

Reference Design Sheet – L411A-RGB30 (RGBW LES9)

Performance Specifications:

Output	Lumens [lm]	Efficacy [lm/W]	Wattage [W]
Standard	1025	70	14.6

Note: All performance measurements taken @ 6500K, 100% intensity, 25°C ambient with ARK-IR-PL-LES9 and ARK-RH-SA in use

Calibrated CCT Specs:

CCT [K]	Typical CRI
2200 (min)	86
3000	91
3500	91
4000	88
5700 (max)	78

Diffuser Transmittance:

Diffuser	Transmittance
ARK-DF-SF2	93
ARK-DF-SF4	82
ARK-DF-SF6	74
ARK-DF-SF8	67

Temperature Conditions:

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

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

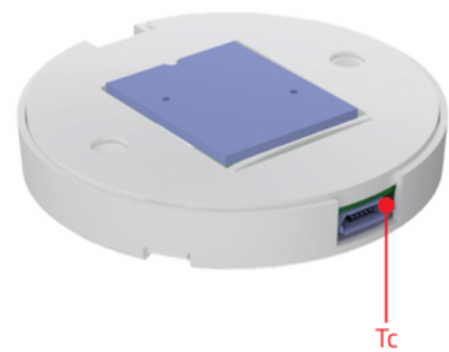


Figure 1: Tc point on ORB controller, micro USB connector shield

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-VA1-9-2-4010	L411A-RGB30	ORB5-VA	ARK-C1-5A-30	ARK-IR-PL-LES9	ARK-DF-SF2	4010
Z411A30-VA1-9-4-4010	L411A-RGB30	ORB5-VA	ARK-C1-5A-30	ARK-IR-PL-LES9	ARK-DF-SF4	4010
Z411A30-VA1-9-6-4010	L411A-RGB30	ORB5-VA	ARK-C1-5A-30	ARK-IR-PL-LES9	ARK-DF-SF6	4010
Z411A30-VA1-9-8-4010	L411A-RGB30	ORB5-VA	ARK-C1-5A-30	ARK-IR-PL-LES9	ARK-DF-SF8	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-VWC1-9-2-4010	L411A-RGB30	ORB5-VWC	ARK-C1-2A-30	ARK-IR-PL-LES9	ARK-DF-SF2	4010
Z411A30-VWC1-9-4-4010	L411A-RGB30	ORB5-VWC	ARK-C1-2A-30	ARK-IR-PL-LES9	ARK-DF-SF4	4010
Z411A30-VWC1-9-6-4010	L411A-RGB30	ORB5-VWC	ARK-C1-2A-30	ARK-IR-PL-LES9	ARK-DF-SF6	4010
Z411A30-VWC1-9-8-4010	L411A-RGB30	ORB5-VWC	ARK-C1-2A-30	ARK-IR-PL-LES9	ARK-DF-SF8	4010

*When selecting a system without a diffuser, an inner reflector holder (RH) will be included