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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

MHD07L24U

Order Number
15043848
Test Number
15043848.01

Test Date

2023-11-22 - 2023-11-28

Prepared By

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Approved By

Jesse Litchfield, Project Handler

The results contained in this report pertain only to the tested sample.
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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: Gray plastic housing with textured lens
Lamp: 336 LEDs (168 LEDs per board)
Mounting: Pendant
Ballast/Driver: Philips Advance Driver XI095C275V054BSS1

Luminaire



Summary of Results

Integrating Sphere

Luminous Flux: 7437 Lumens
 Efficacy: 154.45 lm/w
 CCT: 4083 K
 CRI (Ra): 83.4

Electrical Data at 120 VAC

Test Temperature: 24.5 °C
 Voltage: 120.0 VAC
 Current: 0.4051 A
 Power: 48.15 W
 Power Factor: 0.991
 Frequency: 60 Hz
 Current THD: 11.4 %

In-Situ

LED Temperature: 44.5 °C
 Driver Temperature: 56.2 °C
 Measured LED Current: 0.04500 A

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

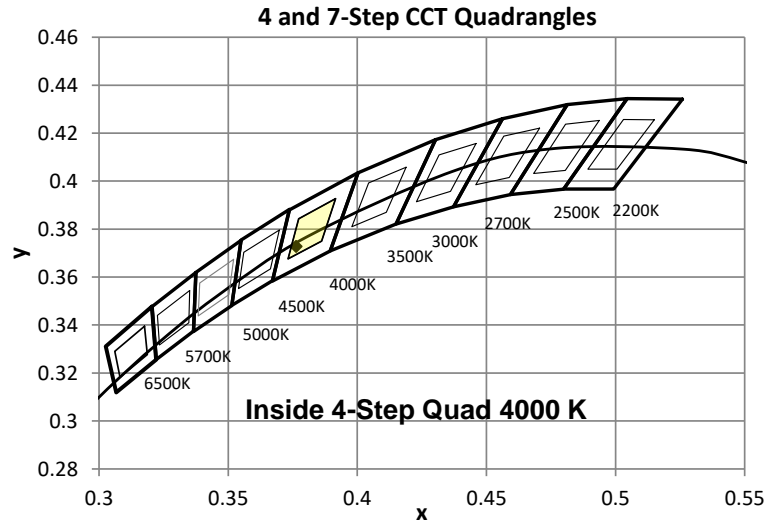
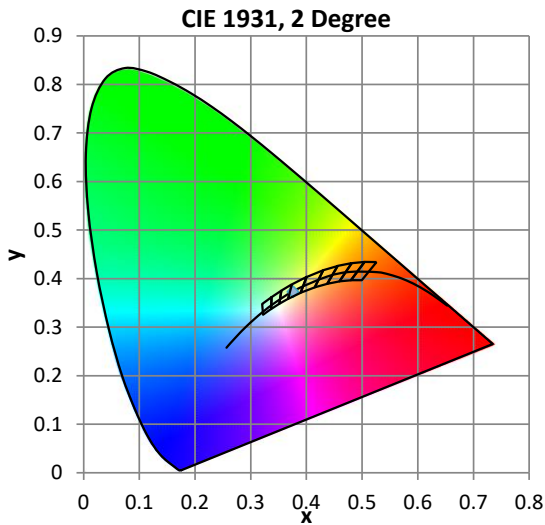
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.5 °C	120.0 VAC	0.4051 A	48.15 W	0.991	60 Hz	11.4 %

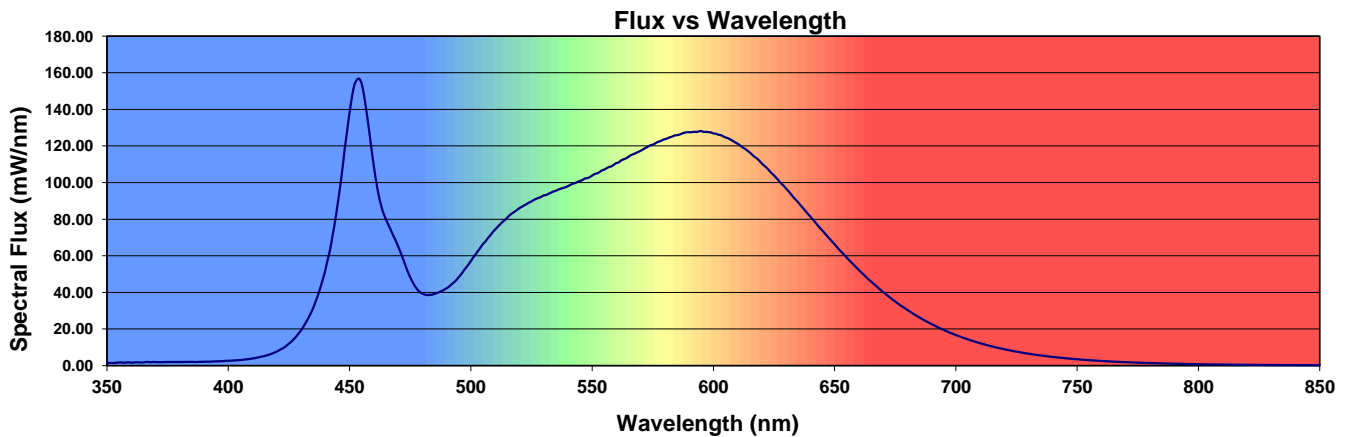
Summary of Results

Total Output:	7437 Lumens	Chromaticity (x):	0.3763
Efficacy:	154.5 lm/w	Chromaticity (y):	0.3728
CCT:	4083 K	Chromaticity (u'):	0.2240
CRI (Ra):	83.4	Chromaticity (v'):	0.4992
CRI (R9):	11.8	TM-30 Rf:	84
Peak Wavelength:	454 nm	TM-30 Rg:	95
Dominant Wavelength:	555 nm	TM-30 Rcs,h1:	-12%
S/P Ratio:	1.72	Duv:	-0.0007
M/P Ratio:	0.7 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
83.4	82.1	90.0	94.7	81.5	81.7	85.3	86.2	65.7	11.8	75.3	80.0	60.2	84.2	97.2	76.5



In-Situ Test

In-Situ Test Conditions

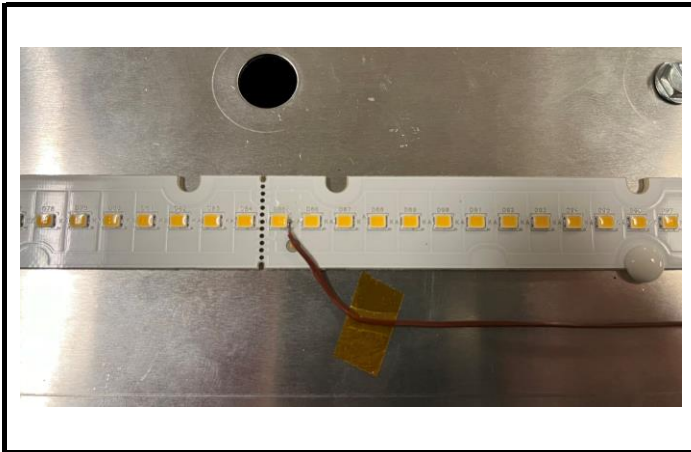
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
23.7 °C	121.5 VAC	N/A	N/A	N/A	60 Hz	N/A

Summary of Results

LED Temperature: 44.5 °C
 Driver Temperature: 56.2 °C
 Measured LED Current: 0.04500 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

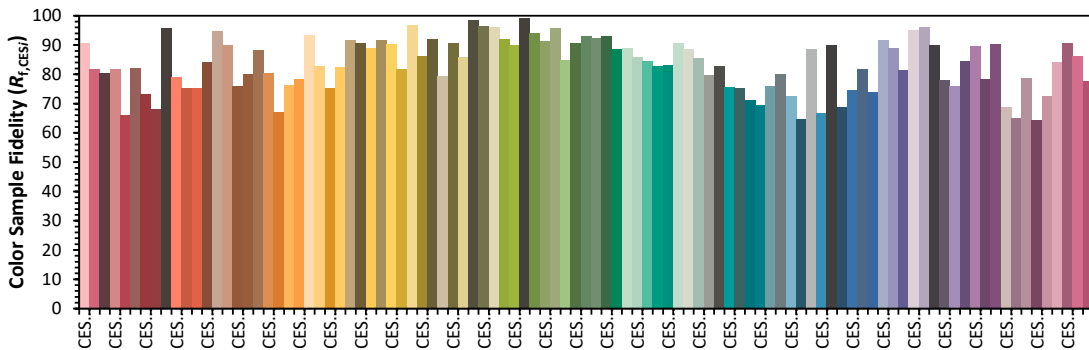
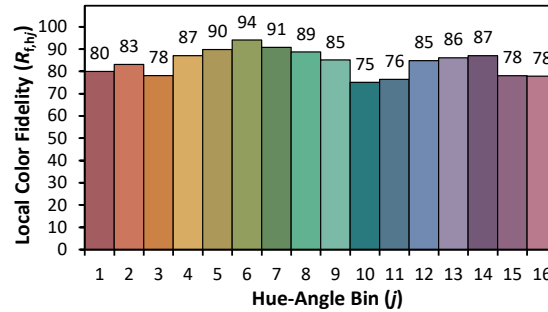
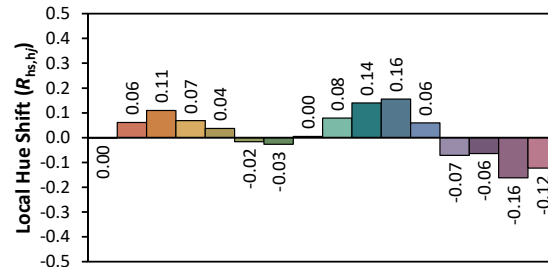
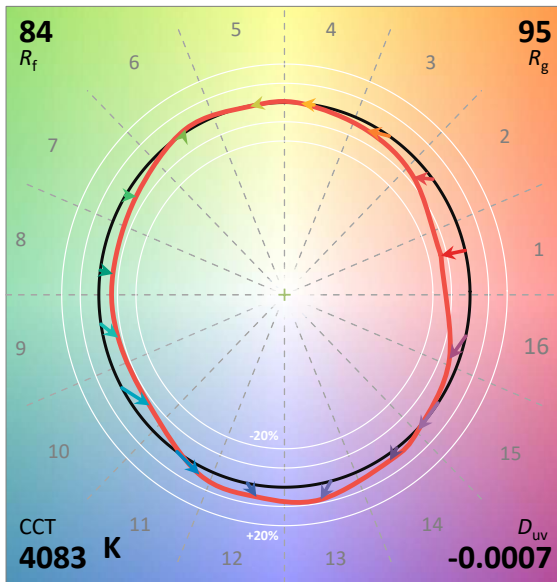
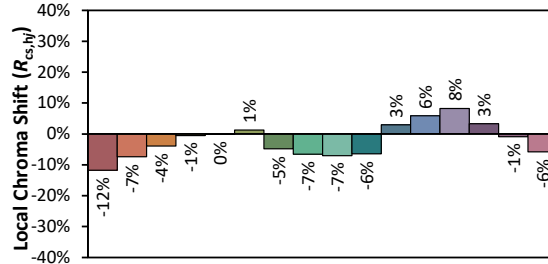
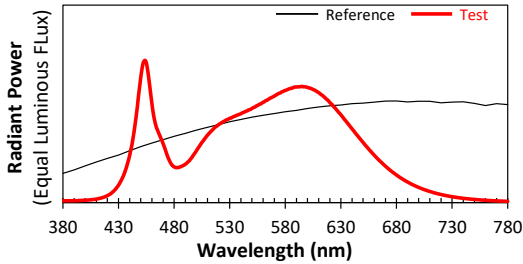
Date: 2023-11-22

Manufacturer:

Rig-A-Lite Partnership Ltd

Model:

MHD07L24U



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

x 0.3763
y 0.3728
u' 0.2240
v' 0.4992

CIE 13.3-1995 (CRI)	
R_a	83
R_g	12

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