



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 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.

Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Lamps: _____ Qty: _____
 Notes: _____

Ordering guide

example: HBS-70HPS-ED23.5-MC2-347-CWI-STB-NF

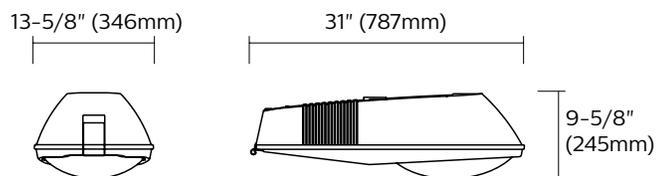
Luminaire	Lamp	Optical System	Voltage	Options	Finish	
HBS	HID Lamp	Type	HID			
	100 MH mogul	ED23½	Sag Lens Optic	120	BL Bubble level	WH White
	150 MH mogul	ED23½	MC2 Medium cut-off (III)	208	HDB Heavy duty block connector	BK Black
	70 HPS mogul	ED23½	MC3 Medium cut-off (II)	240	HS House Shield	NF No finish
	100HPS mogul	ED23½	MS2 Medium semi-cut-off (II)	277	PH8 Photoelectric cell	GY3 Gray
	150 HPS mogul	ED23½	SC1 Short cut-off (I)	347	RC Receptacle for a twist-lock photoelectric cell or a shorting cap	NP Bare
	200HPS mogul	ED18	SC2 Short cut-off (II)	480	SP Line surge protection	
	250 HPS mogul	ED18	SC3 Short cut-off (III)	Multi-tap 120-277	SDQ Starter with quick disconnect	
	175 PSMH mogul	ED28	MS3 Medium semi cut-off (III)	Multi-tap 347-480	STB Anti-vibration kit	
	250 PSMH mogul	ED28	Flat Lens Optics		STP Protective Starter	
			SC1F Short cut-off (I)			
			SC2F Short cut-off (II)			
			SC3F Short cut-off (III)			
			SS2F Short semi cut-off (III)			
			MS2F Medium semi cut-off (II)			
			MS3F Medium semi cut-off (III)			
		MC1F Medium cut-off (I)				
		MC2F Medium cut-off (II)				
		MC3F Medium cut-off (III)				

Lamps not included on HID. Lamps included on eHID and QL. Not all optics available with all lamps. Please contact factory for verification of lamp and optical combinations. Specifications subject to change without notice.

HBS Helios

Cobra Head

Dimensions



Sag Lens Optics

Weight: 27 lbs

EPA: 1.47 sq. ft.

Flat Lens Optics

Weight: 26 lbs

EPA: 1.40 sq. ft.

Specifications

Lamp

Luminaire supplied with appropriate ballast.

Lamp holder

Porcelain thermo resistant pulse rated 4Kv mogul base.

Ballast / Driver

High power factor of 90%. Magnetic ballast for HPS and PSMH. Lamp starting capacity -40F (-40C) degrees for HPS, -20F(-30C) for MH. Assembled on a unitized removable tray with quick disconnect plug.

Ballast tray

Made of galvanized steel (18ga.), pivoting and easily removed without tools.

Housing

Made of die cast A383 Aluminum alloy 0.100 (2.54mm) minimum thickness with mounting provision for hardware.

Locking system

Three point spring loaded inter locking latch made of die cast A383 aluminum alloy. Permits tool free access to luminaire.

Spring

Made of 302 stainless steel wire, 1/8" (3mm) diameter. Holds lens frame captive and removed without tool.

Lens frame

Made of die cast A383 aluminum alloy.

Reflector

Made of hydroformed 3002-0 aluminum alloy chemically brightened and anodized (5 micron min). The Smartseal optical system is rated IP66.

Sleeve

Die cast glass reinforced resin, mechanically fastened to reflector and sealed with a silicone gasket.

Shutter

Injection molded glass fiber reinforced polymer. Removable with a quarter turn, with injection molded silicone gasket (duro 60 shore A). Adjustment to obtain the various IES distribution is tool less.

Lens

Flat protector and SAG lens made of clear tempered glass, 0.20" (5mm) thickness and shock resistant.

Terminal block

Receives wires (#8 max.) on primary circuit with ground lug.

Adjustment

An integral part of the housing permits an adjustment of $\pm 5^\circ$.

Bird guard

Prevents birds from entering the luminaire. Made of high density polyethylene 0.030" (0.8mm) thick and captive to the housing.

Mounting Mean

Two brackets, formed in a single piece, made of stamped galvanized steel (12ga.). Fits on a 1.9" (49mm) to 2-3/8" (60mm) OD tenon, fixed by 3/8" 16 UNC steel zinc plated bolts. Tenon penetration into the luminaire is 4" (102mm).

Identification label

Identifies the wattage and source according to ANSI standards.

Wiring

Luminaire wiring is done using a terminal block located inside the housing.

Hardware

All exposed screws shall be stainless steel with Ceramic primer-seal base coat to reduce seizing of the parts. All seals and sealing devices are made and/or lined with EPDM and/or silicone.

Finish

Application of a polyester powder coat paint. (4 mils/100 microns). The chemical composition provides a highly durable UV and salt spray resistant finish in accordance to the ASTM-B117-73 standard and humidity proof in accordance to the ASTM-D2247-68 standard. The specially formulated Lumital powder coat finish is available in white, black, gray and bare. Additional colors are available. Consult factory for complete specifications.

Vibration resistance

Meets the ANSI C136.31-2001 table 2, American National Standard for Roadway Luminaire Vibration specifications for Bridge/overpass applications.

Certification

cULus for wet locations.

