HYDREL
An AcuityBrands Company

PARADOX SERIES

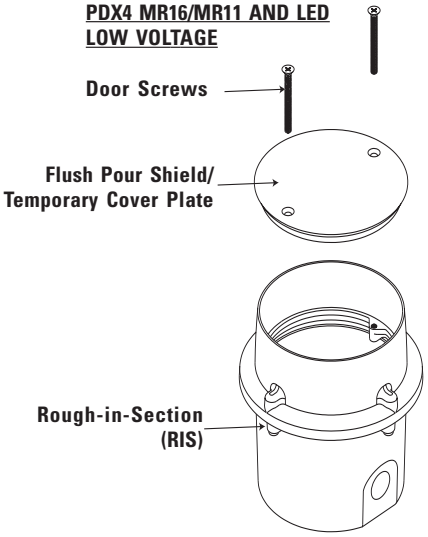
PDX4 LOW VOLTAGE AND LINE VOLTAGE

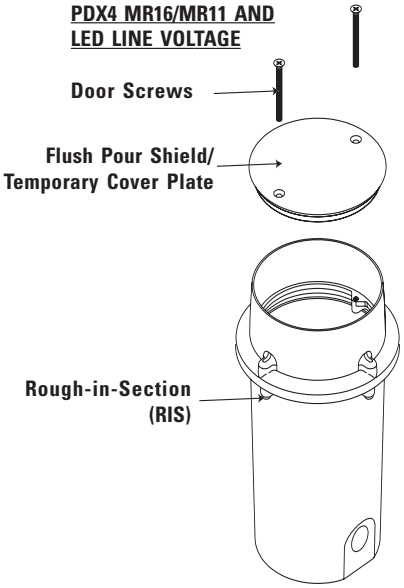
INSTALLATION INSTRUCTIONS

Installation should be performed by a qualified electrician in accordance with the National Electrical Code and relevant local codes.

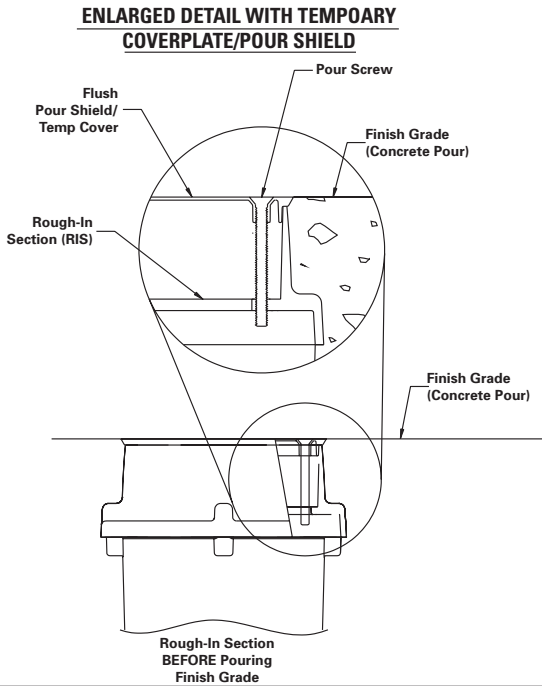
FOR INSTALLATION IN CONCRETE:

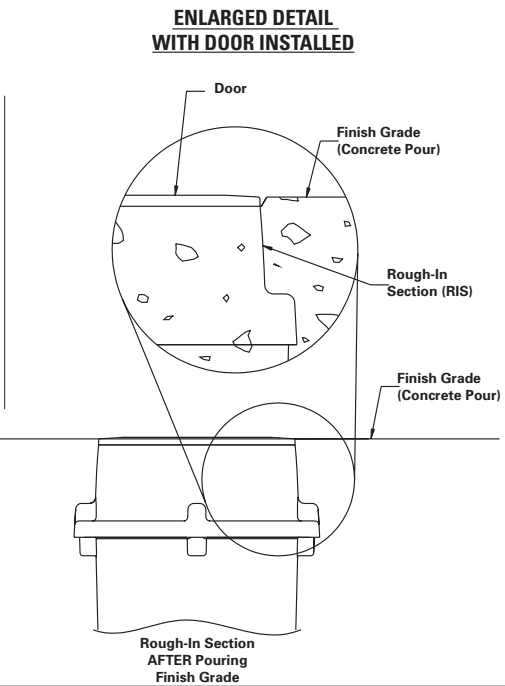
1. Dig a hole to appropriate depth allowing for rough-in-section to be secured to conduit.





2. Mount rough-in-section (RIS) with top of temporary pour shield at grade level.





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PARADOX SERIES

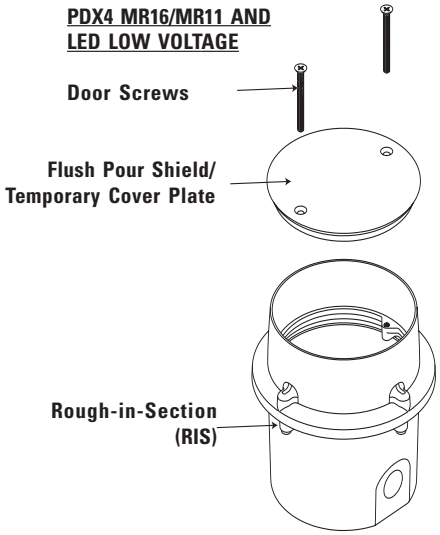
PDX4 LOW VOLTAGE AND LINE VOLTAGE

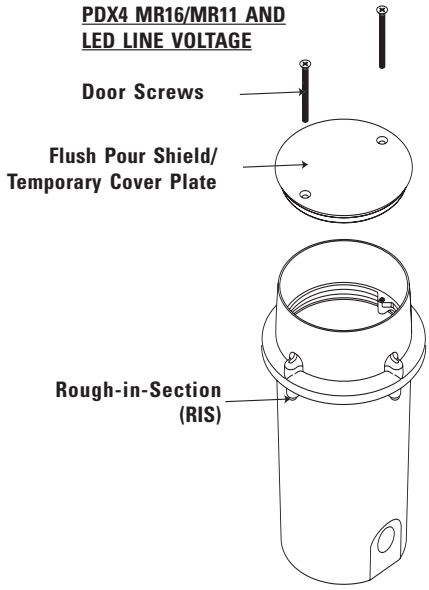
INSTALLATION INSTRUCTIONS

Installation should be performed by a qualified electrician in accordance with the National Electrical Code and relevant local codes.

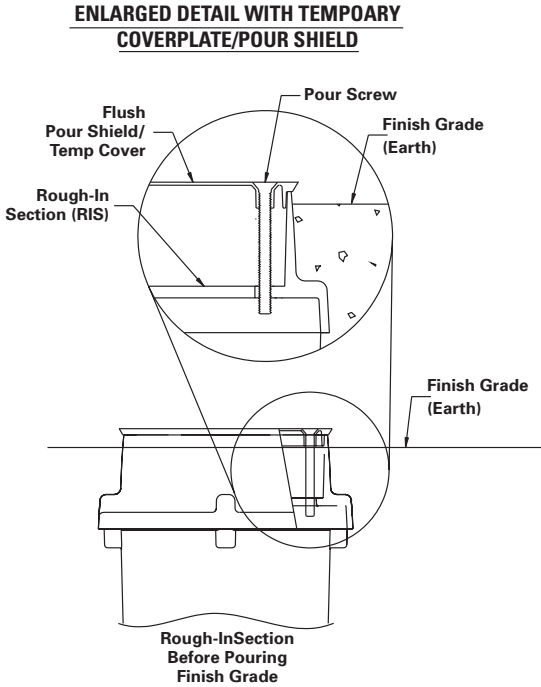
FOR INSTALLATION IN EARTH OR SOILS:

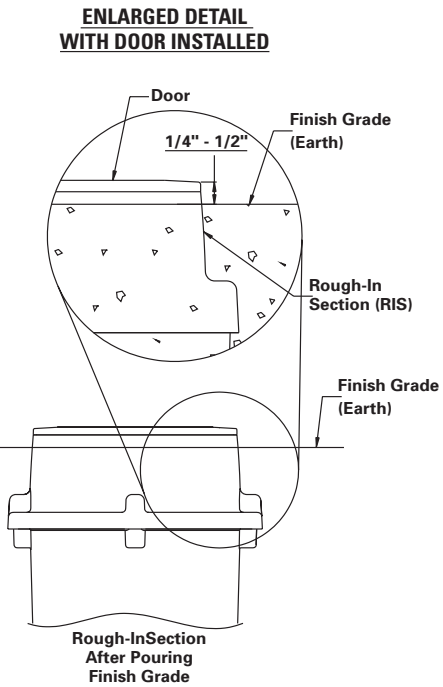
1. Dig a hole to appropriate depth allowing for rough-in-section to be secured to conduit or direct burial cable.





2. Mount rough-in-section (RIS) with top of temporary pour shield 1/4″ to 1/2″ above grade level.





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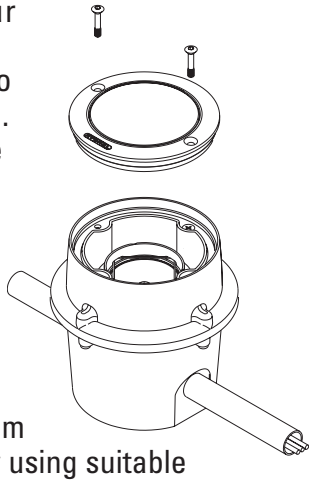
INSTALLATION INSTRUCTIONS

Installation should be performed by a qualified electrician in accordance with the National Electrical Code and relevant local codes.

LOW VOLTAGE WIRING

3. Remove temporary pour shield.

4. Connect 1/2" NPT conduit to RIS (side or bottom entry). Seal conduit using suitable thread sealing compound to ensure conduit is water-tight and to prevent moisture penetration from conduit system.



4a. Secure 1/2" NPT cord seal and direct burial cable **(by others)** to RIS (side or bottom entry). Seal cord seal entry using suitable thread sealing compound to ensure conduit is water-tight and to prevent moisture penetration from cable system.

Cable Size Constant Chart*

CABLE SIZE	CABLE SIZE CONSTANT
#18	1380
#16	2200
#14	3500
#12	7500
#10	11,920
#8	18,960
#6	30,150

VOLTAGE DROP FORMULA

$$\frac{\text{Total Watts on Cable} \times \text{Length of Run}}{\text{CABLE SIZE CONSTANT*}} = \text{VOLTAGE DROP}$$

**** Refer to Hydrel Transformer Specifications***

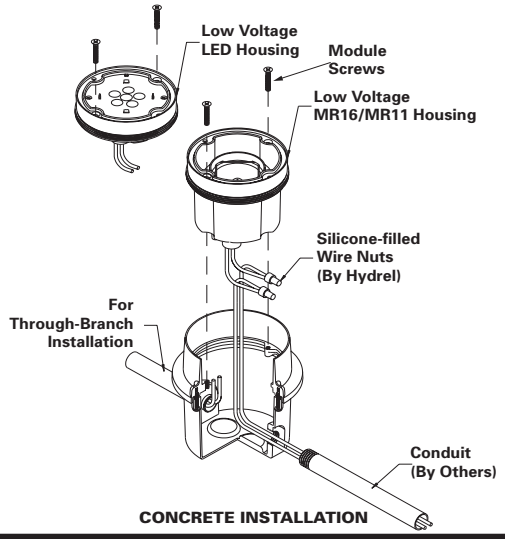
5. Pull electrical supply conductors and make wire splices with lamp housing in accordance with NEC. **(IMPORTANT! Use silicon filled wire nuts.)**

6. While aligning notches in housing with tabs in RIS, gather spliced wiring below and tighten assemblies together with module screws.

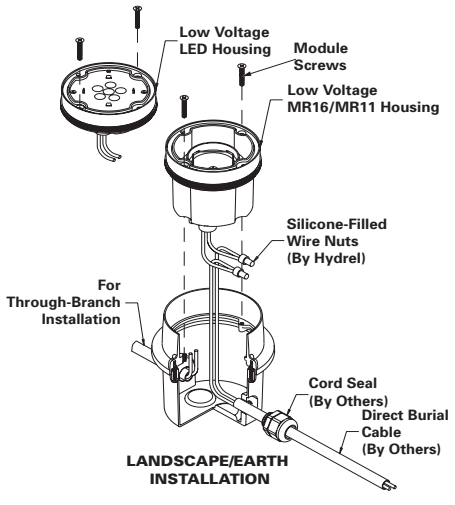
7. Adjust assembly to aim. (MR16/MR11 models only)

7a. For LED aiming, use appropriate tilt insert. Secure to inside of lens with retaining ring.

8. Install door lens assembly ensuring screws are tight.



CONCRETE INSTALLATION



LANDSCAPE/EARTH INSTALLATION

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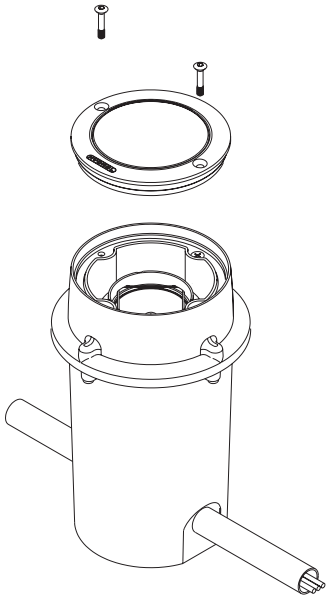

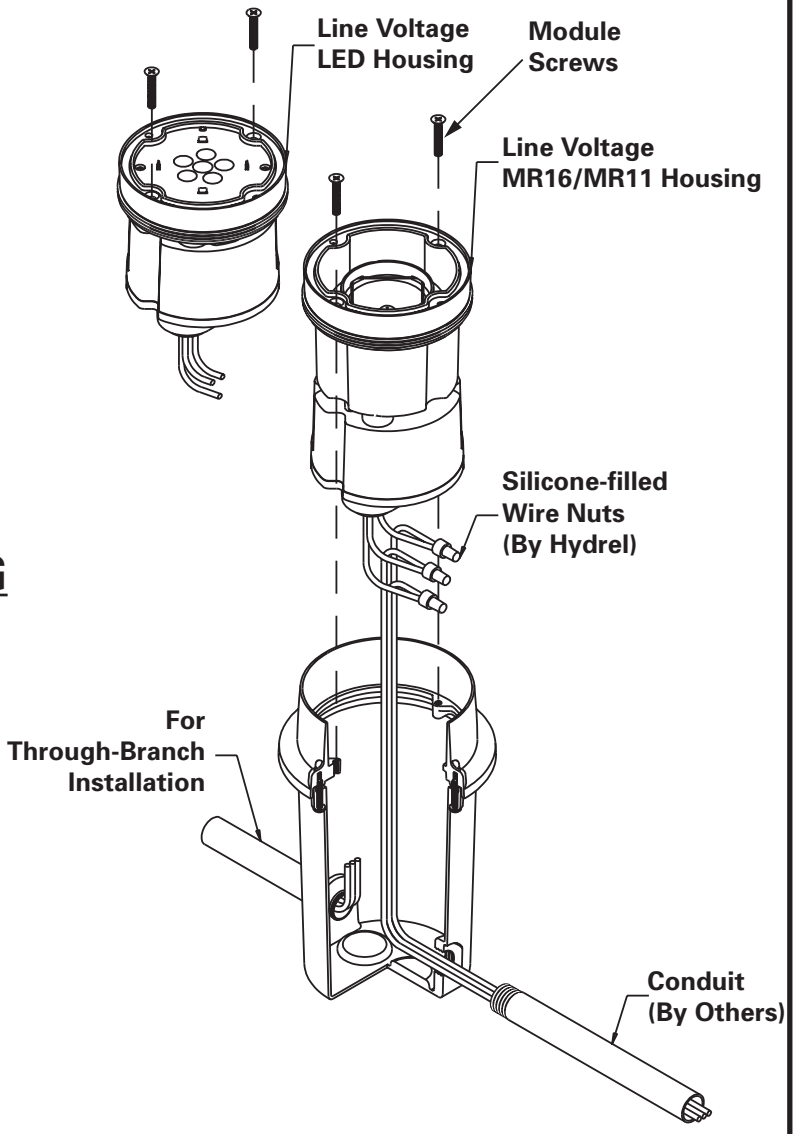

LINE VOLTAGE WIRING

3. Remove temporary pour shield.

4. Connect 1/2" NPT conduit to RIS (side or bottom entry). Seal conduit using suitable thread sealing compound to ensure conduit is watertight and to prevent moisture penetration from conduit system.

5. Pull electrical supply conductors and make wire splices with lamp housing in accordance with NEC. **(IMPORTANT! Use silicon filled wire nuts.)**

6. While aligning notches in housing with tabs in RIS, gather spliced wiring below and tighten assemblies together with module screws.

7. Adjust assembly to aim. (MR16/MR11 models only)

7a. For LED aiming, use appropriate tilt insert. Secure to inside of lens with retaining ring.

8. Install door lens assembly ensuring screws are tight.

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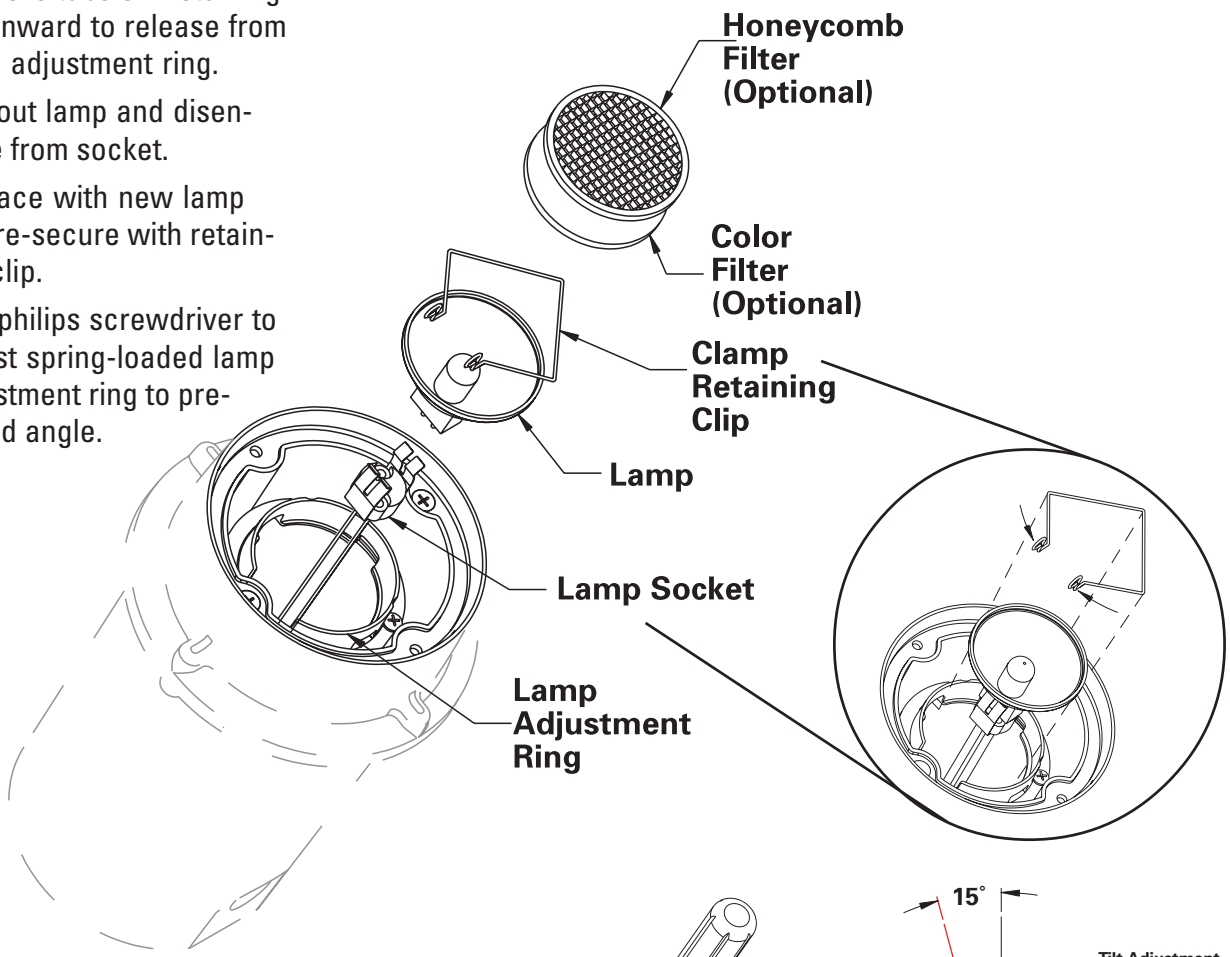
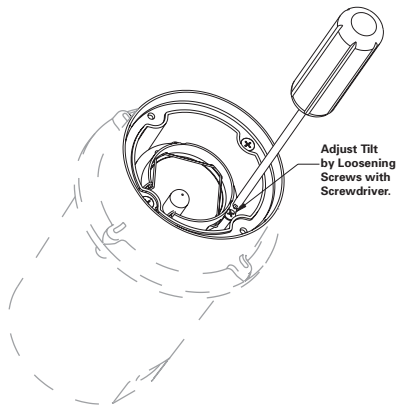
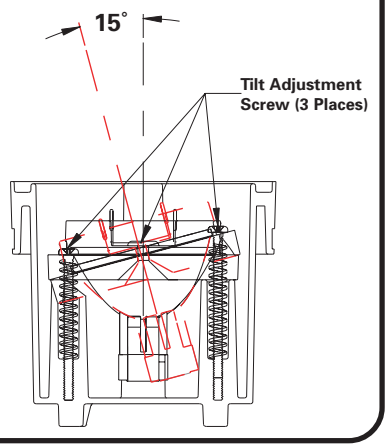
Installation should be performed by a qualified electrician in accordance with the National Electrical Code and relevant local codes.

MR16/MR11 ADJUSTMENT/RELAMPING

1. Squeeze tabs on retaining clip inward to release from lamp adjustment ring.
2. Pull out lamp and disengage from socket.
3. Replace with new lamp and re-secure with retaining clip.
4. Use philips screwdriver to adjust spring-loaded lamp adjustment ring to preferred angle.







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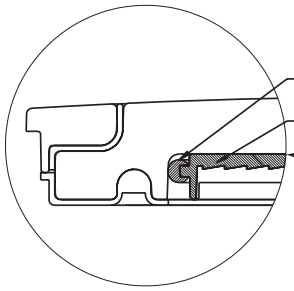
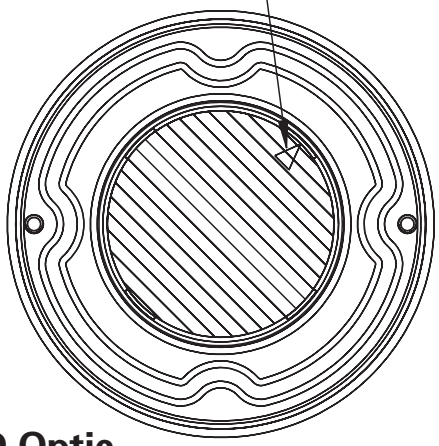
LED TILT LENS INSTALLATION



LED Optic Detail

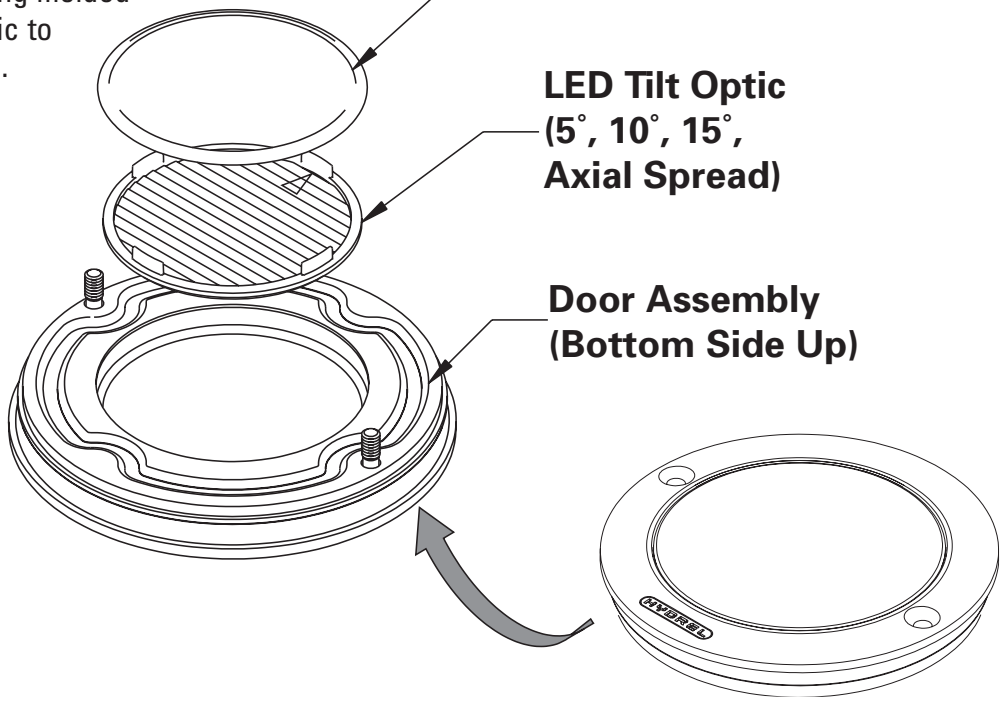
LED Optic should be pushed against bottom of lens as shown in detail.

Arrow Indicates Tilt Direction



LED TILT-LENS ASSEMBLY AND ADJUSTMENT

1. Attach retaining ring around edge of LED tilt optic (5°, 10°, 15° or axial spread) and press against underside of lens.
2. Adjust tilt by rotating molded arrow detail in optic to preferred direction.



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