

# Westire 8481, 8481H & 8483

LONGLIFE PHOTOCELLS

The most accurate multi volt dusk to dawn outdoor lighting control photocells in the world for **cost & energy savings**



8481  
NEMA/ANSI



8481H  
Wired



8483  
North Facing

## Accuracy

The Westire 8481, 8481H & 8483 North Facing Longlife photocell utilises Westire's Eye Response filter silicon light sensor and microprocessor control. This accurate combination provides the best energy saving and reliable operation.

## Longevity

Engineered in the EU with a 35 year design life and manufactured in-house using only high quality, name brand components, the Longlife photocells are renowned in the industry for their unparalleled quality and reliability.

## Features & Benefits

- Designed for modern light sources like LED, Induction, Plasma, HPS, HID and many more.
- Capable of operating on voltages from **105 V to 305 V 50/60 Hz**.
- Energy efficient design with an average power consumption < 0.25 watts.
- Westire Patented **Relay Assisted Triac (RAT)** switching technology protects the relay from in-rush current.
- Polycarbonate housing is ultrasonically welded, UV stabilized and rated to **IP68**.
- Conical cover is self cleaning.
- A full electrical and **48 hour operational burn-in test** is performed on every photocell before leaving the factory.
- Intertek ETL listed and RoHS compliant.
- Available with up to 840 Joule MOV protection on request.
- Hard-wired version is also available - the Westire 8481H.
- Various photocell colours available on request.
- **Westire 8483** available for north facing orientation.



General		Environmental	
Dimensions - 8481 & 8481H	77.5 mm D x 76.8 mm H 3.05" D x 3.02" H	Operating Temperature	-40° C to +80° C -40° F to +176° F
Dimensions - 8483	78.4 mm D x 61 mm H 3.08" D x 2.40" H	Enclosure Protection Rating	IP68
Connection	NEMA 3/5/7 Pin ANSI 136.10	Standards Compliance	Environmental RoHS, EN55015, EN61547, EN6100-3-2, EN6100-3-3, ETL UK 773, CSA 22.2. IS EN ISO 9002: 2015, ANSI C136.10, BS 5972
Warranty	12 Years (20 Years warranty option plan available)		
Power		Switching	
Mains Supply	105 - 305 Volts AC 50/60 Hertz	Switching Levels	1.5fc On to 2.25fc OFF 16.1 Lux On - 24.2 Lux OFF or as specified.
Surge Protection	Standard: 132J 4.5kA Optional: 320J 12kA or 420J 20kA (Configurations available up to 840 Joules)	Switching Accuracy	+/- 7% Evening regardless of cloud cover or infrared radiation
Average Power Consumption	<350 mW nominal	Switching Ratio	1 - 1.5. Other ratios available on request
		Ambient Light Sensor	Eye Response IR filtered silicon light sensor
		Switching Time Delay	0 to 25 Seconds, Other Time

## Applications

- Street & road lighting
- Security lighting
- Flood lighting
- Campus & all types of facilities outdoor lighting
- All types of industrial outdoor lighting
- Airport perimeter lighting
- Farmyard outdoor lighting
- The 8481H is ideal for hard wiring a photocell into a lighting luminaire in security or severe vandalism areas.
- 8481 & 8481H photocells are easily fitted to westire's pole or wall mounting brackets & socket Kits.
- The 8483 north facing is ideal for use in areas with artificial light source.

## Dimensions

