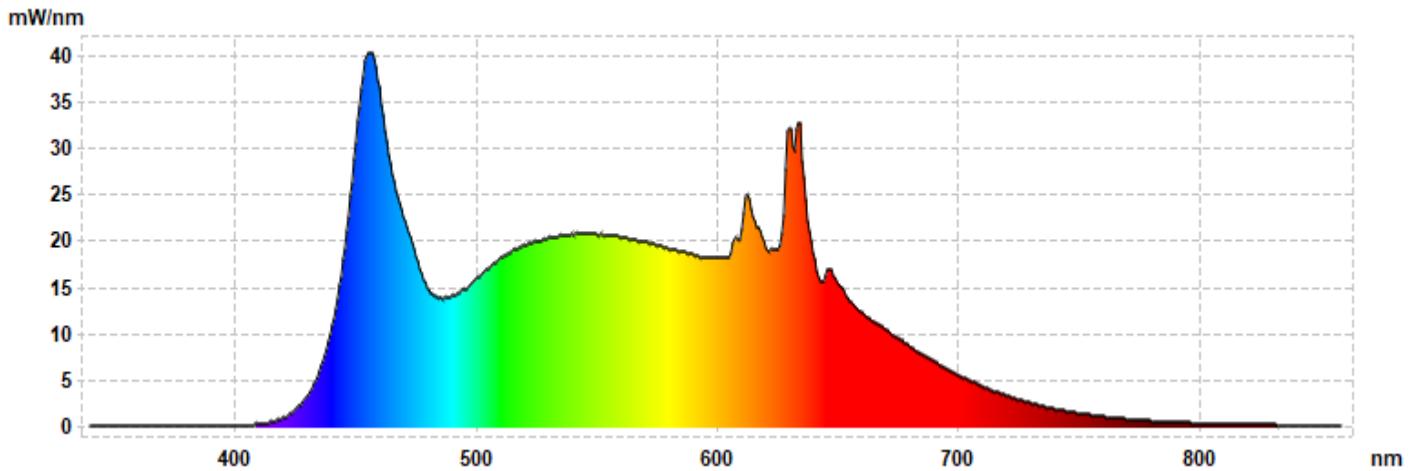
CIE 1960



CIE 1976



tryb 4 100%
Spectrum (350nm – 850 nm)

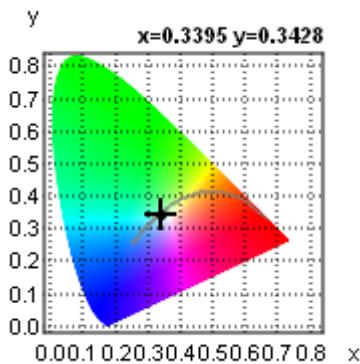


Results

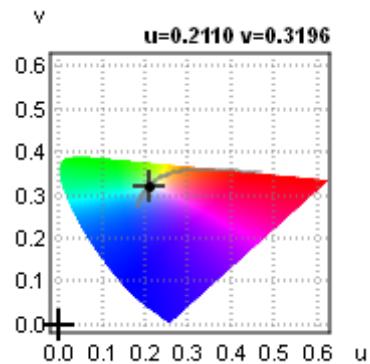
CIE 1931 2° observer	
x	0.3395
y	0.3428
u'	0.2110
v'	0.4795
CCT [K]	5200
Y [lm]	1429.50
Purity	0.047
Radiometric [W]	5.0771

Rendering Indices	
Ra	95.9
R1	95.4
R2	97.0
R3	96.9
R4	96.9
R5	95.1
R6	93.8
R7	96.2
R8	95.5
R9	89.5
R10	97.2
R11	98.2
R12	72.9
R13	95.8
R14	97.5

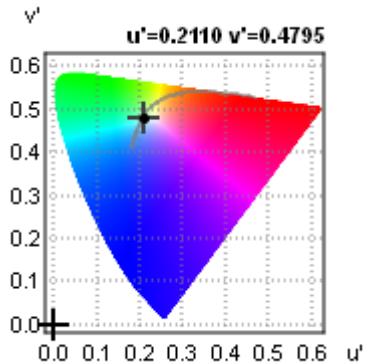
CIE 1931



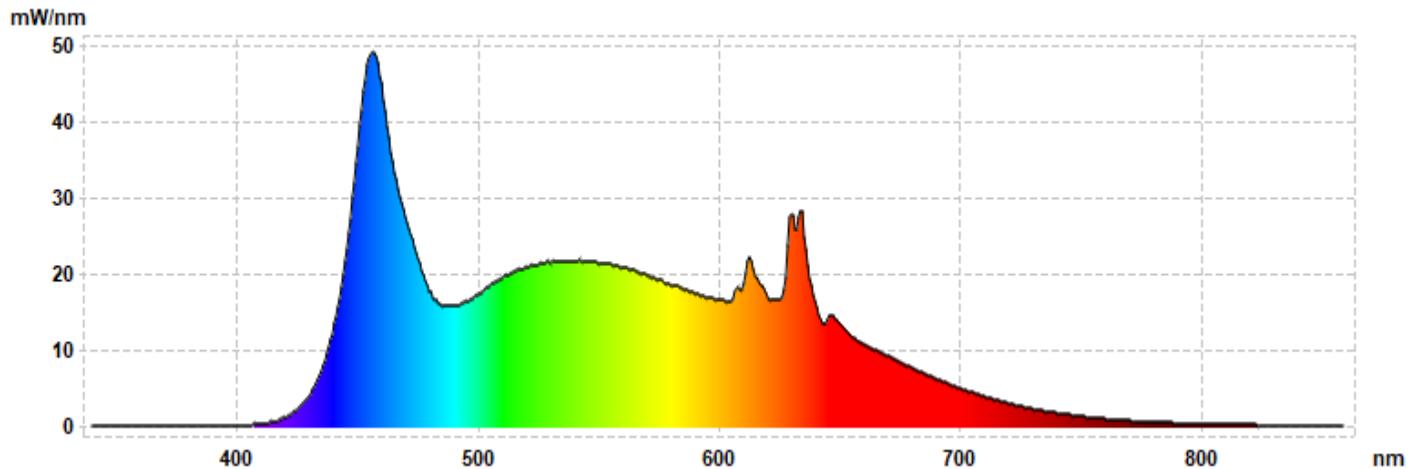
CIE 1960



CIE 1976



tryb 5 100%
Spectrum (350nm – 850 nm)

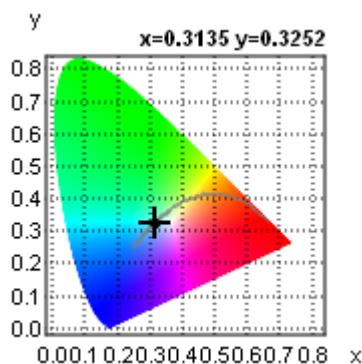


Results

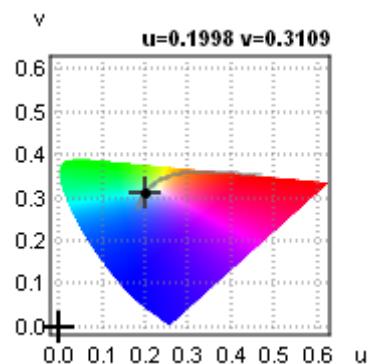
CIE 1931 2° observer	
x	0.3135
y	0.3252
u'	0.1998
v'	0.4664
CCT [K]	6495
Y [lm]	1440.19
Purity	0.073
Radiometric [W]	5.2047

Rendering Indices	
Ra	95.2
R1	96.7
R2	98.3
R3	97.0
R4	92.9
R5	93.7
R6	93.9
R7	94.4
R8	94.5
R9	92.4
R10	98.5
R11	95.5
R12	66.8
R13	97.8
R14	98.0

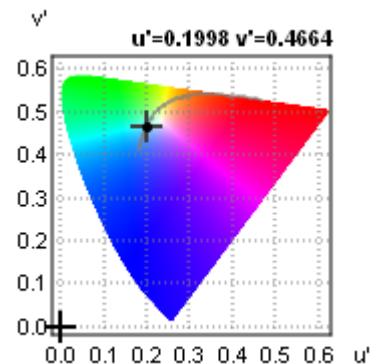
CIE 1931



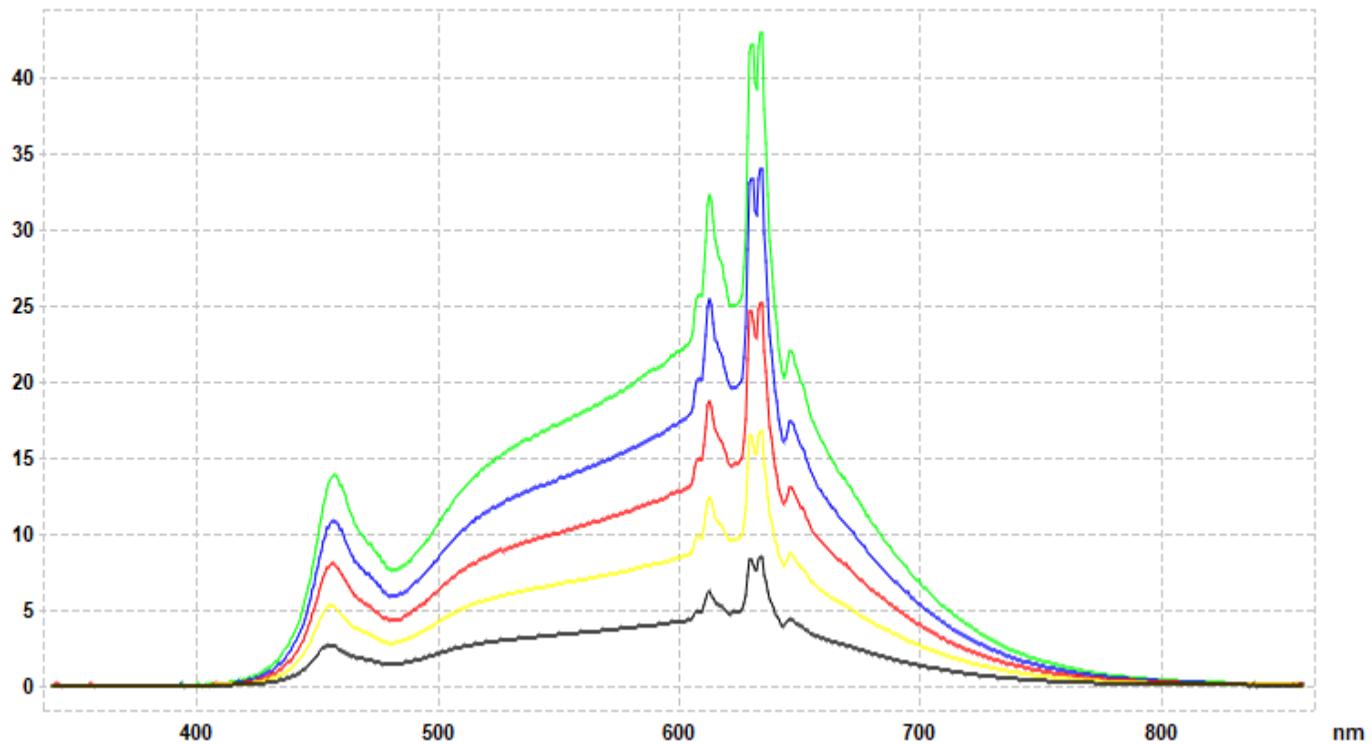
CIE 1960



CIE 1976

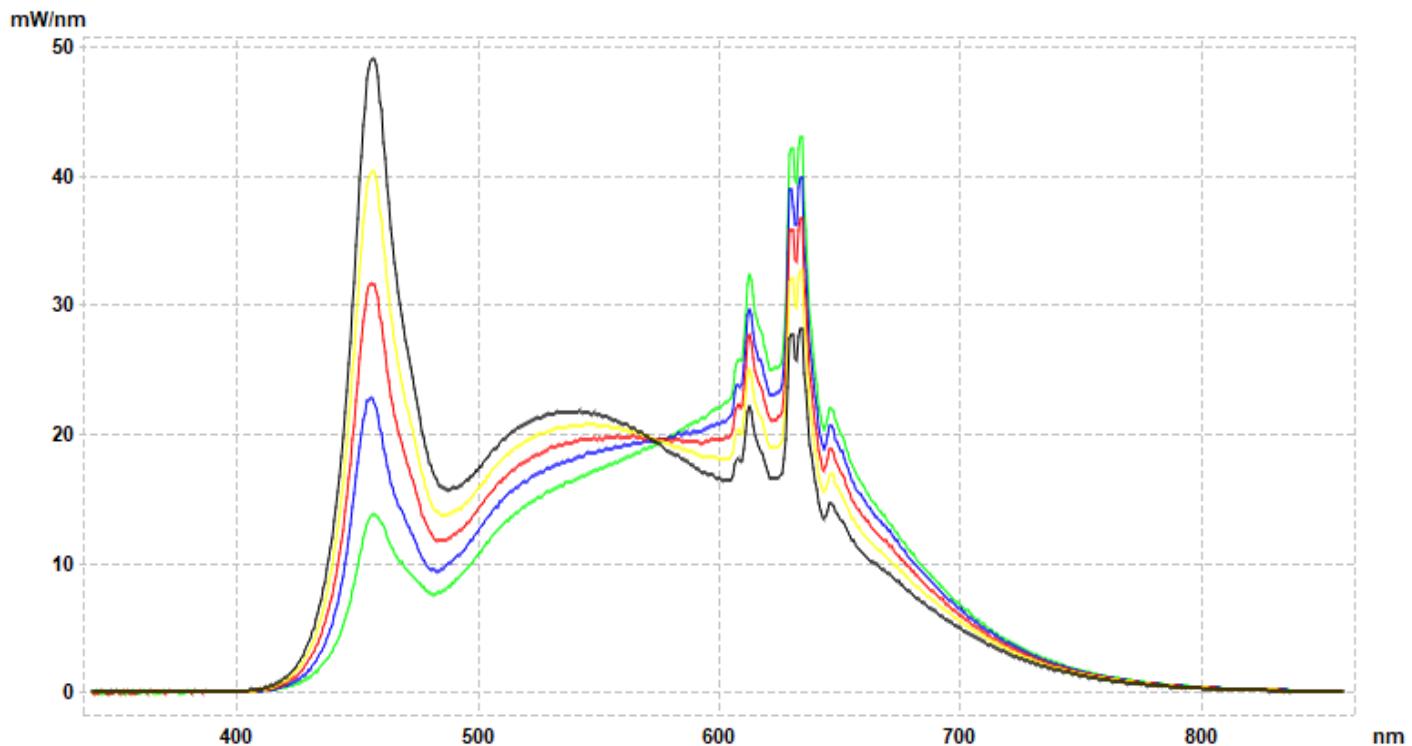


mW/nm



Comparison table

Pos.	Name	x	y	CCT [K]	Y [lm]	Ra	Radiometric [W]
1	tryb 1 100%	0.4369	0.4054	3012	1333.86	97.1	4.5197
2	tryb 1 80%	0.4372	0.4063	3013	1050.24	97.2	3.5552
3	tryb 1 60%	0.4376	0.4069	3012	777.49	97.3	2.6324
4	tryb 1 40%	0.4379	0.4079	3015	514.29	97.4	1.7387
5	tryb 1 20%	0.4379	0.4084	3018	256.7	97.5	0.8682


Comparison table

Pos.	Name	x	y	CCT [K]	Y [lm]	Ra	Radiometric [W]
1	tryb 1 100%	0.4369	0.4054	3012	1333.86	97.1	4.5197
2	tryb 2 100%	0.3997	0.3834	3565	1377.19	97.2	4.728
3	tryb 3 100%	0.3675	0.3611	4267	1408.14	96	4.922
4	tryb 4 100%	0.3395	0.3428	5200	1429.5	95.9	5.0771
5	tryb 5 100%	0.3135	0.3252	6495	1440.19	95.2	5.2047