DESCRIPTION

PRODUCT COVERED:

USR, CNR – Component, LED array, see electrical ratings table for models.

ELECTRICAL RATINGS:

Model No.	Rated Input [x] CC [ ] CV [x] LED array does not have a supply feed through (b)				[ ]Rated Output (a) [ ] CC [ ] CV				
	Voltage [ ] Vac [x] Vdc	[ ] Hz	Current (A)	Power (W)	Voltage [ ] Vac [ ] Vdc	[ ] Hz	Current (A)	Power (W)	Note
SI-Bux901B20$$	48.26	N/A	2.0	96.52	N/A	N/A	N/A	N/A	**N/A**
SI-Bux451B20$$	48.26	N/A	2.0	96.52	N/A	N/A	N/A	N/A	**N/A**
SI-Bux231B20$$	48.26	N/A	1.2	57.92	N/A	N/A	N/A	N/A	**N/A**
SI-Bux531B20$$	47.72	N/A	2.0	95.44	N/A	N/A	N/A	N/A	**N/A**
SI-Bux271B20$$	47.72	N/A	1.8	85.90	N/A	N/A	N/A	N/A	**N/A**
SL-Bux4Y90LX$$	48.26	N/A	2.0	96.52	N/A	N/A	N/A	N/A	**N/A**
SL-Bux4X90LX$$	48.26	N/A	2.0	96.52	N/A	N/A	N/A	N/A	**N/A**
SL-Bux9NA2SX$$	48.26	N/A	2.0	96.52	N/A	N/A	N/A	N/A	**N/A**
SL-Bux4N92SX$$	48.26	N/A	2.0	96.52	N/A	N/A	N/A	N/A	**N/A**
SL-Bux2N82SX$$	48.26	N/A	1.2	57.92	N/A	N/A	N/A	N/A	**N/A**
SL-Bux5N91SX$$	47.72	N/A	2.0	95.44	N/A	N/A	N/A	N/A	**N/A**
SL-Bux2N81SX$$	47.72	N/A	1.8	85.90	N/A	N/A	N/A	N/A	**N/A**
SL-Bux2T70LX$$	**46.9**	**N/A**	**2.0**	**93.80**	**N/A**	**N/A**	**N/A**	**N/A**	**1**
	46.9	**N/A**	**2.0**	**93.80**	**N/A**	**N/A**	**N/A**	**N/A**	**2**

a- Applies to LED controllers and to LED arrays with a supply feed through
b- The input ratings refer to power draw of one unit.

Note – 1: Warm LEDs, Total 128 LEDS (16s x 8P), connection to W+ and W-.
2: Cool LEDs, Total 128 LEDS (16s x 8P), connection to C+ and C-.

MODEL NOMENCLATURE:

u - Represent any alphanumeric code to denote Color Rendering Index of LEDs which is unrelated safety.
x - Represent any alphanumeric code to denote correlated color temperature of LEDs which is unrelated safety.
$$ - Represent any alphanumeric code to denote customer information for marketing purpose only.

Model SL-Bux4X90LX$$ is identical to model SL-Bux4Y90LX$ except quantity of connector.

*

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

USR – Products designated USR have been investigated using US requirements as noted in the Test Record.

CNR – Products designated CNR have been investigated using Canadian requirements as noted in the Test Record.

Product Characteristics-

<table>
<tr><td rowspan="8">*Model No. SI-Bux901B20$$, SI-Bux451B20$$, SI-Bux231B20$$, SI-Bux531B20$$, SI-Bux271B20$$, SL-Bux9NA2SX$$, SL-Bux4N92SX$$, SL-Bux2N82SX$$, SL-Bux5N91SX$$, SL-Bux2N81SX$$ and SL-Bux2T70LX$$
[ ] applies to all models- see electrical ratings</td><td>Input Type</td><td colspan="2">[ ] Branch Circuit (Mains)
[ ] Isolated Circuit
[x] Class 2 (a)
[ ] LVLE (b1)
[ ] LED Class 2 (b2)</td></tr>
<tr><td>[ ] Output Type (e1)</td><td colspan="2">[ ] Non-isolated [ ] with PLIMIT @ 15 W (d)
[ ] Isolated [ ] with PLIMIT @ 15 W (d)
[ ] Class 2 (a)
[ ] LVLE (b1)
[ ] LED Class 2 (b2)</td></tr>
<tr><td>[ ] Output Load Type (e2)</td><td colspan="2">[ ] LED array
[ ] AC transformer
[ ] switch mode LED driver
[ ] Specific load- model(s) xxx made by xxx</td></tr>
<tr><td>Environmental Conditions</td><td colspan="2">[ ] Dry [x] Damp [ ] Wet</td></tr>
<tr><td rowspan="5">[ ] Additionally evaluated to UL 8750 Supplements</td><td>[ ] SA- SREC</td><td>[ ] Evaluation per SA3.2
[ ] Evaluation per SA4</td></tr>
<tr><td>[ ] SF- Wired control Circuits(c)</td><td>[ ] Evaluated per SF3.1
[ ] per exception 1
[ ] per exception 2</td></tr>
<tr><td>[ ] SG- Temperature value @ Tc (c)</td><td>xx ° C</td></tr>
<tr><td>[ ] SH- Phase cut dimming (c)</td><td></td></tr>
<tr><td>[ ] SJ- Special use LED arrays(c)</td><td>[ ] Risk Group 1 or 0 for both Retinal Blue Light spectral bands and Risk Group 0 for the remaining spectral bands.
[ ] Risk Group 1
[ ] Risk Group 2
[ ] Risk Group 3</td></tr>
<tr><td>[ ] SK- Double Insulated LED equipment</td><td></td></tr>
</table>

a- As defined in [ ] UL 8750, Clause 7.12.1 [ ] and CAN/CSA-C22.2 No. 250.13, Clause 8.12
b1- As defined in UL 8750, Section 8.16
b2- As defined in CAN/CSA-C22.2 No. 250.13, Annex A
c- Compliance with CSA C22.2 No. 250.13 Annex covering same topic as the Supplement
d- Refers to a circuit of 15 W maximum power limit under normal and single fault conditions, as defined in UL 8750, section 8.8 and CAN/CSA-C22.2 No. 250.13, section 9.6
e1- Applies to LED controllers and to LED arrays with a supply feed through
e2- Applies to LED controllers. Check all boxes that apply based on criteria in UL 8750, Clauses 7.9.3 & 9.2.2.e

Product Characteristics-

Model No. SL-Bux4Y90LX$$ and SL-Bux4X90LX$$ [ ] applies to all models- see electrical ratings	Input Type	[x] Branch Circuit (Mains) [ ] Isolated Circuit [ ] Class 2 (a) [ ] LVLE (b1) [ ] LED Class 2 (b2)	
	[ ] Output Type (e1)	[ ] Non-isolated [ ] with PLIMIT @ 15 W (d) [ ] Isolated [ ] with PLIMIT @ 15 W (d) [ ] Class 2 (a) [ ] LVLE (b1) [ ] LED Class 2 (b2)	
	[ ] Output Load Type (e2)	[ ] LED array [ ] AC transformer [ ] switch mode LED driver [ ] Specific load- model(s) xxx made by xxx	
	Environmental Conditions	[ ] Dry [x] Damp [ ] Wet	
	[x] Additionally evaluated to UL 8750 Supplements	[ ] SA- SREC	[ ] Evaluation per SA3.2 [ ] Evaluation per SA4
		[ ] SF- Wired control Circuits(c)	[ ] Evaluated per SF3.1 [ ] per exception 1 [ ] per exception 2
		[x] SG- Temperature value @ Tc (c)	102.8 ° C
		[ ] SH- Phase cut dimming (c)	
		[ ] SJ- Special use LED arrays(c)	[ ] Risk Group 1 or 0 for both Retinal Blue Light spectral bands and Risk Group 0 for the remaining spectral bands. [ ] Risk Group 1 [ ] Risk Group 2 [ ] Risk Group 3
		[ ] SK- Double Insulated LED equipment	

a- As defined in [ ] UL 8750, Clause 7.12.1 [ ] and CAN/CSA-C22.2 No. 250.13, Clause 8.12
b1- As defined in UL 8750, Section 8.16
b2- As defined in CAN/CSA-C22.2 No. 250.13, Annex A
c- Compliance with CSA C22.2 No. 250.13 Annex covering same topic as the Supplement
d- Refers to a circuit of 15 W maximum power limit under normal and single fault conditions, as defined in UL 8750, section 8.8 and CAN/CSA-C22.2 No. 250.13, section 9.6
e1- Applies to LED controllers and to LED arrays with a supply feed through
e2- Applies to LED controllers. Check all boxes that apply based on criteria in UL 8750, Clauses 7.9.3 & 9.2.2.e

Conditions of Acceptability –

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

1. These products are intended for building in. These products are open frame. Acceptability with respect to mounting, spacing, casualty, temperature and segregation is to be determined as part of the end device evaluation.

2. These products are provided with push-in terminals for supply connection. These terminals are intended for use with 18 - 24 AWG solid copper conductors with 7.5 ~ 8.5 mm strip length.

3. These products have been evaluated for use with a source of supply noted in the product characteristics table (input type) and electrical ratings noted in the electrical ratings table. Suitability of these products with other sources of supply or electrical ratings is to be determined in the end product.

4. These products shall be installed in compliance with the enclosure, mounting, accessibility and spacing requirements of the end use application.

5. These products are intended only for use in dry and damp locations. The use in other environments shall be considered in the end product evaluation

6. All Tests were conducted with an aluminum heat sink, overall 1200 mm by 50 mm by 10 mm (L x W x H) for models SI-Bux901B20$$, SI-Bux451B20$$, SI-Bux231B20$$, SI-Bux531B20$$, SI-Bux271B20$$ **and SL-Bux2T70LX$$**overall 680 mm by 50 mm by 30 mm (L x W x H) with 11 fins for models SL-Bux4Y90LX$$ and overall 1200 mm by 50 mm by 5 mm (L x W x H) for models SL-Bux9NA2SX$$, SL-Bux4N92SX$$, SL-Bux2N82SX$$, SL-Bux5N91SX$$ and SL-Bux2N81SX$$.

7. For some models in table below - The temperature tests were performed according to Supplement SG using a manufacturer recommended heat sink as described in this report. During temperature testing of the end product, evaluation of this component can be limited to the temperature at the Test Measurement Point Tc. The absolute value at this point cannot exceed the max. available Tc. See table below for the location of the Tc point and the limit.

Model	Tc Location	Max. available Tc (°C)
SL-Bux4Y90LX$$	Fig. 6	102.8
SL-Bux4X90LX$$	Fig. 7	102.8