



## Reference Design Sheet – L411A-RGB40 (RGBW LES9)

### Performance Specifications:

Output	Lumens [lm]	Efficacy [lm/W]	Wattage [W]
Standard	1000	81	12.4

Note: All performance measurements taken @ 4000K, 100% intensity, 25°C ambient with ARK-IR-PL-LES9 and no diffuser in use

### Calibrated CCT Specs:

CCT [K]	Typical CRI
3000	82
3500	92
4000	95

### 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 3500K, 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): 11

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
<b>Z411A40-VA1-9-X-4010</b>	L411A-RGB40	ORB5-VA	ARK-C1-5A-30	ARK-IR-PL-LES9	ARK-RH-SA*	4010
<b>Z411A40-VA1-9-4-4010</b>	L411A-RGB40	ORB5-VA	ARK-C1-5A-30	ARK-IR-PL-LES9	ARK-DF-SF4	4010

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Order Code	LoDA	ORB	Cable	Inner Reflector	Diffuser/Holder	Firmware
<b>Z411A40-VWC1-9-X-4010</b>	L411A-RGB40	ORB5-VWC	ARK-C1-2A-30	ARK-IR-PL-LES9	ARK-RH-SA*	4010
<b>Z411A40-VWC1-9-4-4010</b>	L411A-RGB40	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.