

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 30° adjustable tilt and 360° horizontal rotation

Mechanical details

- IK10 crystal-clear tempered glass, 15mm (0.59") thick
- IP68, rated for permanent submersion up to 15m (49')
- AISI316 stainless steel body
- Aluminum LED module
- 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
- Inrush current 20.3A / 346 microsecond
- Max. loading of MCB:
 - B10 (1.5mm²) - 11 luminaires
 - B16 (2.5 mm) - 17 luminaires
 - C10 (1.5 mm²) - 18 luminaires
 - C16 (2.5mm²) - 28 luminaires

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

MODEL		CABLE LENGTH	
RTS		OPTIONS	
POWER		00	• 0 - Standard feed cable 0.3m (1')
L	• L - 25W, 2700/3000/4000K, 2750lm	03	• 3 - Luminaire supplied with 3m (10') feed cable
OPTICS		06	• 6 - Luminaire supplied with 6m (20') feed cable
MS	• MS - Medium Spot 15°x15°	09	• 9 - Luminaire supplied with 9m (30') feed cable
NF	• NF - Narrow Flood 30°x30°	15	• 15 - Luminaire supplied with 15m (50') feed cable
MF	• MF - Medium Flood 40°x40°	20	• 20 - Luminaire supplied with 20m (65') feed cable
VOLTAGE			
230	• 230 - 220-240VAC, 50Hz		
CONTROL			
0	• 0 - On-Off Operation		
I	• I - DALI D4i Operation		
FINISH			
P	• P - Polished trim finish		
F	• F - Frosted trim finish		
INTERNAL LIGHT CONTROL			
0	• 0 - No internal light control		
1	• 1 - Microlouvre		
2	• 2 - Hex louvre		
3	• 3 - Discrete sight		
4	• 4 - Half Moon		
5	• 5 - Honeymoon		



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MANDATORY ACCESSORIES

Housing

HOUSING

RD200C

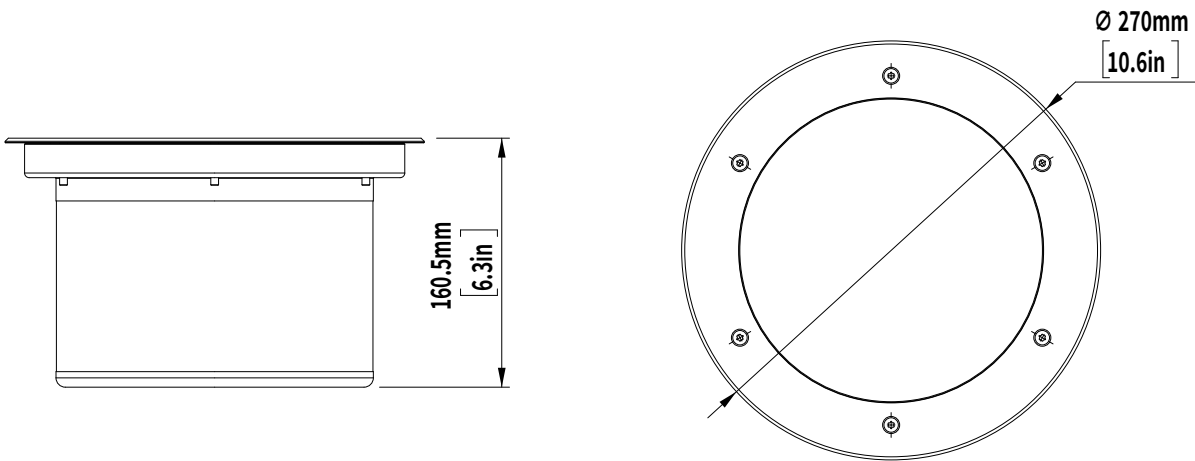
- RD200C - Technopolymer installation housing



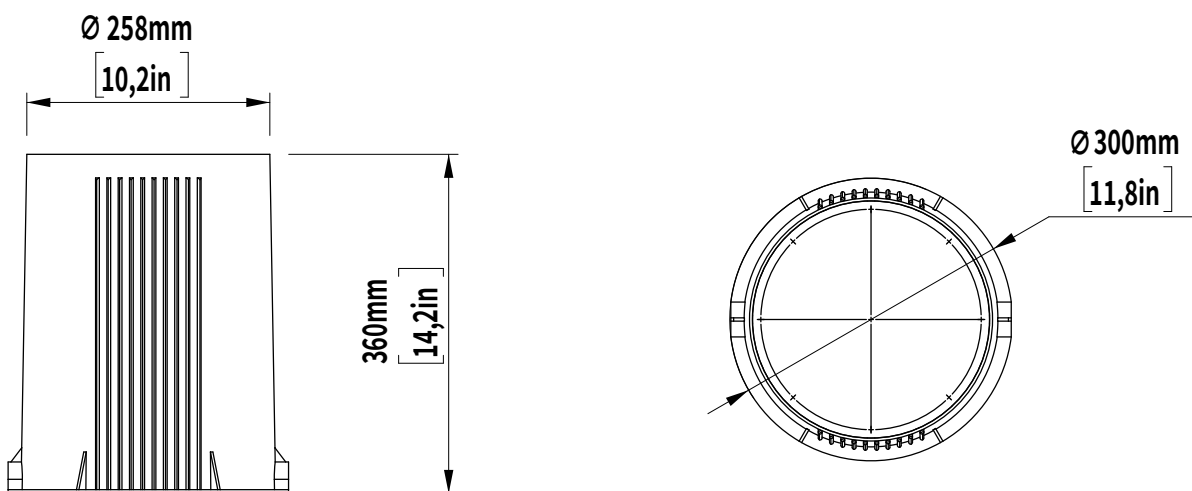
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INSTALLATION DETAILS

Fixture



Housing





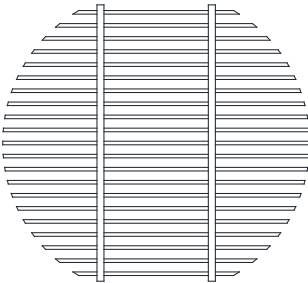
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LIGHT CONTROL

Internal light control:

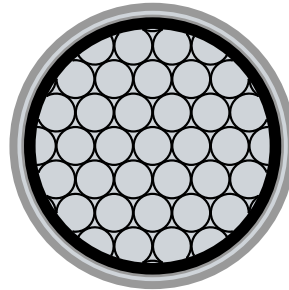
Microlouvre

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



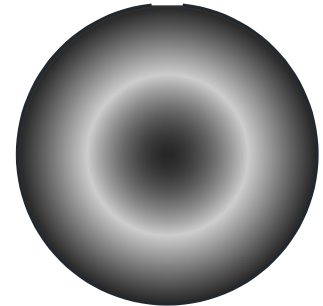
Hex louvre

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



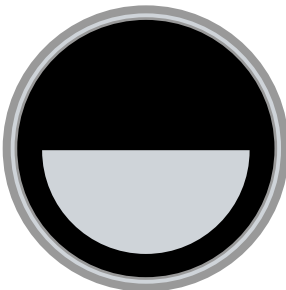
Discrete sight

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



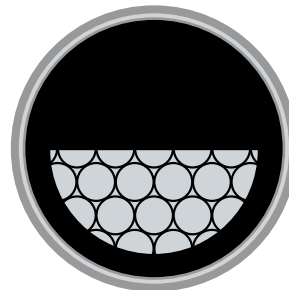
Halfmoon

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.



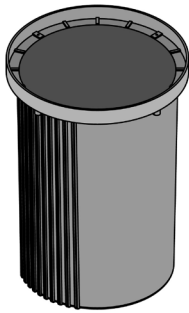


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MANDATORY ACCESSORIES

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.





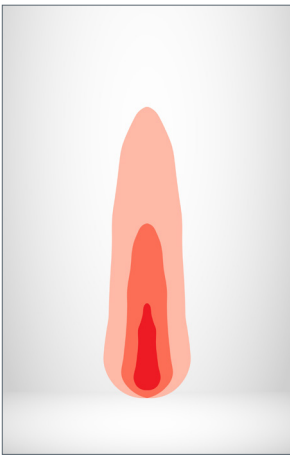
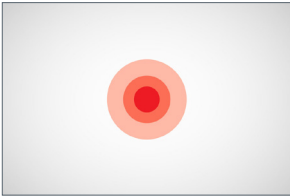
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OPTICS

Medium Spot

Angle: 15°x15°

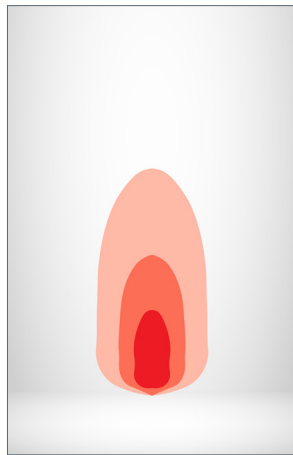
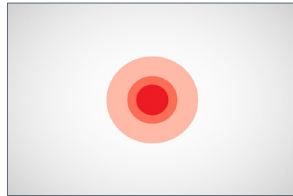
Delieverd lumens: 2750lm



Narrow Flood

Angle: 30°x30°

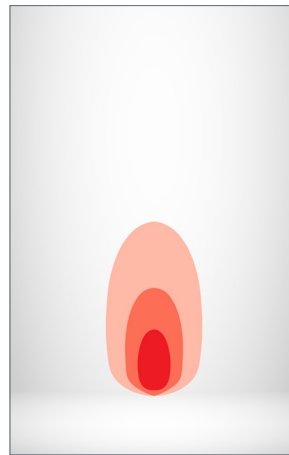
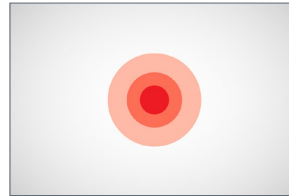
Dleivered lumens: 2500lm



Medium Flood

Angle: 40°x40°

Delieverd lumens: 2400lm



Notes

- Light output values based on 25W and 3000K product



Control

DALI D4i SYSTEM TOPOLOGY

Integrated systems:

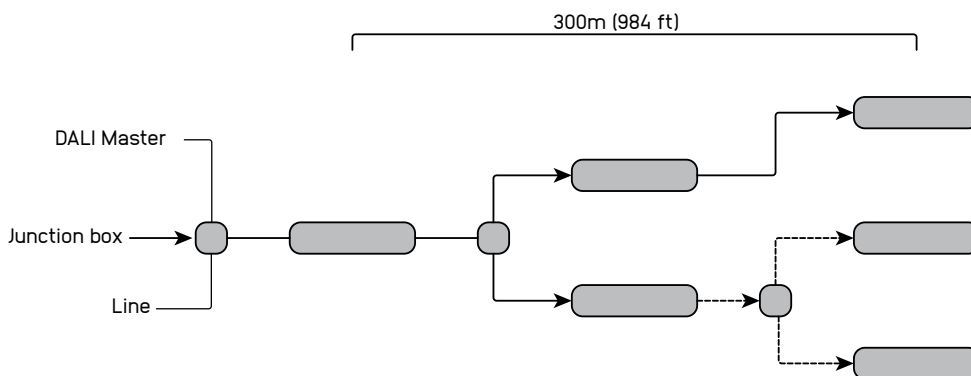
- Flow Sense
- Heat Sense
- Split & Seal
- IoT Ready

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