

# iCLEAN Plus

Specially Designed for Food Processing Applications



red<sup>dot</sup> award 2018



## 90% Energy Saving

We use Nichia chips and Meanwell driver, 140lm/w and 160lm/w are available. The light performance is much better than traditional LED high bay, which saves 90% energy.



In food processing applications, getting lighting right is critical. It requires luminaires that contain no toxic materials, are highly resistant to corrosion, low cost in maintenance and especially be safe.



## No Exposed Screws

Instead of glass, it is covered by high-transmittance PC with no exposed screws. Besides its beautiful outlook, it has high lumen efficiency and is safe in food processing applications.

## No Toxic Chemicals

Safe polyester powder coating surface treatment support a safe, sanitary, aesthetic, corrosion-resistant and long lifespan light.

## Smooth Surface Easy to Clean

The lamp is arched perfectly which contributes to be aesthetic, dust-proof and easy to clean.

## IP66 & IK10

With outstanding IP rating, it is also IK10 listed for high-pressure wash-downs.

## Power-off Protection

Automatic Power-off for safe maintenance.



# NSF Certificate



# IP69K TEST PEPORT

Test according to the standard of IEC 60529:2013 Degrees of protection

- 1. Personal protection.
- 2. The protection of electrical equipment to prevent the entry of solid matter, including dust.
- 3. The protection of electrical equipment to prevent damage to the equipment caused by water.

## Tests Summary

| NQ | Name of sample     | Test item | Test standard | Judg-ment |
|----|--------------------|-----------|---------------|-----------|
| 1  | LED High Bay Light | IPX6      | IEC60529:2013 | P         |
| 2  | LED High Bay Light | 2IXP      | ISO20653:2013 | P         |

## 2Degrees of protection provided by enclosures (IPX9K)

### 2.1 General description

The test is according to the standard of ISO20653-2013.

The sample is installed on the turntable.

Speed 5 r/min sprays at 0°, 30°, 60°, 90°.

Distance: 150mm.

Water flow rate: 15Umin.

Water pressure: 9000kPa.

Water temperature: 80°C.

Exposure time: 30s per position.

### 2.2 Technical requirements

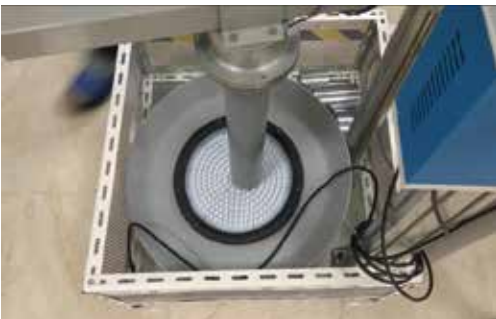
Water which is directed against the enclosure from any direction shall not have any detrimental effect.

### 2.3 Test results

| Name of sample     | Sample code | Test result   | Judgment |
|--------------------|-------------|---|----------|
| LED High Bay Light | 1-1         | After the test, the function of the sample is normal. No water enters the charged part of the sample. | P        |

### 2.4 Test equipment

| NQ | Type /" Model | Equipment name                   | Next due calibration date |
|----|---------------|----------------------------------|---------------------------|
| 1  | KXT1398       | Spray waterproof testing machine | 2018-06-04                |



IK Test

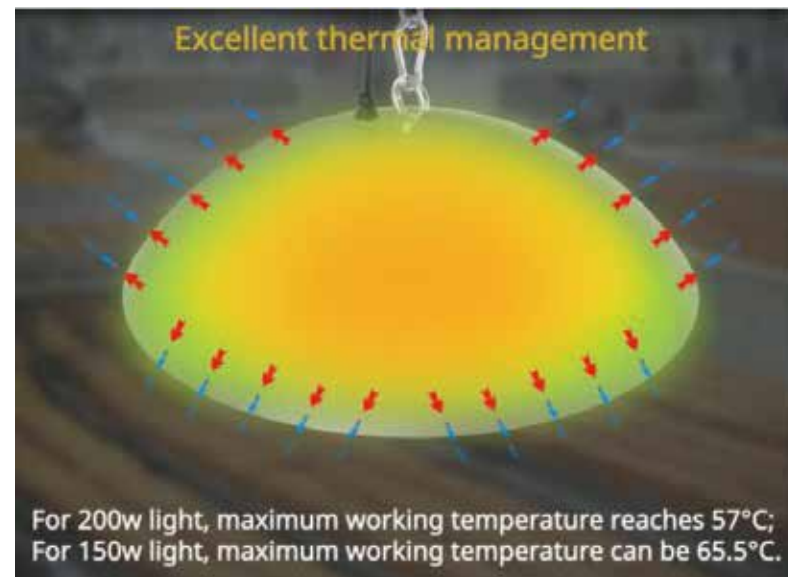


IPX6 Test



IP6X Test





## Excellent Thermal Management

Thermal management solution without the tradition external finning whilst maintaining the highest led and optical efficiency was a considerable challenge.

## CRI> 80 CRI> 90 optional

High CRI index accurate color rendering.

## Private Tooling, Unique in the Market

1. Ultra-high safety performance without glass or exposed screws, it covered by high-transmittance PC and PMMA to avoid glass fragments or screws falling into food.
2. Smoothly and seamless surface, easy to be cleaned.
3. NSF certified, a necessary report for luminaire using in food processing applications.
4. Unique design with excellent cooling performance and ingenious structure ensure safe maintenance.

## High Efficiency, Low Energy Cost

Direct HID metal halide replacement ideal for open area illumination Efficacy up to 160lm/W

100W ( 16000 Lumens ) > REPLACES 200W HID

120W ( 19200 Lumens ) > REPLACES 250W HID

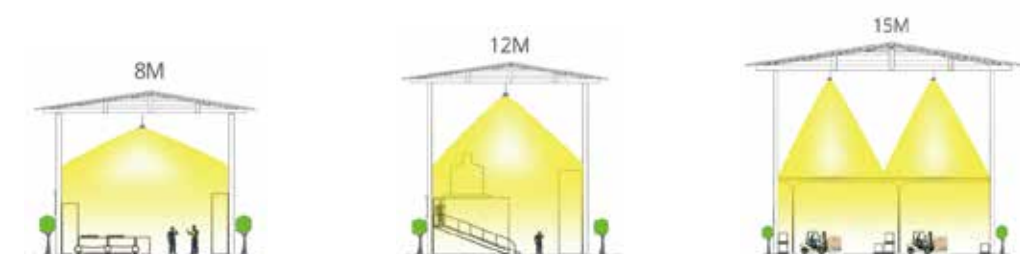
150W ( 24000 Lumens ) > REPLACES 400W HID

200W ( 32000 Lumens ) > REPLACES 400W HID

Energy savings up to 90%, making the best use of energy.  
( 140lm/W, 160lm/W )

## Types of Light Distribution

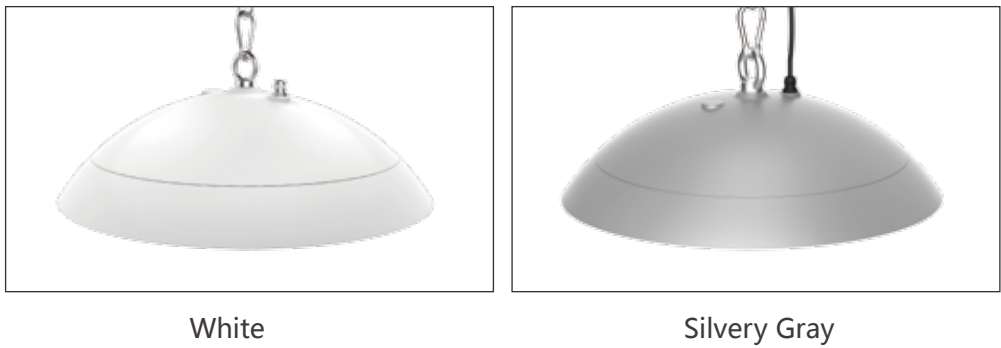
Types of Light Distribution for Your Reference.



# Technical Data

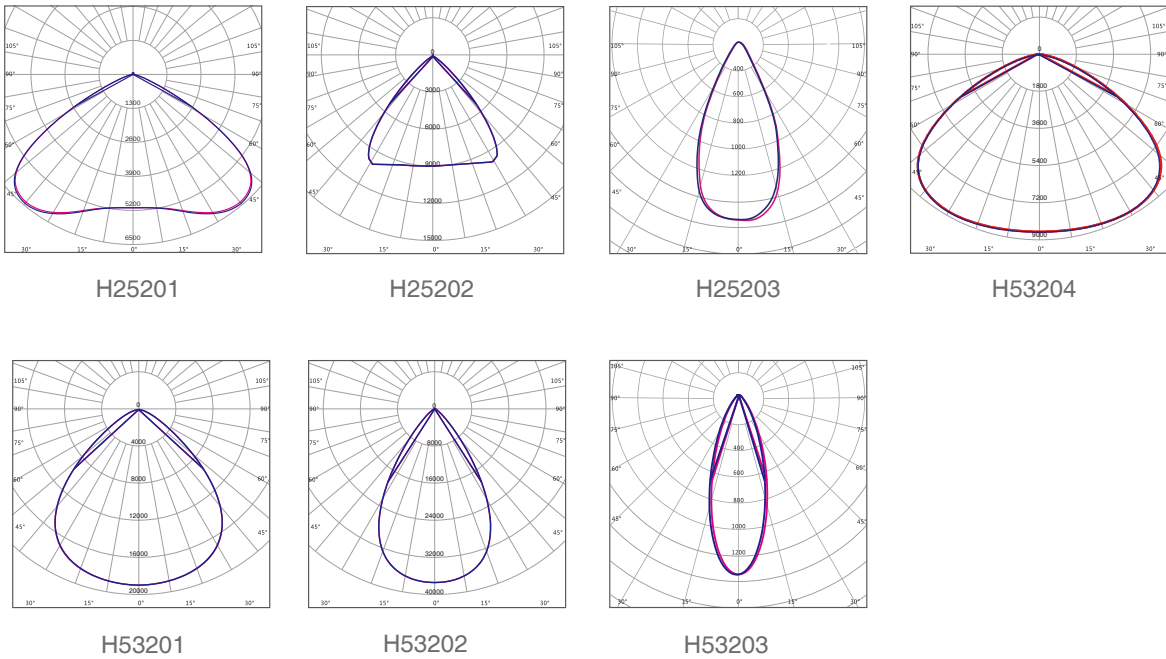
| Standard Version    |   |          |          |          | High Efficiency Version |          |          |          |
|---------------------|---|----------|----------|----------|-------------------------|----------|----------|----------|
| Lumen Output        | 14,000lm                                  | 16,800lm | 21,000lm | 28,000lm | 16,000lm                | 19,200lm | 24,000lm | 32,000lm |
| Wattage             | 100W                                      | 120W     | 150W     | 200W     | 100W                    | 120W     | 150W     | 200W     |
| Luminous Efficacy   | 140lm/W                                   |          |          |          | 160lm/W                 |          |          |          |
| CCT                 | 5000K(3000K, 4000K optional)              |          |          |          |                         |          |          |          |
| CRI                 | >Ra70(>Ra80 optional)                     |          |          |          |                         |          |          |          |
| IP Rating           | IP66                                      |          |          |          |                         |          |          |          |
| Working Temperature | -30°C to +50°C                            |          |          |          |                         |          |          |          |
| LED Driver          | MEANWELL                                  |          |          |          |                         |          |          |          |
| Input Voltage       | 100-240Vac/100-277Vac/277-480Vac, 50-60Hz |          |          |          |                         |          |          |          |
| Power Factor        | ≥0.92                                     |          |          |          |                         |          |          |          |
| Warranty            | 5 years                                   |          |          |          |                         |          |          |          |
| Lifespan            | >110,000hrs                               |          |          |          |                         |          |          |          |
| HID Equivalent      | 200W                                      | 250W     | 400W     | 400W     | 250W                    | 400W     | 400W     | 600W     |

# Color Optional



# Light Distribution

Our optical engineers advise you the best lighting solution by DIALUX simulation.



# Mounting



# Controls and Dimming

- ▶ DALI Control
- ▶ 1-10V Dimming
- ▶ Motion Sensor

# Certification

