



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
831 W Fairview Ave
PO Box 837
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MO 64836-0837

Catalog Number
FT-14-3-8-3500K-AF-DIM-UNC (FT-14-LS-8CS-AF-DIM-UNV)

Order Number
15184934
Test Number
15184934.02

Test Date

2024-02-27

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 1 x 4 Lumen/Wattage selectable, CCT selectable, LED Troffer w/center frosted acrylic lens.
Lamp: 224 LEDs
Mounting: Recessed
Ballast/Driver: ISTAR ISC-030W-070DDSM-ADJ33

Luminaire



Summary of Results

Radiant Flux:	10750 mW
Luminous Flux:	3599 lm
Luminaire Efficacy:	155.7 lm/W
CCT:	3488 K
CRI (Ra):	81.3
Chromaticity (x):	0.4056
Chromaticity (y):	0.3904
Chromaticity (u):	0.2361
Chromaticity (v):	0.3408
Duv:	0.0004

Test Conditions

Test Temperature:	24.8 °C
Voltage:	120.0 VAC
Current:	0.1940 A
Power:	23.12 W
Power Factor:	0.993
Frequency:	60 Hz
Current THD:	5.41 %

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

The device under test emits no detectable uplight, as defined by ANSI/IES LM-75-19.
For the purpose of this report, certain non-zero uplight readings have been assigned a zero value, in accordance with the requirements of
ANSI/IES LM-75-19

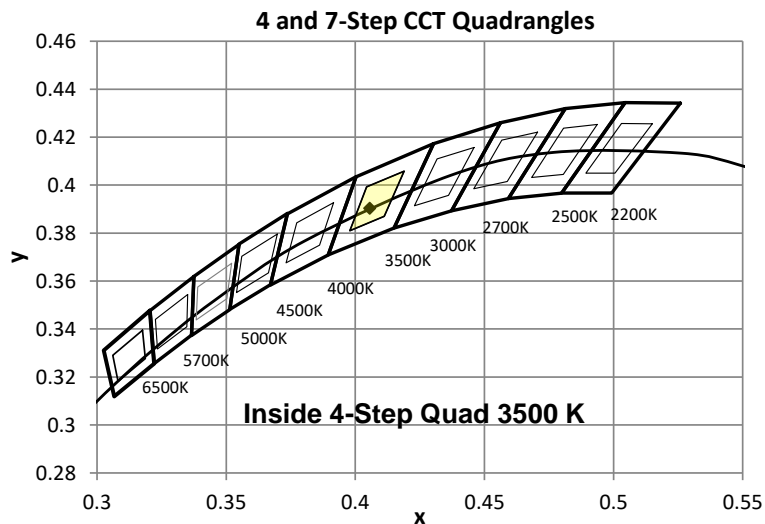
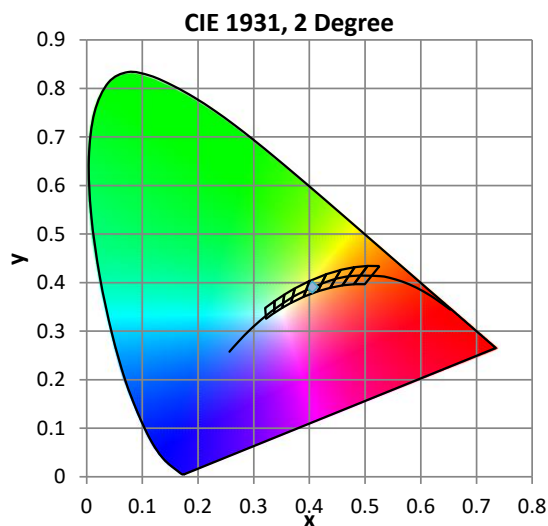
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	120.0 VAC	0.1940 A	23.12 W	0.993	60 Hz	5.41 %

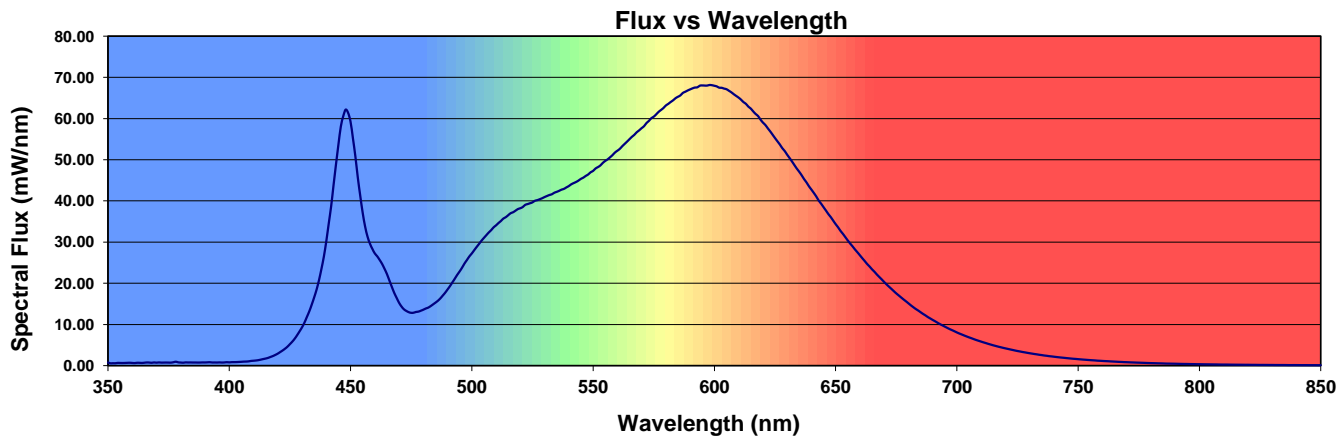
Summary of Results

Total Output:	3599 Lumens	Chromaticity (x):	0.4056
Efficacy:	155.7 lm/w	Chromaticity (y):	0.3904
CCT:	3488 K	Chromaticity (u'):	0.2361
CRI (Ra):	81.3	Chromaticity (v'):	0.5112
CRI (R9):	-1.2	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
81.3	79.2	88.2	95.6	80.4	79.7	84.8	83.4	58.8	-1.2	73.3	80.0	65.8	81.2	97.8	71.5



ANSI/IES TM-30-18 Color Rendition Report

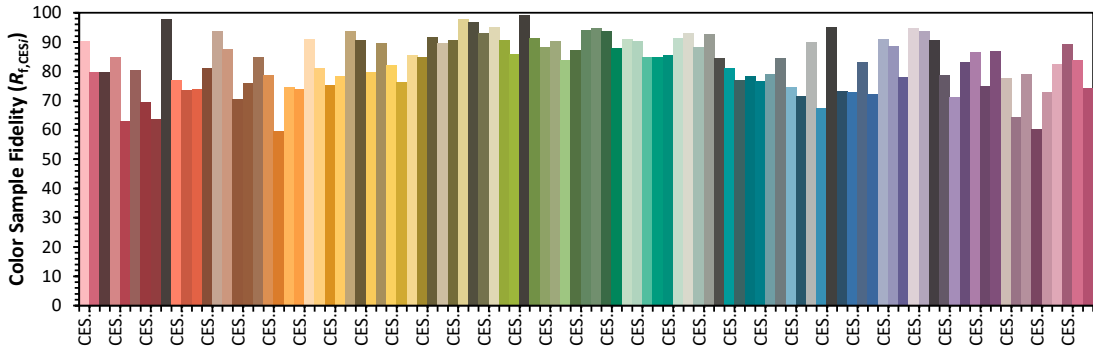
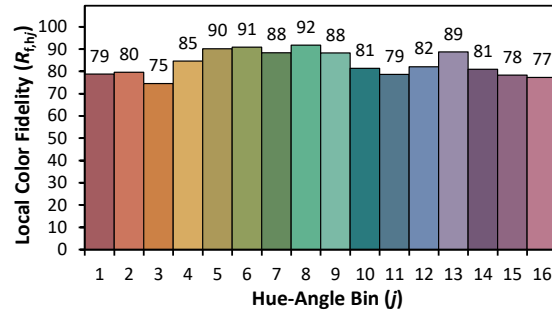
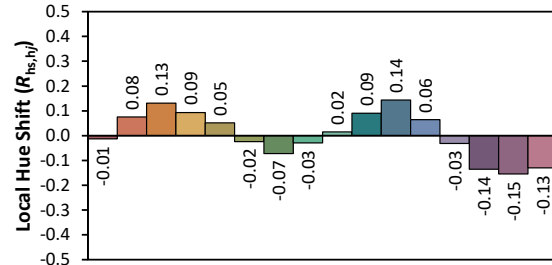
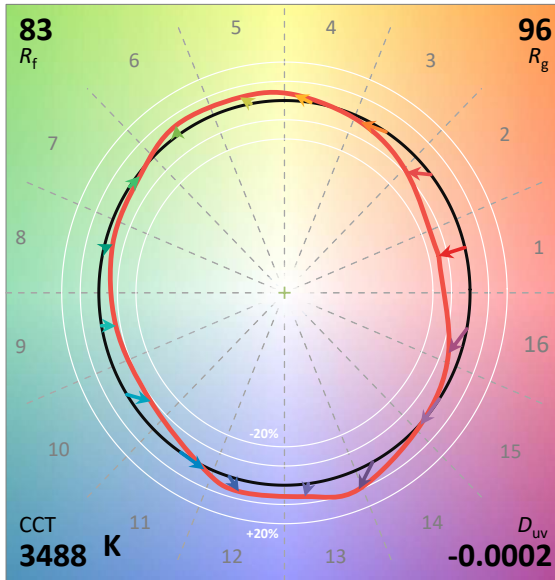
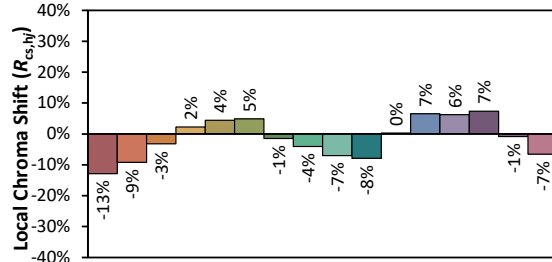
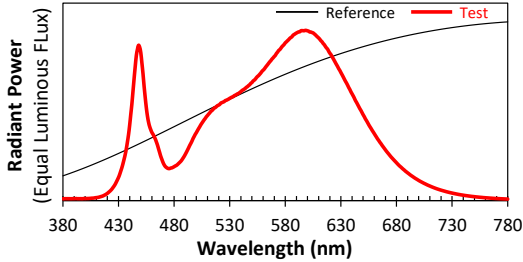
Date: 2024-02-27

Manufacturer:

H E Williams Inc

Model:

FT-14-3-8-3500K-AF-DIM-UNC (FT-14-LS-8CS-AF-DIM-UNV)



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

x 0.4056

y 0.3904

u' 0.2361

v' 0.5112

CIE 13.3-1995
(CRI)

R_a 81

R_g -1

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