

## RTS200

### TECHNOLOGY



#### IoT

IoT-ready nodes that can power, monitor, and report data. It is an extension of the DALI-2 certification program that mandates specific features for LED drivers and control devices, ensuring "plug-and-play" interoperability.



#### Flow Sense

A built-in protector against power-related issues, ensuring lasting performance and safety.



#### Split & Seal

Uses protective polymers to shield Filix products from water and moisture, boosting durability and resilience.



#### Heat Sense

Automatically reduces LED power at high temperatures, ensuring longevity and safety in Filix products.





## RTS200

Specification Sheet



### IP68

#### LUMINAIRE FEATURES

##### Design and Application

- Architectural lighting and landscape lighting
- Large outdoor and interior lobby spaces
- Recessed round luminaire with adjustable tilt

##### Mechanical details

- IK10 crystal-clear tempered glass, 15mm (0.59") thick
- IP68, rated for temporary submersion (24h) in water up to 1m
- AISI316 stainless steel body
- Drive-over rated for 5000 kg (11000 lbs)
- Supplied with oil and water resistant feed cable as standard
- Recessed direct burial installation
- Bonding wire available
- Beam angle adjustable up to 30 degrees

##### Electrical details

- LED Lifetime TM-21 @ 85°C  
L70(24K)=66,000 hours
- Operating temperature -40°C (-40°F) to +50°C (122°F)
- LED CRI: >85
- 2 step MacAdam
- Safety Class I
- Integral power supply

##### Sustainability

- Recyclable material
- Replaceable LED module

##### Controls

- DALI D4i

##### Integrated Systems:

- Flow Sense
- Split & Seal
- Heat Sense
- IoT Ready

##### Links and Downloads

- [Fixture installation manual](#)
- [CAD files](#)
- [IES-LTD data](#)



# RTS200

## ORDERING INFORMATION

<b>MODEL</b>		<b>CABLE LENGTH</b>	
<b>RTS</b>		<b>OPTIONS</b>	
<b>POWER</b>		<b>00</b>	• 0 - Standard feed cable 0.3m (1')
<b>L</b>	• L - 25W, 2700/3000/4000K, 3500lm	<b>03</b>	• 3 - Luminaire supplied with 3m (10') feed cable
<b>OPTICS</b>		<b>06</b>	• 6 - Luminaire supplied with 6m (20') feed cable
<b>MS</b>	• MS - Medium Spot 15°x15°	<b>09</b>	• 9 - Luminaire supplied with 9m (30') feed cable
<b>NF</b>	• NF - Narrow Flood 30°x30°	<b>15</b>	• 15 - Luminaire supplied with 15m (50') feed cable
<b>MF</b>	• MF - Medium Flood 40°x40°	<b>20</b>	• 20 - Luminaire supplied with 20m (65') feed cable
<b>VOLTAGE</b>			
<b>230</b>	• 230 - 220-240VAC, 50Hz		
<b>CONTROL</b>			
<b>0</b>	• 0 - On-Off Operation		
<b>I</b>	• I - DALI D4i Operation		
<b>FINISH</b>			
<b>P</b>	• P - Polished trim finish		
<b>F</b>	• F - Frosted trim finish		
<b>INTERNAL LIGHT CONTROL</b>			
<b>0</b>	• 0 - No internal light control		
<b>1</b>	• 1 - Microlouvre		
<b>2</b>	• 2 - Hex louvre		
<b>3</b>	• 3 - Discrete sight		
<b>4</b>	• 4 - Half Moon		
<b>5</b>	• 5 - Honeymoon		



# RTS200

## MANDATORY ACCESSORIES

### Housing

HOUSING

RD200C

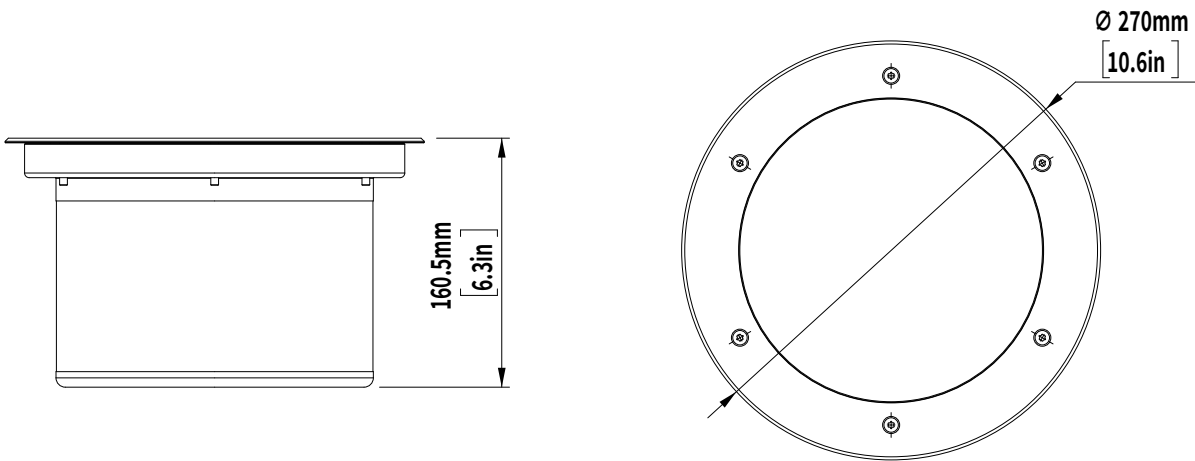
- RD200C - Technopolymer installation housing



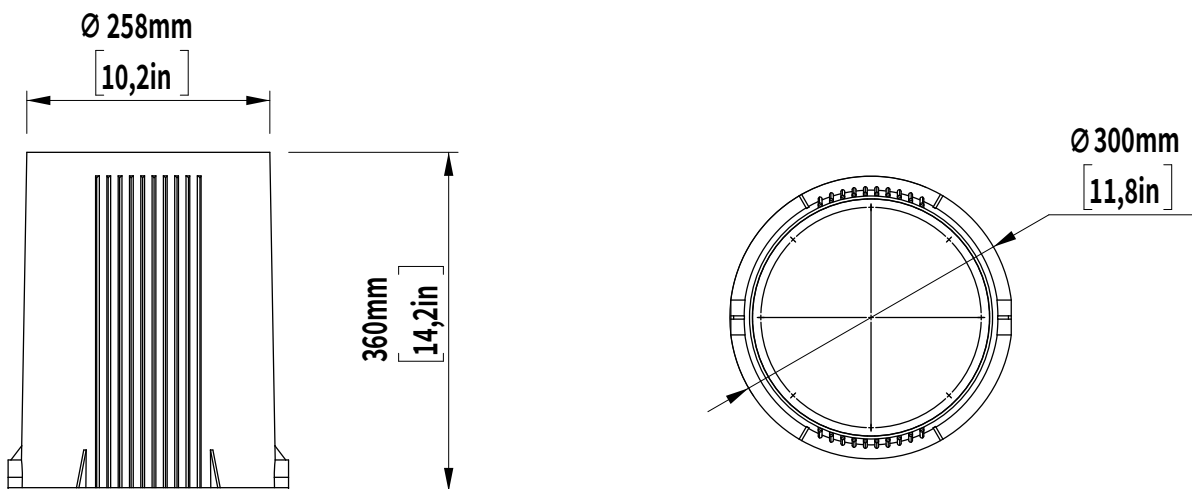
# RTS200

## INSTALLATION DETAILS

### Fixture



### Housing





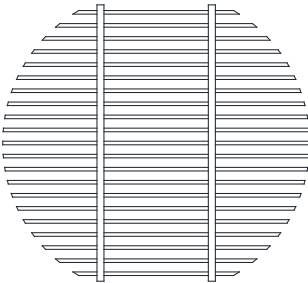
## RTS200

### LIGHT CONTROL

#### Internal light control:

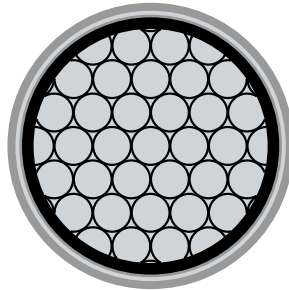
##### Microlouvre

Provides low glare control with 30% less lumen output than product without louvres. Best for use where pedestrians are at least 6m (20ft) from the light source



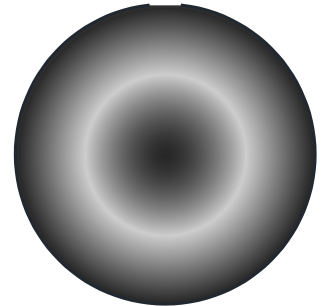
##### Hex louvre

Provides low glare control with 45% less lumen output than product without louvres. Best for use when there is no need for segment beam cut off such as in half moon



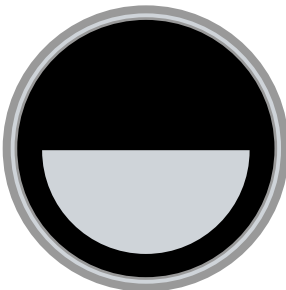
##### Discrete sight

Provides low glare control with 60% less lumen output than product without louvres. Best for use in high traffic areas where pedestrians are at least 0,5m (1,64ft) away from the source



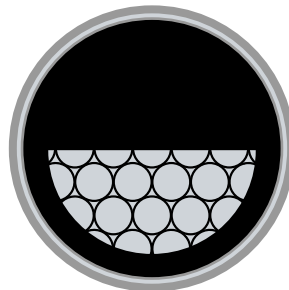
##### Halfmoon

Provides glare control by reducing lumen output and implementing a light beam cut-off, resulting in a 50% reduction in stray light and minimized light dispersion in undesirable directions.



##### Honeymoon

Combines the benefits of Hex Louvre and Halfmoon, offering both reduced glare and controlled light dispersion for comprehensive glare management.



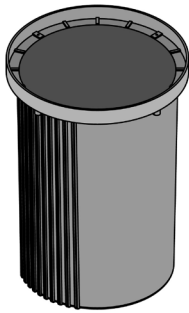


## RTS200

### MANDATORY ACCESSORIES

#### Installation Housing

Used to install single or multiple fixtures. Made out of extruded technopolymer with multiple cable entries and endcaps on both ends to mitigate any possibility of concrete entry. Versatile housing offers installation near the walls while allowing "stashing" multiple meters of cable in the plastic compartment. The housing offers the leveling option when installing on rough terrains. Drainage knock out hole available.

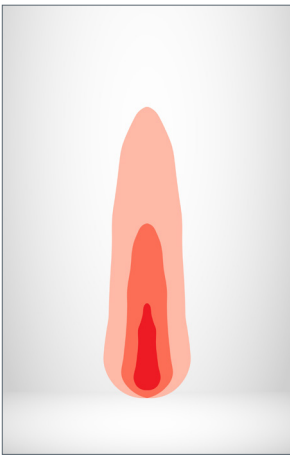
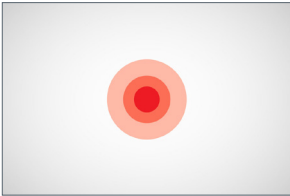




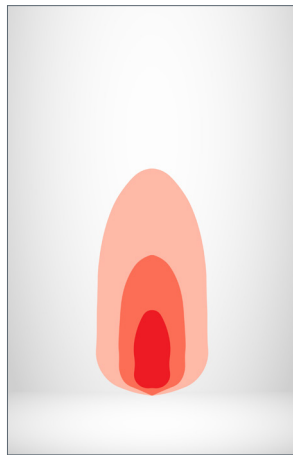
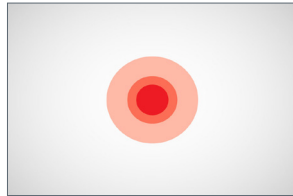
# RTS200

## OPTICS

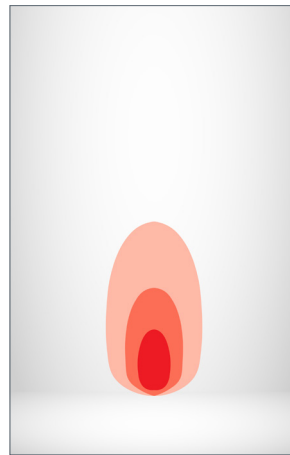
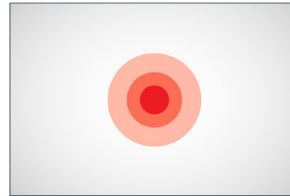
**Medium Spot**  
Angle: 15°x15°



**Narrow Flood**  
Angle: 30°x30°



**Medium Flood**  
Angle: 40°x40°





## Control

### DALI D4i SYSTEM TOPOLOGY

#### Integrated systems:

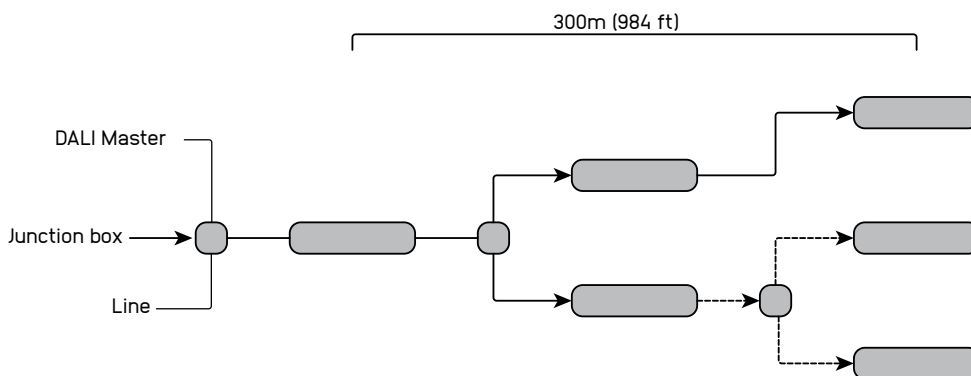
- Flow Sense
- Heat Sense
- Split & Seal
- IoT Ready

#### System components

- The DALI system, wiring, protective devices and junction boxes leading up to feed cable at the start of the line are the responsibility of others
- Feed cables and necessary accessories that are marked as mandatory must be ordered separately
- Advised protective components:
  - Surge protector device
  - Inrush current limiter

#### System topology

- In the system design, any of the following system topologies can be utilized: line wiring, star wiring, or tree wiring



#### Addressing & dimming notes

- DALI protocol allows addressing devices individually
- Addressing methods include a short address for individual devices, group addresses for up to 16 groups, and a broadcast address that targets everything on the line
- Amplitude dimming provided. Directly reduces the DC current flowing through the LEDs to lower light output, typically covering a 100%-1% range
- 1%-100% dimming range

#### Segment length and limitations

- The minimum segment length is equal to one product
- A DALI master has the capacity to manage a line containing a maximum of 64 devices. Each device can be allocated to 16 unique groups and 16 individual scenes.
- The maximum distance between two fittings is 30 meters [98ft], and the maximum distance between the first and last fitting is 300m [984ft].
- Used in single colour and tunable white applications

#### Fault tolerance

- Due to its relatively slow operating speed and high bus voltage, the DALI system exhibits significant reliability in the presence of electrical interference, making shielding unnecessary
- If one product fails the rest of the system continues to work