



150W STREET LIGHT

SECTION 1: GENERAL DESCRIPTION (FIXTURE AND DRIVER)

| | |
|---------------------------------------|----------------------------|
| Model Number: | VOL-SS-150-CW |
| Voltage: | 85-277V |
| Power/Amps: | 150W/ 120mA |
| Hue: | C/W |
| Material: | Die-cast Aluminum |
| Light Output: | 19500 Lumens |
| Light Distribution: | Type III |
| Correlated Colour Temperature: | 6000-6500K |
| Fixture Life span: | >50,000 hours |
| IP Rating: | 66 |
| Dimensions: | 577x316x136mm;Φ60mm |
| CRI: | >70 |
| Weight: | 7.3 |

SECTION 2: CERTIFICATIONS MET

1. UL Listing: Underwriters Laboratory testing for dependable reliability and lifespan of fixture
2. RoHS Certification: Restriction of Hazardous Substances- Ensuring no toxic chemicals or materials are used in the manufacture.
3. CE Certification: (Conformity European) to ensure that this product can be within the strictest standards of Europe.
4. This light is Tampered Proof and Impact Resistant.

SECTION 3: LIGHT SOURCE DESCRIPTION (LED CHIP)

| | |
|--------------------------------------|---------------------|
| LED type | PHILIPS 3030 |
| Driver | Meanwell |
| Operational Temperature Range | -40-+50 °C |
| Storage Temperature Range | -40-+50 °C |

SECTION 4: COMPARABLE OLDER LIGHT SOURCE

| | |
|---|---------------------------------------|
| 400W Sodium Vapour Street Light | 150W LED Street Light |
| 400 Watts Power | 150 W Power |
| 20000 Hour Lifespan | >50,000 Hour Span |
| 2 Points of Failure (Ballast + Bulb) | No Ballast |
| Carries no warranty | Always have warranty |
| Contains deadly mercury gas | RoHS certified for no toxic chemicals |
| Does not function well in cold environments | Operating -20-+40 Degrees Celsius |

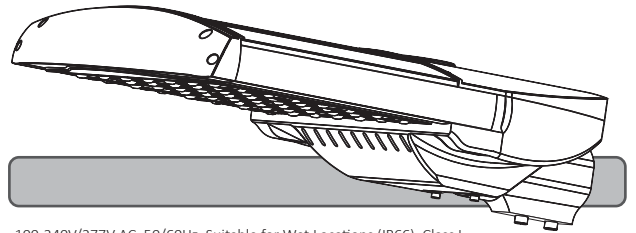
IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed including the following:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

1. To avoid the possibility of electrical shock, turn off power supply before installation or servicing. Installation and servicing should be performed by qualified personnel.
2. When closing cover of fixture, be sure all wires are inside housing to avoid pinching wires.
3. If Photo Receptacle is installed refer to "Photo Control" section for instructions.
4. Product must be installed in accordance with your local electrical code. If you are not familiar with these codes and requirements, consult a qualified electrician.
5. Do not change the structure or any components of the fixture to ensure safety.

SAVE THIS INSTRUCTIONS FOR FUTURE REFERENCE



100-240V/277V AC, 50/60Hz, Suitable for Wet Locations (IP66), Class I

*Only suit for outdoor use. Max installation height: 15M.

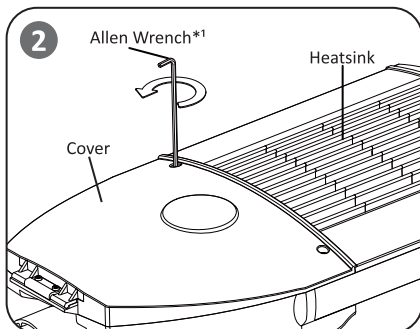
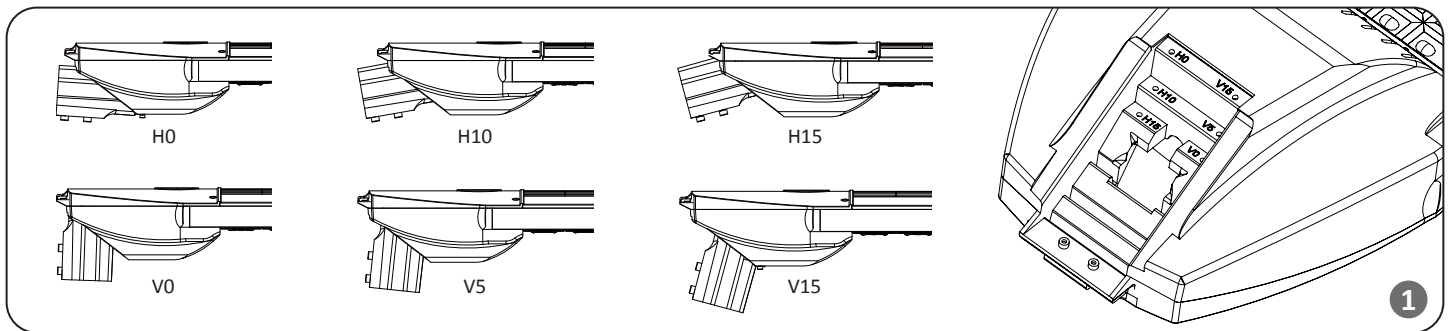
*Normal operating position is on a mast arm or post top.

Pole fitter diameter: Φ 60mm (2.4") / *48mm diameter need longer screws

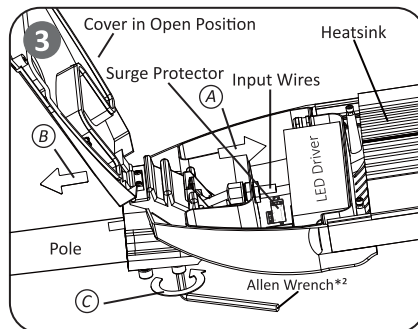
*This product must be grounding

| Power | Modules | Dimension | EPA | Weight |
|---------------------|---------|------------------|--------------------|---------|
| 35W/40W/50W/60W | 1 | 431 x316 x136 mm | 0.14m ² | 5.3 kg |
| 65W/80W/100W/120W | 2 | 504 x316 x136 mm | 0.16m ² | 6.1 kg |
| 100W/120W/150W/180W | 3 | 577 x316 x136 mm | 0.18m ² | 7.3 kg |
| 135W/160W/200W/240W | 4 | 650 x316 x136 mm | 0.21m ² | 8.2 kg |
| 165W/200W/240W | 5 | 723 x316 x136 mm | 0.23m ² | 9.0 kg |
| 200W/240W | 6 | 796 x316 x136 mm | 0.25m ² | 9.9 kg |
| 230W/280W | 7 | 869 x316 x136 mm | 0.27m ² | 10.8 kg |

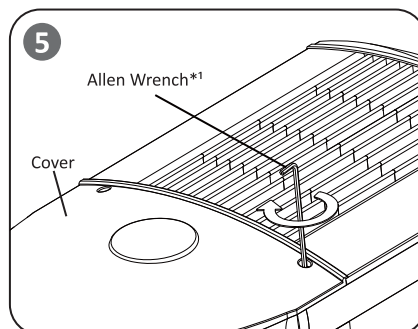
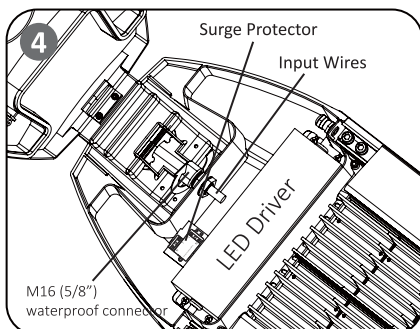
TO INSTALL:



*1 Allen Wrench: 4mm (5/32")
*1 Inner Hexagon Screw: M5 (3/16")



*2 Allen Wrench: 6mm (7/32")
*2 Inner Hexagon Screw: M8 (5/16")



STANDARD MOUNTING

STEP 1:
Adjust the multi-angle fitter (**0, 5, 15 degree vertical** and **0, 10, 15 degree horizontal**) to proper position by 4mm (5/32") allen wrench.

STEP 2:
To open cover, hold fixture by heatsink with the light modules **facing down**. Remove 2 screws on the cover by 4mm (5/32") allen wrench.

STEP 3:
Keep the cover in open position, lead the **Input Wires** through the M16 (5/8") waterproof connector (see **A**), Do not tighten. Slide fixture onto pole (see **B**) and adjust to level position. Once desired position is achieved, tighten (2) mounting bolts (see **C**). Recommended torque: 17Nm \pm 1Nm.

STEP 4:
Connect the **Input Wires** into **Terminal Block**, Reference "**Electrical Connections**" section for completing electrical connections.

STEP 5:
Close the cover, tighten (2) mounting bolts.

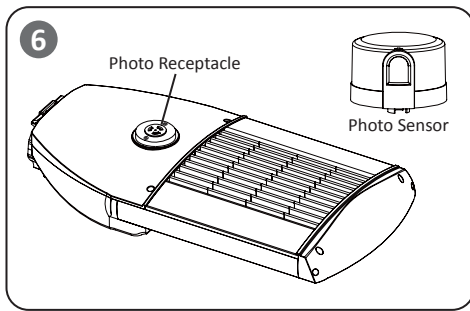


PHOTO CONTROL (OPTIONAL)

If the fixture with PHOTO CONTROL function, the Photo Receptacle will be installed on the cover of fixture. See 6. Fit the pins of Photo Sensor to Photo Receptacle, firmly insert and rotate Photo Sensor to proper position.

<Verifying>

Make sure all the connections done and photo control is well installed on the fixture, switch on the power supply and cover the window of photo sensor, wait 5 seconds, the fixture will be turned on.

IMPORTANT

Check whether it concerns an AC(Alternating Current) based or DC(Direct Current) based system.

ELECTRICAL CONNECTIONS - 100-240V/277V AC, 50/60Hz

PHASE TO NEUTRAL WIRING

Class I BASED

STEP 1:

Make the following Electrical Connections:

- Connect **INPUT GROUND** conductor to "G" position of the surge protector.
- Connect **INPUT VOLTAGE** conductor to "L" position of the surge protector.
- Connect **INPUT NEUTRAL** conductor to "N" position of the surge protector.

STEP 2:

Make sure all excess input wires are pushed into pole, screws are tightened.

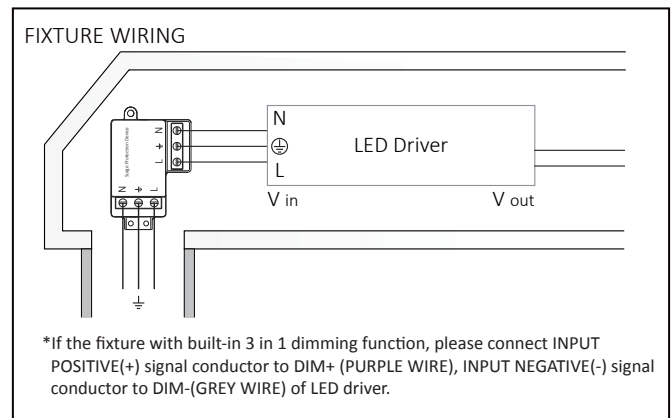
STEP 3:

Close cover by firmly pushing cover towards fixture, making sure that no wires are pinched and Sealing gasket are fully engaged.

STEP 4:

If the fixture without a surge protector, please insulate all electrical connections with wire nuts suitable for at least 90°C

Input cable should be at least H05RN-F 3x1.0mm²(SJTW 18AWG) or outdoor grade cable with rubber sheathed(not supplied). The cable must have a minimum cross sectional area of 1.0mm²(18AWG).



ELECTRICAL CONNECTIONS - 100-240V/277V AC, 50/60Hz

PHASE TO NEUTRAL WIRING

Class II BASED

STEP 1:

Make the following Electrical Connections:

- Connect **INPUT POSITIVE(+)** conductor to "L" position of the surge protector.
- Connect **INPUT NEGATIVE(-)** conductor to "N" position of the surge protector.

STEP 2:

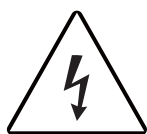
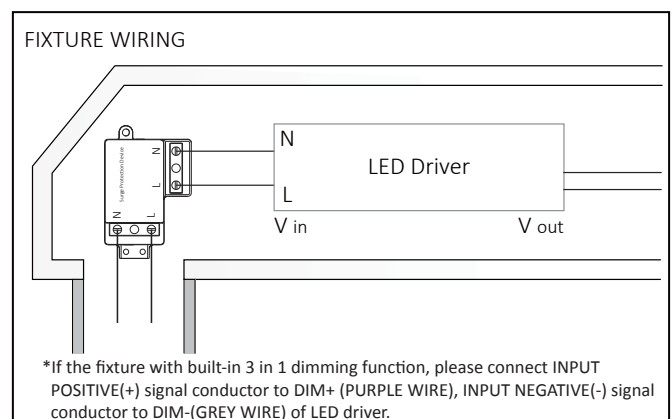
Make sure all excess input wires are pushed into pole, screws are tightened.

STEP 3:

Close cover by firmly pushing cover towards fixture, making sure that no wires are pinched and Sealing gasket are fully engaged.

STEP 4:

If the fixture without a surge protector, please insulate all electrical connections with wire nuts suitable for at least 90°C



The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.

Caution, risk of electric shock



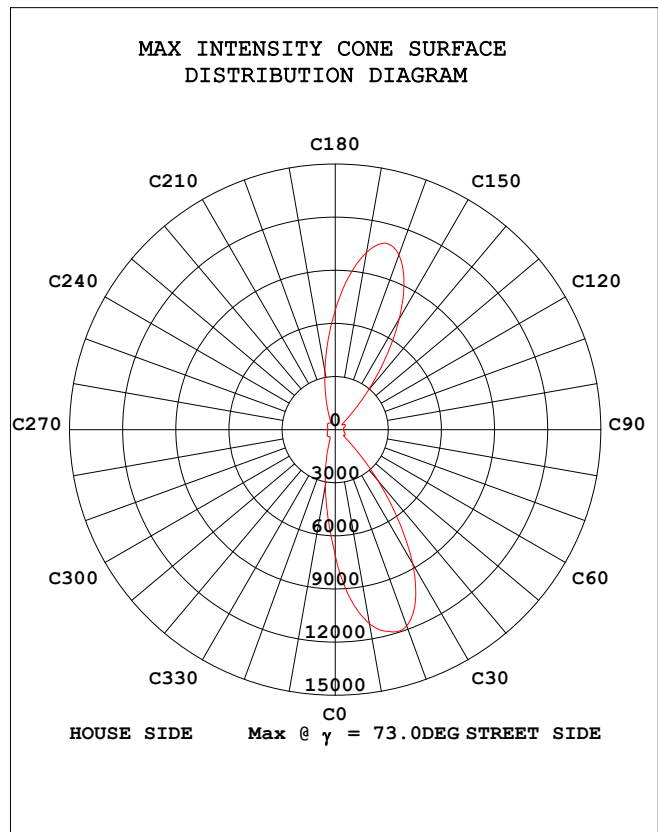
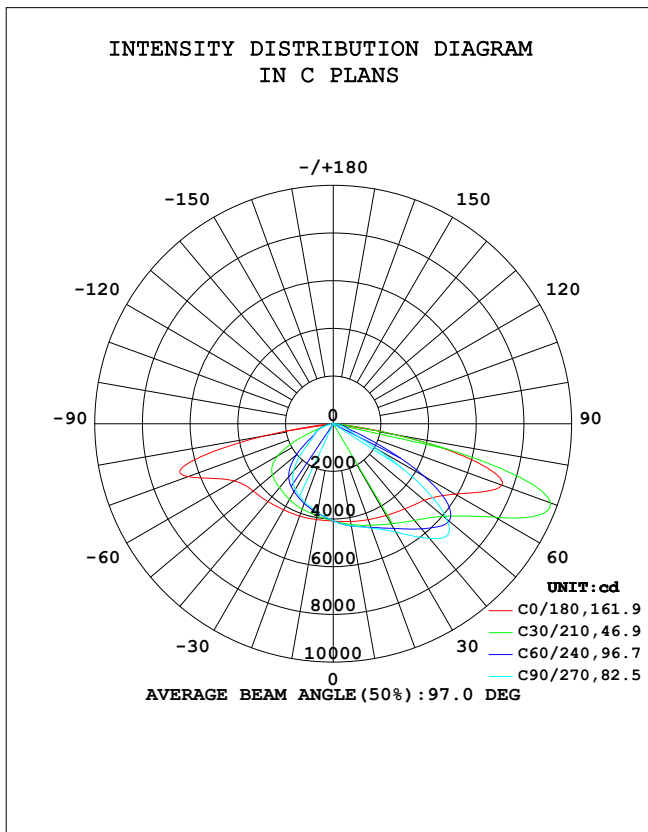
This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

| | | |
|---------------------|----------------|------------------|
| NAME: XQN/UU/372/EY | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.:21cm*16cm | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 129.72 lm/W | | | |
|-------------------|---------------|-----------------------------------|---------|------------------------|---------|
| MODEL | XQN/UU/372/EY | Imax (cd) | 11795 | η street_up (%) | 0.0 |
| NOMINAL POWER (W) | 150 | LOR (%) | 99.8 | η street_down (%) | 66.0 |
| RATED VOLTAGE (V) | 220 | TOTAL FLUX (lm) | 19458 | η house_up (%) | 0.0 |
| NOMINAL FLUX (lm) | 19500 | MAXIMUM @ (C, γ) | 15,73.0 | η house_down (%) | 33.8 |
| LAMPS INSIDE | 1 | η up (%) | 0.0 | 76 FLASHAREA (m2) | 0.05000 |
| TEST VOLTAGE (V) | 220.1 | η down (%) | 99.8 | SLI | 24.869 |



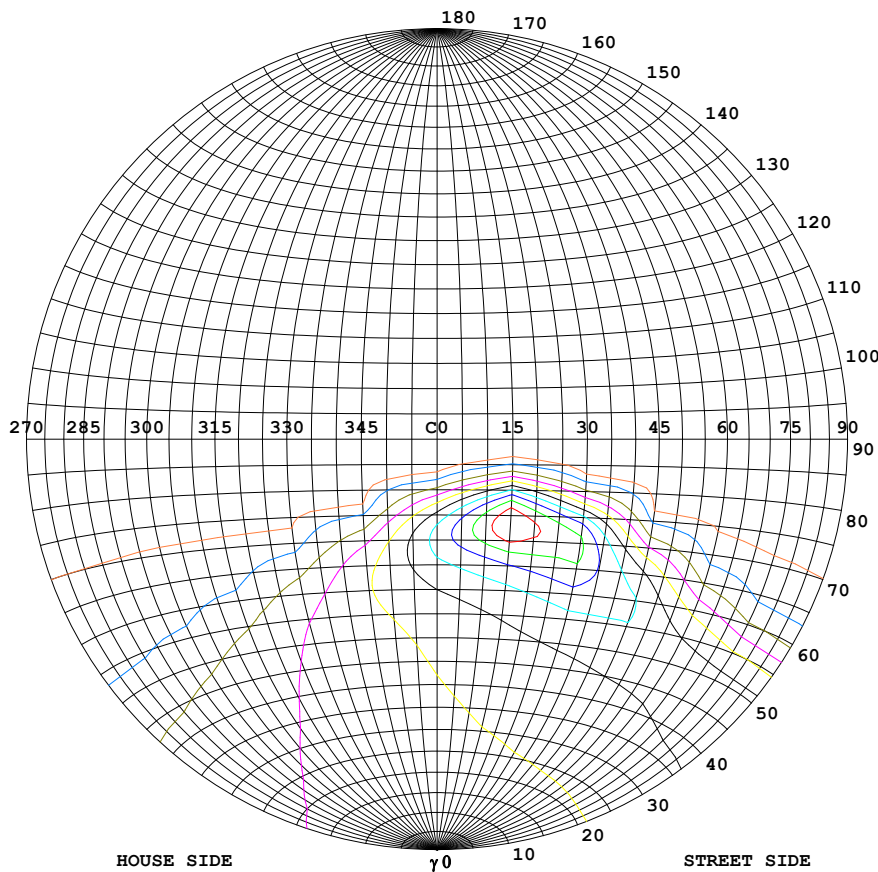
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2017

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 10.480m [K=1.0000]
Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT ISOCANDELA DIAGRAM

| | | |
|---------------------|----------------|------------------|
| NAME: XQN/UU/372/EY | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.:21cm*16cm | Shielding Angle: |



Classification:

IES:Type III - Medium
CIE:Average - Long
IES:None cut-off
CIE:Non-cut-off
Max.At80:387.4cd/klm
Max.At90:3.951cd/klm
Max.80-90:387.4cd/klm

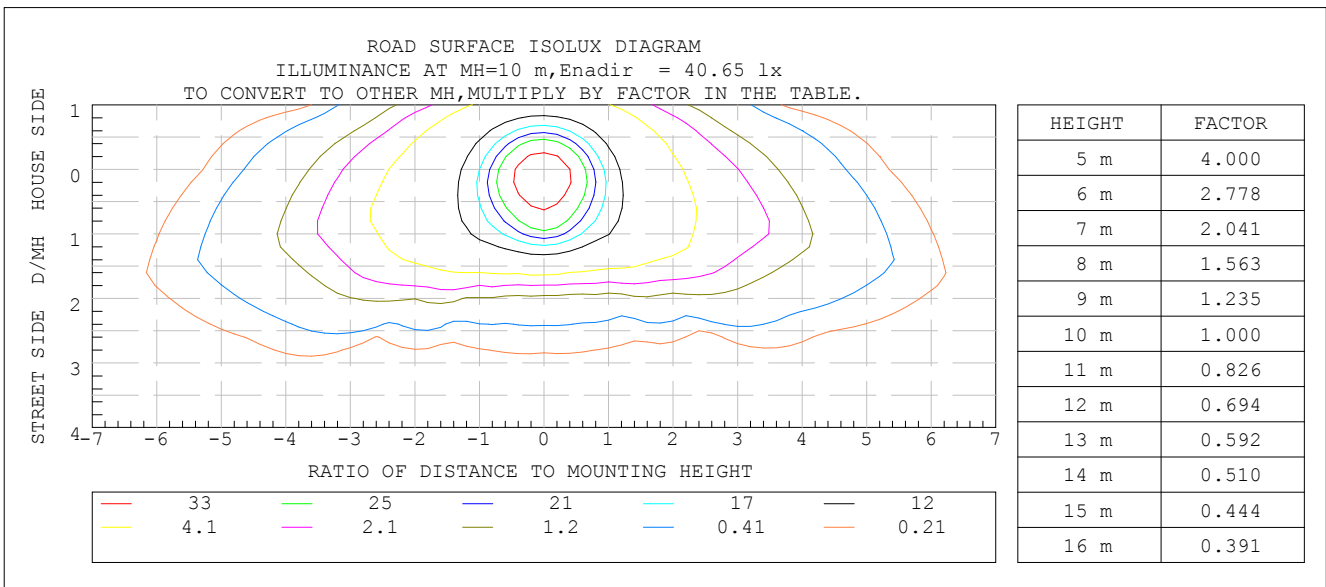
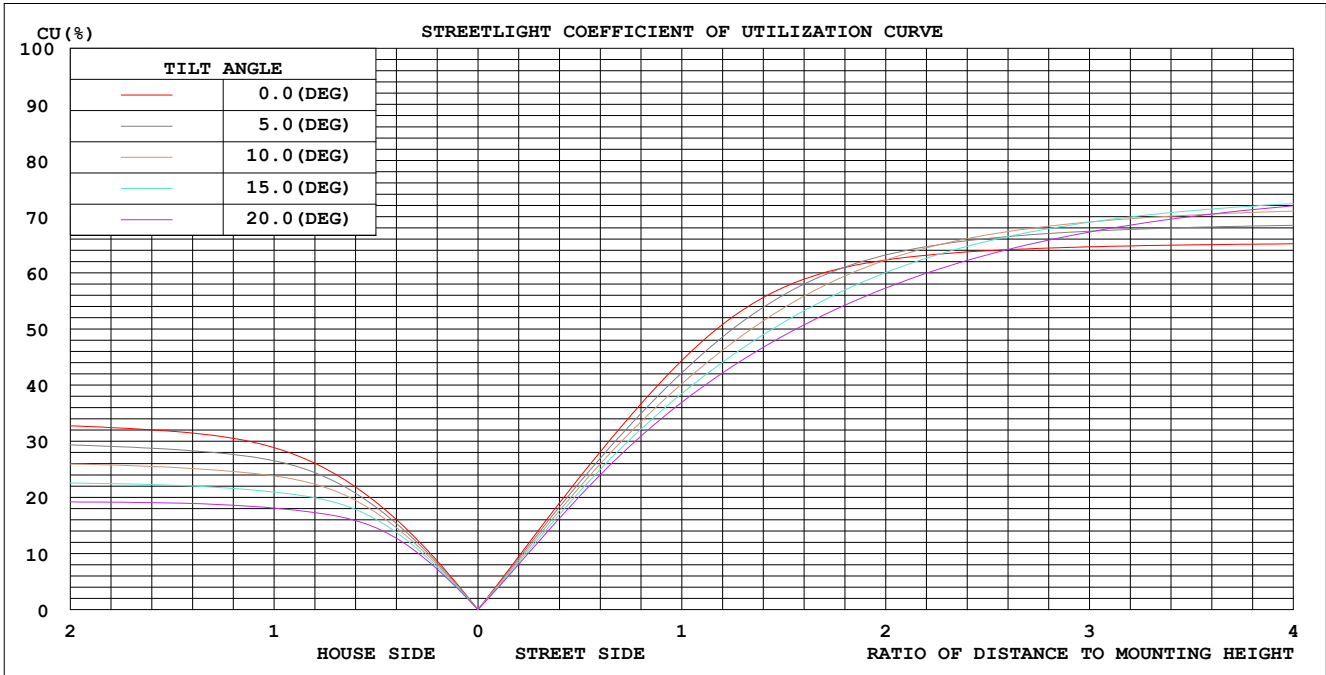
| ISOCANDELA DIAGRAM | |
|--------------------|-------|
| UNIT | cd |
| Imax=100% | 11795 |
| 90% | 10615 |
| 80% | 9436 |
| 70% | 8256 |
| 60% | 7077 |
| 50% | 5897 |
| 40% | 4718 |
| 30% | 3538 |
| 20% | 2359 |
| 10% | 1179 |
| 5% | 590 |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.480m [K=1.0000]
Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM



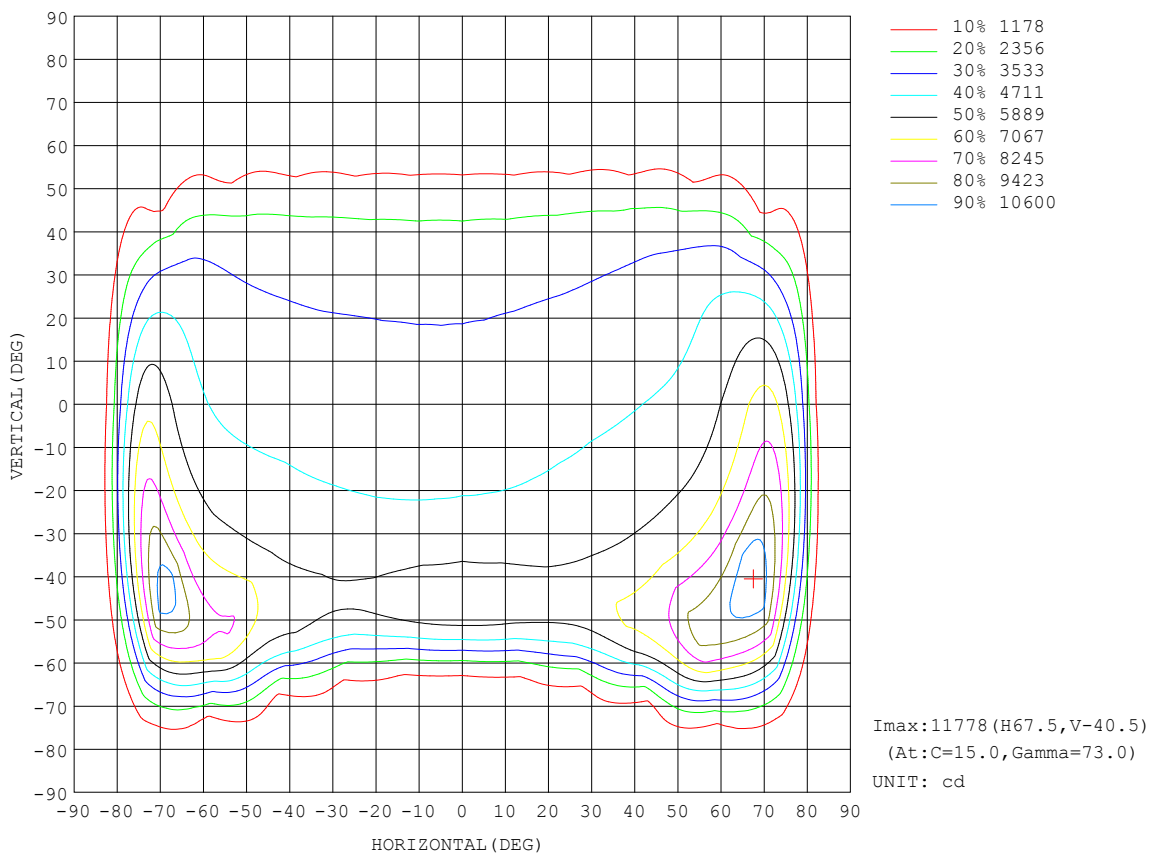
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2017

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 10.480m [K=1.0000]
Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

| | | |
|---------------------|----------------|------------------|
| NAME: VOL-SS-150-CW | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: EVERFINE | SUR.:21cm*16cm | Shielding Angle: |

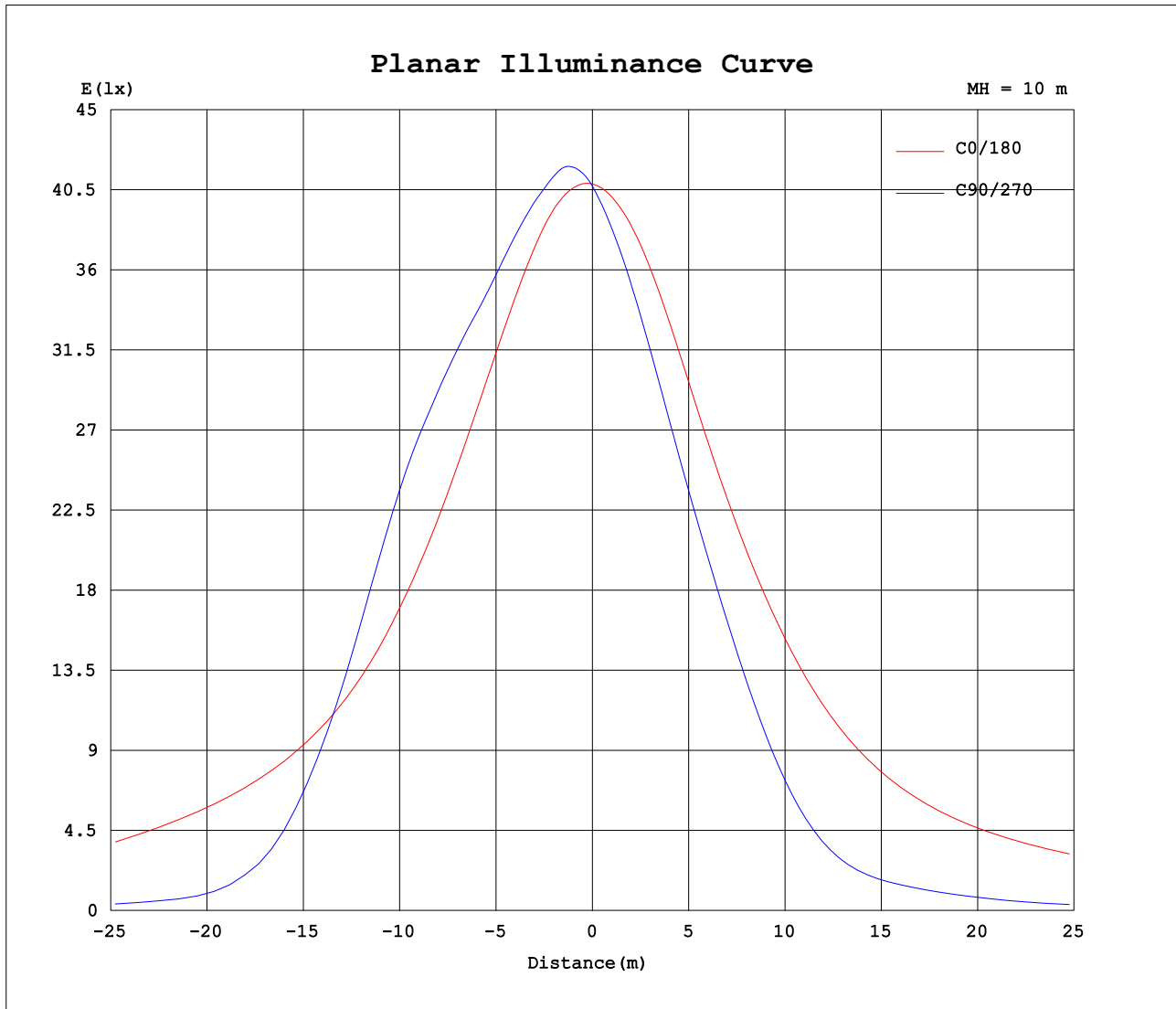


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.480m [K=1.0000]
Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2017

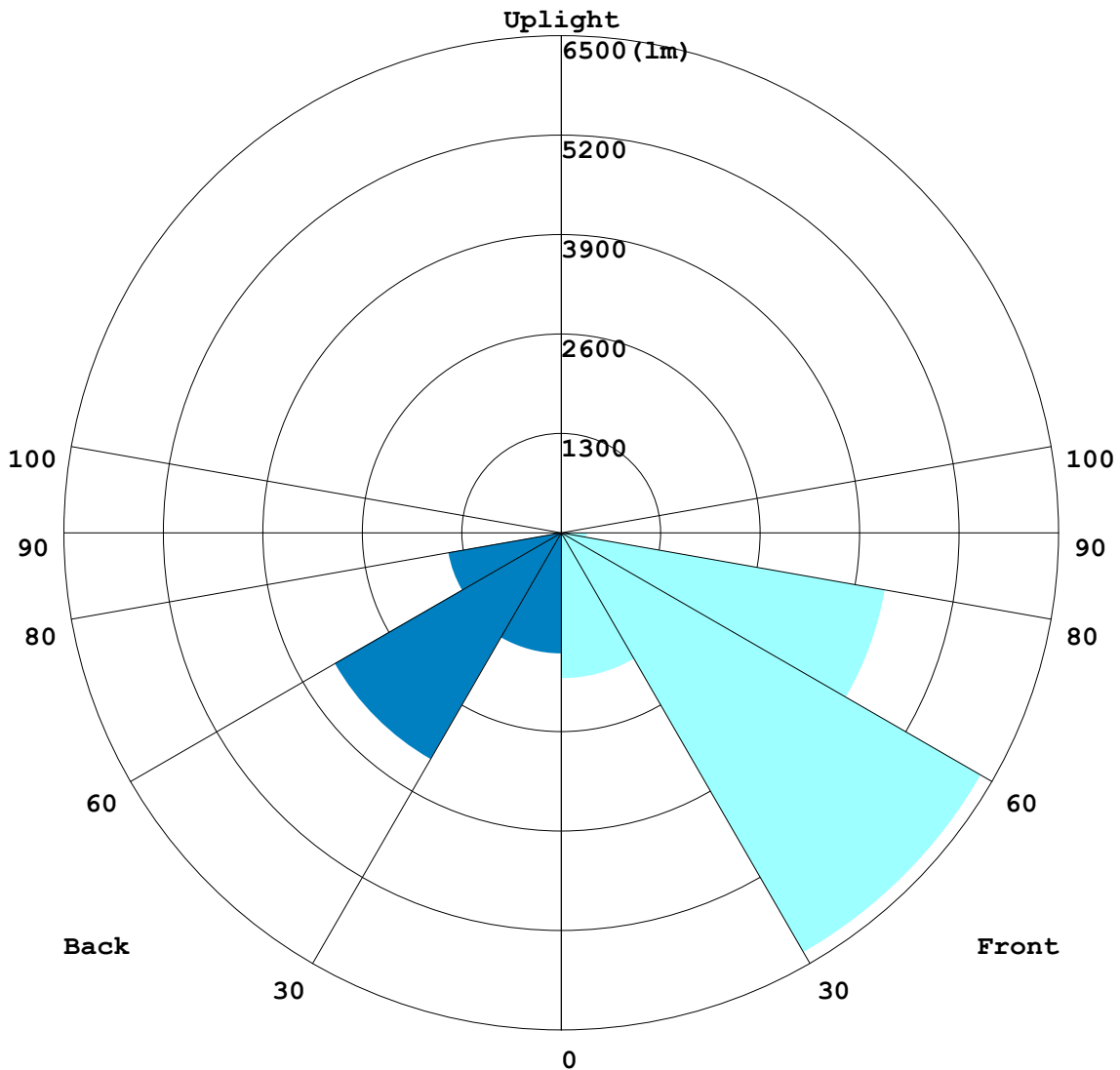
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 10.480m [K=1.0000]
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

| | | |
|----------------|-----------------|------------------|
| NAME: LED路灯 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: EVERFINE | SUR.: 21cm*16cm | Shielding Angle: |

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2017

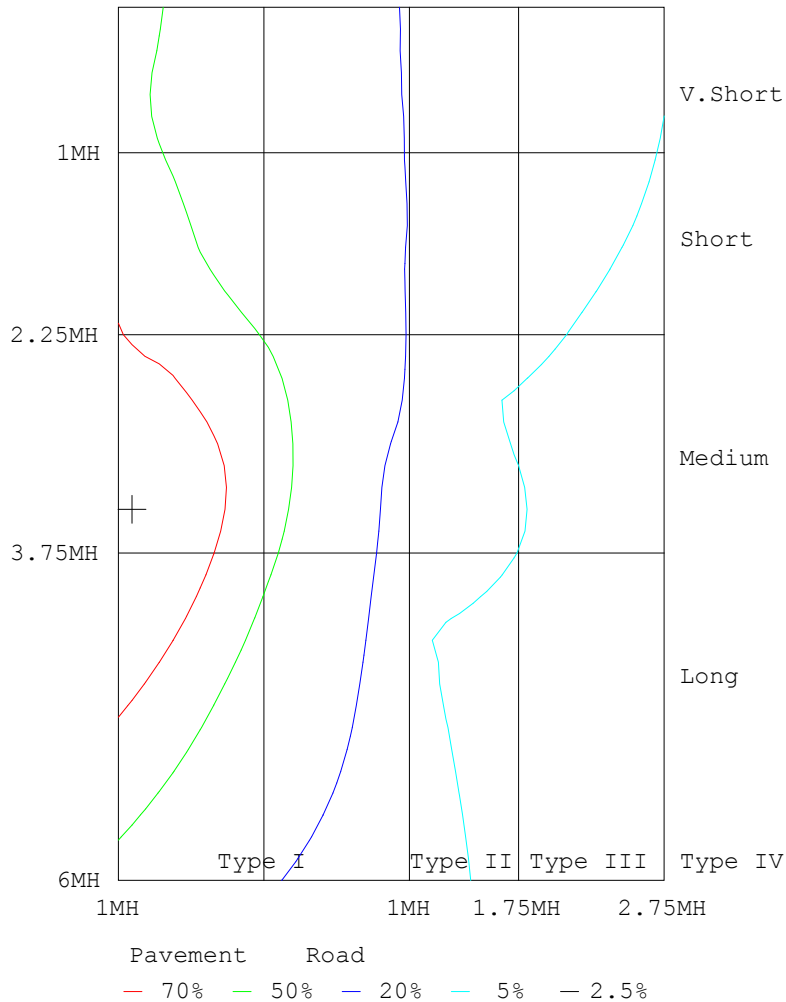
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 10.480m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

| | | |
|---------------------|-----------------|------------------|
| NAME: VOL-SS-150-CW | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: EVERFINE | SUR.: 21cm*16cm | Shielding Angle: |

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2017

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 10.480m [K=1.0000]
Remarks: