

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	Baseline Correction: Yes
User:	Date: 11-05-2024 16:00:59
Manufacturer: UTP	Laboratory: Indicasat AIP
Model: UTP-CG-001	Location: Panama City, Panama
Serial Number: UTP30032024A	Light Source: High Power LED
Wavelength Range: 340 - 850 nm	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
Prpc 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 (I/Io)
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Measured Data (cont):

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