



GLP JDC Burst 1
Spectrum
Photometric Report

Report 2025-03-31-1

GLP German Light Products GmbH
GLP LightLab

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Analysis SW Version	3.0.0rc7





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1 White Quality – Beam

Table 1: Summary for Beam spectral measurement results and color metrics.

Metric	Value
CCT	6696 K
CCT D_{uv}	-0.0073
CRI R_a	92
CRI R_g	80
TLCI-2012	91
TM-30-15 R_f	100
TM-30-15 R_g	87
CIE 1931 x	0.312
CIE 1931 y	0.309
CIE 1960 u	0.205
CIE 1960 v	0.305

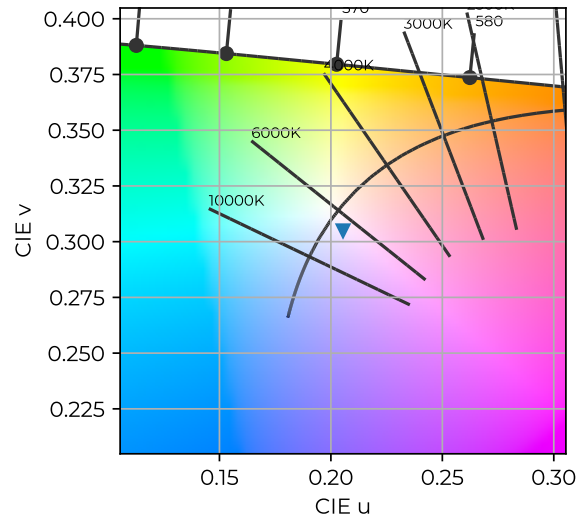


Figure 1: Color coordinates in CIE 1960 chromaticity diagram. Beam

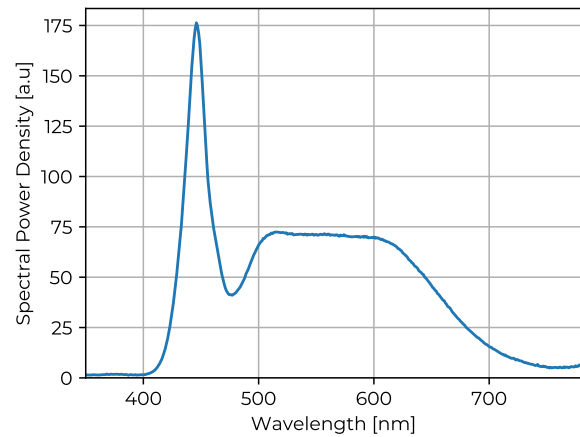
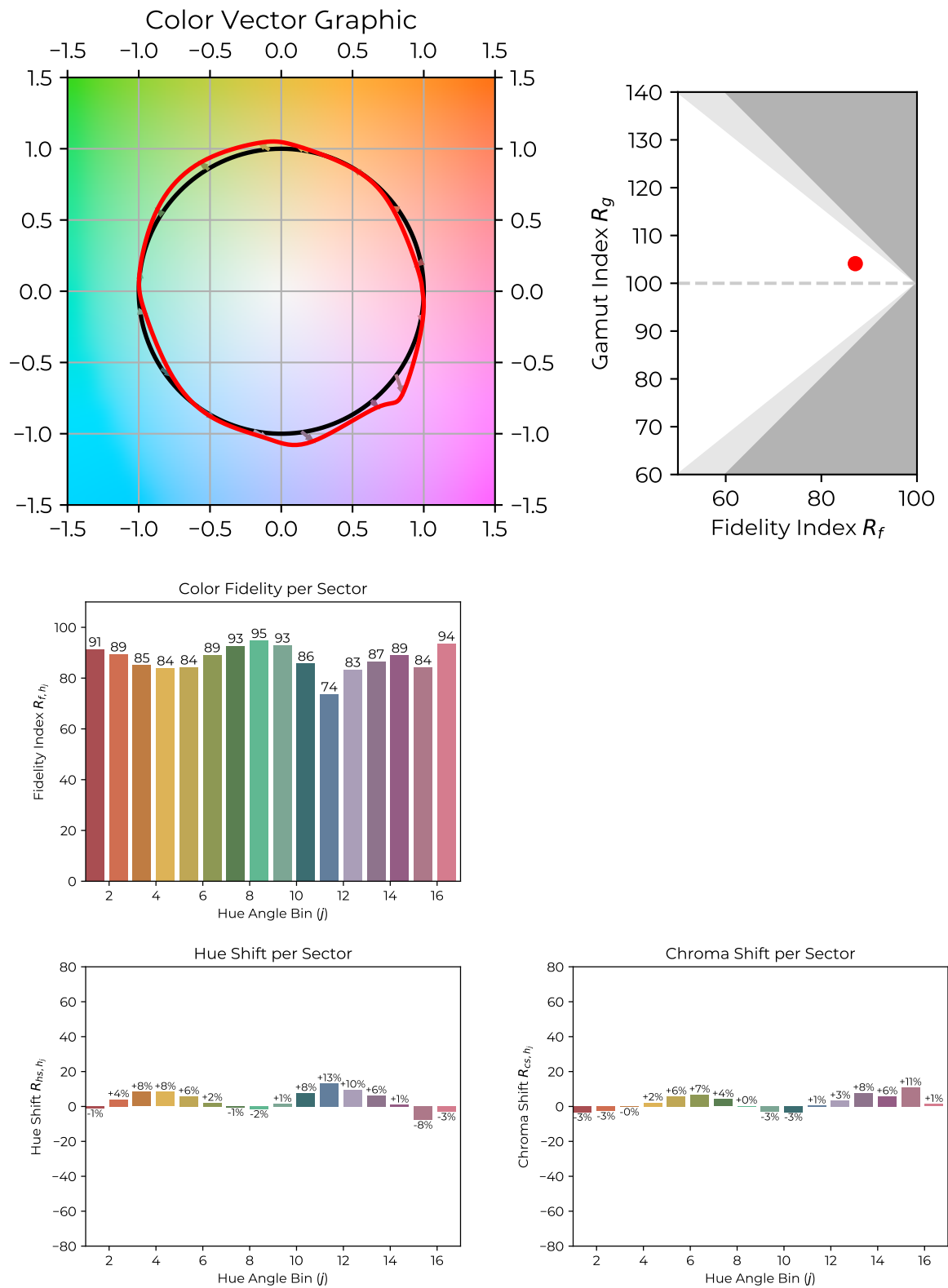
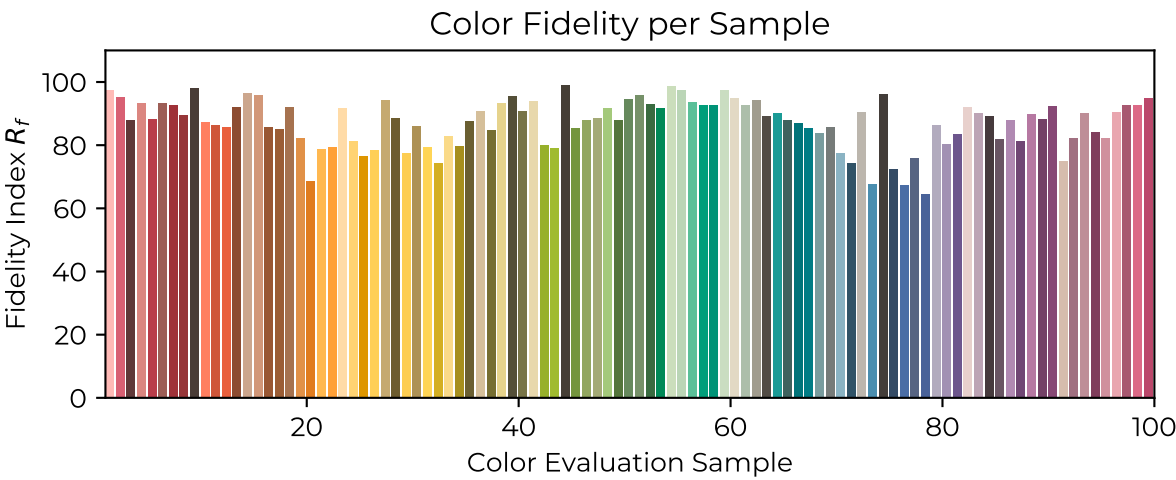


Figure 2: Measured Spectral Power Distribution of light source. Beam

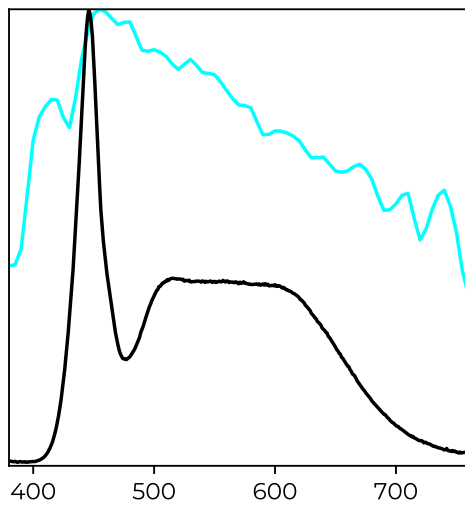
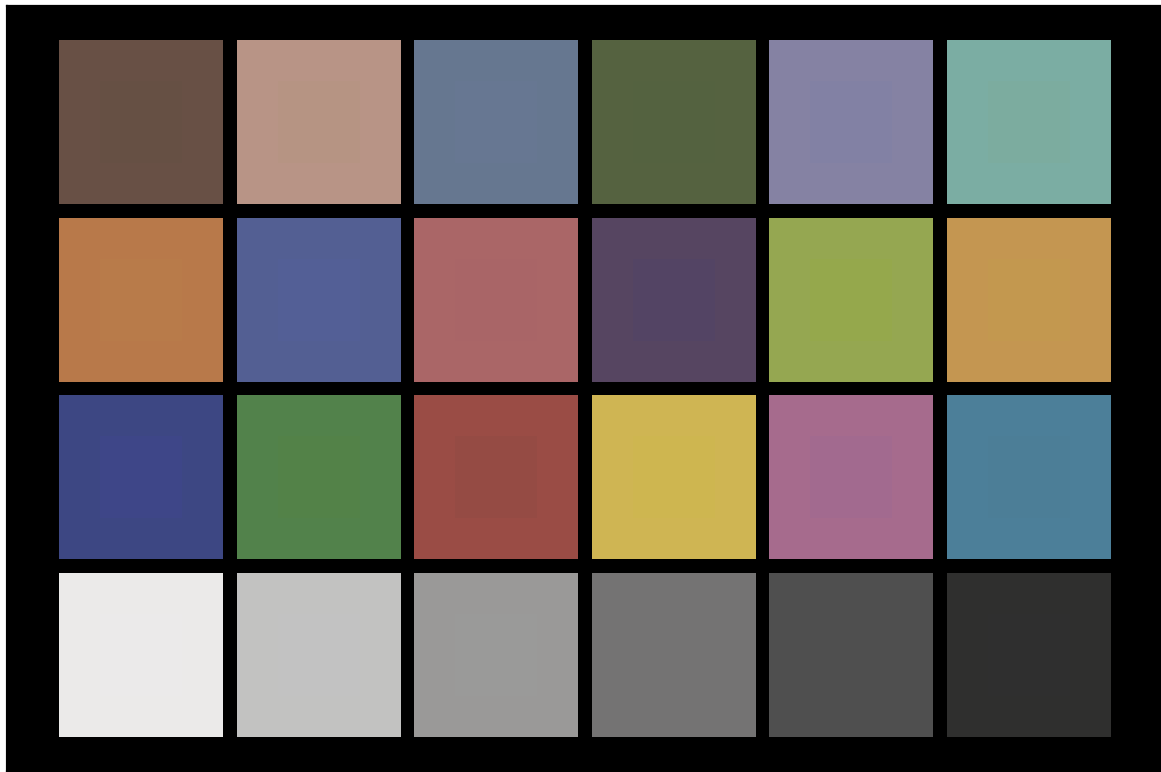
1.1 TM-30-15 Detail Plots





1.2 TLCI-2012 Results

GLP JDC Burst 1 Beam : CCT = D6716 – 1.9, TLCI = 91



Sector	Lightness	Chroma	Hue
R	1	1	1
R/Y	1	1	1
Y	1	1	1
Y/G	1	1	1
G	1	1	1
G/C	2	2	2
C	1	1	1
C/B	1	1	1
B	1	1	1
B/M	3	3	3
M	3	3	3
M/R	3	3	3

2 White Quality – RGBW

Table 2: Summary for RGBW spectral measurement results and color metrics.

Metric	Value
CCT	40 350 K
CCT D_{uv}	-0.021
CRI R_a	60
CRI R_g	-150
TLCI-2012	50
TM-30-15 R_f	120
TM-30-15 R_g	68
CIE 1931 x	0.265
CIE 1931 y	0.230
CIE 1960 u	0.202
CIE 1960 v	0.264

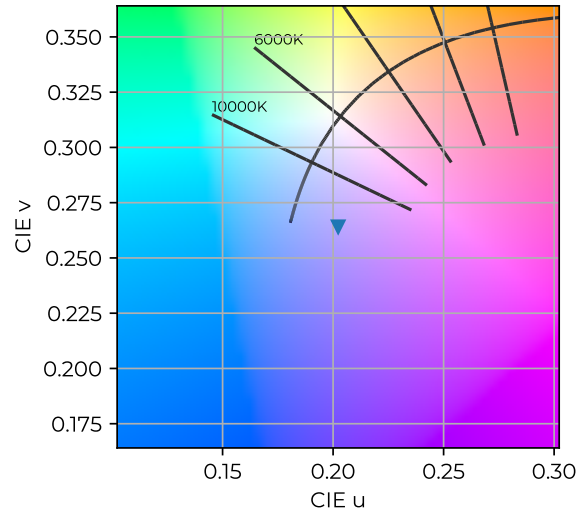


Figure 3: Color coordinates in CIE 1960 chromaticity diagram. RGBW

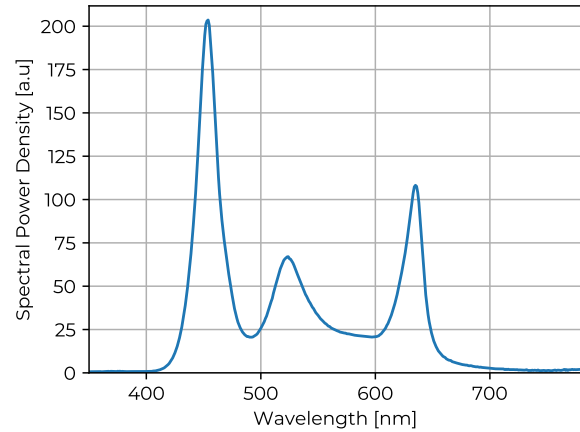
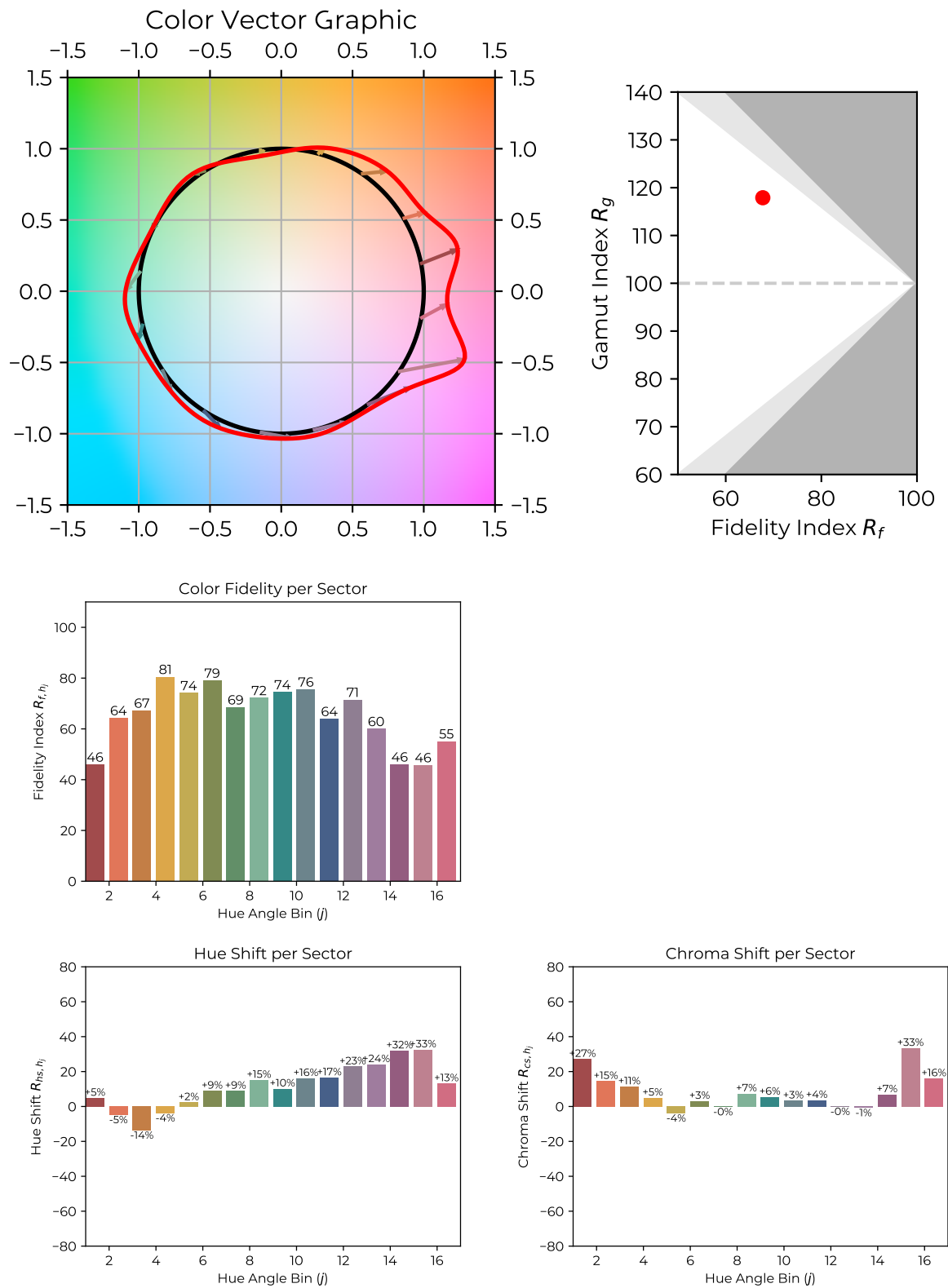
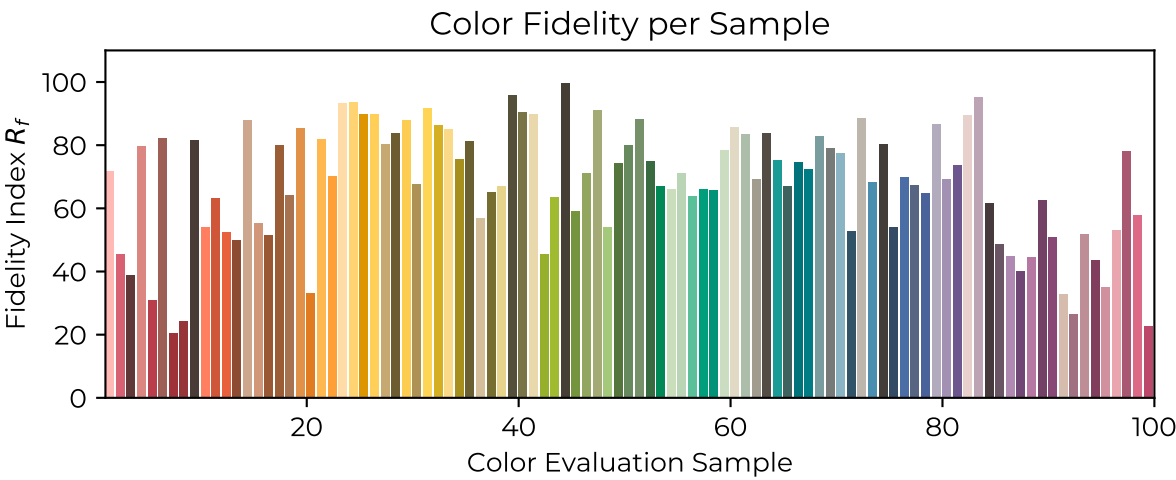


Figure 4: Measured Spectral Power Distribution of light source. RGBW

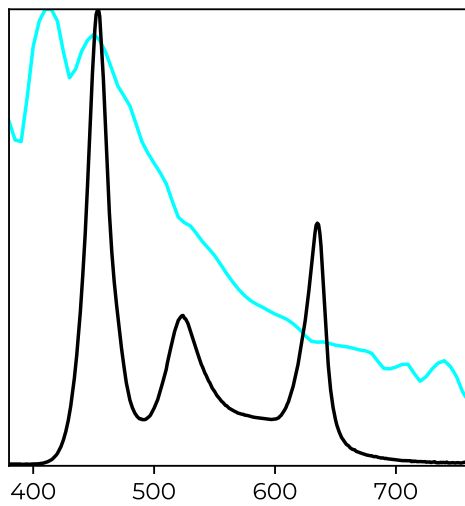
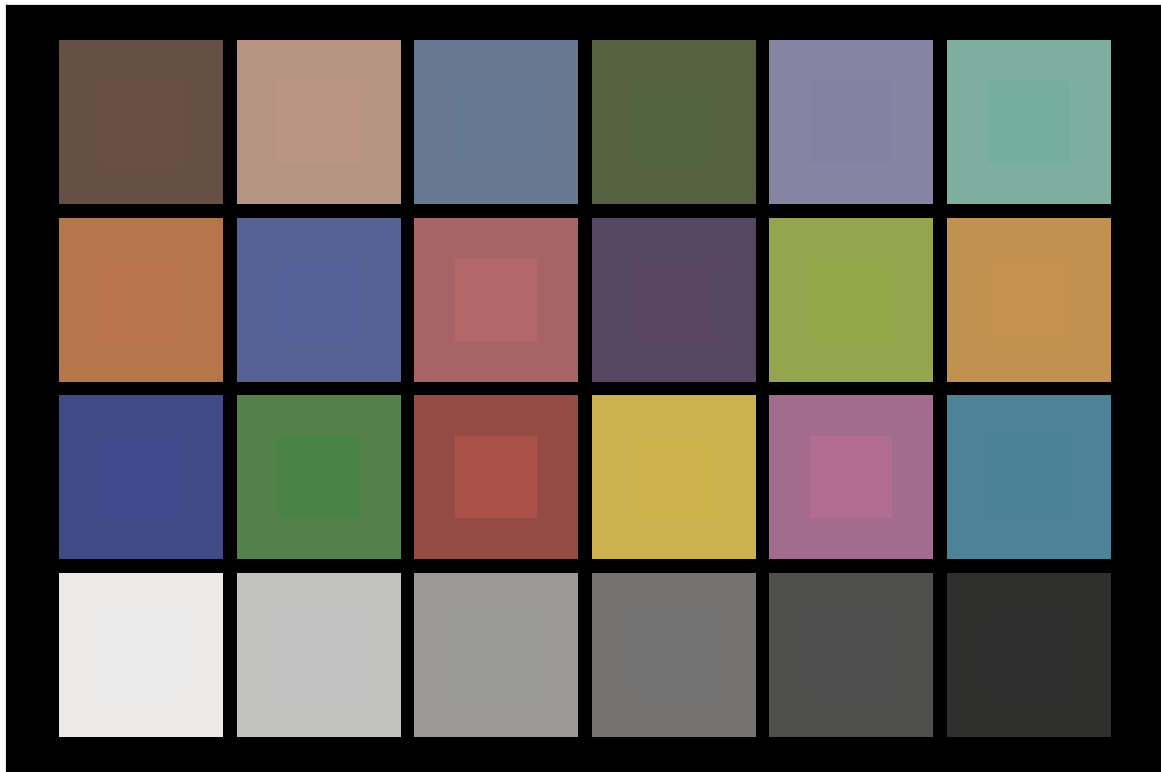
2.1 TM-30-15 Detail Plots





2.2 TLCI-2012 Results

GLP JDC Burst 1 RGBW : CCT = D24 850 4.6, TLCI = 50



Sector	Lightness	Chroma	Hue
R	8	8	8
R/Y	2	2	2
Y	1	1	1
Y/G	3	3	3
G	4	4	4
G/C	3	3	3
C	2	2	2
C/B	1	1	1
B	2	2	2
B/M	2	2	2
M	3	3	3
M/R	8	8	8

3 Colors

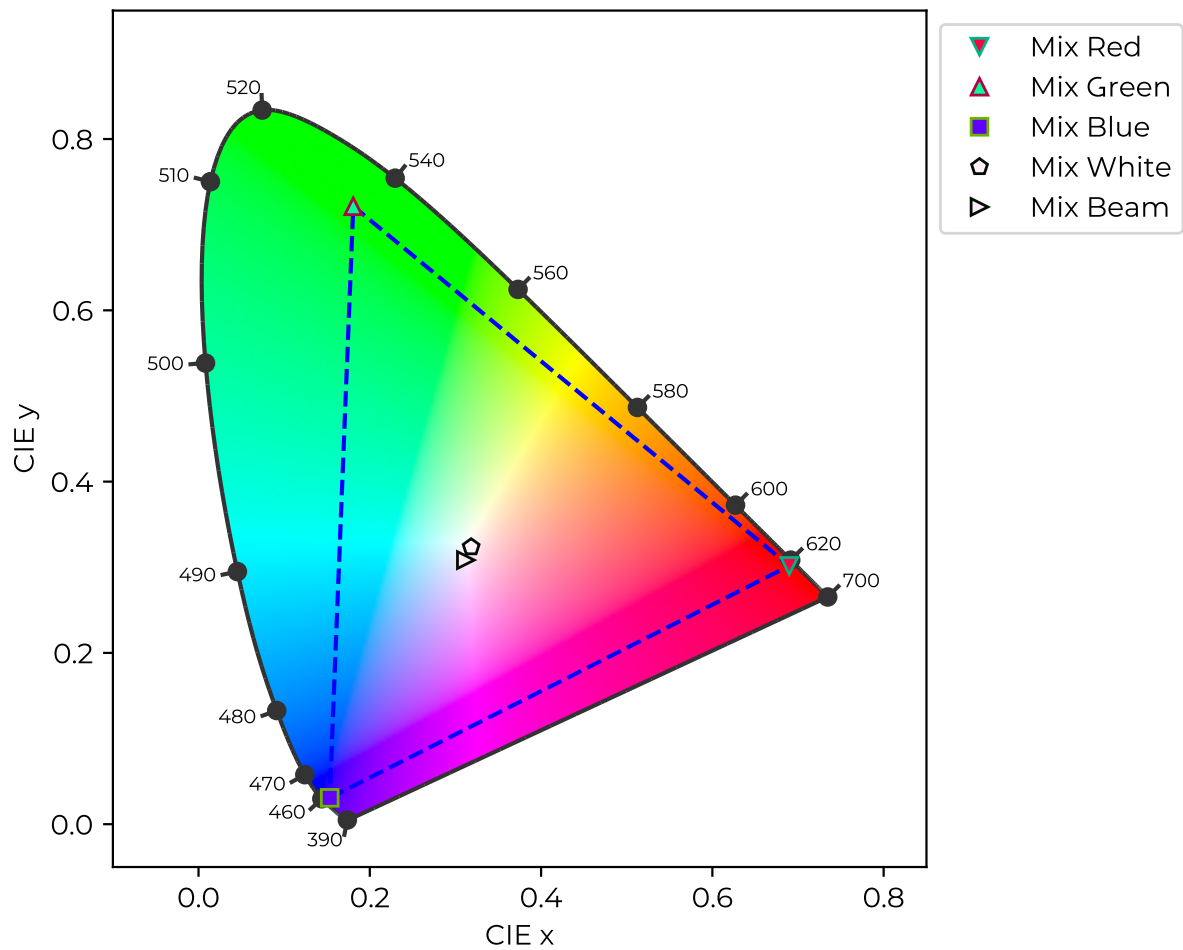







Figure 5: Chromaticity coordinates of device colors in a CIE 1931 chromaticity diagram. Gamut of color mixing system is outlined with dashed lines.

Table 3: Chromaticity coordinates for figure 5, in CIE 1931 xy and CIE 1960 UCS uv coordinates. Color swatches are illustrative only, limited by screen and print color space. Color appearance will be different when used for illumination.

Color	xy	uv
 Mix Red	0.69, 0.302	0.527, 0.345
 Mix Green	0.181, 0.721	0.064, 0.383
 Mix Blue	0.153, 0.0308	0.2, 0.0603
 Mix White	0.318, 0.324	0.204, 0.311
 Mix Beam	0.312, 0.308	0.205, 0.305