Project	Catalog #	Туре	
Prepared by	Notes	Date	



## Interactive Menu

- Ordering Information page 2
- Product Specifications page 2

### **Quick Facts**

- The cellular node works with streetlights from almost any manufacturer
- Available in 120-277V and 347-480V versions
- The cellular node is mounted to the luminaire by twist locking it onto the 5 or 7 pin NEMA receptacle
- The cellular node provides true plug and play commissioning: it automatically connects to the mobile network, automatically locates itself with the onboard GPS, and automatically uploads its asset data to the lighting management system
- The cellular node includes a tilt sensor to get instant notification in case the orientation of the luminaire and/or pole changes significantly
- The cellular node is available in different colors to match the color of the luminaire

## Trellix Infrastructure Cellular

## Network Lighting Controller

Specification Sheet: TI-1X-CELL

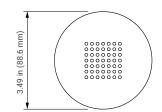
### **Product Certifications**

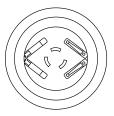


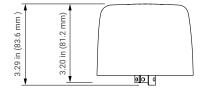
### Connected Systems

Trellix Infrastructure

## **Dimensional Details**









# Trellix Infrastructure

## **Ordering Information**

#### SAMPLE ORDER NUMBER: TI-12-CELL"

#### Trellix Infrastructure Cellular Connected Lighting Control Order Information)

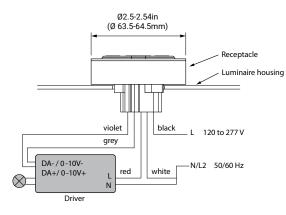
Catalog Number	Description
TI-11-CELL	Black Housing & Photocell version: Philips LLC7811/00 control node, NEMA 5 pin ANSI C136.41, 120-277V
TI-12-CELL	Gray Housing and Photocell version: Philips LLC7812/00 control node, NEMA 5 pin ANSI C136.41, 120-277V
TI-14-CELL	Gray Housing and Astro Clock version: Philips LLC7814/00 control node, NEMA 5 pin ANSI C136.41, 120-277V
TI-15-CELL	Gray Housing and Photocell version: Philips LLC7812/00 control node, NEMA 5 pin ANSI C136.41, 347-480V

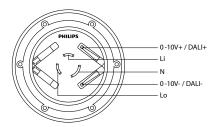
#### SAMPLE ORDER NUMBER: TI-SAAS-CELL-1YR

Order one of the following subscription service plans below in conjunction with hardware:

Catalog Number	Description
TI-SAAS-CELL-1YR	1 Year: Trellix Infrastructure Cellular Data and CMS Subscription
TI-SAAS-CELL-5YR	5 year: Trellix Infrastructure Cellular Data and CMS Subscription
TI-SAAS-CELL-10YR	10 year: Trellix Infrastructure Cellular Data and CMS Subscription

## **Wiring Diagrams**







# **Trellix Infrastructure**

## Cellular Network Lighting Control

## **Product Specifications (Philips LLC781X)**

	TI-11-CELL	TI-12-CELL	TI-14-CELL	TI-15-CELL	
Dimensions	Component height: 83.6 mm (3.29 in) Cover height: 74.4 mm (2.93 in) Diameter: 88.6 mm (3.49 in)				
Weight		0.27 kg (0.6 lb)		0.29 kg (0.64 lbs)	
Color	Black	Light Grey (RAL 7035)			
	Supply voltage: 120 to 277 VAC			Supply voltage: 347 to 480 VAC	
	Mains voltage: 120 to 277 VAC		Mains voltage: 347 to 480 VAC		
	Accuracy on mains voltage: -15% - 10%				
Supply	Rated current: 4A at 120 VAC or 3A at 277 VAC		Rated current: 3.7A at 347 VAC or 2.7A at 480 VAC		
	Mains frequency: 50/60 Hz				
	Accuracy on mains frequency: -5% / +5%				
Power Consumption		Standby power: ≤ 1.5 W		Standby power: < 2.0 W	
	Control method: ON/OFF, 1-10 V, DALI				
	Protection Interface is protected against short circuit				
Control Interface		Insulation: UL Class	2, Basic insulation		
	Load capacity: Maximum 4 LED drivers up to 400W		400W	Load capacity: Maximum 3 LED drivers, and up to 3.7A at 347 VAC or 2.7A at 480 VAC	
	Performance requirements DALI: IEC 62386-101 edition 2.0 IEC 62386-103 edition 2.0 IEC 62386-351 edition 1.0				
	D4i device type Type A (The D4i specification-Part 351 ensures the Type A device can be used together with Type B device, such as D4i sensor, in aD4i luminiare)				
DALI SR Interface	Data specifications: DALI part 251, 252, 253				
DALI SK IIIteriace	<b>DALI Supply:</b> DALI master with integrated DALI power supply Suitable for multiple supplies on DALI bus				
	Supply voltage: Min. 11.5 V, Max. 22 V				
	Guaranteed supply current: Min. 10 mA				
	Max. supply current: Max. 30 mA				
Mounting		5-pin plug confor	m ANSI C136.41		
Connectivity		Technology 4G (LTE Cat N	M1 bands 2, 4, 5, 12, 13)		
Energy Metering	Energy metering device Inside CT node				
Litergy Metering	Energy meter accuracy 0.5% class conform ANSI C136:50				
	Positioning device Inside CT node				
Auto Location	Positioning accuracy: CEP50 ≤ 2.5 m				
	Tilt sensor Inside CT node				
Luminaire Tilt Notification	Tilt threshold accuracy ±5°				
	Configurable range Between 20 and 45°				
		Default se	tting 30°		



# **Trellix Infrastructure**

## **Cellular Network Lighting Control**

	TI-11-CELL TI-12-CELL	TI-14-CELL	TI-15-CELL	
		TI-14-CELL		
	Light sensing device Inside CT node		Light sensing device inside CT node	
	Measurement range: Between .5 and 40 FC	-	Measurement range: Between .5 and 40 FC	
Light Control	<b>Configurable range:</b> Remote configurable light level between 1.5 and 20 FC	NA	<b>Configurable range:</b> Remote configurable light level between 1.5 and 20 FC	
	Default settings: Default dusk/dawn level 2/2 FC		<b>Default settings:</b> Default dusk/dawn level 2/2 FC	
Astronomical Clock Control	NA	<b>Configurable range:</b> Remote configurable time offset range -120 to 120 minutes, sun elevation angle range -25 to 25°	NA	
		Default dusk/dawn angle 0°/0°		
	Power supply: 6 kV/3kA acc. ANSI C136.10			
Surge Immunity	Control surge (diff. mode): 0.5 kV acc. IEC61000-4-5. 40 Ω, 1.2/50 μs, 8/20 μs			
	Control surge (comm. Mode): 1 kV acc. IEC61000-4-5.			
	40 Ω, 1.2/50 μs, 8/20 μs			
	<b>Operating temperature:</b> -40 to 70 °C (-40 to 158 °F)		Operating temperature: -40 to 70 °C (-40 to 158 °F)	
Temperature Characteristics	Tcase max: 86 °C measured at Tcase point		<b>Tcase max:</b> 80 °C measured at Tcase point	
	Tcase life: 38 °C measured at Tcase point		<b>Tcase life:</b> 38 °C measured at Tcase point	
	Storage temperature: -40 to 80 °C (-40 to 176 °F)		Storage temperature: -40 to 80 °C (-40 to 176 °F)	
	Relative humidity: 5 to 95% non-condensing		<b>Relative humidity:</b> 5 to 95% non-condensing	
	Lifetime: 90% survivals after 15 years continuous operation (1:	<b>Lifetime:</b> 90% survivals after 15 years continuous operation (125,000 hours) at Tcase-life		
Certificates and	Approval markings: cULus, FCC, ISED, D4i			
Standards	Operability markings: D4i			
Ingress Protection	Suitable for IPX6 luminaires. The luminaire shall provide sealing of the NEMA compatible receptacle.			
Classification	Impact resistance classification: IK08			
	RoHS directive 2011/65/EU			
Sustainability	Hazardous substances: Directive 2011/65/EU, as amended by Directive (EU) 2015/863 of March 2015			
	EMC: FCC47 Part 15B Class A, ICES-003, Issue 6 class A			
FCC	Telecommunication: FCC47 CFR 22H, FCC47 CFR 24E, FCC47 CFR 27C, RSS-130, RSS-132, RSS-133, RSS-139			
	RF Exposure: FCC47 part1.1307 & 2.1091, RSS-102			
	Safety: UL773, CSA C22.2	No. 182.2, PTCBR certified		
Warranty	Five-year limited warranty. Contact Cooper Lighting Solutions sales and technical support for details: <u>trellixinfrastructuresupport@cooperlighting.com</u>			



Cooper Lighting Solutions 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.cooperlighting.com

© 2025 Cooper Lighting Solutions All Rights Reserved.

Specifications and dimensions subject to change without notice.