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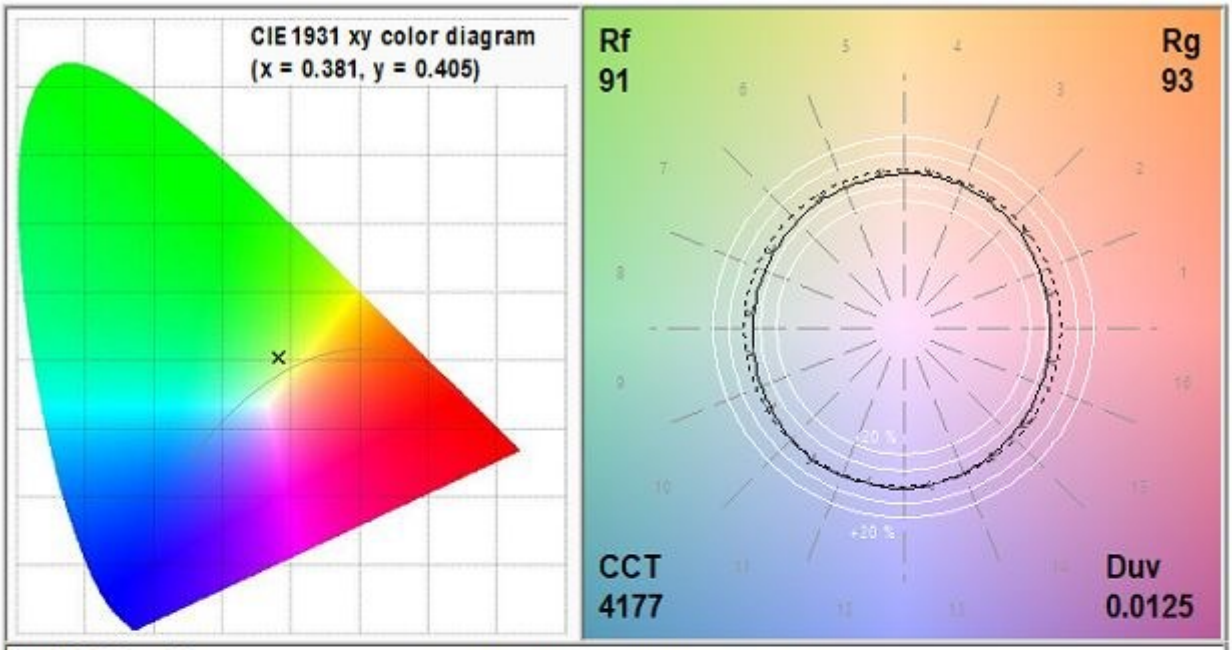
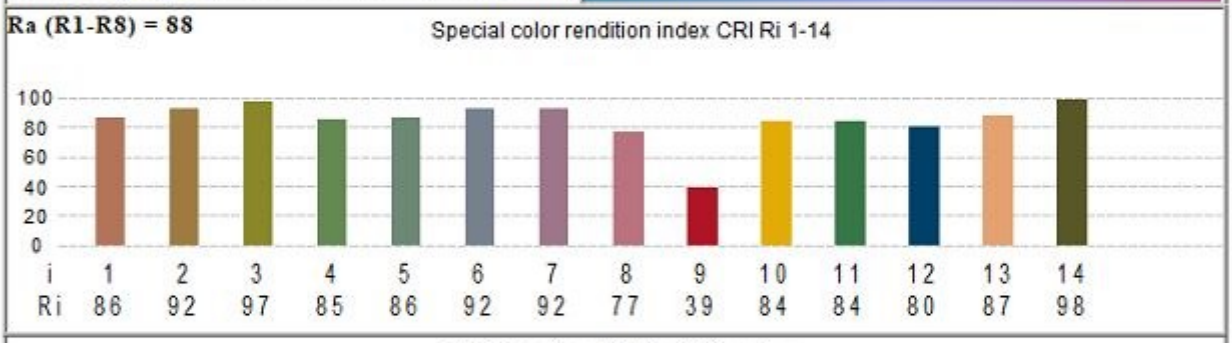
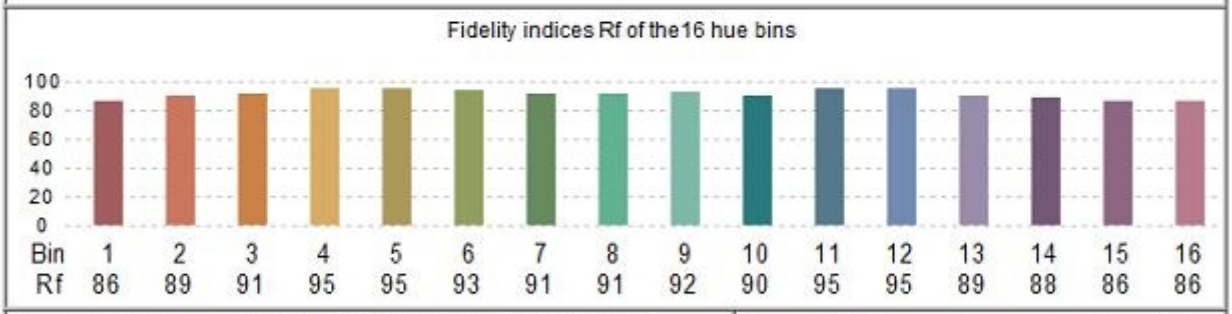
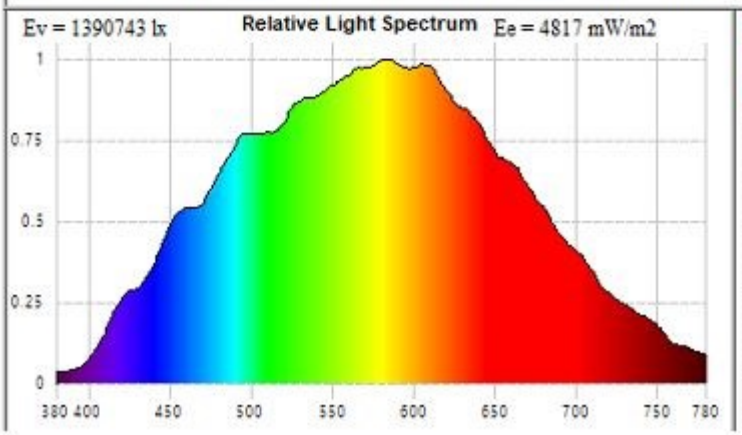
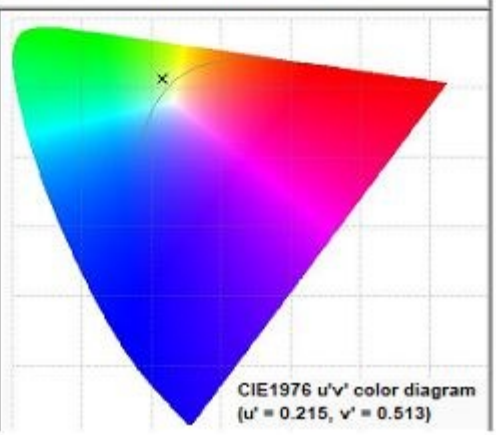
Spectroradiometric Test Report











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Demomstration Lamp276

Table 1. **Test settings and conditions.**

Device	Ta (C)	R.H. (%)	Colorimeter	
			SPEKTRI 80	

Table 2. **Summary of the results.**

x	y	u'	v'	u	v	Duv
0.3807	0.4046	0.2147	0.5133	0.2147	0.3422	0.0125
CCT [K]	CRI, Ra	Rf	Rg	Ev (lx)		
4177	88.2	91.1	92.5	1390742.9		
R10	R11	R12	R13			
84.2	83.5	79.8	87.2			

Table 3. **Special color rendering indeces.**

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
85.9	92.3	96.9	84.6	86.0	91.6	91.6	76.7	39.1	84.2	83.5	79.8	87.2	98.1

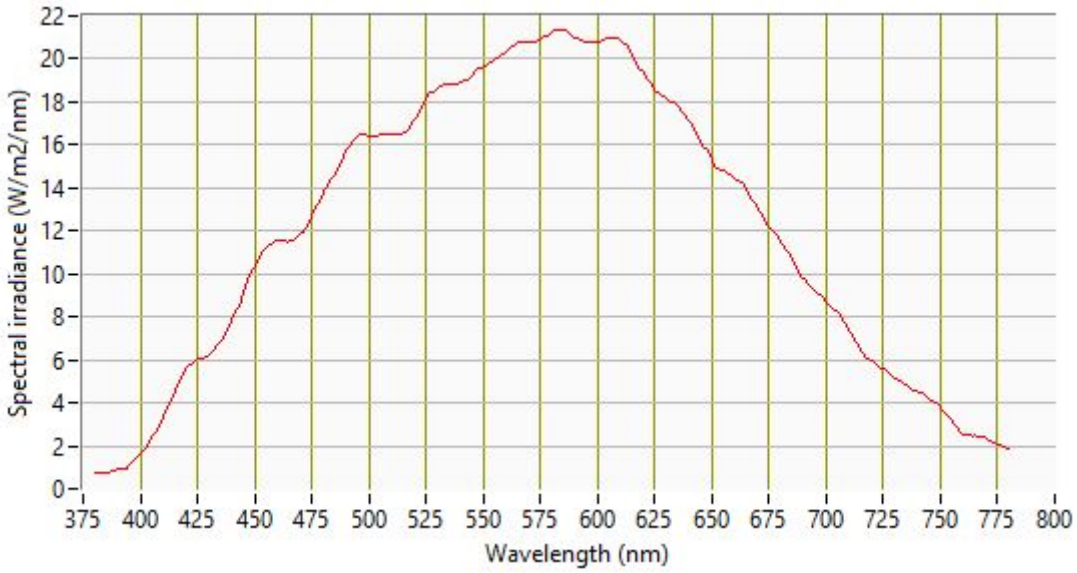

Figure 1. **Spectral irradiance**

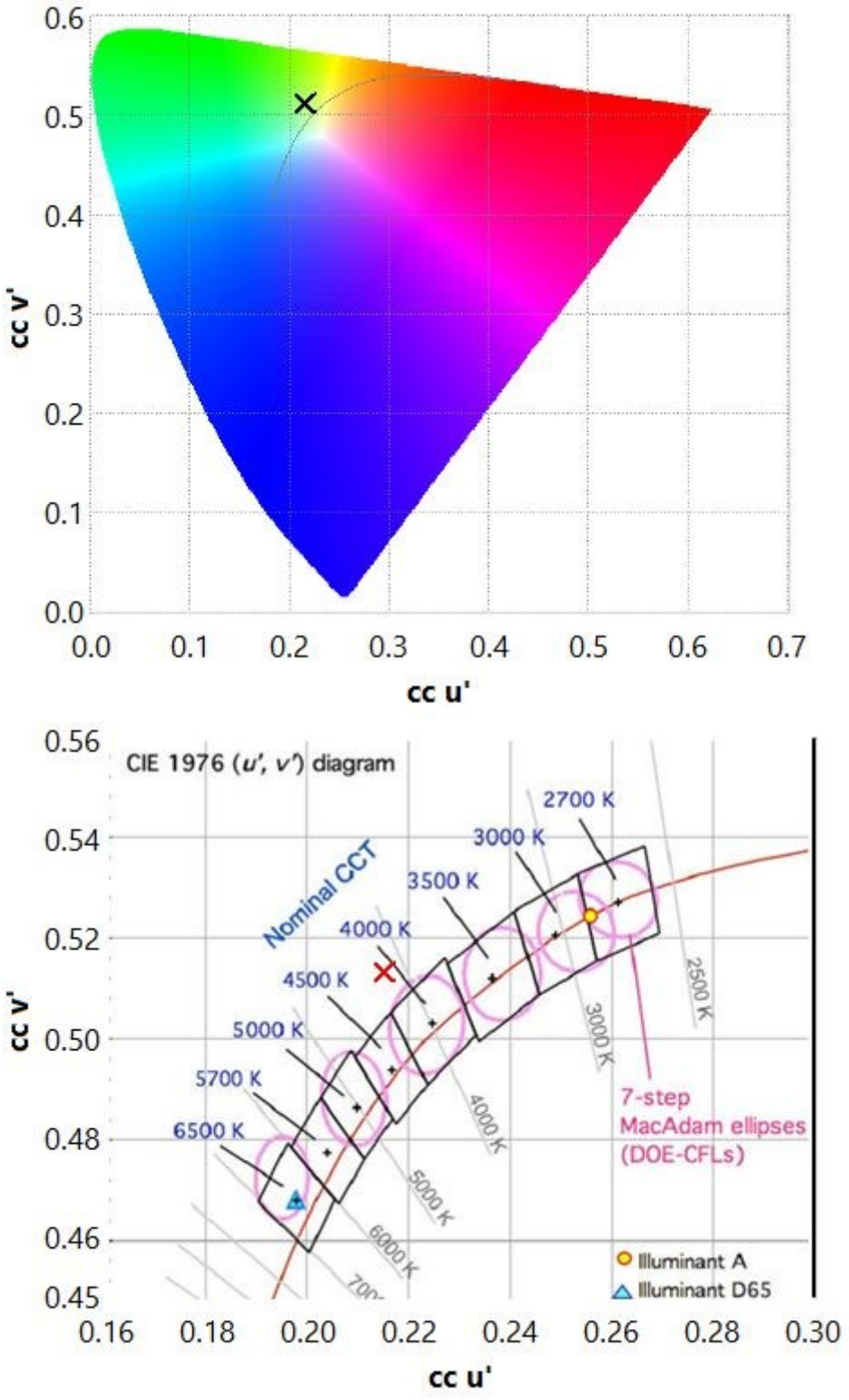

Figure 2. **Color coordinates in CIE1976 u'v' color diagram**

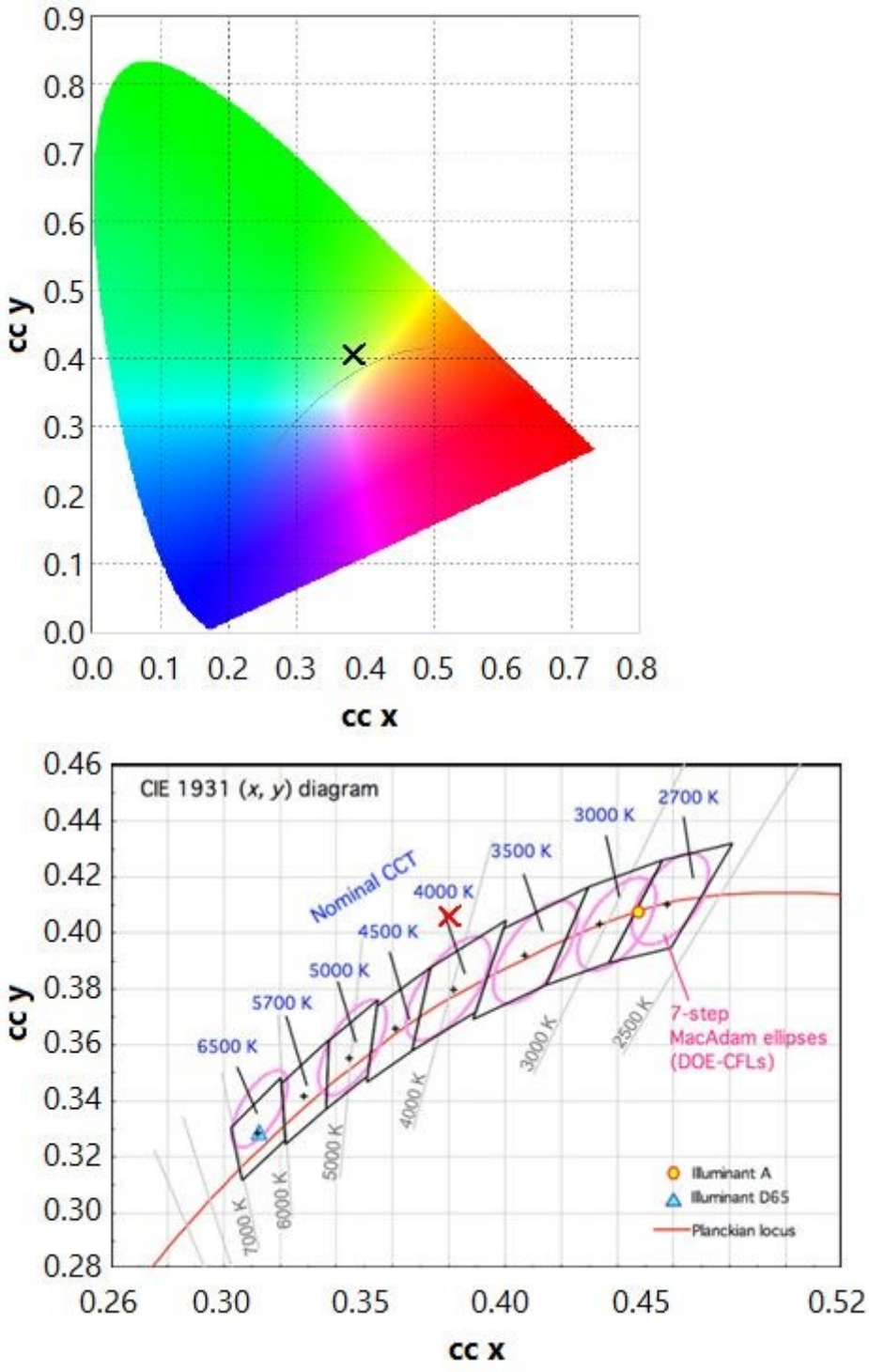

Figure 3. **Color coordinates in CIE1931 xy color diagram**

SAE_J578-2020: None

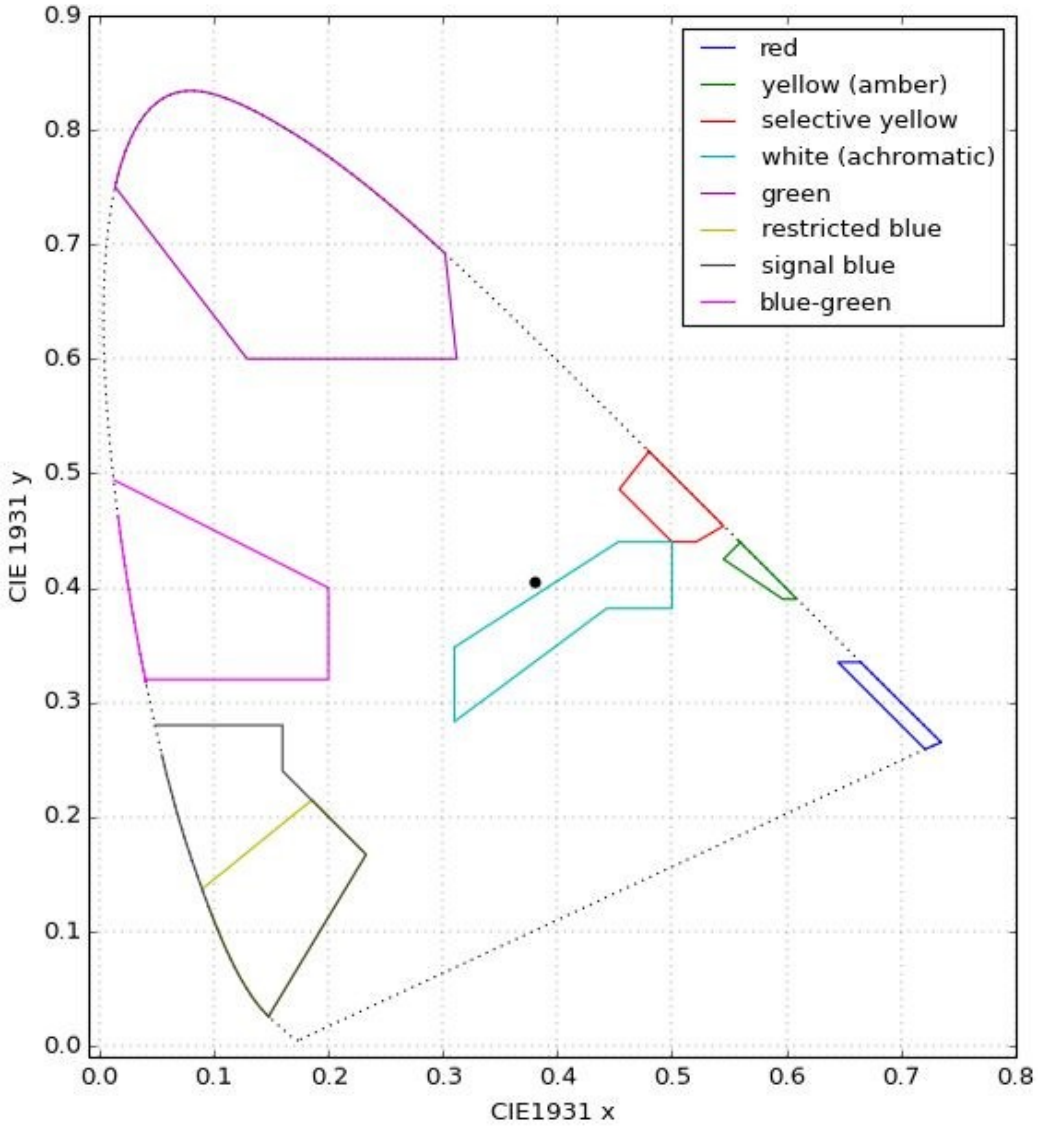

Figure 4. **Color classification analysis on the basis of the chosen color target specification.**

Table 4. **Wavelength Analysis**

Band nr	Peak WL (nm)	Peak Intensity	FWHM Bandwidth (nm)	Effective WL (nm)
Full	583.4	21.36E+0	233.3	577.4
Band 1	499.2	16.43E+0	NA	NA
Band 2	583.4	21.36E+0	NA	NA
Band 3	606.3	21.00E+0	NA	NA

Table 5. **Photosynthetic photon flux analysis of plant growth lights**

Band	WL range (nm)	Value	Unit	Rel. (%)
PPFD	400 - 700	20925.0	umol/m2/s	90.1
PPFD-Blue	400 - 499	3648.7	umol/m2/s	15.7
PPFD-Green	500 - 599	8886.3	umol/m2/s	38.3
PPFD-Red	600 - 699	8339.0	umol/m2/s	35.9
PFD-UV	380 - 399	61.1	umol/m2/s	0.3
PFD-FarRed	700 - 780	2288.4	umol/m2/s	9.9
PFD, Full	380 - 780	23223.5	umol/m2/s	100.0
PAR	400 - 700	4423.5	W/m2	91.9
Irradiance	380 - 780	4815.5	W/m2	100
B:G Ratio	420-490 : 500-570	0.5		
R:FR Ratio	650-670 : 720-740	2.5		

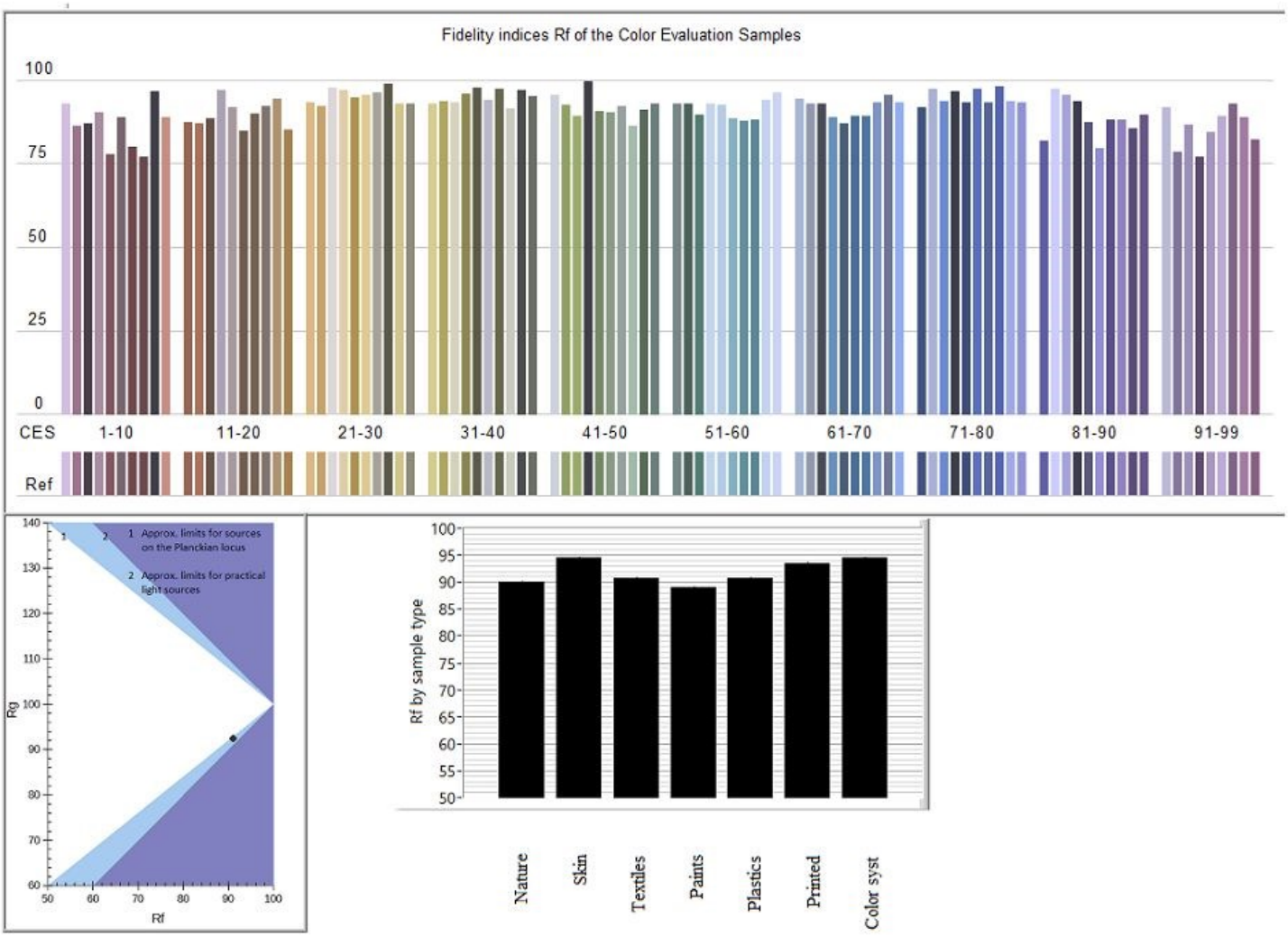

Figure 5. **New color render index according to the TM30-18 standard.**

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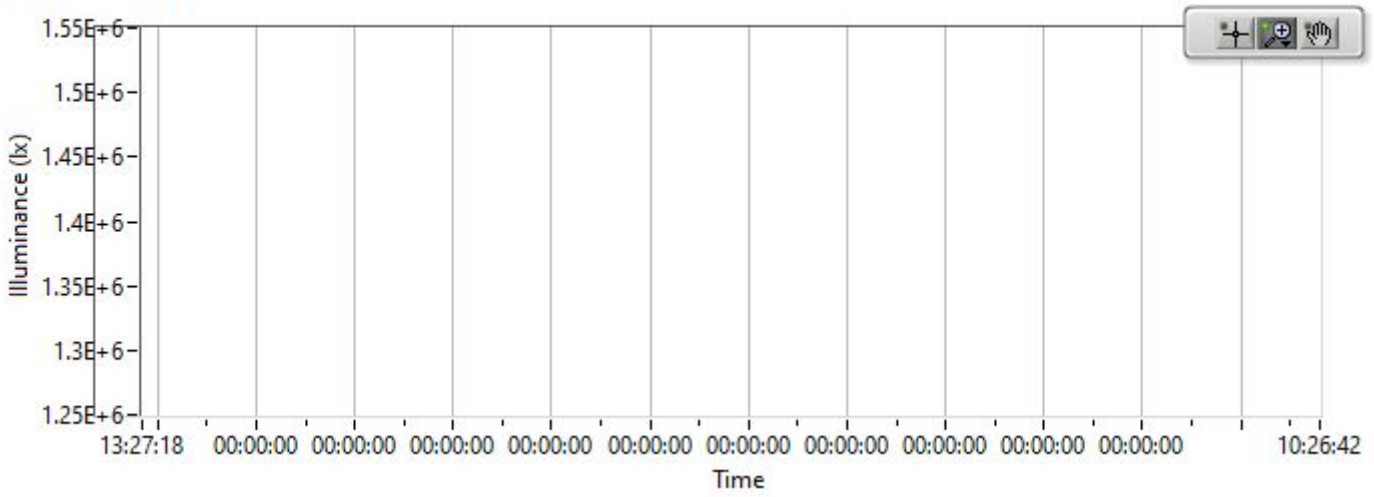
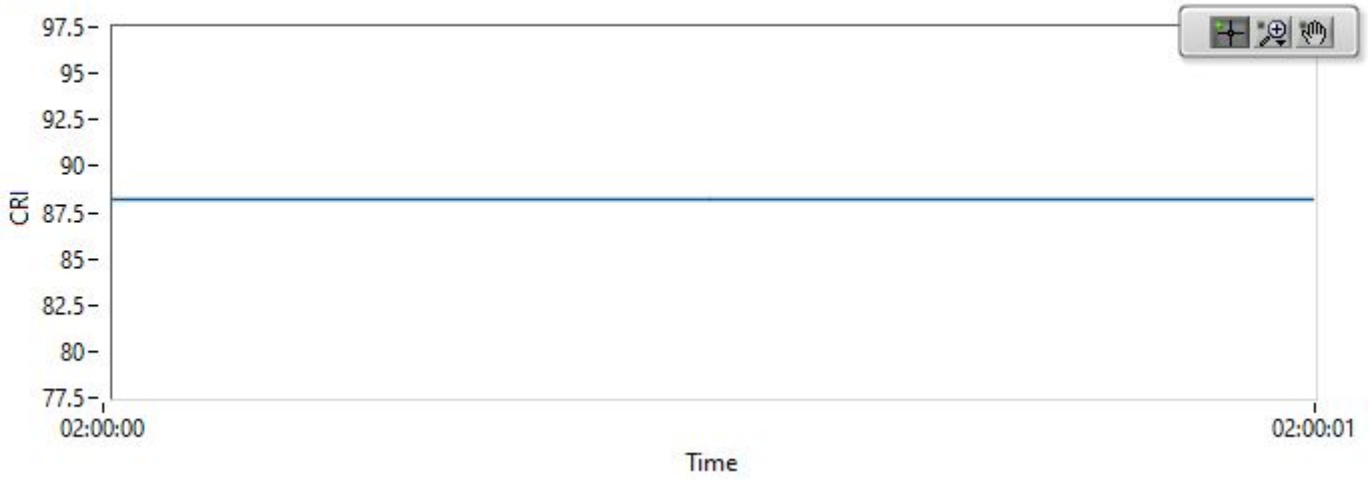
Luminous log



CCT log

CRI log



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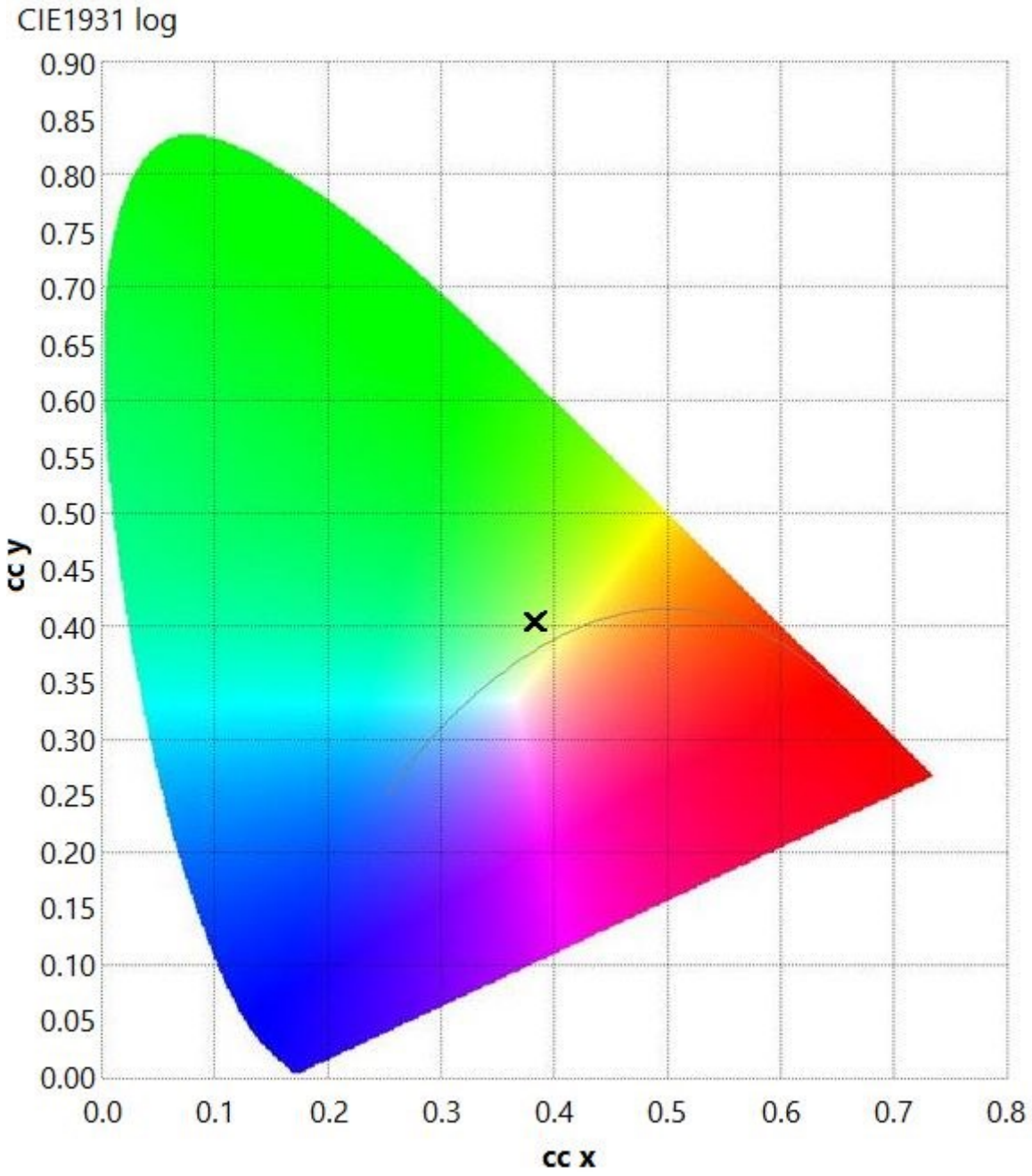

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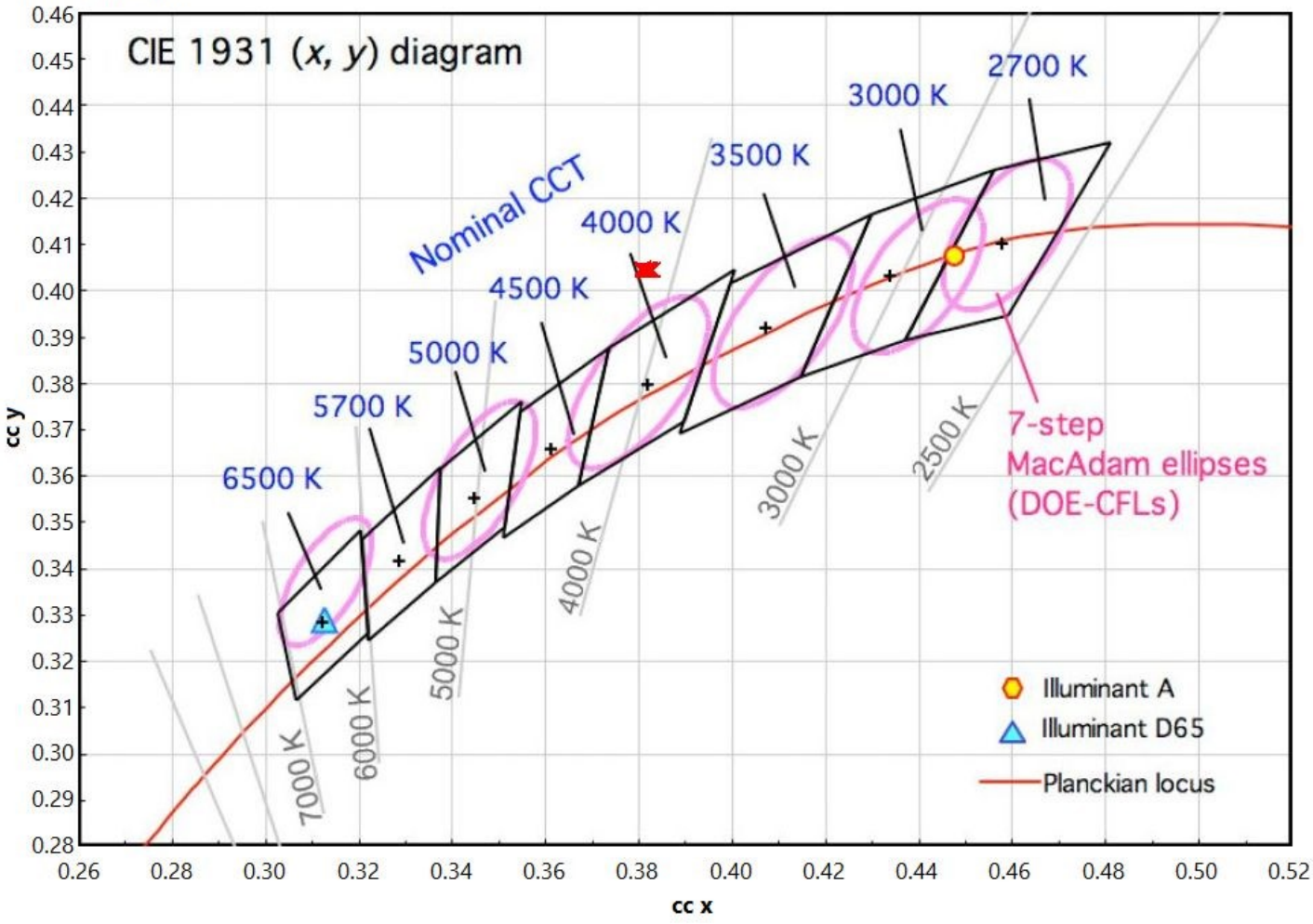
CIE1931 white log



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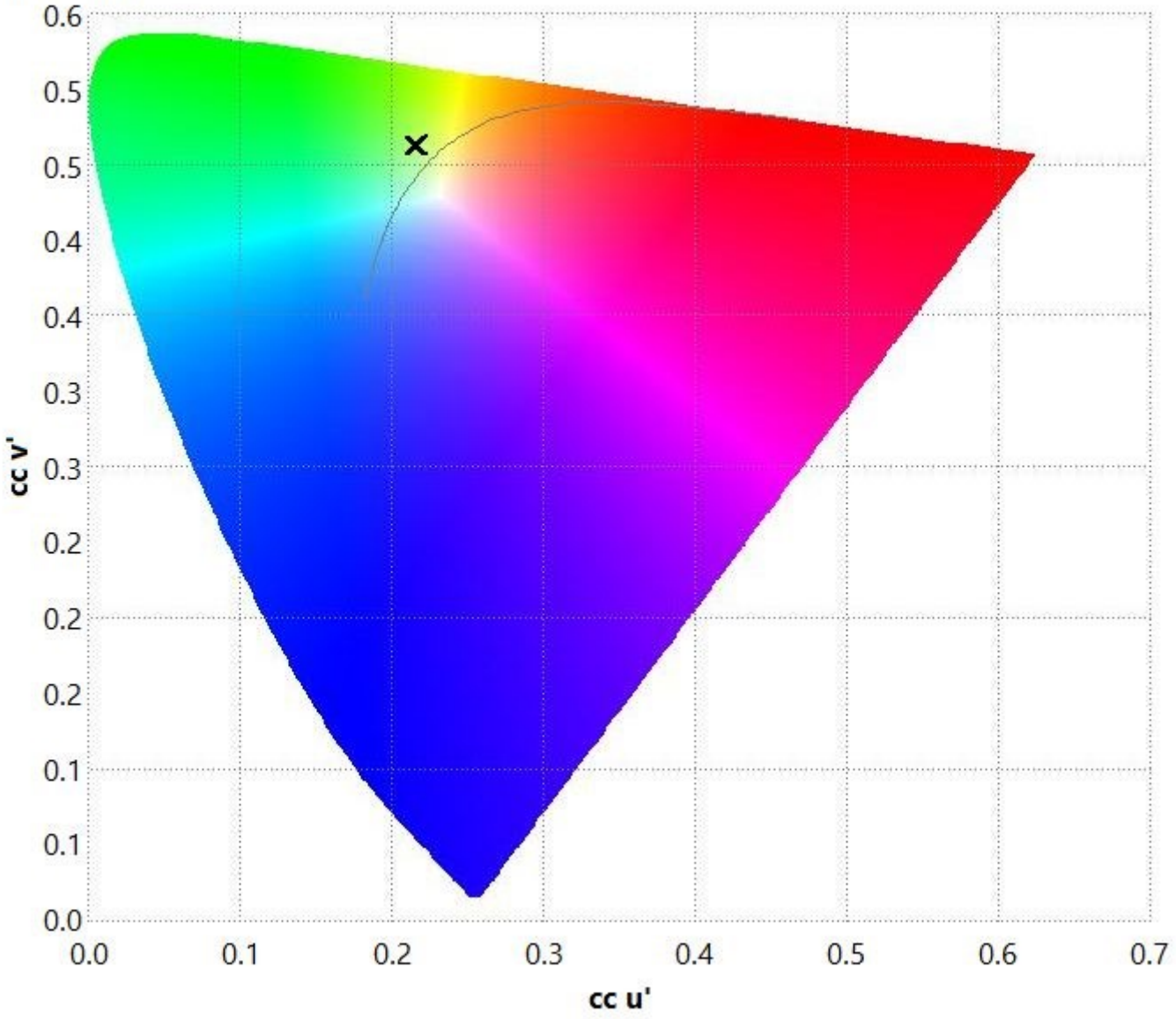
CIE1976 log



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CIE1976 white log