## ikiuun 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: ikiuun

User:

Manufacturer: UTP

Model: UTP-CG-001

Serial Number: UTP30032024A

Wavelength Range: 340 - 850 nm

Baseline Correction: Yes

Date: 11-05-2024 16:00:59

Laboratory: Indicasat AIP

Location: Panama City, Panama

Light Source: High Power LED

**Detector: CMOS** 

#### **Test condition**

Temperature: 25°C

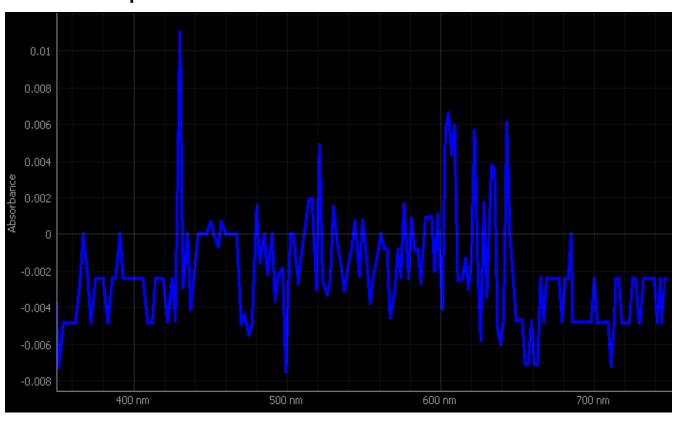
Humidity: 50%

WL Range: 350 - 750 nm Scan Speed: 39.55 nm/sec

Test mode: Single

Scan Mode: Absorbance

### **Measured Graph:**



### **Parameters:**

**Key Parameters:** 

Max dB: 0.011033725891858701

Max nm: 430

Min dB: -0.007490677129250883

Min nm: 499

Violet's (428nm) dB: -0.004710447992411051

Blue's (474nm) dB: -0.00549201187576907

Green's (535nm) dB: -0.0016483326762607982

Yellow's (587nm) dB: -0.0026720997432325244

Orange's (609nm) dB: 0.005974244649989026

Red's (660nm) dB: -0.004746963457439769

**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: -0.0023260860746136675

Standard Deviation: 0.0028654703068481534

Variance: 8.21092007942845e-06

RMS: 0.0036907447088548465

Weighted Average (nm): 549.0234816255919

Minimum Value: -0.007490677129250883

Maximum Value: 0.011033725891858701

Number of Values: 198

**Colorimetric Parameters:** 

Chromaticity Coordinate (X-axis): 0.30053

Chromaticity Coordinate (Y-axis): 0.3205

CCT: 7015K

Prcp WL: - Ld: 499nm

Purity: 10.5%

Peak WL: - Lp: 430nm

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	305.00000	0.00000
306	306.00000	0.00000
307	307.00000	0.00000
308	308.00000	0.00000
309	309.00000	inf
310	310.00000	inf
311	311.00000	inf
312	312.00000	inf
313	313.00000	inf
314	314.00000	inf
315	315.00000	inf
316	316.00000	inf
317	317.00000	inf
318	318.00000	inf
319	319.00000	inf
320	320.00000	inf
321	321.00000	inf
322	322.00000	inf
323	323.00000	inf
324	324.00000	inf
325	325.00000	inf
326	326.00000	inf
327	327.00000	inf
328	328.00000	inf
329	329.00000	inf
330	330.00000	inf
331	331.00000	inf
332	332.00000	inf
333	333.00000	inf
334	334.00000	inf
335	335.00000	inf
336	336.00000	inf
337	337.00000	inf
338	338.00000	inf
339	339.00000	inf

WL (nm)	Abs (dB)	T (I/Io)
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WL (nm) Abs (dB) T	T (I/Io)
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# Measured Data (cont):

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

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

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