

H5-C-SERIES



ZGSM

SAVE TODAY'S ENERGY FOR TOMORROW



ISO9001
ISO14001
ISO50001



CE CB

RoHS
Compliant

LM-79
LM-80

IP66
IK10

7 YEAR
WARRANTY

LED STREET LIGHTS



Overview

The ZGSM® H5-C Series LED street lights are using PHILIPS LUMILEDS® luminous source, providing excellent lumen output, long-lasting stability and splendid sight.

The ZGSM H5-C Series LED street lights have a high luminous efficiency and better service life. Provide 7 years warranty on luminaire.

Color Options

■ Green ■ Black

HIGH-EFFICACY LED LIGHT SOURCE



Philips Lumileds 3030 2D
Greater than 150lm/W high efficacy, illumination grade LED light source.



Philips Lumileds 5050
Greater than 185lm/W high efficacy, illumination grade LED light source.

HIGH-END LED DRIVER (Two options)

+ NON-DIMMABLE



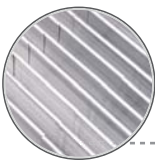
High-end Mean Well HLG Series LED driver, optimal stability, performance and lifespan.

+ DIMMABLE



High-end Inventronics programmable LED driver, integrate dimming function and 6KV /10KV surge protection. Provide excellent performance and lifespan.

AIR CONVECTION EFFECT



Reasonable heat sink design, not only keep ventilation but also avoid laceration.

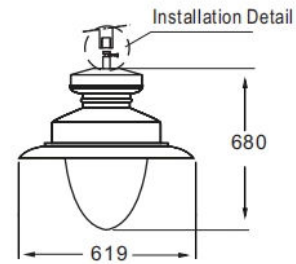


Gaps between each module increase heat dissipation speed and solve the problem of dust deposition.



Design

★ External Design



★ Design Features



Professional lens design, suitable for various applications.



Use German **WAGO** connectors for internal wiring, safe, convenient & fast.



Innovative pluggable connector, clean & efficient.

DETAILED FEATURES

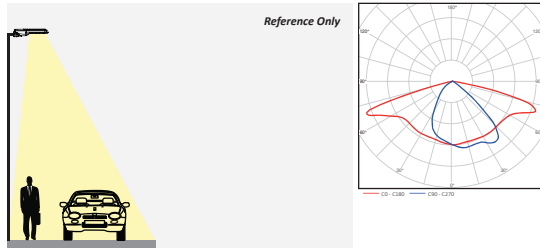
Electrical & Photometric

Product	ZGSM-LD100H5-C	ZGSM-LD150H5-C
LED Brand	Philips Lumileds 3030 2D or 5050	Philips Lumileds 3030 2D or 5050
Norminal Wa. age	100W	150W
LED Qty/ Current	3030 LED 128 pcs / 120 mA or 5050 LED 64 pcs / 61mA	3030 LED 192pcs / 120 mA or 5050 LED 96pcs / 58mA
Input Voltage	100-240V /277V AC 50 /60Hz	
Dimming	1-10V DC or PWM Signal or Timer	
Driver Brand	MeanWell HLG driver or d immable Inventronics driver	
Max. Current @ 120V	1.02A	1.54A
Max. Current @208V	0.59A	0.89A
Max. Current @240V	0.51A	0.77A
Max. Current @277V	0.45A	0.67A
Operating Temperature	-40 °C to +50 °C	
Power Factor(PF)	> 0.95	
THD	< 20%	
Lumen Output (+/- 5%)	3030 LED : 13000 lm or 5050 LED : 16000 lm	3030 LED : 19500 lm or 5050 LED : 24000 lm
Luminaire efficacy (+/- 5%)	3030 LED : 130 lm /w or 5050 LED : 160 lm/w	
Optic	3030 LED :1M, 2M, 3M, 2M-BLS, 5S	5050 LED :2M, 3M
CRI	> 70	
CCT	4000K (Nature White), 5000K (Pure White), 5700K (Cool White)	
Rating	IP66, IK08	
Material	Die-cast aluminum; acrylic	
Installation	Suspending	
Accessories (Optional)	/	
Shell Color	Green or Black	
Lumen Maintenance	> 100,000 hours-L ₇₀ at 25 °C	
Certif c a tions	CB, CE, ROHS, LM79, LM80, ISO9001, ISO14001	
Fixture Weight	12kg	
Packaging Weight	14kg	
Packaging Dimension	640*640*700mm	
Packaging Type	1 unit /ctn.	

* Luminous Efficacy of 3000K is 5% lower than other CCTs.

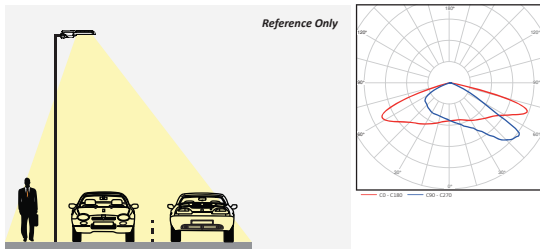
Multiple Light Distribution Options

Street light should fit with a wide range of applications, such as highway, express way, roadway, avenue, walking path or parking lot lightings. Considering this, ZGSM provides different light distribution lens for the H5-C Series street light to achieve best lighting effect in different applications. ZGSM follows the North American IESNA standard in providing the optional lens width, Type I, Type II, Type III and Type V. Type I is suitable for walking path with 1 lane, Type II is for 2 lanes and Type III is for even more wider road, Type V is for parking lot. ZGSM selects the most suitable lens for its customers according to the detailed parameters project by project.



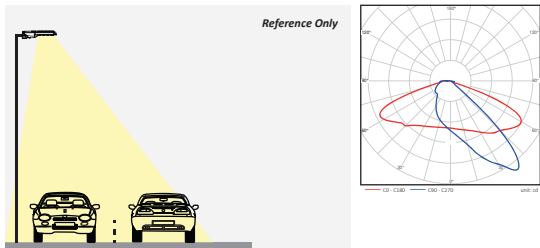
TYPE I

The Type I lens of ZGSM H5-C series street light has beam angle of 50°*160 degrees. In the IESNA Standard, The Type I distribution is great for lighting walkways, paths and sidewalks. It is generally applicable to where the mounting height is approximately equal to the roadway width.



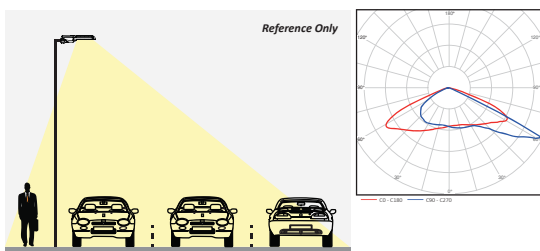
TYPE II

The Type II lens of ZGSM H5-C series street light has beam angle of 65°*155 degrees. In the IESNA Standard, the Type II distribution is used for wide walkways, on ramps and entrance roadways, as well as other long, narrow lighting. It is generally applicable to where the width of the roadway does not exceed 1.75 times the designed mounting height.



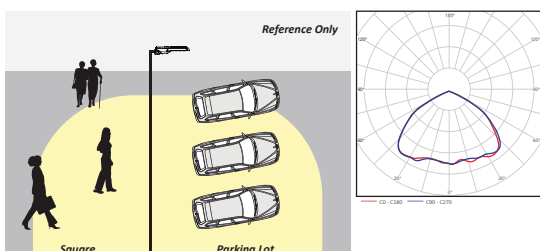
TYPE II BLS

The Type II BLS is a new light distribution developed based on Type II. BLS means back light shield. The light on the back of pole be reduced and the light in front of the pole be increased accordingly. It is generally applicable to where no need or need less light on the back of pole, such as residential area, high way, bridge and etc.



TYPE III

The Type III lens of ZGSM H5-C series street light has beam angle of 80°*160 degrees. In the IESNA Standard, the Type III distribution is meant for roadway lighting, general parking areas and other areas where a larger area of lighting is required. This distribution is intended for luminaires mounted at or near the side of medium width roadways or areas, where the width of the roadway or area does not exceed 2.75 times the mounting height.



TYPE V

The Type V lens of ZGSM H5-C series street light has beam angle of 110°*110 degrees. In the IESNA Standard, It is intended for luminaire mounting at or near center of roadways, center islands of parkway, and intersections. It is also meant for large, commercial parking lot lighting as well as areas where sufficient, evenly distributed light is necessary.

Surge Protection Device



Description

ZP-LSP series thermally protected Surge Protective Device is specially designed to be used in outdoor and commercial LED lighting fixtures for transient overvoltage protection. It is mainly composed of thermally protected varistors and gas discharge tube components. Its built-in thermal disconnect function provides additional protection to prevent catastrophic failure and fire hazard even under the extreme circumstances of varistor end-of-life or sustaining over voltage conditions. The product is connected with LED power driver to provide reliable lightning surge protection, which can effectively prolong the service life and stability of luminaires.




Features

- ◆ Applicable to class I or II luminaire
- ◆ Protection mode: L-N, L-PE, N-PE
- ◆ Built in thermal separation function, higher safety
- ◆ Parallel and series connection mode optional , with its own lead
- ◆ Excellent surge impact resistance and low residual voltage
- ◆ Miniature size and convenient for embedded installation
- ◆ IP67 Water-proof and Dust-proof.

Applications

- ◆ Street lighting
- ◆ Tunnel lighting
- ◆ Flood lighting
- ◆ Stadium lighting
- ◆ Port lighting
- ◆ Digital signage
- ◆ Gas station lighting
- ◆ AC-LED lighting
- ◆ Traffic lighting
- ◆ Industrial high bay lighting

Agency Approvals

Agency	Standard	File Number
	IEC 61643-11	On-going
	EN 61643-11	On-going
	GB/T 18802.11	On-going

Electrical Data

Product model	ZP-LSP20-PR	ZP-LSP20-PY	ZP-LSP20-SR
SPD according to IEC/EN61643-11...GB/T18802.11	Type2+Type3/Class II +ClassIII		
Nominal operating voltage/ U_n	100-277V(50/60Hz)	100-277V(50/60Hz)	100-277V(50/60Hz)
Max. continuous operating voltage/MCOV (U_c)	320V(50/60Hz)	320V(50/60Hz)	320V(50/60Hz)
Rated load current / I_L	-	-	8A
Nominal discharge current/ $I_n(8/20\mu s)$	10kA	10kA	10kA
Max. discharge current/ $I_{max}(8/20\mu s)$	20kA	20kA	20kA
Open-circuit voltage/ $U_{oc}(1.2/50\mu s \& 8/20\mu s)$	20kV	20kV	20kV
Voltage protection level/ $U_p(@I_n)$	$\leq 1.5kV(L-N, L/N-PE)$	$\leq 1.5kV(L-N, L/N-PE)$	$\leq 1.5kV(L-N, L/N-PE)$
Follow current extinguishing capability(N-PE)/ I_n	100Arms	100Arms	100Arms
Temporary overvoltage TOV/ $U_T(L-N)$	337V/5sec.-withstand	337V/5sec.-withstand	337V/5sec.-withstand
Temporary overvoltage TOV/ $U_T(L-N)$	442V/120min.-safe failure	442V/120min.-safe failure	442V/120min.-safe failure
Operating state/fault indication	on normally, off fault	on normally, off fault	on normally, off fault
Connecting wires	02 (RV) 1.5mm ²	H05RN-F 3×1.0mm ²	02 (RV) 1.5mm ²
Connection mode	Parallel connection	Parallel connection	Series connection
Enclosure material	Thermoplastic UL94-V0	Thermoplastic UL94-V0	Thermoplastic UL94-V0
Operating temperature range	-40℃~+85℃	-40℃~+85℃	-40℃~+85℃
Degree of protection	IP67	IP67	IP67
Product size	L62×W33.5×H19mm	L62×W33.5×H19mm	L62×W33.5×H19mm
Weight(one piece)	62g	71g	70g
Packing quantity	200pcs/CTN	200pcs/CTN	200pcs/CTN
Package size	L428×W222×H205mm	L428×W222×H205mm	L428×W222×H205mm