



UL Solutions
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Integrating Sphere Test Report

Relevant Standards
IES LM-79-2019, ANSI C82.77-10-2014, CIE 13.3-1995
CIE 15-2004, ANSI C78.377-2017, IES TM-30-2018

Prepared For
H E Williams Inc

Dean Vandergriff
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MO 64836-0837

Catalog Number
FT-22-3-8-3500K-AF-DIM-UNC (FT-22-LS-8CS-AF-DIM-UNV)

Order Number
15184934
Test Number
15184934.05

Test Date

2024-02-28

Prepared By

Dennis Kabana, Laboratory Technician

Approved By

Jesse Litchfield, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Recessed 2 x 2 Lumen/Wattage selectable, CCT selectable, LED Troffer w/center frosted acrylic lens.
Lamp: 112 LEDs
Mounting: Recessed
Ballast/Driver: ISTAR ISC-030W-070DDSM-ADJ33

Luminaire



Summary of Results

Radiant Flux:	10120 mW
Luminous Flux:	3387 lm
Luminaire Efficacy:	142.1 lm/W
CCT:	3506 K
CRI (Ra):	80.9
Chromaticity (x):	0.4047
Chromaticity (y):	0.3901
Chromaticity (u):	0.2356
Chromaticity (v):	0.3406
Duv:	0.0003

Test Conditions

Test Temperature:	24.6 °C
Voltage:	120.0 VAC
Current:	0.1998 A
Power:	23.83 W
Power Factor:	0.994
Frequency:	60 Hz
Current THD:	5.43 %

Testing was performed in a 2-meter integrating sphere using the 4 π geometry method.
Absorption correction was employed for this measurement.

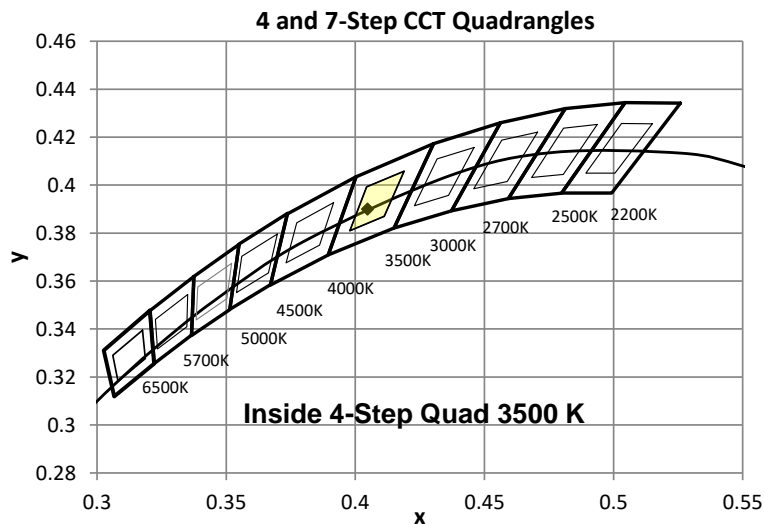
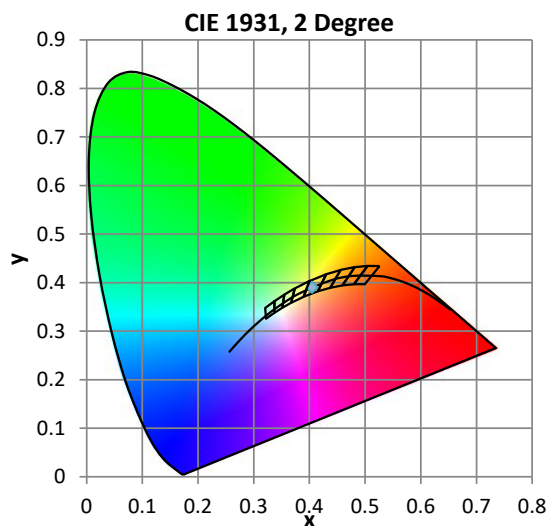
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.0 VAC	0.1998 A	23.83 W	0.994	60 Hz	5.43 %

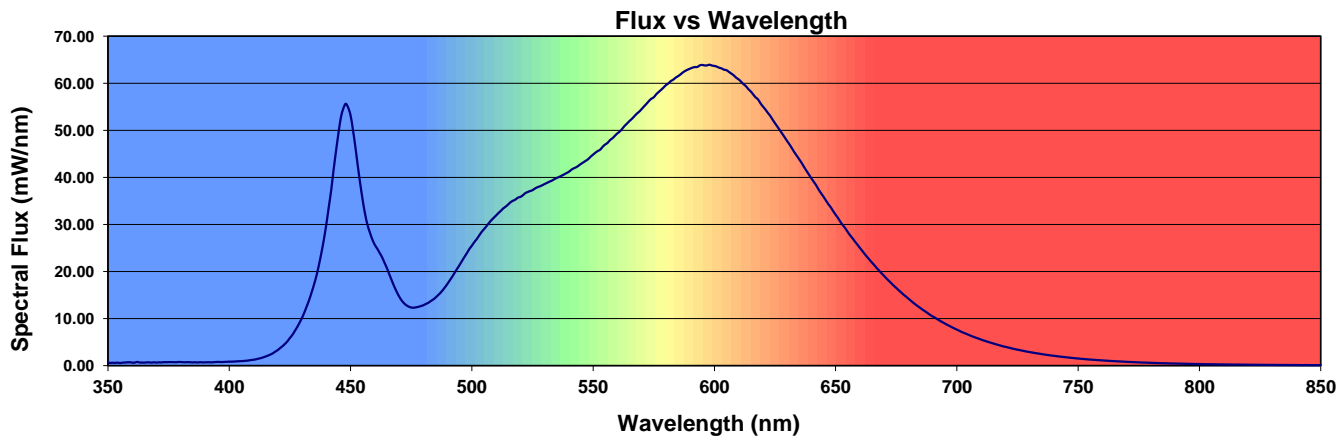
Summary of Results

Total Output:	3387 Lumens	Chromaticity (x):	0.4047
Efficacy:	142.1 lm/w	Chromaticity (y):	0.3901
CCT:	3506 K	Chromaticity (u'):	0.2356
CRI (Ra):	80.9	Chromaticity (v'):	0.5109
CRI (R9):	-2.4	TM-30 Rf:	83
Peak Wavelength:	598 nm	TM-30 Rg:	96
Dominant Wavelength:	555 nm	TM-30 Rcs,h1:	-13%
S/P Ratio:	1.5	Duv:	-0.0002
M/P Ratio:	0.58	WELL Building Standard v2	



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
80.9	78.7	87.9	95.4	80.1	79.3	84.3	83.3	58.5	-2.4	72.4	79.4	65.7	80.7	97.7	71.0



ANSI/IES TM-30-18 Color Rendition Report

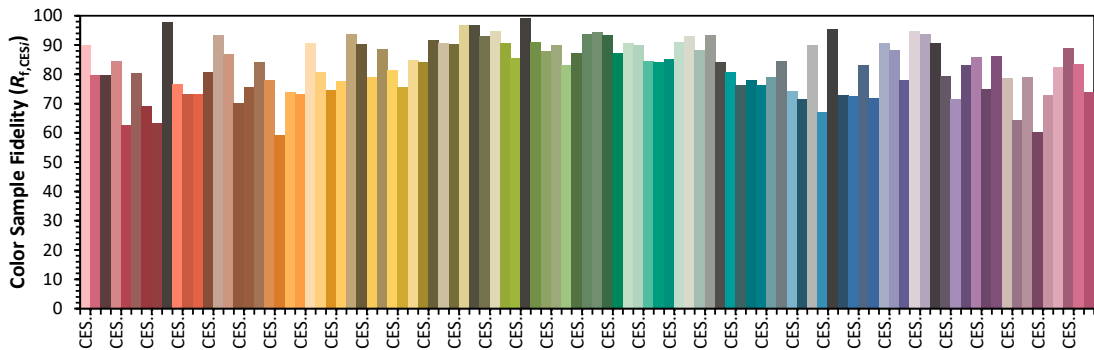
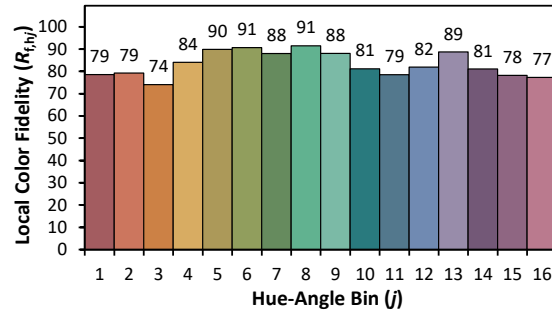
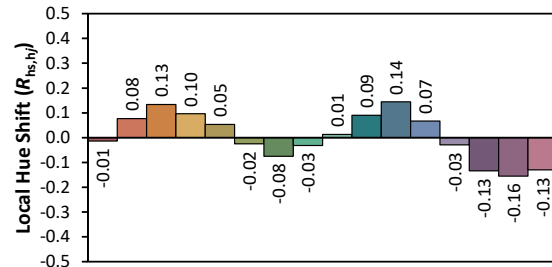
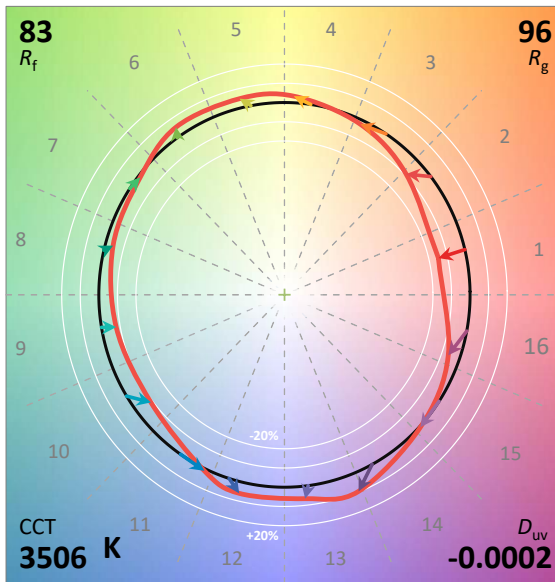
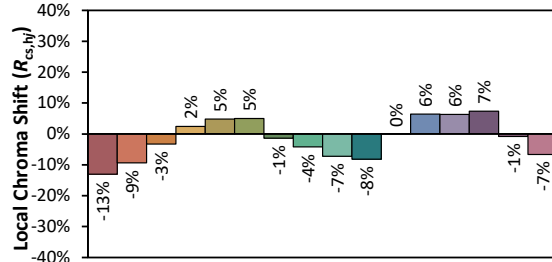
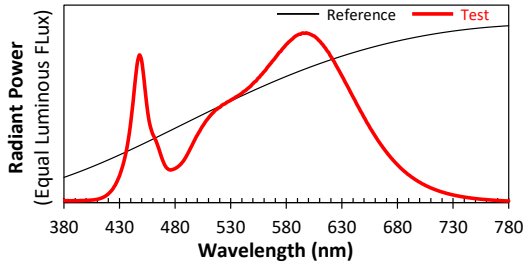
Date: 2024-02-28

Manufacturer:

H E Williams Inc

Model:

FT-22-3-8-3500K-AF-DIM-UNC (FT-22-LS-8CS-AF-DIM-UNV)



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.4047

y 0.3901

u' 0.2356

v' 0.5109

CIE 13.3-1995
(CRI)

R_a 81

R_g -2

Colors are for visual orientation purposes only. Created with the IES TM-30-18 Calculator Version 2.00.