



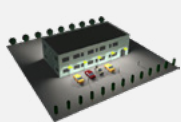
### PROJECT DETAILS BOX

PROJECT	
PRODUCT	
PREPARER	
TYPE	
NOTES	

### DESCRIPTION

Nebulite's LED Post Lantern has a traditional appearance and its cast aluminum construction offers resistance from rust and high temperature resistance. The power supply and light source separated design make this post light easy to install. This DLC Listed fixture comes with ETL, CE & RoHS certifications and is backed by Nebulite's 7 year warranty. The Historic LED Post Lantern is CCT switchable. It has a total harmonic distortion of 15% and a  $\geq 0.95$  power factor.

### SPECIFICATIONS Product Features



**Applications:** History districts, museums, plazas, shopping malls, gardens, pathways, parks, houses and other general outdoor lighting applications.

### Construction

It offers high thermal conductivity, low light attenuation, pure color light and no ghosting or glare. The top portion of this fixture is made of dense high-quality aluminum plate, which has better heat dissipation effect and longer service life.

### Electrical

Voltage:  
100-277 Volt, 347-480 Volt

Wattage (adjustable):  
30w, 60w, 80w, 100w, 120w

### Installation & Mounting

Wall Mount  
Tenon Mount

### Controls & Dimming

0-10 Volt Dimming  
12 Volt AUX  
Bluetooth Mesh Control  
Twist-lock Dusk to Dawn PC  
Bi-level Occupancy Sensor

### Warranty

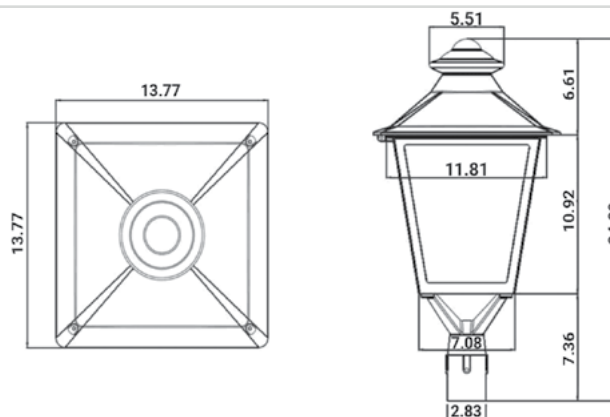
7 Year Limited Warranty



### Dimensions (inches)

Suitable for 2 3/8" & 3" diameter straight poles.

*When adapters are used it can be installed on poles with other sizes such as: 4", 5" and 6" (please contact Nebulite for further information).*

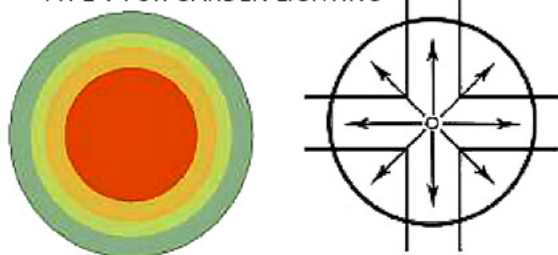


**Performance Summary**

<b>Input Voltage</b>	100-277 Volt, 347-480 Volt
<b>Input Frequency</b>	50/60 Hz
<b>Rated Wattage</b>	30w, 60w, 80w, 100w, 120w
<b>Efficacy</b>	110 lm/W
<b>CRI</b>	Ra≥75
<b>Available CCT</b>	3000K, 4000K, 5000K
<b>Rated Life (L70)</b>	100,000 hrs
<b>IP Rating</b>	IP65
<b>PF</b>	>0.95
<b>Certifications</b>	ETL, DLC Listed, CE, RoHS
<b>Working Temp. (°C)</b>	-40°F-122°F
<b>LED Light Source</b>	Lumileds 3030


**BEAM ANGLE**

TYPE V FOR GARDEN LIGHTING



TYPE III FOR ROADWAY LIGHTING


**Performance Data**

MODEL	WATTAGE	CCT	LUMEN	EFFICACY (lm/W)	VOLTAGE
NB-TP300-W030	30watt	3000K, 4000K, 5000K	3,300lm	110 lm/W	100-277vac
NB-TP300-W060	60watt	3000K, 4000K, 5000K	6,600lm	110 lm/W	100-277vac
NB-TP300-W080	80watt	3000K, 4000K, 5000K	8,800lm	110 lm/W	100-277vac
NB-TP300-W100	100watt	3000K, 4000K, 5000K	11,000lm	110 lm/W	100-277vac
NB-TP300-W120	120watt	3000K, 4000K, 5000K	13,200lm	110 lm/W	100-277vac
CCT SWITCHABLE MODELS					
NB-TP300-W030-CCT	30watt	3000K, 4000K, 5000K	3,900lm	110 lm/W	100-277vac
NB-TP300-W060-CCT	60watt	3000K, 4000K, 5000K	7,800lm	110 lm/W	100-277vac

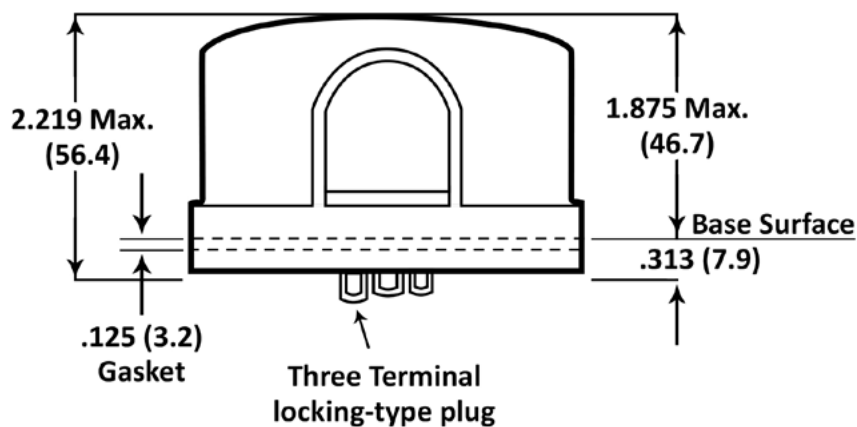
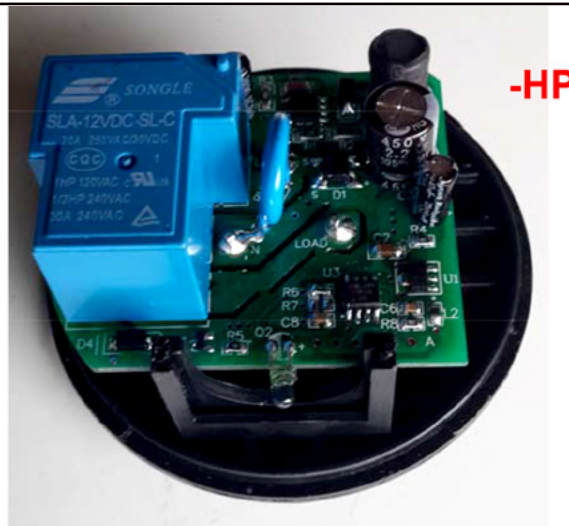
**Ordering Format**

 Sample: **NB-TP300-60W**

SERIES	WATTAGE		CCT	VOLTAGE	OPTICS		FINISH*
NB-TP300	30W*	60W*	30 = 3000K	BLANK = 100-277V HV = 347-480V	T3	T5	BLANK = Black
	80W	100W	40 = 4000K				
	120W		50 = 5000K				

\* Normal &amp; CCT Switchable Models

MOUNTING				OPTIONS	
PPM	Post or Pole Mount Fitter			PSJL	JL-205C Photocell Sensor
				PIR6	Bi-Level PIR Sensor

**Microprocessor Photocontrol JL-207 Series**


ANSI C136.10-2010 Twist Lock  
 Multi-Volts Application  
 Fully Customization Available  
 Surge Arrester Built-In  
 IR filtered Photodiode Sensor  
 Midnight Sleeping Available  
 Fail-On / Fail-Off Modes Available  
 Metal Armor Applicable

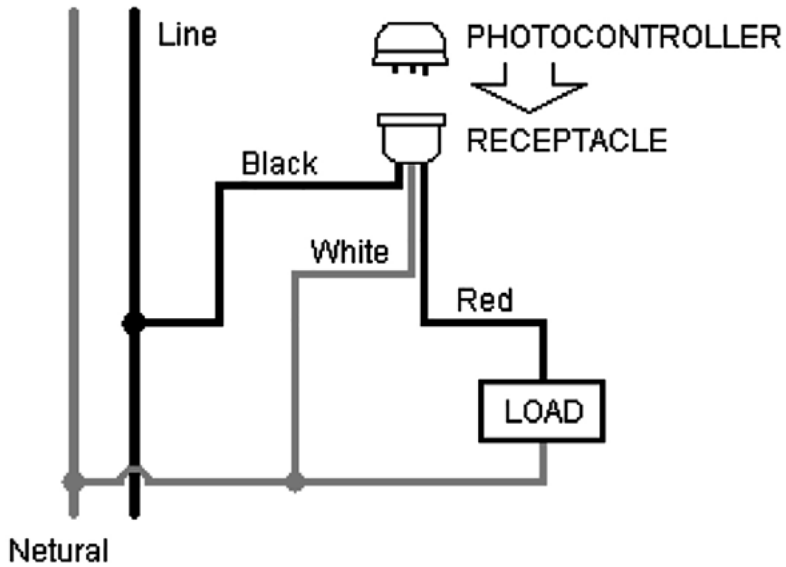
**Product Summary**

The photocontroller JL-207 series is applicable to control the street lighting, garden lighting, passage lighting and doorway lighting automatically in accordance with the ambient natural lighting level, and midnight sleeping timer settings. This product is designed with microprocessor circuits with either sensors of CdS photocell, photodiode or IR-filtered phototransistor and a surge arrester (MOV) is provided. Its quicker response with time delay of 0-10 seconds for turning-on offers easy-to-test feature.

Further, a preset 5-20 seconds time-delay for turning-off might avoid mis-operation due to spotlight or lightning during the night time. The -HP version provides constant reliability as the relay has sufficient work life of over 50,000 cycles, and offers extra long work life when a metal Armor option is applied together. This product meets the requirements of ANSI C136.10-2010 and the Standard for Plug-In, Locking Type Photocontrol for Use with Area Lighting UL773, Listed by UL for both US and Canada markets.

**Technical Data**

Model	JL-207C	JL-207E*	JL-207F*
Rated Voltage	120-277VAC	120-347VAC	208-480VAC
Applicable Voltage Range	105-305VAC	105-380VAC	180-530VAC
Rated Frequency	50/60Hz	Rated Loading	1000W Tungsten, 1800VA Ballast
Power Consumption	0.5W [STD] / 0.9W [HP]	Typical On/Off Level	16Lx On / 24Lx Off
Ambient Temp.	-40°C - +70°C	Related Humidity	99% / 100% [IP67]
Overall Size	84(Dia.) x 66mm	Weight Approx.	110g [STD] / 125g [HP]

**Microprocessor Photocontrol JL-207 Series**

**Installation**

Disconnect power; wire the receptacle according to the diagram to the left.

Push the photocontroller on and twist it clockwise to lock it into the receptacle.

Install the photocontroller with the Photocell facing the NORTH direction as indicated on the top of the photocontroller.

Adjust the receptacle position if necessary.

**Ordering Information**

**JL-207C\*1 - 5\*2 - F\*3 - 15\*4 - HP\*5 - P\*6 - IP65\*7 - F\*8 (16\*9 - 05\*10 - 24\*11 - 05\*12 - T3.0\*13)**

**\*1: Model Number**
**\*2: Fail Mode.**

4 = Fail-Off; (suggested color in Green)  
 5 = Fail-On (suggested color in Blue)

**\*3: Sensor Type**

D = Cadmium Sulfide Photocell;  
 F = IR Filtered Phototransistor;  
 S = Unfiltered Phototransistor

**\*4: MOV options**

12 = 110Joule / 3500Amp; 15 = 235Joule / 5000Amp;  
 23 = 460Joule / 10000Amp; 25 = 546Joule / 13000Amp;

**\*5: Relay options**

D = Zettler 10Amp; F = Zettler Hi-Temp 10Amp;  
 S = Standard 10Amp; HP = Hi-Power 20Amp.

**\*6: Enclosure Material**

C = UV Stabilized Polycarbonate;  
 P = UV Stabilized Polypropylene;  
 K = UV Stabilized Polycarbonate, with Aluminum Armor paint

**\*7: IP protection**

IP54 = Standard with foam gasket;  
 IP65 = Complete Sealing with Silicone Gasket;  
 IP67 = Full Sealing with Silicone Gasket & Pin protection

**\*8: Enclosure Color**

A = Red; | B = Orange; | C = Yellow; | D = Green;  
 E = Brown; | F = Blue; | G = Violet; | H = Black;  
 I = Auburn; | J = White; | K = Gray; | L = Maroon; | W = Clear

**\*9: Turn On Level in range of 10-99 Lux available.**

**\*10: Turn On Time Delay in range of 00-10 seconds available**

**\*11: Turn Off Level in range of 10-99 Lux available.**

**\*12: Turn Off Time Delay in range of 05-20 seconds available**

**\*13: Midnight Sleeping Time in range of 2.0-6.0 hours available**



## Bi-level Microwave Sensor For High Bay Light ANT-5-4

### Introduction

The ANT-5-4 is a motion sensor that dims lighting from high to low based on movement.

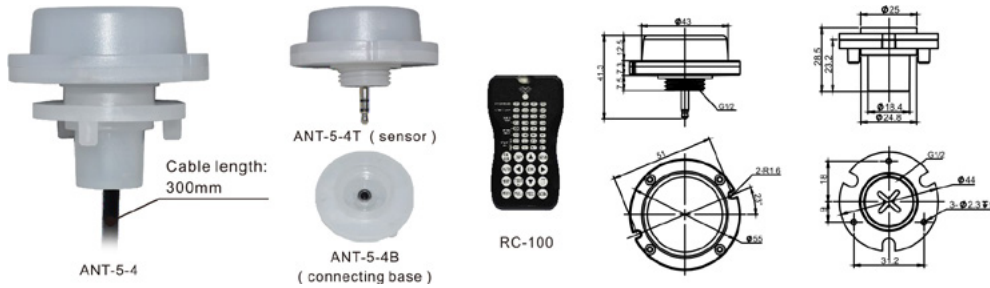
This slim, low-profile sensor is designed for installation inside the bottom of a light fixture body.

The sensors use microwave sensing technology that reacts to changes in movement within the coverage area.

Once the sensor stops detecting movement and the time delay elapses lights will go from high to low mode and eventually to an OFF position if it is desired.

Sensors must directly “see” motion of a person or moving object to detect them, so careful consideration must be given to sensor luminaire placement and lens selection.

Avoid placing the sensor where obstructions may block the sensor’s line of sight.



### Specifications

Power supply	12V-24V DC, >50mA
Dim control output	0-10V, max. 25mA sinking current
HF System	5.8GHz±75MHz
Transmission Power	<0.2mW
Detection radius	20%/50%/75%/100% (1-8m)
Mounting height	Max 50ft. (15m)
Time setting	10s/1min/5min/10min/15min/20min/30min/60min
Light-control	24H/10LUX/30LUX/50LUX
Temperature	-4°F — +140°F (-20°C — +60°C)
IP rating	IP65

### ⚠ WARNING

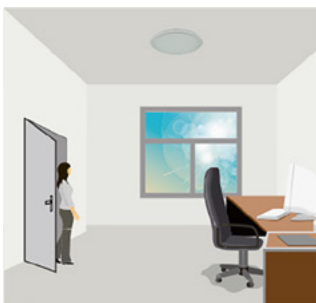
**NOTE:** Warm up time is 15seconds. After the sensor connects input power first time, the light will keep on 15seconds and then go to dimming to work normally.

**NOTE:** Factory Default Setting: 100% sensitivity, Hold on time: 5min, Daylight sensor is ☀, dimming level: 30% dimming time: 60minutues.

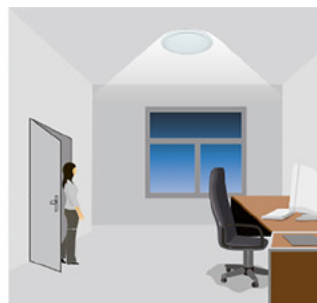
**NOTE:** Any setting changed by remote control, the LED light that sensor connect will on/off as confirm.

### Corridor Function

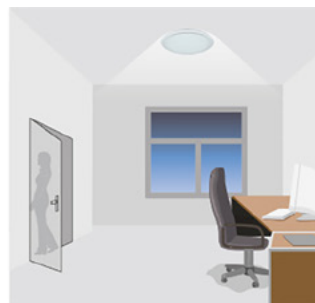
This function inside the motion sensor to achieve tri-level control, for some areas which require a light change notice before switch-off. The sensor offers 3 levels of light: 100%/0-->dimmed light (natural light is insufficient) -->off; and 2 periods of selectable waiting time: motion hold-time and stand-by period; Selectable daylight threshold and freedom of detection area.



With sufficient natural light, the light does not switch on when presence is detected.



With insufficient natural light, the sensor switches on the light automatically when presence is detected.




After hold-time, the light dims to stand-by level if the surrounding natural light is below the daylight threshold.



Light switches off automatically after the stand-by period elapses.

**Bi-level Microwave Sensor For High Bay Light ANT-5-4**

## Daylight Sensor Function

Open the daylight sensor by push  when remote control is in setting condition.



The light switches on at 100% when there is movement detected.



The light dims to stand-by level after the hold-time.



The light remains in dimming level at night.

Settings on this demonstration:

Hold-time: 30min

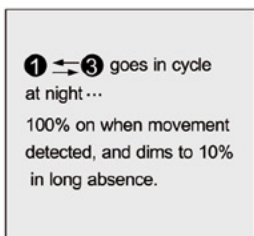
Setpoint on: 50lux

Setpoint off: 300lux

Stand-by Dim: 10%

Stand-by period: +∞

(when the smart photocell sensor open, the stand-by time is only +∞)



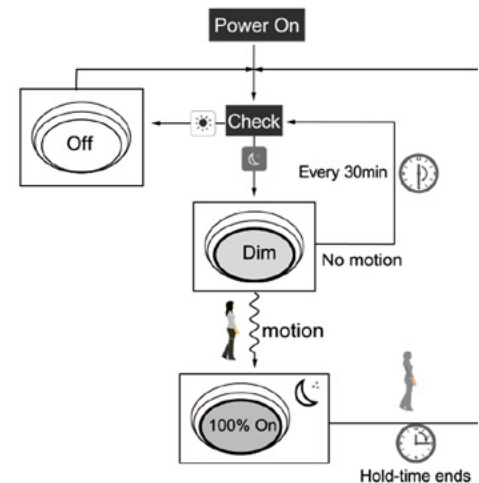
① → ② → ③ goes in cycle at night ...  
100% on when movement detected, and dims to 10% in long absence.



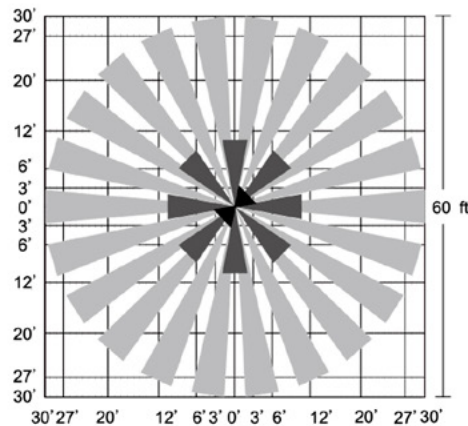
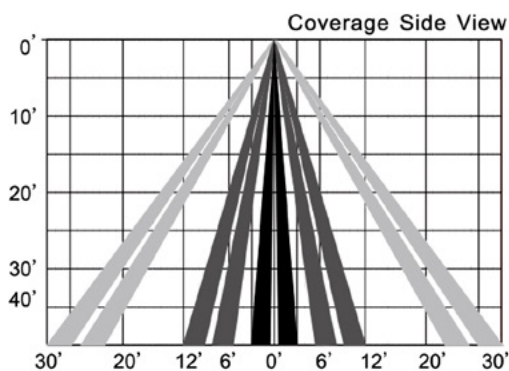
When the natural light level exceeds setpoint off to light, the light will turn off even if when the space is occupied.



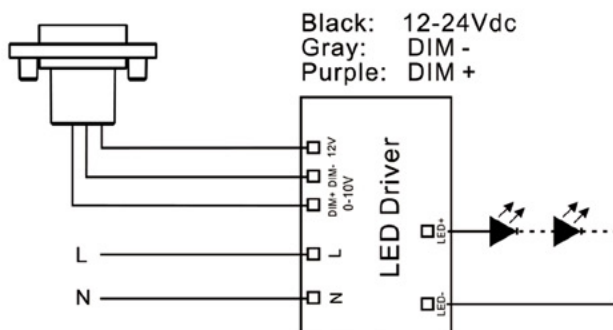
The light automatically turns on at 10% when natural light is insufficient (no motion).



## SENSOR COVERAGE



## WIRING DIAGRAMS



Cable specifications:

AWM 2464 /22AWG /80°C /300V