

File E338485

Project 4789936026

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REPORT

on

Lamps, Self-ballasted, Light-emitting-diode Type

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DESCRIPTION

PRODUCT COVERED:

USL, CNL - Self-Ballasted Lamps, LED type, Model(s): see below table in "ELECTRICAL RATINGS".

Notes: USL - United States Standard, Listed
CNL - Canadian Standard, Listed

ELECTRICAL RATINGS:

Model Numbers	Lamp Base	Input Ratings				(HPF)
		(V)	(Hz)	(A)	(W)	
G2 TP120-9/A19 WiFi+BLE DIM OMNI	E26	120	60	0.120	9	No
G2 TP120-9/A19 WiFi+BLE CW OMNI	E26	120	60	0.120	9	No
G2 TP120-9/A19 WiFi+BLE CW OMNI SN	E26	120	60	0.120	9	No
G2 TP120-9/A19 WiFi+BLE RGBW OMNI	E26	120	60	0.120	9	No
G2 TP120-9/A19 WiFi+BLE RGBCW OMNI	E26	120	60	0.120	9	No
G2 TP120-9/A19 WiFi+BLE RGBCW OMNI SN	E26	120	60	0.120	9	No
G2 TP120-8/A19 WiFi+BLE RGBCW OMNI	E26	120	60	0.120	8	No

Model Numbers	Environment	Orientation	Dimmable?	Std.
				Dimmer?
G2 TP120-9/A19 WiFi+BLE DIM OMNI	Damp	Any	Yes	No
G2 TP120-9/A19 WiFi+BLE CW OMNI	Damp	Any	Yes	No
G2 TP120-9/A19 WiFi+BLE CW OMNI SN	Damp	Any	Yes	No
G2 TP120-9/A19 WiFi+BLE RGBW OMNI	Damp	Any	Yes	No
G2 TP120-9/A19 WiFi+BLE RGBCW OMNI	Damp	Any	Yes	No
G2 TP120-9/A19 WiFi+BLE RGBCW OMNI SN	Damp	Any	Yes	No
G2 TP120-8/A19 WiFi+BLE RGBCW OMNI	Damp	Any	Yes	No

Model Differences:

Model G2 TP120-8/A19 WiFi+BLE RGBCW OMNI is identical to model G2 TP120-9/A19 WiFi+BLE RGBCW OMNI except for model designation and input wattage rating.

They are same with each other except driver PWB layout and LED PWB layout.

Model G2 TP120-9/A19 WiFi+BLE CW OMNI SN is similar to model G2 TP120-9/A19 WiFi+BLE CW OMNI except for WIFI Module.

Model G2 TP120-9/A19 WiFi+BLE RGBCW OMNI SN is similar to model G2 TP120-9/A19 WiFi+BLE RGBCW OMNI except for WIFI Module.

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

USL - Products designated USL have been investigated using US requirements as noted in the Test Record.

CNL - Products designated CNL have been investigated using Canadian requirements as noted in the Test Record.

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ELECTRICAL CIRCUIT DIAGRAM - See below table for details. For engineering use only.

ILL. 1	Electrical Schematic Diagram of Driver PWB for models G2 TP120-9/A19 WiFi+BLE DIM OMNI, G2 TP120-9/A19 WiFi+BLE CW OMNI, G2 TP120-9/A19 WiFi+BLE RGBW OMNI, G2 TP120-9/A19 WiFi+BLE RGBW OMNI, G2 TP120-8/A19 WiFi+BLE RGBCW OMNI.
ILL. 2	Electrical Schematic Diagram of LED PWB for model G2 TP120-9/A19 WiFi+BLE CW OMNI.
ILL. 3	Electrical Schematic Diagram of LED PWB for model G2 TP120-9/A19 WiFi+BLE DIM OMNI.
ILL. 4	Electrical Schematic Diagram of LED PWB for models G2 TP120-9/A19 WiFi+BLE RGBCW OMNI, G2 TP120-8/A19 WiFi+BLE RGBCW OMNI.
ILL. 5	Electrical Schematic Diagram of LED PWB for model G2 TP120-9/A19 WiFi+BLE RGBW OMNI.

GENERAL:

The devices in this report comply with the description on the following pages. They are provided with lamp bases, and intended for connection to the supply sources, noted in ELECTRICAL RATINGS.

1. They employ non-replaceable light sources.
2. They are suitable for dry and damp locations.
3. They have been evaluated for use in surface mount wall and ceiling luminaires, portable luminaires.
4. They have not been evaluated for use in totally enclosed, recessed luminaires.
5. They are not suitable for use with standard dimmers. They employ integral dimming controls.
6. They are not intended for use with emergency exits.

CONSTRUCTION DETAILS:

See Section General for additional details.

Assembly and Packing - When shipped from the factory, each unit shall be completely assembled and wired with each electrical component mounted in place and with each splice and connection completed.

"CN" indicates the component has been evaluated to Canadian requirements and the component shall have a Canadian UL certification Mark (cUL or cUR) or UL certification Mark and CSA certification Mark when the Applicant's basic product bears a C-UL certification Mark.

Corrosion Protection - Ferrous metal parts are protected against corrosion by plating or painting.

Current-Carrying Parts - A current-carrying part shall be of silver, copper alloy, stainless steel or other similar metal. Ordinary iron or steel, plain or plated, shall not be used as a current-carrying part.

Electrical Tubing and Sleeving - R/C (YDPU2, YDPU8) or R/C (UZFT2, UZFT8), rated 300 V, 135°C minimum.

Printed Wiring Board - R/C (ZPMV2) or R/C (ZPXK2), rated min. V-1, suitable for the solder time and temperature used by the manufacturer and having an operating temperature rating of at least 130°C. Suitable for direct support of current-carrying parts (UL796 DSR).

Soldered Connections - All are mechanically secured before soldering.

Soldered connections to printed wiring boards shall be secured by one of the following methods:

- a) A conductor passed through a hole and soldered on the opposite side.
- b) A solder connection covered with epoxy, silicone rubber, or potting.
- c) Surface Mount Device (SMD) components and components without integral leads soldered to the printed wiring board.

Spacings - Unless otherwise noted in the description, spacing between uninsulated live parts of opposite polarity, and between uninsulated live parts and dead metal parts that can be contacted by persons shall be as tabulated below:

Location Type	Potential, V	Minimum spacing, mm (inch)
Dry or Damp	Up to 300	1.2 (0.046)
Dry or Damp	301 - 600	3.2 (0.125)
Wet	Up to 600	4.8 (0.187)


MARKINGS:

See the Section General for general marking requirements and format details.

Device markings shall be legibly and permanently marked on the device. Instructions and package markings shall be provided on the smallest unit packaging, point-of-sale package, carton, or instruction sheet.

"Verbatim" indicates that the marking shall consist of only the exact words shown, or a marking including these words and conveying the original intent.

The following markings apply to all devices:

DEVICE MARKINGS		FORMAT
Identification of the company responsible for the product, which may be in a traceable code if device is identified by a brand or trademark owned by a private labeler		S13L1
Catalog number, model number, series number, or other similar designation		S13L1
Date code, per Section General		S13L1
Factory identification, per Section General		S13L1
Electrical input rating: " ____ VOLTS ____ AMPS ____ WATTS ____ HERTZ" or " ____ V ____ A ____ W ____ Hz"		S13L1
"SUITABLE FOR DAMP LOCATIONS", "FOR DAMP LOCATIONS" or "RISK OF ELECTRIC SHOCK - DO NOT USE WHERE DIRECTLY EXPOSED TO WATER" or "RISK OF ELECTRIC SHOCK - DO NOT USE WHERE DIRECTLY  EXPOSED TO WATER" or symbol:	VERBATIM	S13L1
"NOT FOR USE IN TOTALLY ENCLOSED LUMINAIRES" or "NOT FOR TOTALLY ENCLOSED LUMINAIRES"		S13L1
"DO NOT USE WITH STANDARD DIMMERS, SEE INSTRUCTIONS"		S13L1

INSTRUCTIONS AND PACKAGE MARKINGS		FORMAT
"THIS DEVICE IS NOT INTENDED FOR USE WITH EMERGENCY EXITS" or "NOT FOR EMERGENCY LIGHTING"		L2
"Only use the control provided with or specified by these instructions to control this lamp. This lamp will not operate properly when connected to a standard (incandescent) dimmer or dimming control."		L2