



**Helios**

# An innovative classic

Philips Helios roadway luminaire series with *Smartseal* technology

**PHILIPS**

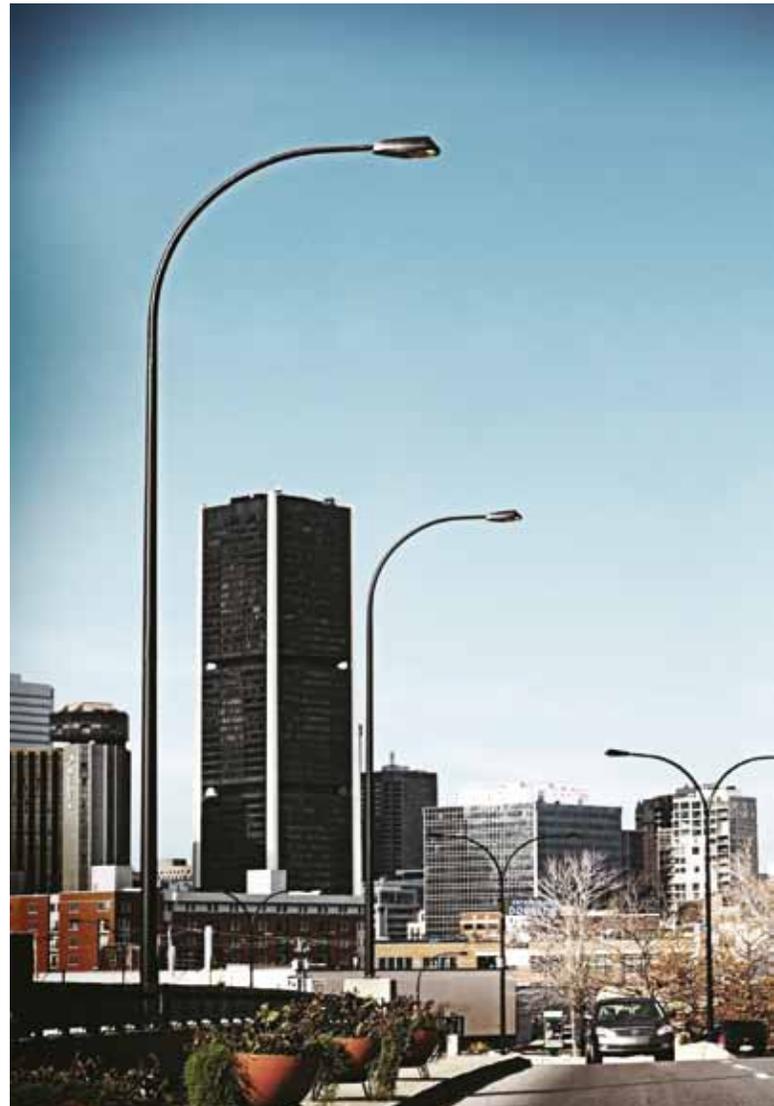
# Innovative solutions, sustainable performance.

## Versatility

A new twist on this classic and recognizable shape yields a stately architectural achievement. The bold shape and clean lines of the luminaire enhance the design while the interior of the luminaire showcases a tool free access system and Smartseal™ (IP66) optics which assures ease of maintenance, optimal photometric performance, and long life. Highly decorative and providing design versatility with a variety of mounting options, the distinctive all aluminum housing of this luminaire is produced from an alloy with a low copper content that assures a longer life. It has been designed to provide superior mechanical resistance to vibrations and wear under extreme conditions. The Helios is the perfect luminaire for high-traffic projects such as highways and city streets.

## Practicality

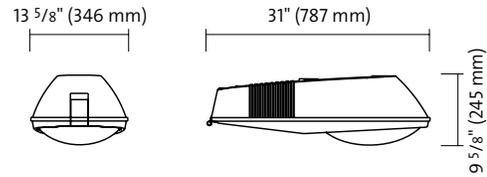
A simple quarter-turn of the sealed shutter provides easy access to the lamp. Quick disconnect terminals between the lamp and the ballast tray ensure safe and easy lamp replacement. A latch located on top of the luminaire opens the hood, which can then be pivoted along an incorporated hinge making maintenance a breeze and saving manpower hours.



# Lamps/HID

Wattage	HBS type	HBM type
70 MH, medium	ED17	ED17
100 MH, medium	ED17 ED23 ½	ED17
150 MH, medium	ED17 ED23 ½	ED17
70 HPS, mogul	ED23 ½	ED23 ½
100 HPS, mogul	ED23 ½	ED23 ½
150 HPS, mogul	ED23 ½	ED23 ½
200 HPS, mogul	ED18	ED18
250 HPS, mogul	ED18	ED18
310 HPS, mogul	N/A	ED18
400 HPS, mogul	N/A	ED18
175 PSMH, mogul	ED28	ED28
250 PSMH, mogul	ED28	ED28
400 PSMH, mogul	N/A	ED28

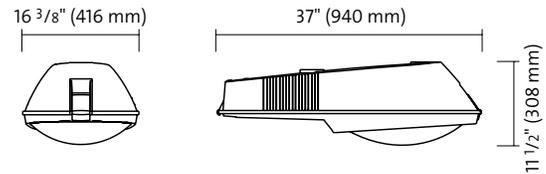
# Physical characteristics



### HBS

**SAG LENS OPTICS**  
EPA: 1.47 sq. ft.  
Weight: 27 lbs

**FLAT LENS OPTICS**  
EPA: 1.40 sq. ft.  
Weight: 26 lbs



### HBM

**SAG LENS OPTICS**  
EPA: 1.59 sq. ft.  
Weight: 32 lbs

**FLAT LENS OPTICS**  
EPA: 1.52 sq. ft.  
Weight: 31 lbs

# Lamps/eHID

Wattage	HBS type	HBM type	CCT
60 CW	T9	N/A	2800K
90 CW	T9	N/A	2800K
140 CW	T9	N/A	2800K
210 MCE	N/A	T12	3000K * 4200K
315 MCE	N/A	T12	3000K * 4200K

\* 3000K standard

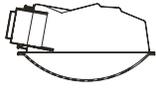
# Lamps/QL

Wattage	HBS type	HBM type
55 QL	✓	
85 QL	✓	
165 QL		✓

High frequency generator for induction lamp (4000K). Instant start. Operating range 50-60 Hz or DC. Lamp minimum starting temperature -40F (-40 C).  
✓ = available



# Optical systems / HID and eHID



## SAG lens optics

Hydroformed reflector permanently sealed on a sag tempered-glass lens.

## HBS

**MC2:** Medium cut-off (II)  
**MC3:** Medium cut-off (III)  
**MS2:** Medium semi cut-off (II)  
**SC1:** Short cut-off (I)  
**SC2:** Short cut-off (II)  
**SC3:** Short cut-off (III)

## HBM

**MC2:** Medium cut-off (II)  
**MS2:** Medium semi cut-off (II)  
**MN2:** Medium non cut-off (II)  
**MN3:** Medium non cut-off (III)



## Flat lens optics

Hydroformed reflector permanently sealed on a flat tempered-glass lens.

## HBS

**SC1F:** Short cut-off (I)  
**SS2F:** Short semi cut-off (II)  
**MN3F:** Medium none cut-off (III)  
**MS3F:** Medium semi cutoff (III)  
**MC1F:** Medium cutoff (I)  
**MC2F:** Medium cutoff (II)  
**MC3F:** Medium cutoff (III)

## HBM

**MC2F:** Medium cut-off (II)  
**MC3F:** Medium cut-off (III)

\* Lamps not included on HID. Lamps included on eHID.

Photometry available on Philips Roadway Lighting website [www.philips.com/roadwaylighting](http://www.philips.com/roadwaylighting). Consult factory for additional distribution.

# Voltage / HID Voltage / eHID

120 / 208 / 240 / 277 / 347 / 480

CW 120 / 208 / 240 / 277

\*Multi-tap ballast also available.

MCE 208 / 240 / 277

# Optical systems / QL

## HBS :

### SAG LENS optics



Hydroformed reflector permanently sealed on a sag tempered-glass lens.

**SC3:** Short cut-off (III)

## HBS/HBM :

### PRISMATIC LENS optics



Hydroformed reflector permanently sealed on a sag acrylic lens.

**SA:** Short semi cut-off (III)

\* Lamps included. Photometry available on Philips Roadway Lighting website [www.philips.com/roadwaylighting](http://www.philips.com/roadwaylighting).

# Voltage / QL

120 / 208 / 240 / 277



# Luminaire options

- BL** Bubble level
- HDB** Heavy duty block connector
- HS** House shield
- PH8** Photoelectric cell
- RC** Receptacle for a twist-lock photoelectric cell or a shorting cap
- SP** Line surge protection
- SQD** Starter with quick disconnect
- STB** Anti-vibration kit
- STP** Protective starter



# Finishes

The specially formulated Lumital powder coat finish is available in white, grey, black and bare. Additional colors are available. Consult factory for complete specifications.

# Maintenance



## Access to lamp

A simple quarter-turn of the sealed shutter provides easy access to the lamp. Quick-disconnect terminals between the lamp and the ballast tray ensure safe and easy lamp replacement.



## Access to ballast

The tool free drop-in unitized ballast tray is slipped into the ballast box which rests on the optical support plate. The use of quick-disconnect terminals ensures safe and easy ballast maintenance.





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Philips Roadway Lighting  
10275 W. Higgins Road  
Rosemont IL 60018  
Tel: 847-390-5111 Fax: 847-332-0305  
Customer Support/Technical Service: 847-390-5111  
[www.philips.com/roadwaylighting](http://www.philips.com/roadwaylighting)  
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