fdsfdfd Spectrophotometric Report

This spectrophotometer report provides a comprehensive analysis of the sample. It includes the sample's absorbance spectrum, a table of absorbance values at specific wavelengths, and a detailed interpretation of the results. The report is designed to provide clear, actionable insights for further research or industrial applications.

General information:

Sample Name: fdsfdfd

User:

Manufacturer: UTP

Model: UTP-CG-001

Serial Number: UTP30032024A

Wavelength Range: 340 - 850 nm

Baseline Correction: Yes

Date: 11-05-2024 16:05:09

Laboratory: Indicasat AIP

Location: Panama City, Panama

Light Source: High Power LED

Detector: CMOS

Test condition

Temperature: 25°C

Humidity: 50%

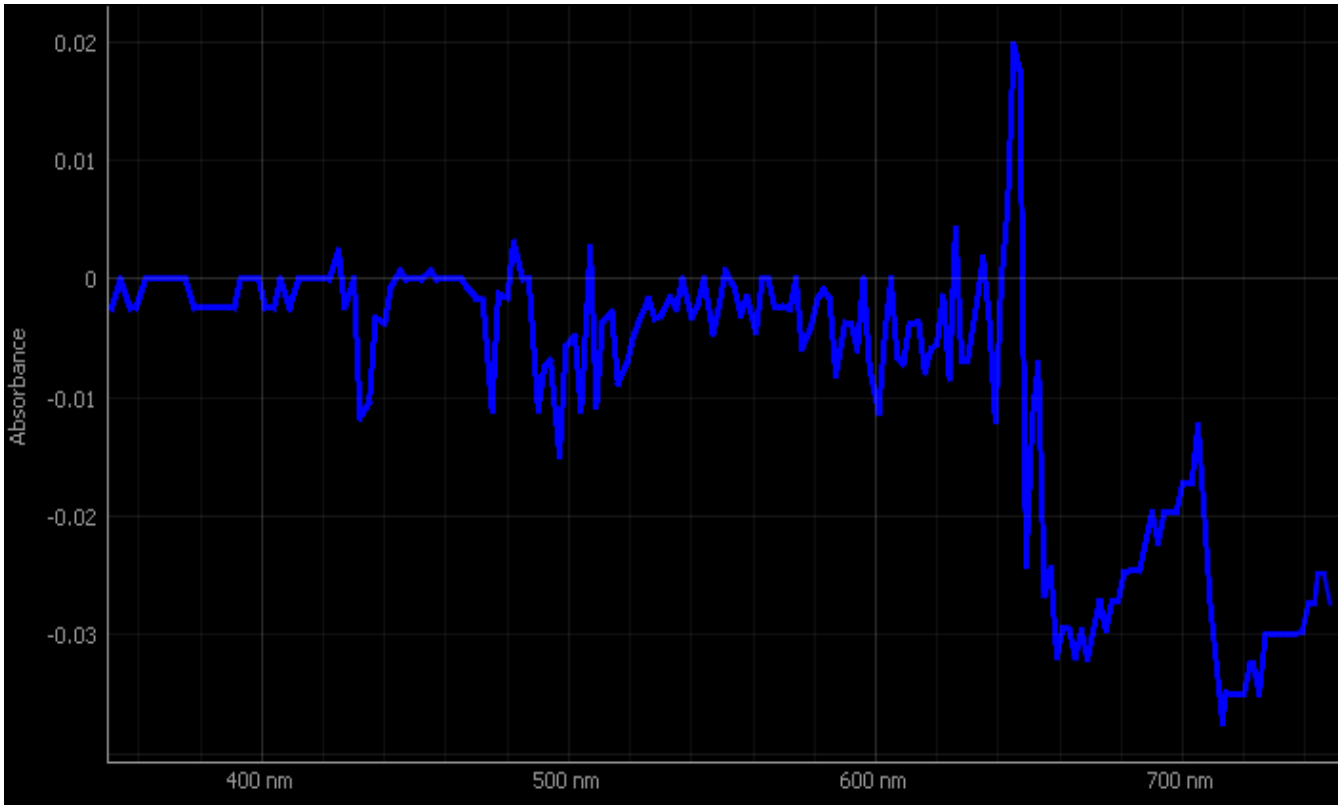
WL Range: 350 - 750 nm

Scan Speed: 39.55 nm/sec

Test mode: Single

Scan Mode: Absorbance

Measured Graph:



Parameters:

Key Parameters:

Max dB: 0.019790580512502143
Max nm: 645
Min dB: -0.0374264254082214
Min nm: 713
Violet's (428nm) dB: -0.0023597532842882444
Blue's (474nm) dB: -0.011033725891858793
Green's (535nm) dB: -0.0024775025817347046
Yellow's (587nm) dB: -0.008075130901406796
Orange's (609nm) dB: -0.007120489758664621
Red's (660nm) dB: -0.0319135053160877

Radiometric Parameters:

Radiant Flux: 1000 rad
Radiant Density: 518 rad/mm2
Color Rendering: 70
Thermal resistance: 1.6 C°/W
Radiant Efficacy: 206 rad/W

Electrical Parameters:

Voltage: 12 V
Current: 3 A
Power: 36 W
Power Factor: 1.0
Frequency: 60 Hz

Statistical Parameters:

Mean: -0.00915937200489982
Standard Deviation: 0.011836109203546575
Variance: 0.00014009348107827993
RMS: 0.014966214504757786
Weighted Average (nm): 662.0091120461855
Minimum Value: -0.0374264254082214
Maximum Value: 0.019790580512502143
Number of Values: 198

Colorimetric Parameters:

Chromaticity Coordinate (X-axis): 0.30053
Chromaticity Coordinate (Y-axis): 0.3205
CCT: 7015K
Prcp WL: - Ld: 713nm
Purity: 10.5%
Peak WL: - Lp: 645nm
FWHM: 12.0nm
Ratio (Red): 13.9%
Ratio (Green): 86.1%
Ratio (Blue): 0.0%
Render Index (Ra): 0.0
EEI: 0.00015
R1: 88
R2: 0.0
R3: 0.0
R4: 0.0
R5: 0.0
R6: 0.0
R7: 0.0
R8: 0.0
R9: 0.0
R10: 0.0
R11: 0.0
R12: 0.0
R13: 0.0
R14: 0.0
R15: 0.0

Measured Data:

WL (nm)	Abs (dB)	T (I/Io)
305	0.00000	1.00000
306	-0.00023	1.00053
307	-0.00046	1.00105
308	-0.00069	1.00158
309	-0.00209	1.00482
310	-0.00349	1.00808
311	-0.00490	1.01134
312	-0.00408	1.00945
313	-0.00327	1.00756
314	-0.00245	1.00567
315	-0.00368	1.00850
316	-0.00490	1.01134
317	-0.00490	1.01134
318	-0.00490	1.01134
319	-0.00490	1.01134
320	-0.00408	1.00944
321	-0.00326	1.00754
322	-0.00244	1.00564
323	-0.00244	1.00564
324	-0.00244	1.00564
325	-0.00244	1.00564
326	-0.00244	1.00564
327	-0.00244	1.00564
328	-0.00244	1.00564
329	-0.00244	1.00564
330	-0.00244	1.00564
331	-0.00244	1.00564
332	-0.00244	1.00564
333	-0.00244	1.00564
334	-0.00244	1.00564
335	-0.00244	1.00564
336	-0.00244	1.00564
337	-0.00244	1.00564
338	-0.00244	1.00564
339	-0.00244	1.00564

WL (nm)	Abs (dB)	T (I/Io)

WL (nm)	Abs (dB)	T (I/Io)

Measured Data (cont):

WL (nm)	Abs (dB)	T (I/Io)

WL (nm)	Abs (dB)	T (I/Io)

WL (nm)	Abs (dB)	T (I/Io)