



Reference Design Sheet – L301A-183065 (WWW LES9)

Performance Specifications:

Output	Lumens [lm]	Efficacy [lm/W]	Wattage [W]
Standard	1000	80	12.5

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
1800 (min)	94
3000	92
3500	94
4000	95
6500 (max)	95

Note: Arkalumen maintains a CRI of 90+

Diffuser Transmittance:

Diffuser	Transmittance
ARK-DF-SF2	74
ARK-DF-SF4	67

Temperature Conditions:

Output	Max T [°C]
Standard Output Tc	75
Environment Ta	40

Note: Temperature conditions applicable for 3000K, 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
Z301A183065-VA1-9-X-4010	L301A-183065	ORB3-VA	ARK-C1-5A-30	ARK-IR-PL-LES9	ARK-RH-SA*	4010
Z301A183065-VA1-9-2-4010	L301A-183065	ORB3-VA	ARK-C1-5A-30	ARK-IR-PL-LES9	ARK-DF-SF2	4010
Z301A183065-VA1-9-4-4010	L301A-183065	ORB3-VA	ARK-C1-5A-30	ARK-IR-PL-LES9	ARK-DF-SF4	4010

O-10V

Order Code	LoDA	ORB	Cable	Inner Reflector	Diffuser/Holder	Firmware
Z301A183065-VD1-9-X-4010	L301A-183065	ORB3-VD	ARK-C1-5B-30	ARK-IR-PL-LES9	ARK-RH-SA*	4010
Z301A183065-VD1-9-2-4010	L301A-183065	ORB3-VD	ARK-C1-5B-30	ARK-IR-PL-LES9	ARK-DF-SF2	4010
Z301A183065-VD1-9-4-4010	L301A-183065	ORB3-VD	ARK-C1-5B-30	ARK-IR-PL-LES9	ARK-DF-SF4	4010

Casambi

Order Code	LoDA	ORB	Cable	Inner Reflector	Diffuser/Holder	Firmware
Z301A183065-VWC1-9-X-4010	L301A-183065	ORB3-VWC	ARK-C1-2A-30	ARK-IR-PL-LES9	ARK-RH-SA*	4010
Z301A183065-VWC1-9-2-4010	L301A-183065	ORB3-VWC	ARK-C1-2A-30	ARK-IR-PL-LES9	ARK-DF-SF2	4010
Z301A183065-VWC1-9-4-4010	L301A-183065	ORB3-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