

Reference Design Sheet – Y515D1840-VA1-28-D2-4010 (RGBWW LES28)

Performance Specifications:

Output	Input Voltage [V]	Wattage [W]	Lumens [lm]	Efficacy [lm/W]
Standard	24	67.7	5810	86

Note: All performance measurements taken @ 4000K, 100% intensity, 25°C ambient and no diffuser in use

Calibrated CCT Specs:

CCT [K]	Typical CRI
2700	81
3000	91
3500	91
4000	91
6500 (max)	81

Transmittance:

Diffuser	Transmittance
ARK-DF-SF2-DM28	82

Recommended Thermal Management Specifications:

Standard Output:

Thermal Interface Material: Thermal paste – PN: TC3-1G or equivalent. Thermal conductivity 8.50W/m-K.

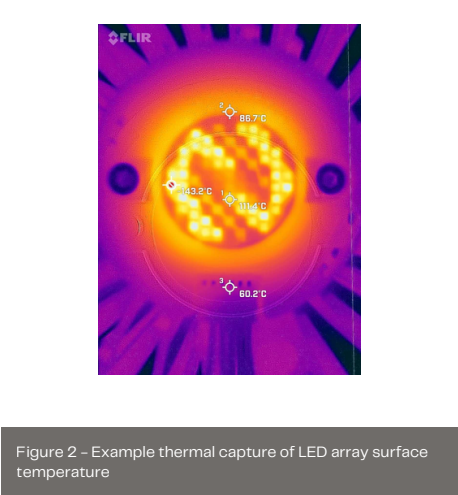
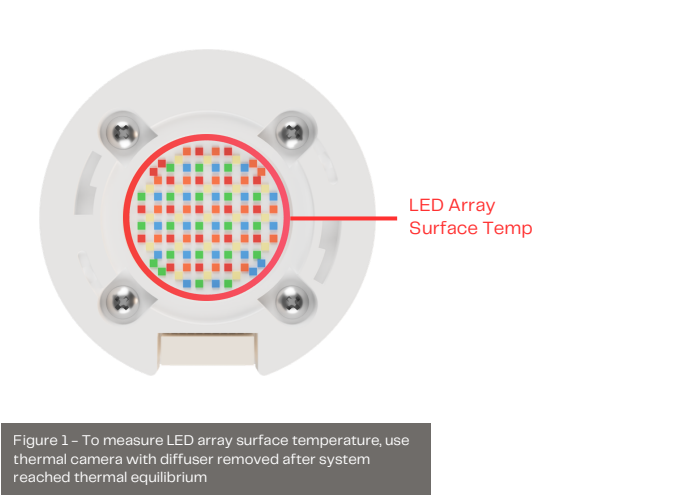
Heat Sink: Aluminum. Dissipated power(W): 95 – Thermal Resistance (°C/W): 0.52

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

Temperature Conditions*:

Output	Max T [°C]
Max LED Surface	145

*Refer to the ORB High Output System Thermal Testing Guideline application note in the Resource section: www.arkalumen.com/resources/



System Inclusions:

DMX/RDM

Order Code	LoDA	Holder	Diffuser	APT Controller	Firmware
Y505D2040-VA1-28-D2-4010	L515D-RGB1840	LES28	ARK-DF-SF2-DM28	APT-CV5-VA-SQ	4010

Other system combinations available (alternative control protocols, diffusers, cables). Contact Arkalumen for all options.