LumeLEX® 2000 Series
Ambient Operating Conditions – Revision ~

Ambient Operating Conditions

NOMINAL ROOM OPERATING TEMPERATURE = 77° Fahrenheit / 25° Celsius

MAXIMUM RATED AMBIENT TEMPERATURE = 95° Fahrenheit / 35° Celsius

The LM-79 Photometric (performance) Datasheet and LM-80 Reliability (life) Datasheet for LSI's LumeLEX® 2000 family product are based at a NOMINAL ROOM OPERATING TEMPERATURE of 77° Fahrenheit/ 25° Celsius.

However, knowing that not all environments are the same, LSI has also ensured that our product can perform and survive within a MAXIMUM RATED AMBIENT TEMPERATURE of 95° Fahrenheit / 35° Celsius.

There will be no degradation of the 50,000 hour life, when the LumeLEX® 2000 operates in an ambient environment that is above the NOMINAL TEMPERATURE (77° F), but below the MAXIMUM TEMPERATURE (95° F).

However, due to the effects of the temperature on the driver and the LED's, there will be up to 2% degradation in the Lumen Output of the product. For example, if at nominal (77° F) ambient a specific fixture would operate at 860 Lumens, the same fixture at maximum (95° F) ambient would operate at only 843 Lumens, however it will remain within all other specifications – no impact to color temperature (CCT), or color rendering (CRI).

Note – at ambient temperatures that exceed the MAXIMUM RATED AMBIENT TEMPERATURE, the fixture will still operate, but in a much more degraded state. If the LED fixture experiences excessive ambient operating temperatures above the MAXIMUM RATED AMBIENT TEMPERATURE, there is an over-temperature device that will permanently record this.

No warranties will be honored if the over-temperature device shows that the fixture operated in an ambient environment over 95° Fahrenheit/ 35° Celsius.