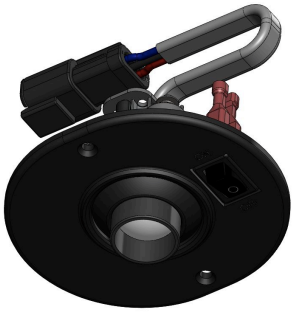
ULF33000 Series Data Sheet Rev 0
902-00055(0)

ULF33000 Series – Map Light



The OptoElectronix™ ULF33000 Series was designed for installation inside a vehicle for use as a map light. Unit is fully integrated with adjustable eyeball and limited variable focus.
The power input to the ULF33000 is typically from the vehicle's battery.

Features

- Dual color – White/Cyan for use with Night Vision Imaging System (NVIS)
- High reliability LEDs
- Wide operating voltage range
- No filaments, vibration proof suitable for off-road vehicles
- Dust proof: IP5x

Key Applications

The ULF33000 was specifically designed for use as a map light in a vehicle. It emits White light as well as in Cyan making it possible to be used with NVIS.
Typical operating voltage is 24V DC, but to cater for variations of voltages in a vehicle the unit can operate from 10V to 36V DC. Unit has an On-Off switch. Input connections are through a Deutsch connector. Refer drawing for wire configuration.

Thermal Management

The ULF33000 was designed using thermal profiling and simulation so that the LEDs and components are operated significantly below the maximum specification limits, ensuring prolonged life-span even at ambient temperature of up to +50°C.

Certifications

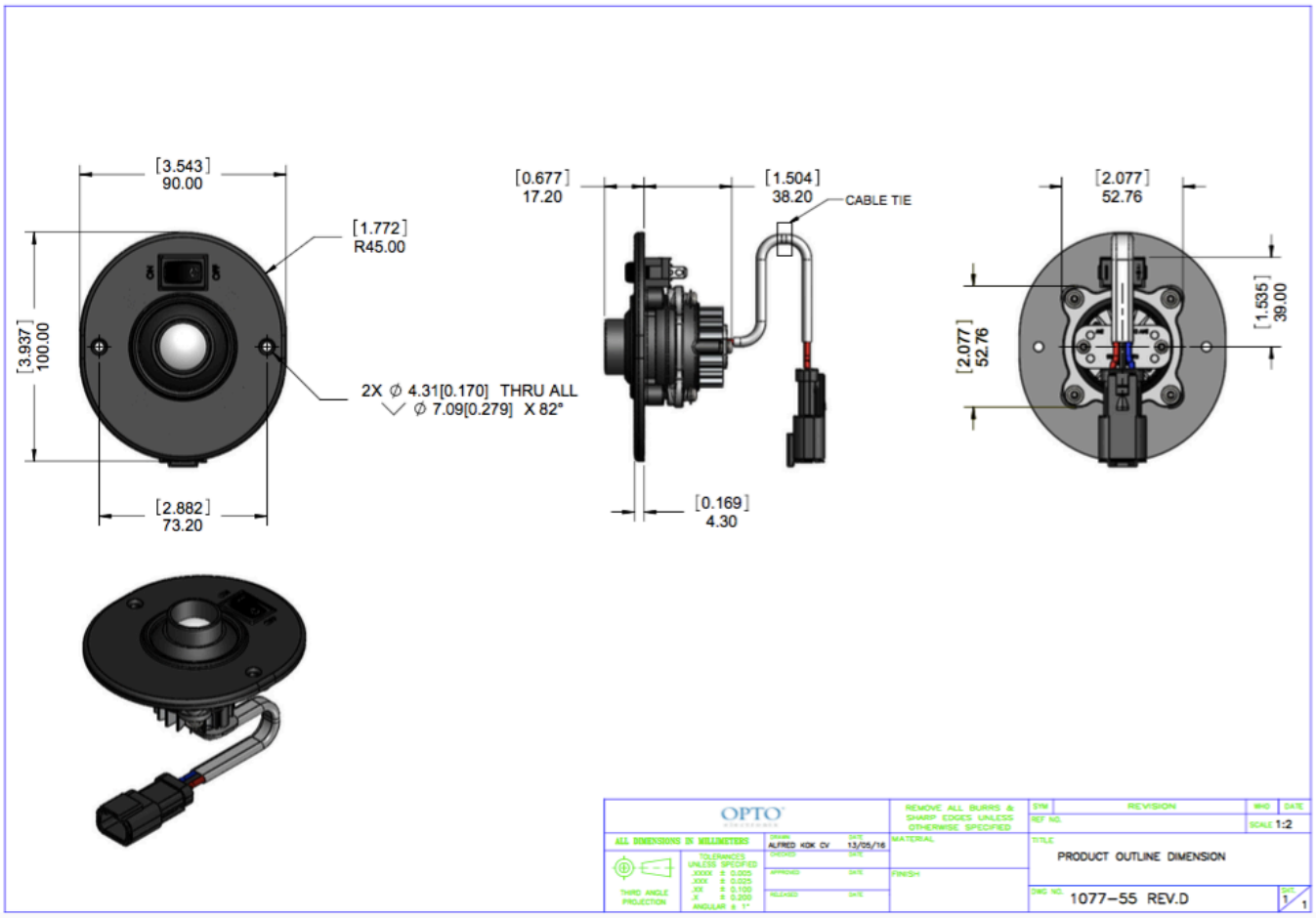
IESNA LM80-08: LEDs used comply with LM80-08
RoHS: Compliant

Mechanicals

[inches]

mm

Recommended Mounting :
Screw: Flat Head Philip #6-32 UNC or equivalent
Seating Torque: 1.0Nm



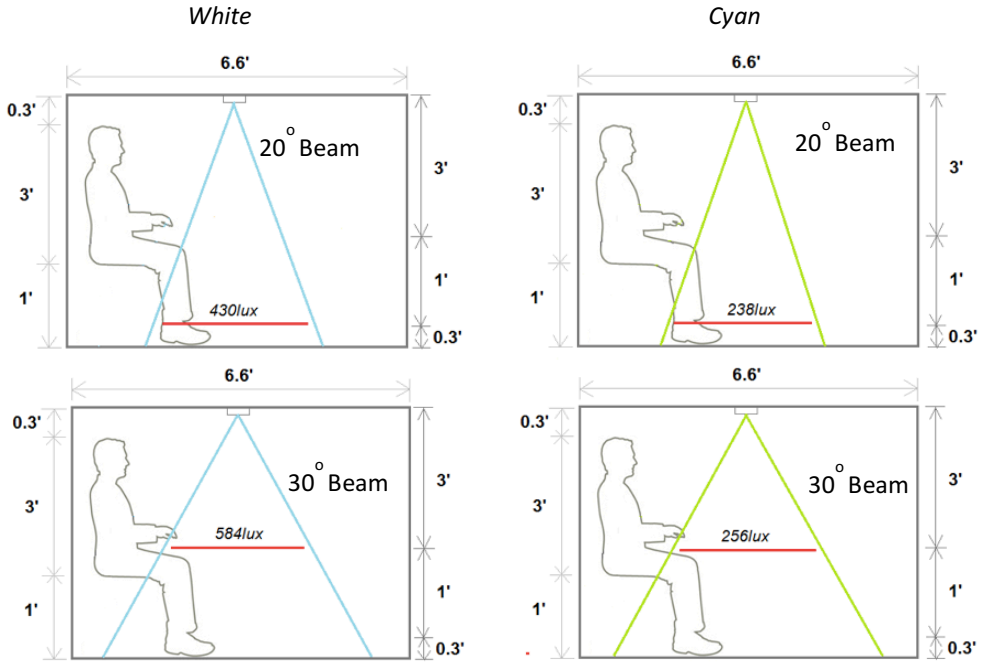
Product Specifications

ULF326VW K65C70W505		
Input Voltage DC (typical)	volts	24 (range 10 to 36)
Input Power (typical)	watts	3.3 (White) 4.3 (Cyan)
Luminous Flux (White)	lumens	140
Color Temperature (White)	^{o}K	6500
Color Rendering Index (CRI)		70
Luminous Flux (Cyan)	lumens	65
Wavelength (Cyan)	nm	505
Beam Angle	degrees	20 to 30 variable

Environmental Specifications	
Operating Temperature	-30^{o}C to +50^{o}C
Thermal Management	Self Cooled, no additional heat sinking required
Lumens Maintenance at L70	>35,000 hours (per LM80/TM21)
Warranty	35,000 hours or 5 years whichever comes first

Photometrics

Illuminance performance when the map light is mounted at 51.6 inches for light beams at 20 degrees and 30 degrees shown below.



Cone Diagram