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Project 12CA16734

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REPORT

On

COMPONENT -DRIVERS FOR LIGHT-EMITTING-DIODE ARRAYS, MODULES AND CONTROLLERS

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## DESCRIPTION

## PRODUCT COVERED:

USR, CNR - Component, LED Driver Other Than Class 2,  
Model LDS150-1400-H **and Model LDS150-1400-HC.**

## GENERAL:

\* The **products** covered by this Report **are** LED driver. **Each** unit consists of a switch mode power transformer and other related electronic circuitry. **Each** unit is provided with leads for input and output connections.

USR indicates investigation to the Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products, UL 8750, 1st edition, and the Standard For Power Units Other Than Class 2, UL 1012, 8th edition.

CNR indicates investigation to Canadian Standard for General Use Power Supplies, CSA C22.2 NO. 107.1-01, 3rd edition.

## ELECTRICAL RATINGS:

Model	Input, 50/60 Hz (Black-White)			Output (Red-Black)	
	Voltage, Vac	Current, A	Power, W	Voltage, Vdc	Current, A
LDS150-1400-H <b>and</b> LDS150-1400-HC	100-277	1.9	170	107	1.4

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

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

\* **These components have** been judged on the basis of the required spacings in the Standard for Light Emitting Diode Equipment for Use in Lighting, UL 8750, 1st Edition, Table 7.4 and the Canadian Standard for Specialty Power Supply, CAN/CSA C22.2 No. 107.1, 3rd edition, Clause 4.17, which should cover the component themselves if submitted for unrestricted Listing.

Condition of Acceptability - The following items are to be considered when evaluating the power unit in the end-use product:

- \* 1. **Each** LED Driver complies with other than Class 2 output requirements. The output shall not be exposed.
2. No mechanical Test has been conducted. The unit shall be enclosed in the end product.
- \*3. **Each** unit is intended for factory installation only.
- \*4. **Each** unit is suitable for use in dry and damp locations.
5. The suitability of input, output and grounding connections shall be determined in each end use application.
- \*6. **Each unit** was subjected to the Temperature Test in a Tc rating 80°C with 100% loading. It has been conducted using resistive loading. The necessity of repeated Temperature Test shall be determined in each end use application.
7. The necessity of Strain Relief and Push-Back Relief means shall be determined in each end use application.
8. Each unit is intended to be connected to a maximum 20 A branch circuit.
9. The transformer employs a Class 155(F) insulation system.
10. The suitability of grounding means shall be determined by end product.
11. The Daughter Board with output leads (Violet-Gray) is for dimming function, which have not been evaluated and shall be determined by end product.