Project	Catalog #	Туре	
Prepared by	Notes	Date	



#### Interactive Menu

- Ordering Information page 2
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#### **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**







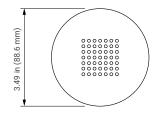




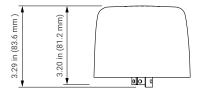
### Connected Systems

· Trellix Infrastructure powered by Interact City

#### **Dimensional Details**







## **Ordering Information**

SAMPLE ORDER NUMBER: TI-12-CELL"

Trellix Infrastructure Cellular Connected Lighting Control Order Information)

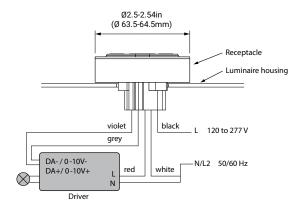
Catalog Number	Description
TI-11-CELL	Black Housing & Photocell version: Philips LLC7811/00 control node, NEMA 5 pin ANSI C136.41, 120-277V
TI-12-CELL	Gray Housing and Photocell version: Philips LLC7812/00 control node, NEMA 5 pin ANSI C136.41, 120-277V
TI-14-CELL	Gray Housing and Astro Clock version: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

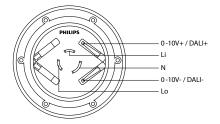
#### SAMPLE ORDER NUMBER: TI-SAAS-CELL-1YR

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	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					
	L <b>oad capacity:</b> Maximum 4 LED drivers up to 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					
	<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 M1 bands 2, 4, 5, 12, 13)				
Energy Metering	Energy metering device Inside CT node					
Lifelity Metering	Energy meter accuracy 0.5% class conform ANSI C136:50					
Auto Logotion	Positioning device Inside CT node					
Auto Location	Positioning accuracy: CEP50 ≤ 2.5 m					
	Tilt sensor Inside CT node					
Luminaire Tilt	Tilt threshold accuracy ±5°					
Notification	Configurable range Between 20 and 45°					
	Default setting 30°					



# **Trellix Infrastructure**

## **Cellular Network Lighting Control**

	TI-11-CELL TI-12-CELL	TI-14-CELL	TI-15-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	Configurable range: Remote configurable light level between 1.5 and 20 FC	NA	Configurable range: 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	Configurable range: Remote configurable time offset range -120 to 120 minutes, sun elevation angle range -25 to 25°  Default dusk/dawn angle 0°/0°	NA		
	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				
	<b>Control surge (comm. Mode):</b> 1 kV acc. IEC61000-4-5. 40 Ω, 1.2/50 μs, 8/20 μs				
	Operating temperature: -40 to 70 °C (-40 t	Operating temperature: -40 to 70 °C (-40 to 158 °F)			
	Tcase max: 86 °C measured at Tcase	Tcase max: 80 °C measured at Tcase point			
	<b>Tcase life:</b> 38 °C measured at Tcase p	Tcase life: 38 °C measured at Tcase point			
Temperature Characteristics	Storage temperature: -40 to 80 °C (-40 to	Storage temperature: -40 to 80 °C (-40 to 176 °F)			
	Relative humidity: 5 to 95% non-conde	Relative humidity: 5 to 95% non-condensing			
	<b>Lifetime:</b> 90% survivals after 15 years continuous operation (	<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				
Sustainability	RoHS directive 2011/65/EU				
Sustamability	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: <a href="mailto:trellixinfrastructuresupport@cooperlighting.com">trellixinfrastructuresupport@cooperlighting.com</a>				

