



Reference Design Sheet - L411A-RGB30 (RGBW LES9)

Performance Specifications:

Output	Input Voltage [V]	Wattage [W]	Lumens [lm]	Efficacy [lm/W]
Standard	24	96	965	75

Note: All performance measurements taken @ 3000K, 100% intensity, 25°C ambient with ARK-IR-PL-LES9 and no diffuser in use

Calibrated CCT Specs:

CCT [K]	Typical CRI
3000	91
3500	91
4000	88

Diffuser Transmittance:

Diffuser	Transmittance
ARK-DF-SF2	96
ARK-DF-SF4	91
ARK-DF-SF6	84
ARK-DF-SF8	76

Temperature Conditions:

Output	Max T [°C]
Standard Output Tc	72
Environment Ta	40

Note: Temperature conditions applicable for 2700K, 100% intensity



Figure 1 - Tc is measured on the metal sleeve of the micro-USB programming port. To measure Tc, insert thermal probe between micro-USB and top encasement of the ORB controller as shown.

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Recommended Thermal Management Specifications:

Standard Output:

Thermal Interface Material: Thermal paste – PN: TC3-1G or equivalent. Alternatively, 18x18mm phase change thermal pad – PN: ARK-TM-PC1-1818
Heat Sink: Anodized aluminum. Dissipated power(W): 48 – Thermal Resistance (°C/W): 1.1

Contact Arkalumen for validation of any other thermal interface materials. The use of gallium based paste is not recommended.

System Inclusions:

DMX/RDM

Order Code	LoDA	ORB	Cable	Inner Reflector	Diffuser/Holder	Firmware
Z411A30-VA1-9-X-4010	L411A-RGB30	ORB5-VA	ARK-C1-5A-30	ARK-IR-PL-LES9	ARK-RH-SA*	4010
Z411A30-VA1-9-4-4010	L411A-RGB30	ORB5-VA	ARK-C1-5A-30	ARK-IR-PL-LES9	ARK-DF-SF4	4010

Casambi

Order Code	LoDA	ORB	Cable	Inner Reflector	Diffuser/Holder	Firmware
Z411A30-VWC1-9-X-4010	L411A-RGB30	ORB5-VWC	ARK-C1-2A-30	ARK-IR-PL-LES9	ARK-RH-SA*	4010
Z411A30-VWC1-9-4-4010	L411A-RGB30	ORB5-VWC	ARK-C1-2A-30	ARK-IR-PL-LES9	ARK-DF-SF4	4010

*When selecting a system without a diffuser, an inner reflector holder (RH) will be included
Other system combinations available (alternative diffusers, cables). Contact Arkalumen for all options.