UL Verification Services Inc.
7036 Snowdrift Road
Allentown, PA 18106
610-774-1300

Photometric Test Report

Relevant Standards
IES LM-79-2019, ANSI C82.77-10-2014, UL 1598-2008
CIE 13.3-1995, CIE 15-2004, ANSI C78.377-2017
IES TM-30-2018

Prepared For

Rig-A-Lite Partnership Ltd

8500 HANSEN RD
HOUSTON, TX 77075-1006
United States

Catalog Number

MHD09L24U

Order Number
15043848
Test Number
15043848.02

Test Date

2023-11-22 - 2023-11-28

Prepared By

Dylan Fonner, Laboratory Technician

Approved By

Jesse Litchfield, Project Handler

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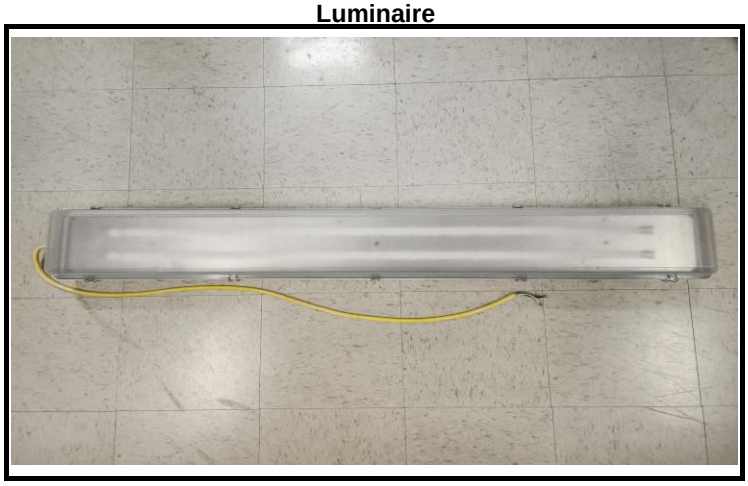
Laboratory results may not be representative of field performance
Ballast factors have not been applied

Testing was performed in a 3-meter integrating sphere using the 4π geometry method.

Absorption correction was employed for Sphere measurement

Luminaire Description: White metal housing with textured lens
Lamp: 336 LEDs (168 LEDs per board)
Mounting: Pendant
Ballast/Driver: Philips Advance Driver XI095C275V054BSf2

Luminaire



Summary of Results

Integrating Sphere

Luminous Flux:	10180	Lumens
Efficacy:	161	lm/w
CCT:	3989	K
CRI (Ra):	82.7	

Electrical Data at 120 VAC

Test Temperature:	25.4	°C
Voltage:	120.0	VAC
Current:	0.5281	A
Power:	63.23	W
Power Factor:	0.998	
Frequency:	60	Hz
Current THD:	3.68	%

In-Situ

LED Temperature:	51.1	°C
Driver Temperature:	46.3	°C
Measured LED Current:	0.05800	A

Temperature is offset to an ambient temperature of 25°C as described in UL1598-2008.

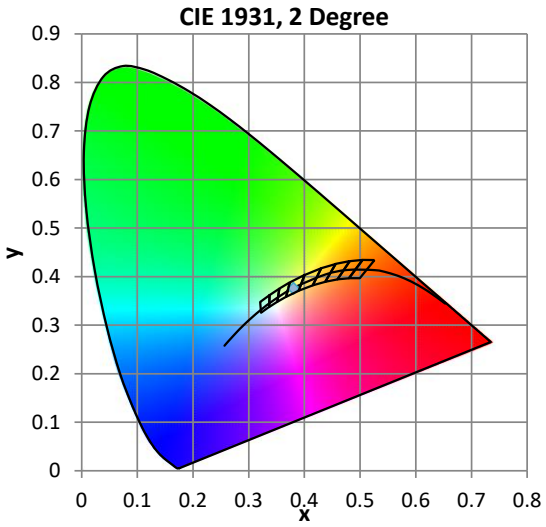
Color Quality - Integrating Sphere

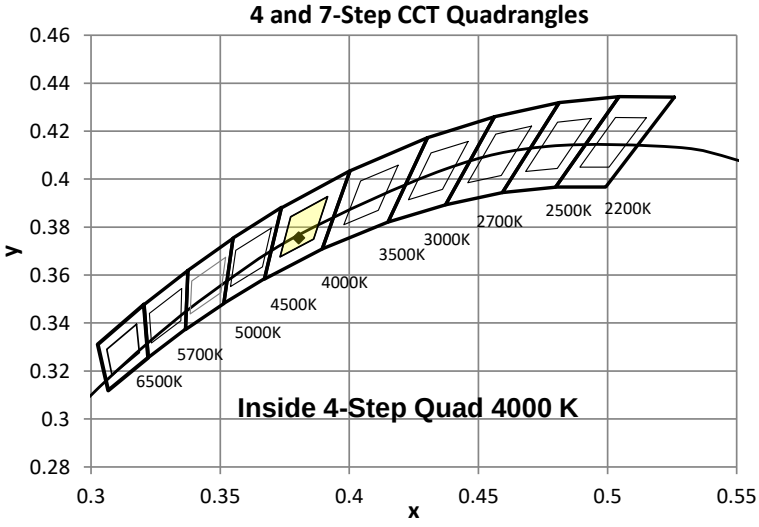
Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.4 °C	120.0 VAC	0.5281 A	63.23 W	0.998	60 Hz	3.68 %

Summary of Results

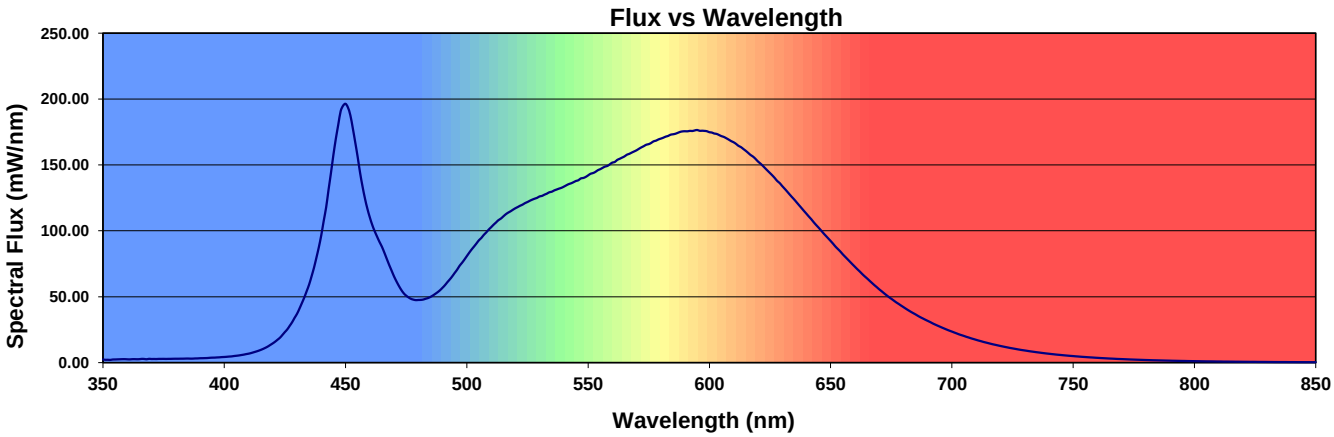
Total Output:	10180	Lumens	**Chromaticity (x):**	0.3804
Efficacy:	161.0	lm/w	**Chromaticity (y):**	0.3755
CCT:	3989	K	**Chromaticity (u'):**	0.2256
CRI (Ra):	82.7		**Chromaticity (v'):**	0.5010
CRI (R9):	9.7		**TM-30 Rf:**	84
Peak Wavelength:	450	nm	**TM-30 Rg:**	97
Dominant Wavelength:	555	nm	**TM-30 Rcs,h1:**	-12%
S/P Ratio:	1.67		**Duv:**	-0.0006
M/P Ratio:	0.67	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
82.7	81.2	88.4	93.6	82.1	81.3	83.8	86.1	65.3	9.7	72.2	81.0	62.8	82.8	96.5	75.2



In-Situ Test

In-Situ Test Conditions

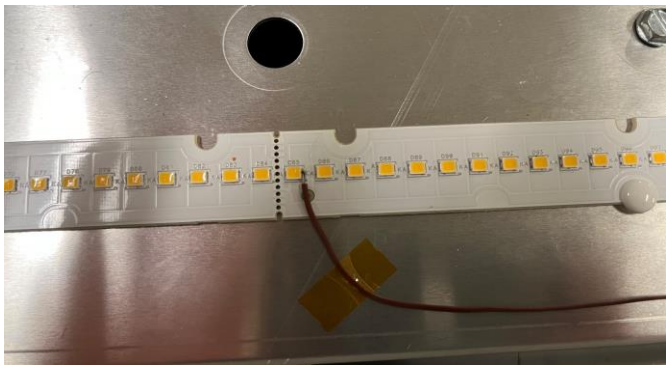
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
22.9 °C	121.5 VAC	N/A	N/A	N/A	60 Hz	N/A

Summary of Results

LED Temperature:	51.1	°C
Driver Temperature:	46.3	°C
Measured LED Current:	0.05800	A

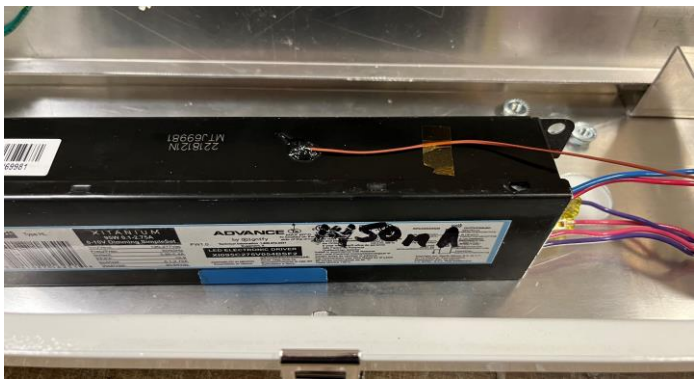
Temperatures are offset to an ambient temperature of 25°C as described in UL1598-2008

LED Temperature Location



Thermocouple Reference

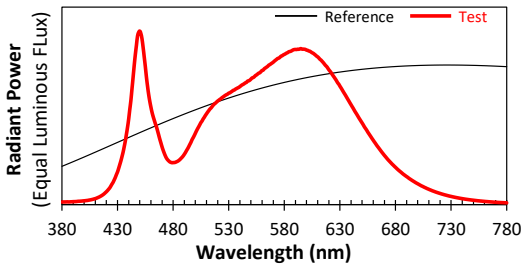
Driver Temperature Location

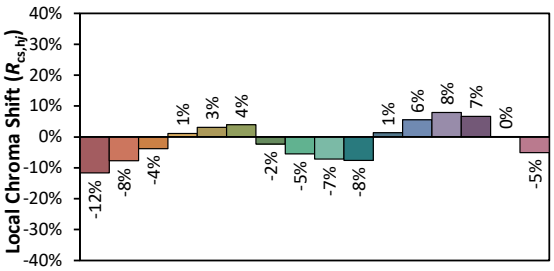


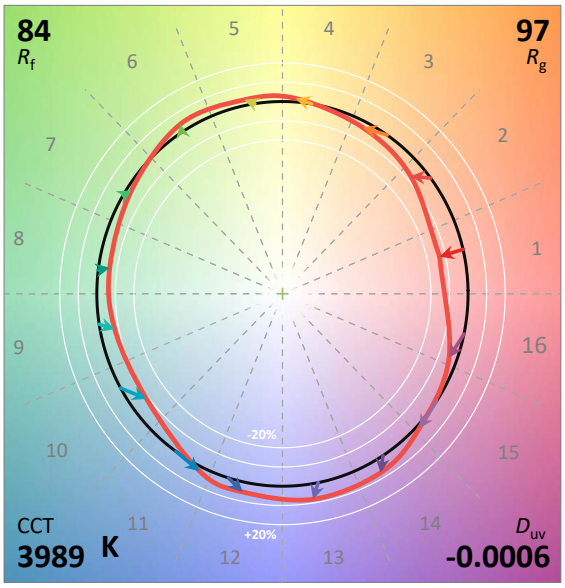
ANSI/IES TM-30-18 Color Rendition Report

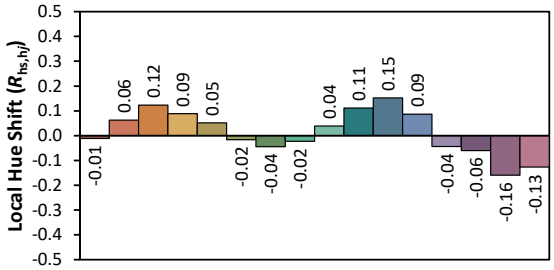
Date: 2023-11-22 Manufacturer: Rig-A-Lite Partnership Ltd

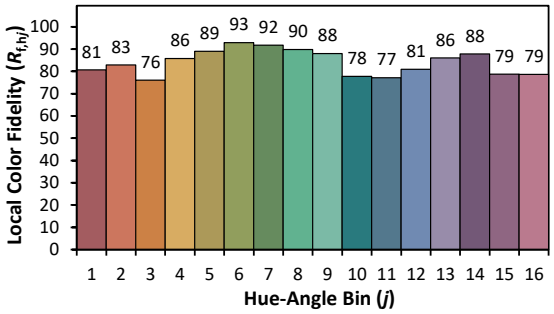
Model: MHD09L24U

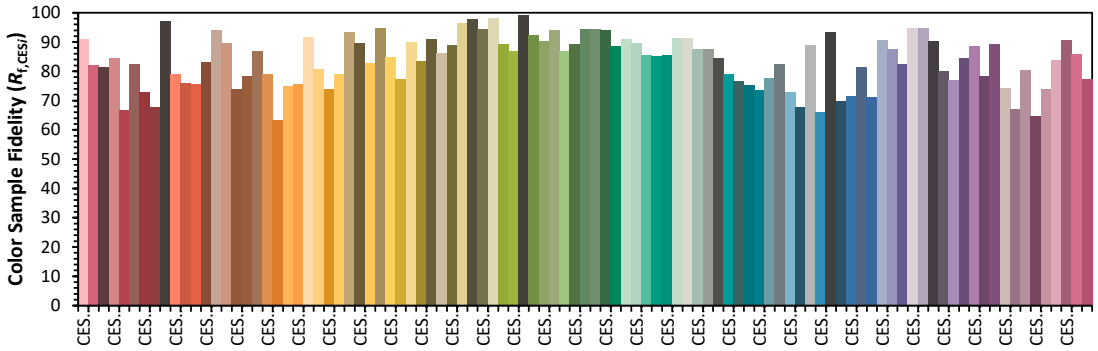












Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x	**0.3804**
y	**0.3755**
u'	**0.2256**
v'	**0.5010**

CIE 13.3-1995 (CRI)

R_a	83
R_9	10

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