H4 /H5 -SERIES

reka LUX

UKAS QUALITY MANAGEMENT

ISO9001 ISO14001

FC

ENEC

INVENTRONICS
LED DRIVER inside

CE

RoHS Compliant

LM-80

IP66 IK10

LUMILEDS
The Brighter Choice

POWERED BY
MW MEAN WELL

5 YEAR WARRANTY

LED STREET LIGHTS

Overview

H4 /H5-Series LED street lights are using LUMILEDS® LUXEON 3030 2D luminous source, providing excellent lumen output, long-lasting stability and splendid sight.

H4 /H5-Series LED street lights have a high luminous efficiency and better service life. Provide 7 years warranty on luminaire.

Color Options

Silver Gray   Black

LED LUMINOUS SOURCE

LUMILEDS The Brighter Choice

LUXEON® NEVER BEFORE POSSIBLE

UL · RoHS Compliant

Greater than 150lm/W high efficacy, illumination grade LED light source.

LED DRIVER (Two options)

+ NON-DIMMABLE

POWERED BY **MW** MEAN WELL

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

+ DIMMABLE

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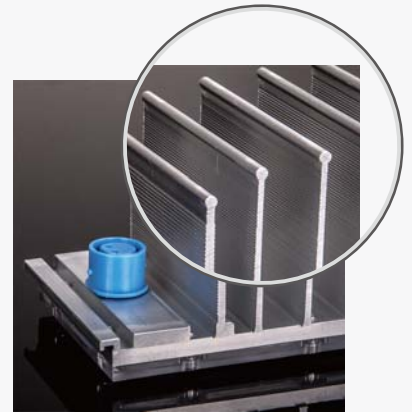
LED MODULE

Exquisite design with powerful thermal dissipation and IP67 waterproof performance.
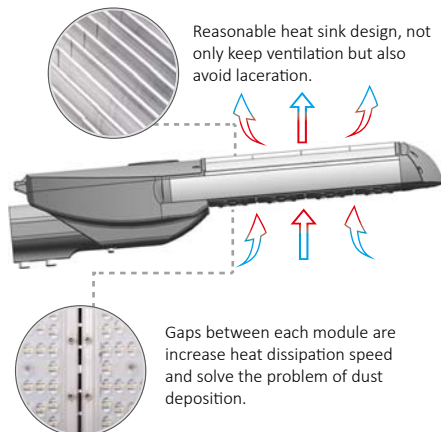
Overall stainless steel screws adopted.

Black & Silver Color Modules.

Cylindrical edge design, avoid cut risk.
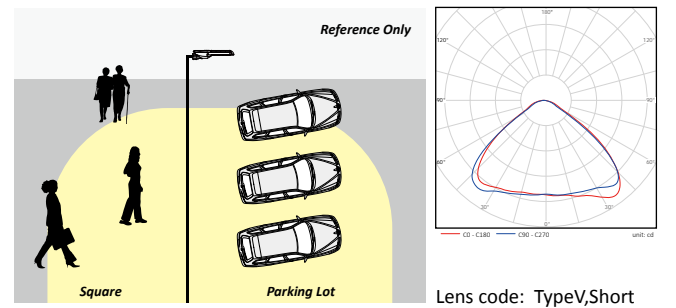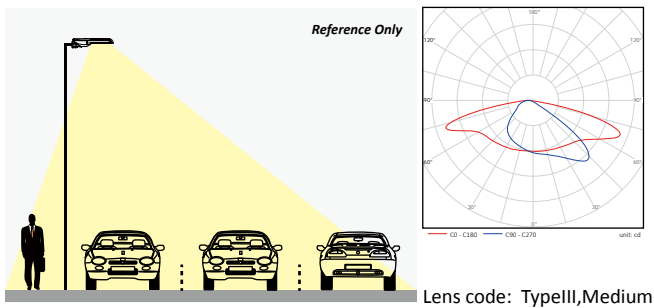
XTREME LUMINAIRE DESIGN

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

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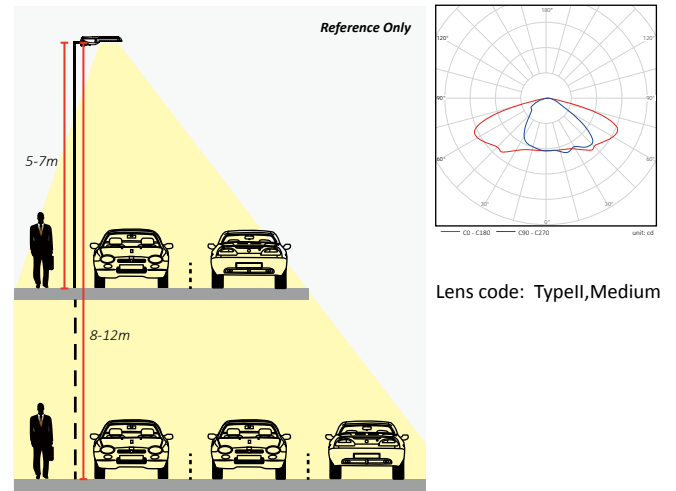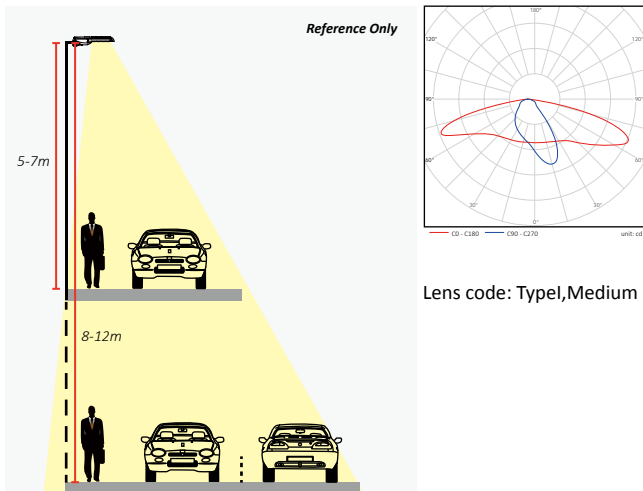
FLEXIBLE INSTALLATION

H0   H10   H15

V0   V5   V15

Innovative pole fitter design not only achieve the horizontal and vertical installation features, also has 0-15° adjustable function for each installation direction.

Application (Driverway width=3.5M):
Urban Main Roads | Highway | Parking Lot | Area

Reference Only

5-7m

8-12m

Lens code: TypeI,Medium

Reference Only

5-7m

8-12m

Lens code: TypeII,Medium

Reference Only

Lens code: TypeIII,Medium

Reference Only

Square   **Parking Lot**

Lens code: TypeV,Short

Professional lens design, suitable for various applications.

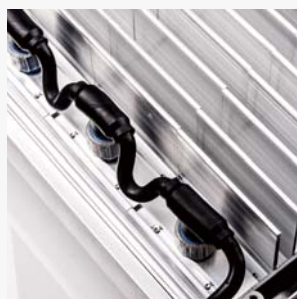Luminaire body is fixed by two M8x16 fortified stainless steel screws.

Rational clamshell design for wiring compartment, sturdy and durable.

Use stainless steel screws for whole luminaire, no corrosion worries.

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

Innovative pluggable connector, clean & efficient.

Neat inner cavity structure, ensure the thermal convection of LED driver.

Full aluminum made, sufficient heat dissipation area.

DETAILED FEATURES

- for Roads, Ecuador

- for Squares, UAE

- with Solar Power, France

- for Parking Lots, United Kingdom

- for Outdoor Warehouses, Austria
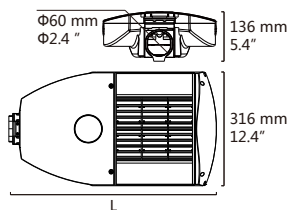

- for Wall Mounting, Sweden

Product	LD40H4	LD80H4	LD120H4	LD160H4	LD200H4
Nominal Wattage	40W	80W	120W	160W	200W
LED Working Current	95 mA	100 mA	100 mA	100 mA	100 mA
Number of Modules	1	2	3	4	5
Input Voltage	100-240V /277V AC 50 /60Hz				
Dimming	0-10V	0-5V, 0-10V, PWM, Timer			
LED Brand	Philips Lumileds 3030				
Driver Brand	Non-dimmable: MeanWell HLG Driver | Dimmable: Inventronics Driver				
Max. Current @ 120V	0.41A	0.82A	1.23A	1.65A	2.06A
Max. Current @208V	0.24A	0.47A	0.71A	0.95A	1.19A
Max. Current @240V	0.21A	0.41A	0.62A	0.82A	1.03A
Max. Current @277V	0.18A	0.36A	0.53A	0.71A	0.89A
Operating Temperature	-40 ºC to +50 ºC				
Power Factor (PF)	>0.95				
THD	<20%				
Lumen Output (+/- 5%)	5200 lm	10400 lm	15600 lm	20800 lm	26000 lm
Luminaire efficacy	130 lm /w	130 lm /w	130 lm /w	130 lm /w	130 lm /w
Optic	TypeI, Medium; TypeII, Medium; TypeIII, Medium; TypeV, Short				
CRI	>70				
CCT	4000K (Nature White), 5000K (Pure White), 5700K (Cool White)				
Rating	IP66, IK10				
Material	Housing: Die-cast aluminum; Heat sink: Stretched Aluminium Alloy; Lens: PC				
Installation	Horizontal and vertical installation for optional; Adjustable tilt angle: 0-10-15º				
Accessories (Optional)	Photocell; Surge Protection Device(6KV /10KV); Adapter for 40 /42mm pole mounting (Normal mounting Ø 60 mm)				
Shell Color	Silver (RAL9022) or Black (RAL9005), other RAL colors available on request				
Lumen Maintenance	> 75,000 hours-L$_{70}$ at 25 ºC				
Certifications	CE, ROHS, FCC, ENEC, LM80, ISO9001, ISO14001				
Packaging Type	1 unit /ctn.				

DIMENSION DATA

Φ60 mm
Φ2.4 "
136 mm
5.4"
316 mm
12.4"
L

Number of Modules	1	2	3	4	5
"L" Length	431 mm 17.0"	504 mm 19.8"	577 mm 22.7"	650 mm 25.6"	723 mm 28.5"
Weight	5.3 kg 11.7 lbs.	6.1 kg 13.4 lbs.	7.3 kg 16.1 lbs.	8.2 kg 18.1 lbs.	9.0 kg 19.8 lbs.

PACKAGING DATA

200 mm 7.9"
370 mm 14.6"
L

Number of Modules	1	2	3	4	5
"L" Length	480 mm 18.9"	555 mm 21.9"	630 mm 24.8"	705 mm 27.8"	780 mm 30.7"
Weight	6.3 kg 13.9 lbs.	7.3 kg 16.1 lbs.	8.6 kg 19.0 lbs.	9.6 kg 21.2 lbs.	10.6 kg 23.4 lbs.

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (54,000 Hours)	Theoretical L70 (Hours)
25 ºC	78.05%	82,000
40 ºC	78.99%	79,000
50 ºC	78.49%	75,000

*Visit "http://zgsm-china.com/product/Lighting/category/street-lights/series-h2" for TM-21 Report

DC INPUT VOLTAGE (OPTIONAL)

Model	Input Voltage	Max. Current
ZGSM-LD40H4	12V/24V	4.12A @12V, 2.06A @24V
ZGSM-LD80H4	24V	4.12A @24V

Product	LD50H5	LD100H5	LD150H5	LD200H5	LD240H5
Nominal Wattage	50W	100W	150W	200W	240W
LED Working Current	115 mA	120 mA	120 mA	120 mA	120 mA
Number of Modules	1	2	3	4	5
Input Voltage	100-240V /277V AC 50 /60Hz				
Dimming	0-10V	0-5V, 0-10V, PWM, Timer			
LED Brand	Philips Lumileds 3030				
Driver Brand	Non-dimmable: MeanWell HLG Driver | Dimmable: Inventronics Driver				
Max. Current @ 120V	0.51A	1.03A	1.54A	2.06A	2.57A
Max. Current @208V	0.30A	0.59A	0.89A	1.19A	1.48A
Max. Current @240V	0.26A	0.51A	0.77A	1.03A	1.29A
Max. Current @277V	0.22A	0.45A	0.67A	0.89A	1.11A
Operating Temperature	-40 ºC to +50 ºC				
Power Factor (PF)	>0.95				
THD	<20%				
Lumen Output (+/- 5%)	6250 lm	12500 lm	18750 lm	25000 lm	30000 lm
Luminaire efficacy	125 lm /w	125 lm /w	125 lm /w	125 lm /w	125 lm /w
Optic	TypeI, Medium; TypeII, Medium; TypeIII, Medium; TypeV, Short				
CRI	>70				
CCT	4000K (Nature White), 5000K (Pure White), 5700K (Cool White)				
Rating	IP66, IK10				
Material	Housing: Die-cast aluminum; Heat sink: Stretched Aluminium Alloy; Lens: PC				
Installation	Horizontal and vertical installation for optional; Adjustable tilt angle: 0-10-15º				
Accessories (Optional)	Photocell; Surge Protection Device(6KV /10KV); Adapter for 40 /42mm pole mounting (Normal mounting Ø 60 mm)				
Shell Color	Silver (RAL9022) or Black (RAL9005), other RAL colors available on request				
Lumen Maintenance	> 75,000 hours-L$_{70}$ at 25 ºC				
Certifications	CE, ROHS, FCC, LM80, ISO9001. ISO14001				
Packaging Type	1 unit /ctn.				
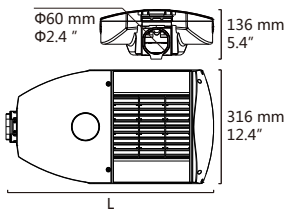
DIMENSION DATA

Φ60 mm
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*Visit "http://zgsm-china.com/product/Lighting/category/street-lights/series-h2" for TM-21 Report

PACKAGING DATA
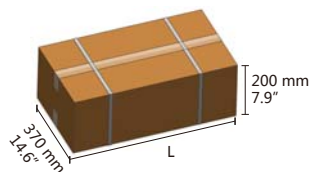
200 mm
7.9"
370 mm
14.6"
L

Number of Modules	1	2	3	4	5
"L" Length	480 mm 18.9"	555 mm 21.9"	630 mm 24.8"	705 mm 27.8"	780 mm 30.7"
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DC INPUT VOLTAGE (OPTIONAL)

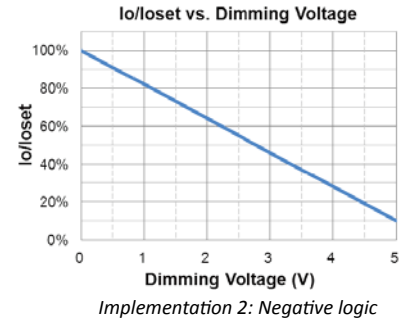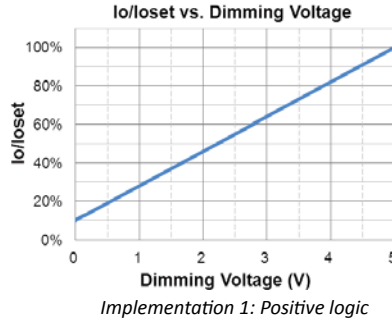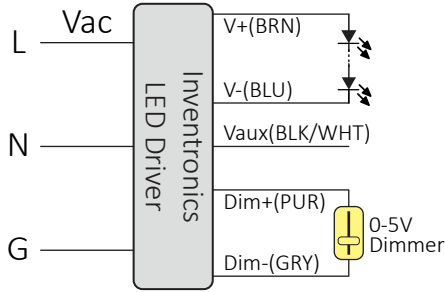| Model	Input Voltage	Max. Current
ZGSM-LD50H5	12V/24V	5.14A @12V, 2.57A @24V
ZGSM-LD100H5	24V	5.14A @24V

Dimming

Multiple dimming functions are integrated (0-5V DC or 0-10V DC or PWM Signal or Timer).

† *0-5V Dimming*
The recommended implementation of the dimming control is provided below.

Implementation 1: Positive logic
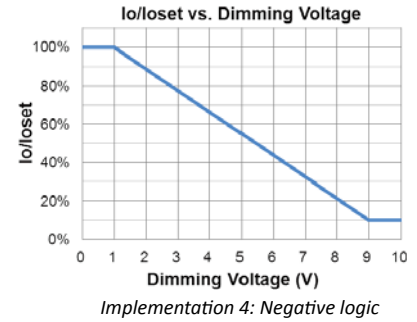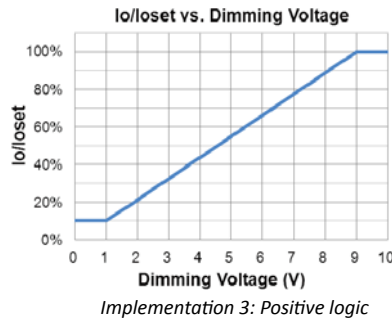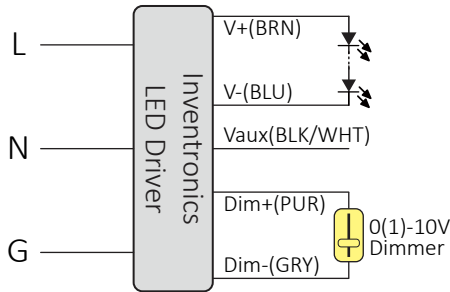
Implementation 2: Negative logic

Notes:

1. The dimmer can also be replaced by an active 0-5V voltage source signal or passive components like resistors and zener.
2. Do NOT connect Dim– to the output V– or V+, otherwise the driver will not work properly.
3. If 0-5V dimming is not used, Dim + should be open.
4. When 0-5V negative logic dimming mode and Dim+ is open, the driver will output maximum current.

† *0-10V Dimming*
The recommended implementation of the dimming control is provided below.

Implementation 3: Positive logic

Implementation 4: Negative logic

Notes:

1. The dimmer can also be replaced by an active 0-10V voltage source signal or passive components like resistors and zener.
2. Do NOT connect Dim– to the output V– or V+, otherwise the driver will not work properly.
3. If 0-10V dimming is not used, Dim + should be open.
4. When 0-10V negative logic dimming mode and Dim+ is open, the driver will output maximum current.

† *PWM Dimming*
The recommended implementation of the dimming control is provided below.

Implementation 5: Positive logic
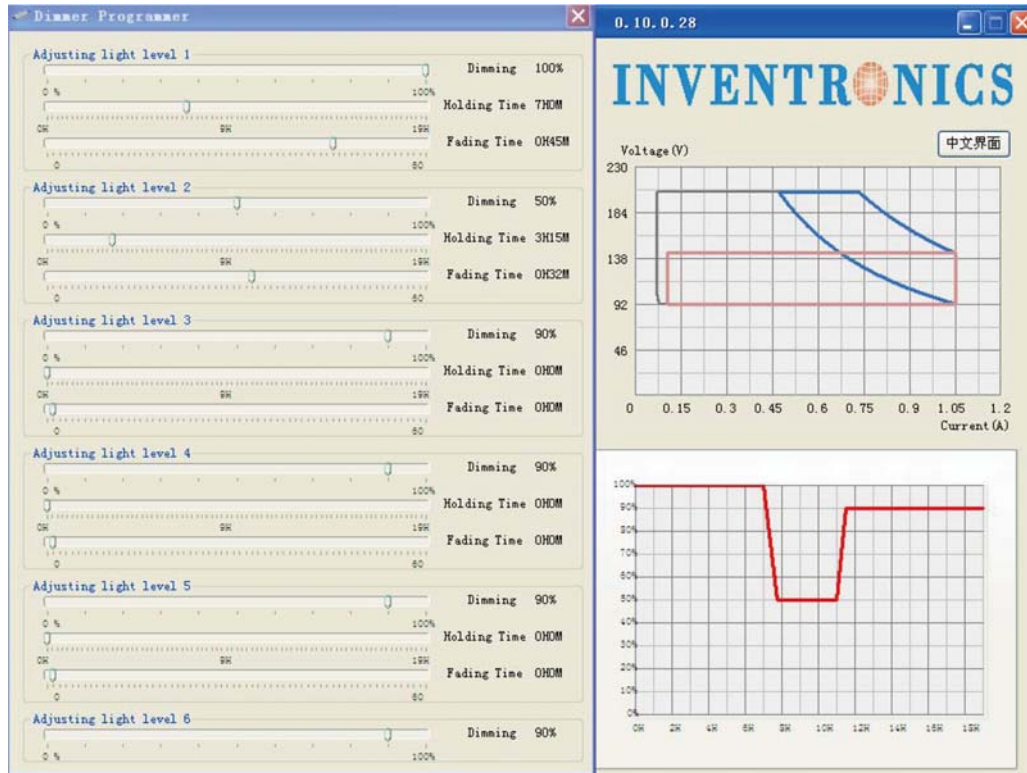
Implementation 6: Negative logic
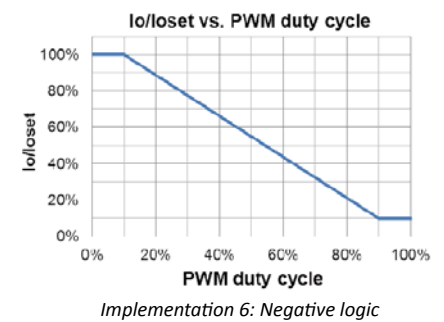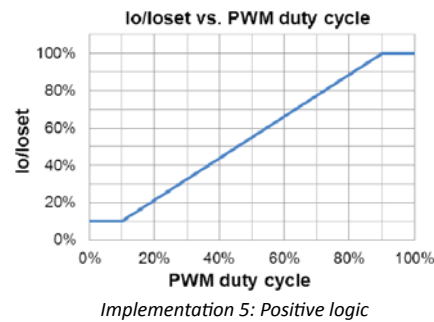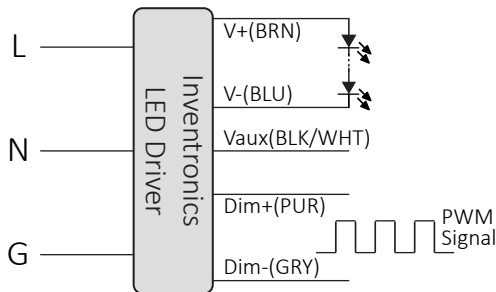
Notes:

1. Do NOT connect Dim– to the output V– or V+, otherwise the driver will not work properly.
2. If PWM dimming is not used, Dim + should be open.
3. When PWM negative logic dimming mode and Dim+ is open, the driver will output maximum current.
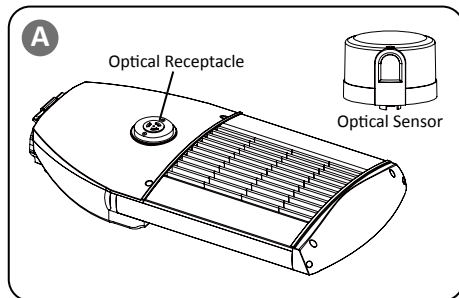
*† Time Dimming*

(Setting Window)

Notes:

1. Time Dimming is required to program by computer (Microsoft Windows).

2. Set the timing curve by pulling the sliders.

Optical Control

Optical control function is supported by optional

If the fixture with OPTICAL CONTROL function, the Optical Receptacle will be installed on the cover of fixture. See Ⓐ. Fit the pins of Optical Sensor to Optical Receptacle, firmly insert and rotate Optical Sensor to proper position.
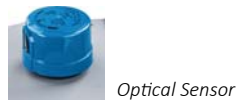
Optical Sensor

AFTER-SALE SERVICE

We warrant this hardware product against defects in materials and workmanship under normal use for a period of FIVE (5) YEAR from the date of purchase, providing free repair or replacement within warranty period.Will charge against defeats by abnormal storage, usage, connection or change the structure or any components of the product.

*Damage by thunder stroke over 10KV(L,N to FG) /6KV(L to N) will not covered by warranty based on IEC61000-4-5.