

CERTIFICATE OF COMPLIANCE

Certificate Number 20170913-E469276
Report Reference E469276-20170721
Issue Date 2017-SEPTEMBER-13

Issued to: TYCO ELECTRONICS CORP
2901 FULLING MILL RD
MIDDLETOWN PA 17057-3170

This is to certify that representative samples of COMPONENT - SOLID-STATE LIGHTING BASES, HOLDERS AND CONNECTORS
See Addendum for Models

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 8754 & CAN/ULC S8754, HOLDERS, BASES, AND CONNECTORS FOR SOLID-STATE (LED) LIGHT ENGINES AND ARRAYS

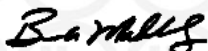
Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

The UL Recognized Component Mark generally consists of the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark:  may be used in conjunction with the required Recognized Marks. The Recognized Component Mark is required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual recognitions.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>

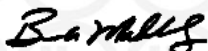


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This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

LED Solid-State Lighting Assembly (CoB) Holders model numbers 2213699, or 2316510, may be prefixed by any number 1-3, f/b any number 1-4



Bruce Mahrenholz, Director North American Certification Program
UL LLC

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PRODUCT COVERED:

*USR, CNR LED Solid-State Lighting Assembly (CoB) Holders model numbers 2213699, or 2316510, **may be** prefixed by any number **1-3**, f/b any number 1-4.

Notes: USR - United States Standard, Recognized
CNR - Canadian Standard, Recognized

PRODUCT RATINGS:

Model Numbers	Temperature HT Rating	Input Electrical			Limited Application Device (LAD)
	(°C)	(V)	(A)	(W)	YES / NO
*2213699-x	125	48	0.85	40.9	No
1-2213699-x	125	48	0.85	40.9	No
2-2213699-x	125	48	0.85	40.9	No
3-2213699-x	125	48	0.85	40.9	No
*2316510-x	125	48	0.85	40.9	No
1-2316510-x	125	48	0.85	40.9	No
2-2316510-x	125	48	0.85	40.9	No
3-2316510-x	125	48	0.85	40.9	No

TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

USR - These devices have been investigated using requirements contained in UL 8754, Standard for Holders, Bases, and Connectors for Solid-State (LED) Light Engines and Arrays, 1st edition.

CNR - These devices have been investigated using requirements contained in ULC S-8754, Standard for Holders, Bases, and Connectors for Solid-State (LED) Light Engines and Arrays, 1st edition.

GENERAL:

Use - For use only in complete equipment where the acceptability of the combination is determined by UL LLC.

Conditions of acceptability - For use only in complete equipment where the acceptability of the combination is determined by UL LLC.

When installed in the end-use application, consideration shall be given to the following:

1. These devices are only investigated for use with light sources that are intended for factory installation or servicing by qualified personnel only.
2. These Solid-state assembly holders (CoB holders) have not been investigated for servicing by end-users (i.e., servicing performed by qualified personnel only).
3. These holders are formed of thermoplastic material rated 5VA, 150 degrees C, and have been subjected to a mold-stress relief test at 135°C for 7 hours. Consideration shall be given to the suitability of the body material in the end-use application.
4. These LED holders shall be suitably enclosed in accordance with end-product requirements.
5. A Temperature Test shall be conducted during the end-product investigation. The temperatures on the components on the table below shall not exceed their corresponding limits.

Component	Limit, °C
*Input Connector	110
Fuse (f1)	125
PCB	105