

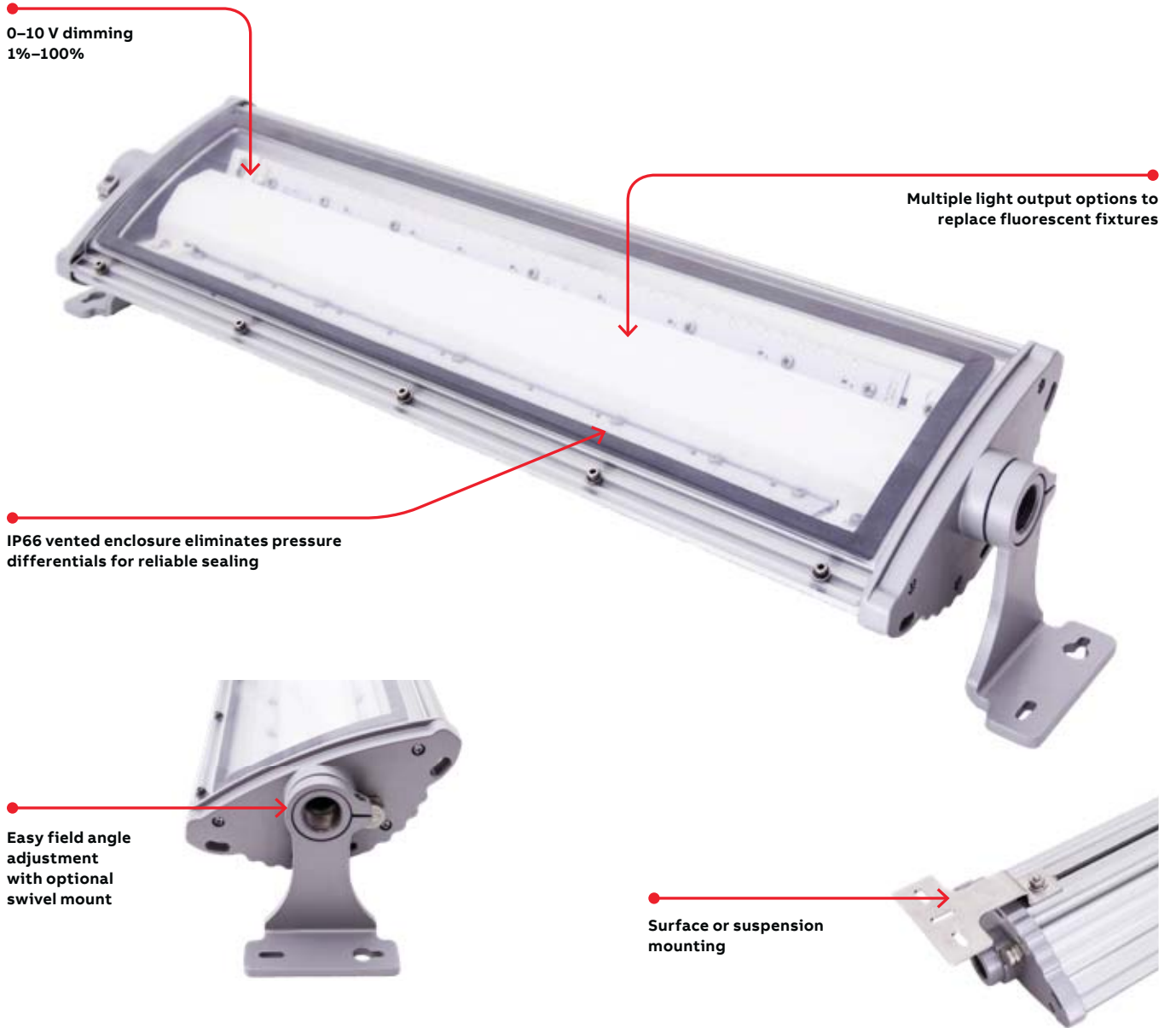
# WNL LED

A durable and robust linear luminaire designed to replace conventional fluorescent fixtures in industrial, commercial and tunnel applications.

## CLASSIFICATION

<b>CLASS I</b>	
Division 2	Groups A, B, C, D
Zone 2	Group IIC
<b>CLASS II</b>	
Division 2	Groups F, G
Zone 22	Group IIB
<b>CLASS III</b>	

Contact your ABB sales representative to verify classification



0-10 V dimming  
1%-100%

Multiple light output options to  
replace fluorescent fixtures

IP66 vented enclosure eliminates pressure  
differentials for reliable sealing

Easy field angle  
adjustment  
with optional  
swivel mount

Surface or suspension  
mounting

## CERTIFICATIONS



UL 1598  
UL 1598A

## WNL LED

### Key features and benefits

#### Features

- 100% field serviceable
- Minimum CRI of 70
- Up to 115 lumen/watt delivered
- -40 to 46 °C operating range
- IP66 vented enclosure

#### Finish

- Powder coated end caps
- Polycarbonate lens resistant to impacts with an integral hinge part of the fixture
- Ideal for dirty, wet and corrosive environments

#### Housing

- Copper-free high-pressure die-cast aluminum end caps and extruded aluminum body
- Suitable for wet locations (IP67)
- Lens and case are designed to withstand severe impact and vibration
- Vented enclosure eliminates pressure differentials and ensures reliable sealing

#### Output

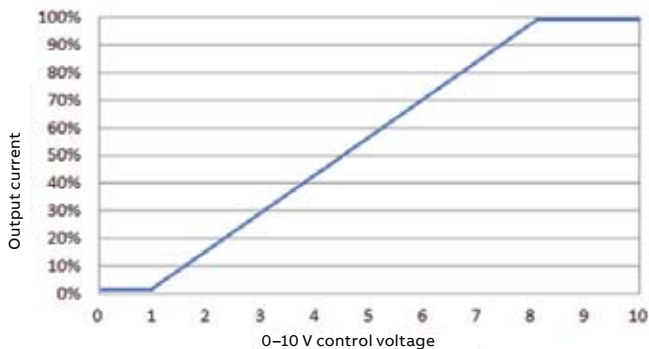
- 3,970 up to 14,313 lumens
- 0–10 V dimmable

#### Mounting

- Versatile brackets allow for several mounting styles:
  - Surface mount
  - Suspended mount
  - Angle adjustable mount

#### Dimming

Driver will source a maximum of 200  $\mu$ A for control needs. A controller must sink current from 0–10 V control leads.

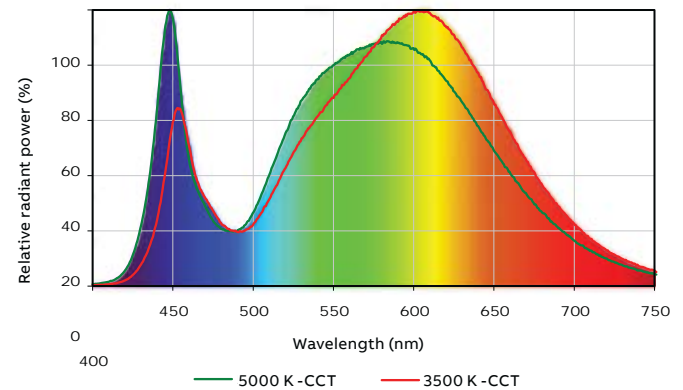


#### Applications

Tunnels  
Interior fluorescent replacement  
Loading docks

#### Color temperature

Available standard in 3500 K and 5000 K color temperatures, with additional color temperatures available from 2700 to 6500 K.



#### Light engine

- Metal core printed circuit board
- Fault tolerant and fail-over design ensures reliability and resilience to damage

#### Nichia LEDs

- Proven reliability
- High efficiency
- Available standard in 3,500 K and 5,000 K with additional custom choices from 2,700 K to 6,500 K available for special order

#### Power supplies

- Two input power ranges for flexibility
- Over voltage, over temperature and short circuit protection
- Built-in junction box with 3/4" NPT entry for electrical termination within sealed cavity
- Transient/surge protection: IEEE C62.41 4 kV/4 kV

# WNL LED

## Mounting options

### Surface mount



### Suspended mount



Two 6.5 mm x 10 mm slots on each end for suspension hardware (not provided).

### Angle adjustable mount (optional)

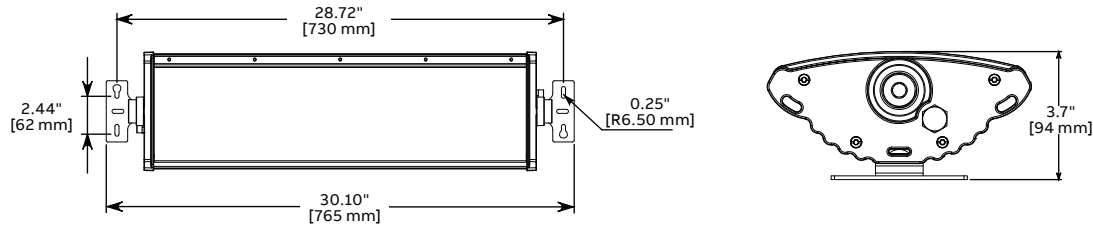


Easy field 360° angle adjustment with 3 mm hex key.

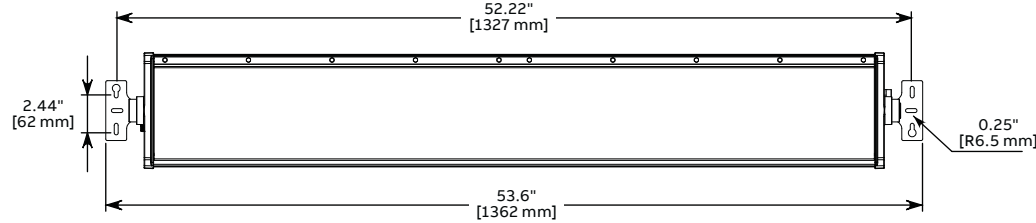
### Surface/suspended mount (optional accessory)

NL2 : 5.1 kg | 11.3 lbs    NL4 : 10 kg | 22 lbs

**WNL2 - surface mount** 5.3 kg | 12 lbs (included standard)  
304 Stainless steel



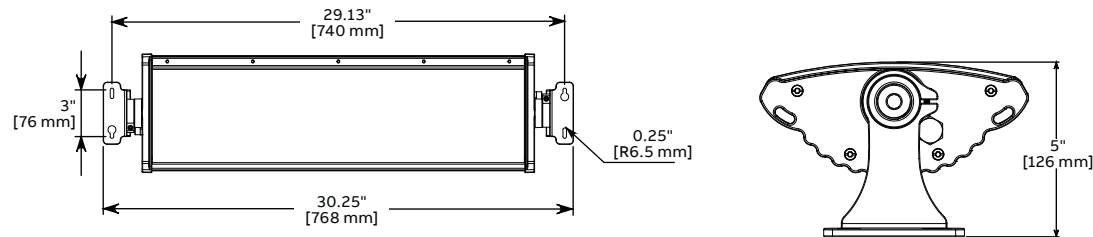
**WNL4 - surface mount** 8.6 kg | 19 lbs (included standard)  
304 Stainless steel



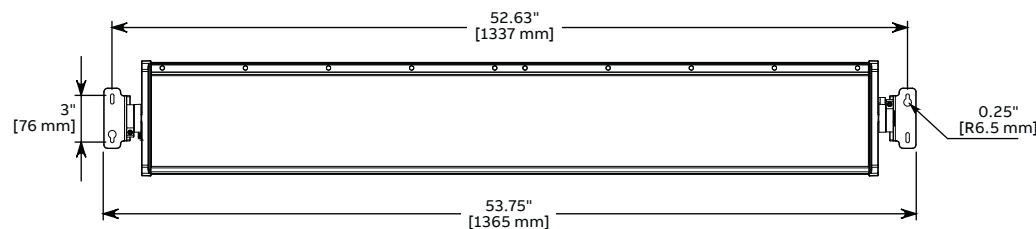
### Adjustable mount (WNL-AM)

NL2 : 5.1 kg | 11.3 lbs    NL4 : 10 kg | 22 lbs

**WNL2 - angle adjustable mount (WNL-AM)** 5.3 kg | 12 lbs (optional accessory)



**WNL4 - angle adjustable mount (WNL-AM)** 8.6 kg | 19 lbs (optional accessory)



## WNL LED

### Fixture comparison

Size	T12						T8				T5				
	4 foot		8 foot		4 foot		8 foot		4 foot						
Length	Standard		High output		Standard		High output		Standard		High output		High output		
Rating	2-Lamp	4-Lamp	2-Lamp	2-Lamp	2-Lamp	4-Lamp	6-Lamp	2-Lamp	2-Lamp	2-Lamp	2-Lamp	4-Lamp	6-Lamp	2-Lamp	4-Lamp
Lamp quantity															
Est. power	74	133	158	237	62	112	184	86	112	153	59	118	117	120	240
Est. lumens LED cross	3,200	6,400	6,000	8,100	3,200	6,400	8,600	4,300	8,800	9,100	3,200	6,400	9,600	6,600	13,200
Model	Lumens														
WNL2-S	3,970	X				X			X			X			
WNL2-H	5,143			X											
WNL2-X	7,965		X		X		X						X		X
WNL4-S	8,697		X		X		X	X		X			X		X
WNL4-H	10,470										X			X	

### Numbering system

Lighting fixture								
WNL4	X	WC	GY	50		AC	HL	U
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>

#### 01. Lighting fixture

Part	Part number	Description
<b>1</b> Model	WNL2	2 foot
	WNL4	4 foot
<b>2</b> Output	S	Standard
	H	High output
	X	Extra high output (not available with NL4)
<b>3</b> Optic	WC	Wide (no optics)
<b>4</b> Finish	GY	Gray
<b>5</b> Color	50	Cool white (5,000 K)
	35	Warm white (3,500 K)
<b>6</b> Mount		Surface mount
	AM	Adjustable mount
<b>7</b> Power	AC	120 to 277 V AC
	HV	347 to 480 V AC
<b>8</b> Location	HL	Hazardous location
<b>9</b> Market		Canadian market
	U	US market

