

ILLUMADYNE, INC

TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

4CRRS-UNV-42-HE-3500K-DL

PROJECT NUMBER

G104784519

REPORT NUMBER

104784519CRT-003

ISSUE DATE

10/20/2021

REVISED DATE

None

TEST DATES

8/27/2021

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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104784519CRT-003

MODEL NUMBER(s)

4CRRS-UNV-42-HE-3500K-DL

REPORT RENDERED TO:

ILLUMADYNE, INC
3840 HOPKINS STREET
PENSACOLA, FL 32505

AUTHORIZATION

The testing performed was authorized by signed quote number Qu-01199800-1.

TEST STANDARDS

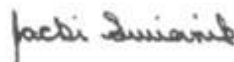
ANSI/UL 1598-2018: Standard for Safety - Luminaires

In Charge of Testing:



Melanie Brittain
Senior Associate Engineer
Lighting Division

Reviewer:



Jacki Swiernik
Staff Engineer
Lighting Division

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SAMPLE INFORMATION

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ITEMS RECEIVED

Item No.	Control No.	Model No.	Description	Type	Received
1	CRT2108231056-001	4CRRS-UNV-42-HE-3500K-DL	LED Retrofit Kit	Production	8/23/2021

TESTED SAMPLE CONFIGURATIONS

Config No.	Tested Model No.	Item Nos. Utilized
1	4CRRS-UNV-42-HE-3500K-DL	1

SAMPLE PHOTOS - TESTED CONFIGURATIONS



INSITU TEMPERATURE MEASUREMENT TESTING

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Test Configuration	Tested Model No.	Pass/Fail/NA
1	4CRRS-UNV-42-HE-3500K-DL	NA

LED MEASUREMENTS AND RATINGS

Mounting Type	Input Voltage (Vac)
Ceiling Surface	120.00

LED Model No.	SPMWH1228FD5WAUUSJ
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Max Junction Temp - Tj (°C)	Max Thermal Resistance - Rth (°C/W)	Max Forward Voltage - Vf (V)
115.0	25.0	3.2

Measured LED Current (mA)	Measured LED Temp - Ts (°C)	Max LED Temp - Ts Max (°C)
34.0	27.3	112.3

Max LED Temp = Max Junction Temp – (LED Wattage x Thermal Resistance)

ISTMT Photo - Ts	ISTMT Photo - Ts Location
	

LED SOURCE MANUFACTURER'S SUPPORTING DOCUMENTATION

a) Absolute Maximum Rating

Item	Symbol	Rating	Unit	Condition
LED Junction Temperature	Tj	115	°C	—
Forward Current	If	160	mA	—
Forward Voltage (Vf)	V	WA or WK	A1	2.8
			A2	2.9
			A3	3.0
			A4	3.1
		WN or WM	A1	2.8
			A2	2.9
			A3	3.0
			A4	3.1

1) Ts point and measurement method:

- ① Measure one point at the cathode pad, if necessary remove PSR of PCB to reach Ts point.

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DRIVER MEASUREMENTS AND RATINGS

Measured Case Temp - Td (°C)	Max Case Temp (°C)
40.6	90.0

ISTMT Photo - Td



DRIVER MANUFACTURER'S SUPPORTING DOCUMENTATION

TC Location Printed on Driver Face

EQUIPMENT LIST

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#	Equipment	Model No	Control No.	Last Cal	Cal Due
9	Digital Thermometer	Fluke 53II	T1318	4/21/2021	4/21/2022
10	Fluke Multimeter	87V	D5893	3/29/2021	3/29/2022

REVISION HISTORY

#	Revision Date	Updated By	Reviewed By	Description of Change
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