

LED & LED LED Warehouse light

Energy-efficient, Eco-friendly, Low maintenance for industrial applications



Summary

- The LED & LED LED warehouse light is designed to replace traditional HID in a variety of applications, especially for warehouse with high racks applications. The luminous lighting pattern is rectangular, which is complied with the shape of aisle to reduce luminous wasted on the top and upper of the racks.
- It adopts the most advanced LM80 / TM21 certified Nichia chips as light source and UL listed Meanwell driver as power supply. With innovative optics and thermally efficient design, the fixture efficacy is 100lm/W. With ideal beam angle, 90W, 120W LED & LED LED warehouse light can meet most of the project requirement.
- Combined with dimmable versions , 1-10V DALI system and sensors, will help you save even 80% energy.
- LED & LED LED Warehouse Light is now available with 90W, 120W, 150W, 180W, suitable installed at 8-16m height.
- Multiple installations optional, suitable for various applications.

Feature & Benefits



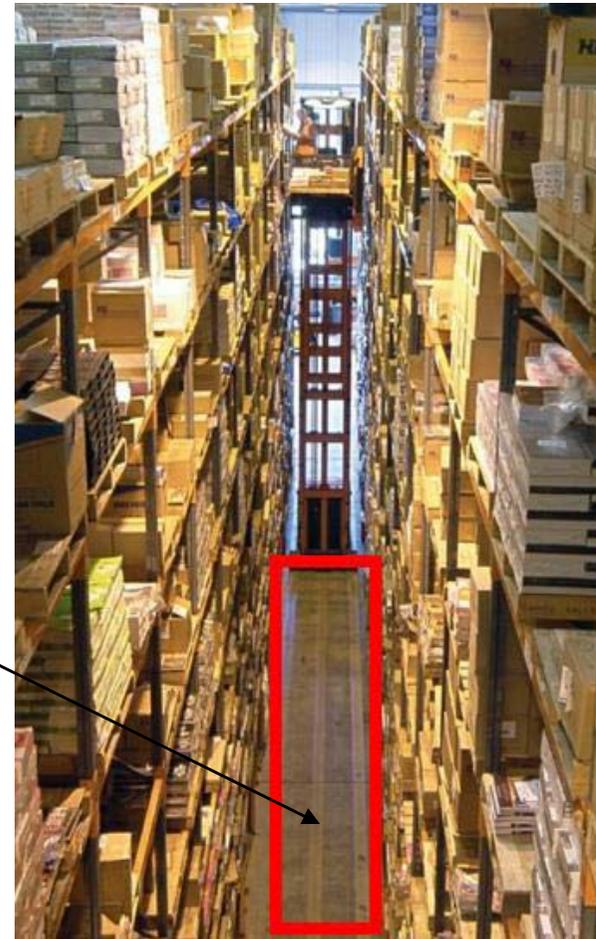
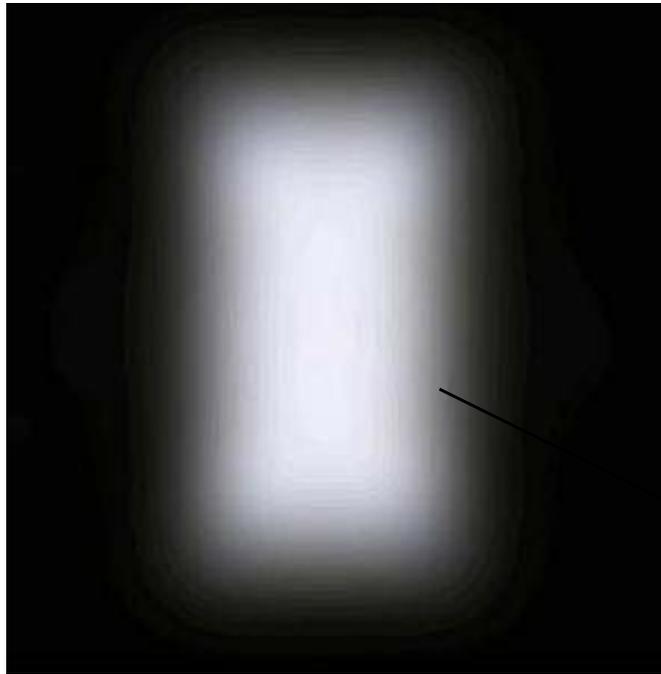
- Lifespan as long as 60,000 hours at 25 degree ambient temperature
- Industry leading efficacy up to 100 lm/W
- 5 years full performance warranty
- IP65 weather proof
- Dimmable version with Microwave sensor optional
- Dimmable with DALI optional
- Multiple installations
- Typical ROI less than 2 years
- Saving up to 80% energy
- No UV or IR, mercury free
- Instant on/off
- Free maintenance
- Producing less heat than conventional HID

Typical Application



- ☒ High Rack Warehouse
- ☒ Chamber
- ☒ Food Processing
- ☒ Cold Storage

Rectangular luminous spot complied with the shade of Aisle



Replacement

Supposing installation height 10m, aisle width 4m, spacing between two lamps 6m.
The length of the aisle is 66m.

Let's see the lighting effect of LED & LED 90W LED warehouse light and
conventional 150W LED high bay light.

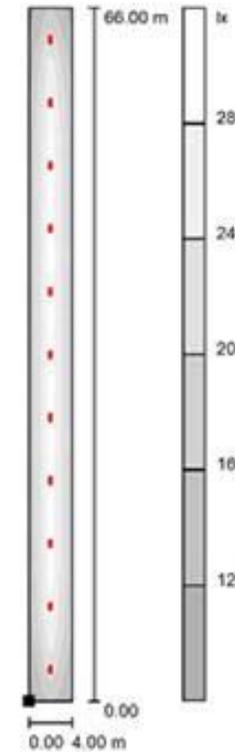
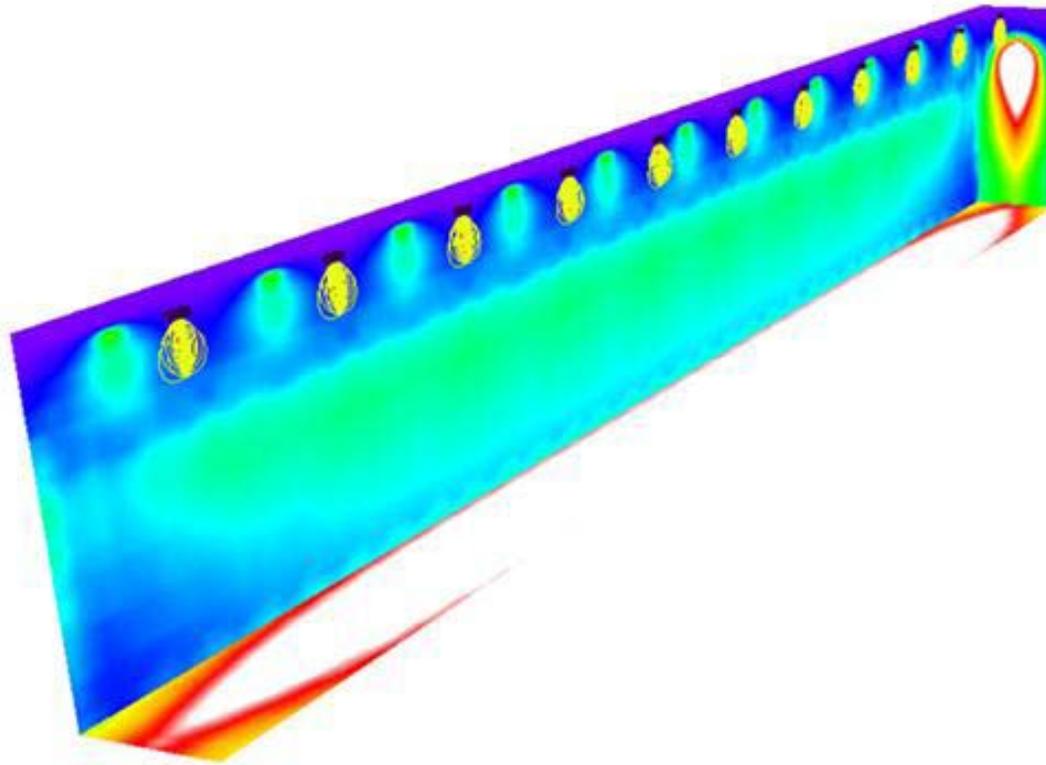
90W LED Warehouse light

VS

150W Conventional LED high bay

<u>Item</u>	<u>Quantity installed</u>	<u>Lux on the workplane</u>
90W LED & LED LED warehouse light	11pcs	221 lx
150W conventional LED high bay from other factory	11pcs	217 lx

90W LED & LED LED Warehouse light



Height of Room: 10.000 m, Mounting Height: 10.000 m, Maintenance factor: 0.90

Values in Lux, Scale 1:850

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$
Workplane	/	221	102	297	0.464
Floor	20	209	107	277	0.510
Ceiling	70	31	28	38	0.895
Walls (4)	50	67	27	336	/

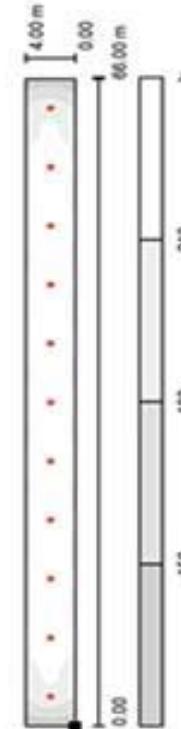
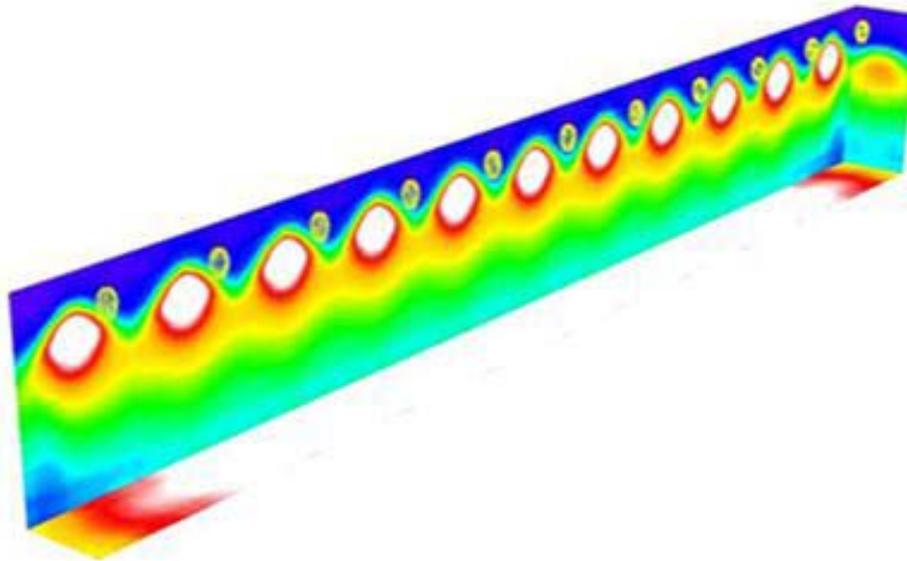
Workplane:

Height: 0.850 m
 Grid: 128 x 32 Points
 Boundary Zone: 0.000 m

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	11	90W Warehouse Light (1.000)	9430	9298	93.6
			Total: 103735	Total: 102280	1029.6

Other Brand 150W Conventional LED High Bay



Height of Room: 10.000 m, Mounting Height: 10.000 m, Maintenance factor: 0.90

Values in Lux, Scale 1.472

Surface	ρ [%]	E_{avr} [lx]	E_{min} [lx]	E_{max} [lx]	u0
Workplane	/	217	124	240	0.573
Floor	20	202	126	219	0.624
Ceiling	70	45	35	51	0.781
Walls (4)	50	105	36	285	/

Workplane:

Height: 0.850 m
 Grid: 128 x 16 Points
 Boundary Zone: 0.000 m

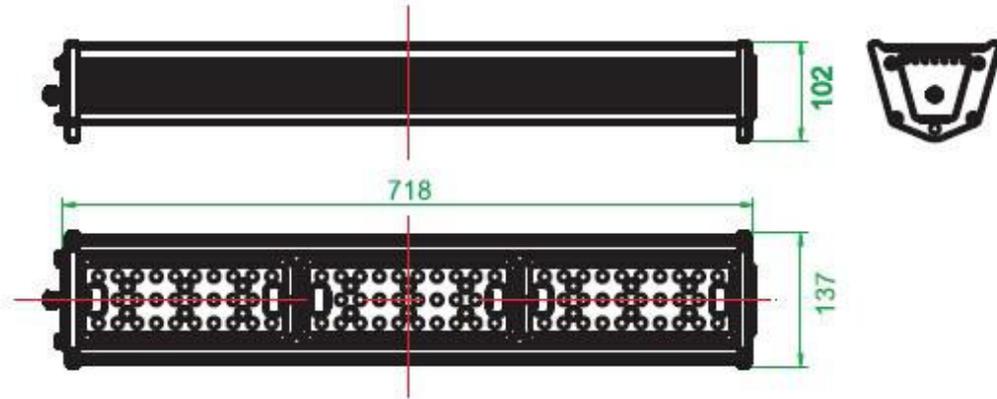
Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	11	150W LED HIGH BAY 90 degree (1.000)	12113	12111	152.5
			Total: 133243	Total: 133221	1677.5

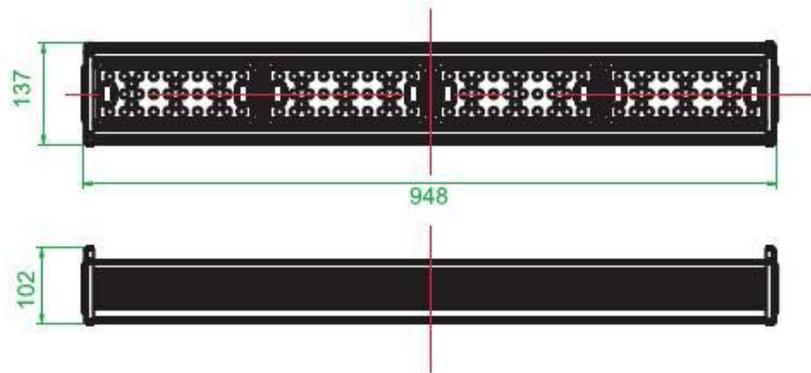
Parameters

Item Number	P65-90R	P65-120R	P65-150R
Power	90W	120W	150W
Fixture Luminous Flux	9000lm	12000lm	15000lm
Fixture Efficacy	100lm/w		
LED chips	Nichia SMD		
CRI	>70		
Color temp	3000K, 4000K, 5000K		
Beam Angle	30/70°		
IP rating	IP65		
Power Supply	Meanwell		
Input voltage	AC100-277V		
Fixture Materials	Aluminum Alloy		
Fixture color	Black/White/Silver		
Installation	Loop Hanging/Ceiling Mounting/Wall Mounting		
Dimension	718× 137× 102mm	948× 137× 102mm	1178× 137× 102mm
Package size	790× 200× 180mm	1020× 200× 180mm	1250× 200× 180mm
Luminaire net weight	4.8+/-0.3Kg	6.0+/-0.3Kg	7.2+/-0.3Kg

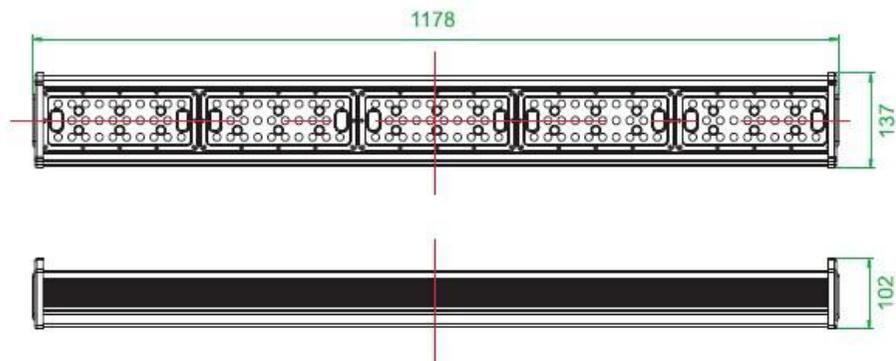
Dimensions



90W



120W



150W