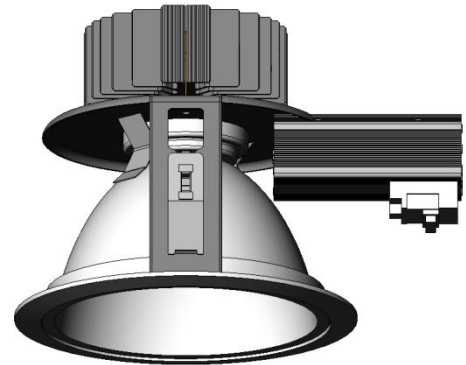


## **NeoBulb Macro II-A14W**



**NeoBulb Macro II-A14W** series is available in six different light colors such as white, warm white, amber, red, green, and blue. **NeoBulb Macro II-A14W** series is perfect for down lighting in hotels, shopping malls, retails, hospitals, residential areas and more. It can highlight important task areas and provides innovative and energy-efficient solutions for the designers and end users.

**NeoBulb Macro II-A14W** as well as entire NeoBulb product lines are ingeniously engineered LED lighting devices that are designed based on the proprietary NeoPac Universal Platform (NUP). Empowered by this structural LED technological platform, all NeoBulb products can operate at ultra-high power with high luminous flux, low junction temperature ( $T_j$ ) and have outstanding performance with long predictable reliable life.

### ■ **Features**

- Suitable for offices, hotels, shopping malls, retails, hospitals and show room, etc.
- Plug-and-Play for easy installation
- NeoBulb System-In-Package LED light engines
- Point-Like-Source to provide a bright light beam
- Ultra-High-Power LEDs with safe junction temperatures
- Excellent thermal management to ensure LEDs performance
- Constant current driver mode for steady power supply
- Effective heat dissipation by back-end natural convection
- Energy saving, more efficient than Incandescent and Halogen lamps
- Useful life time at over 50,000 hours
- Cut out size:  $\phi 150\text{mm}$
- 14 W Available
- Light color - White / Warm White
- CE compliant
- International RoHS “green product” design compliance

■ **Specifications**

● **Electrical and Optical Ratings**( $T_{ambient} = 25^{\circ}C$ )

Items	White	Warm White
LED Junction Temperature ( $T_j$ )	60°C	60°C
Sys. Thermal Resistance ( $R_{ja}$ )(°C/W)	2.5	2.5
Operating Temperature ( $T_{op}$ )	-20~45°C	
Storage Temperature ( $T_{stg}$ )	-40~+80°C	
Power Supply	AC Universal/DC24V	
Voltage Range	AC 100 ~240V, 50 ~60Hz	
Input AC Current (mA)	285 ~140	
Power Dissipation ( $P_d$ )	14 W	14 W
Initial Luminous Flux ( $\Phi$ )(lm)	840	630
LEDs Maintained Luminous Flux (lm)	775	575
Lighting Fixture Luminous Flux (lm)	660~700	490~520
Beam Pattern/Beam Angle ( $\theta$ )	Wide(80°) & Narrow(26°)	
CCT (K) / Wavelength ( $\lambda$ )-nm	5000k~7000k	2800k~3200k
CRI	>75	>65
Housing Material	Al Alloy Base	
Dimension(LxWxH)	L225 x W178 x H151.5mm	
Weight (Approx.)	750g	

**Remarks:**

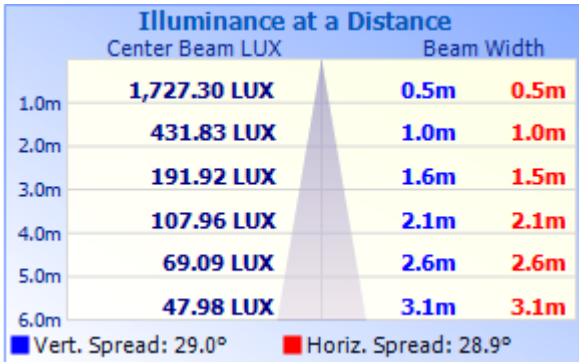
1. Deviation +/- 10% for all listed data

## Preliminary Technical Data Sheet

### ■ Illuminance Distribution Vs. Distance

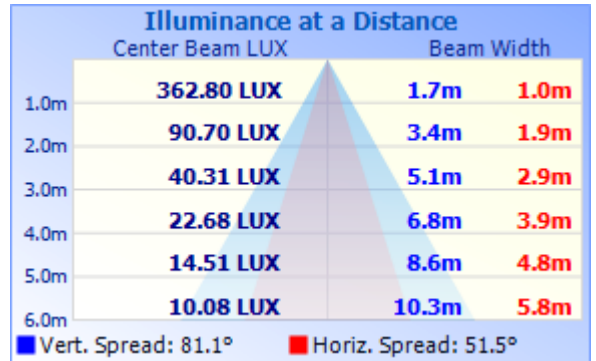
#### ◆ Narrow (26°) Beam (Max.) Distribution

##### ◆ White Color



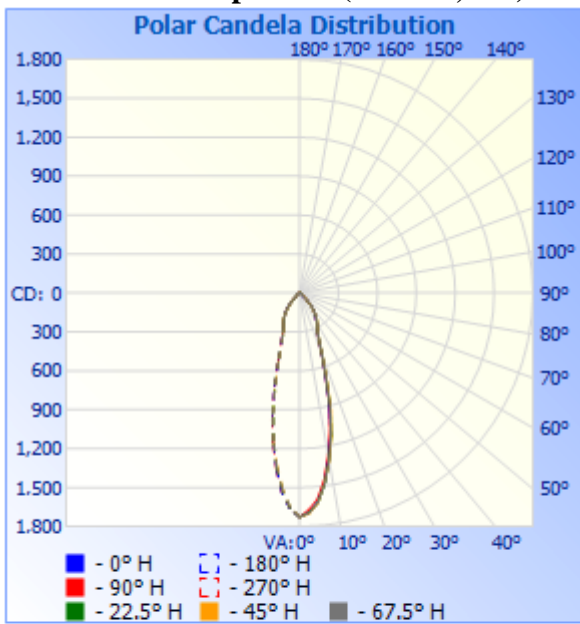
#### Wide (80°) Beam (Max.) Distribution

##### White Color



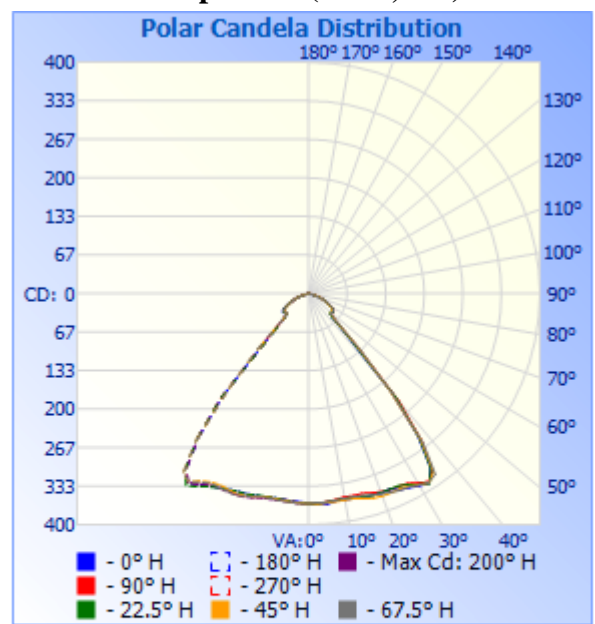
### ■ Photometric Data

#### I. Beam pattern (Narrow, 26°)



	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	86%	610.7	76.1	76.5
Beam (50%):	34%	241.5	28.9	29
Total:	102.5%	727.7		

#### II. Beam pattern (Wide, 80°)

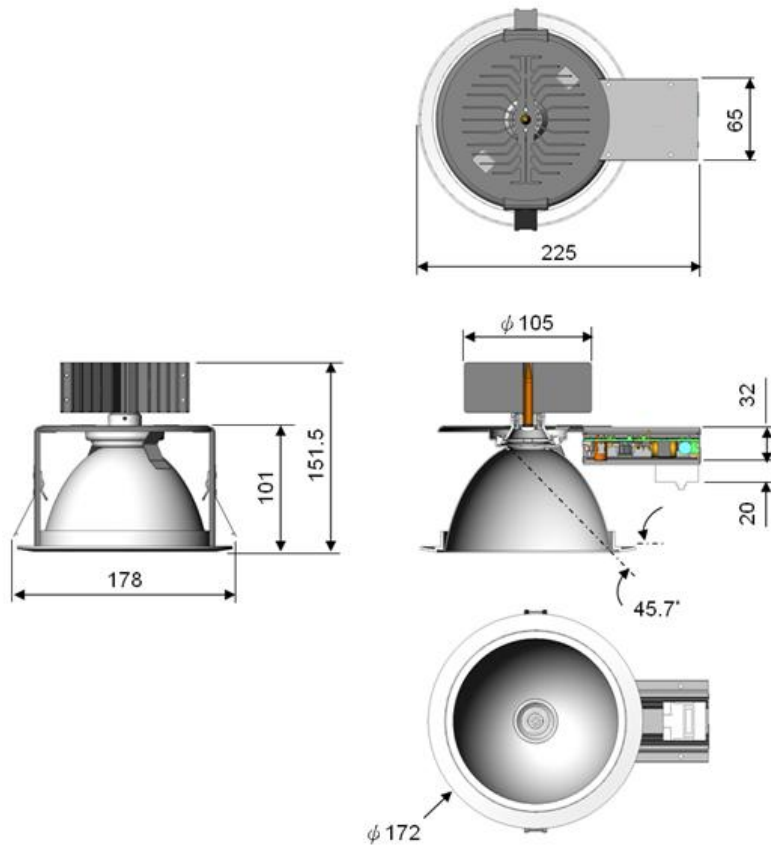


	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	96.8%	648.8	113	125.2
Beam (50%):	79.4%	531.8	51.5	81.1
Total:	101.9%	682.9		

### Note:

- 1) Warm white color illuminance distribution at different heights could get from white color illuminance distribution diagram multiplying by a factor of 0.78 both for narrow beam and wide beam.

■ Drawings :



Dimensional Units: mm