



4421C

LED Wet Niche Swimming Pool

Specifications

| | |
|---------|-------|
| Weight: | 20lbs |
|---------|-------|

HIGHLIGHTS

- COB technology
- Color temperature available in 27K, 30K, 35K 40K and 50K
- IDIM In-line dimming option available
- Fixture can be installed inside an existing 4421 incandescent niche

5
YEAR
warranty

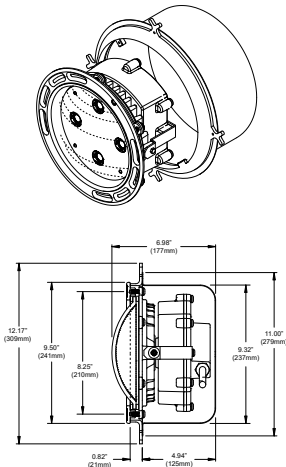


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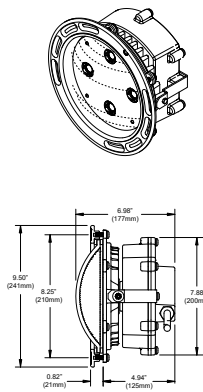


DIMENSIONS

LUMEN PACKAGES



Fixture and Niche



Fixture less Niche

| | 27K | 30K | 35K | 40K | 50K |
|------------------|-------|-------|-------|-------|-------|
| Watts | 54 | 54 | 54 | 54 | 54 |
| Delivered Lumens | 4560 | 4772 | 5103 | 5316 | 5343 |
| LPW | 84.44 | 88.37 | 94.50 | 98.44 | 98.94 |
| Peak Candela | 2306 | 2414 | 2581 | 2689 | 2702 |

ORDERING INFORMATION
EXAMPLE: 4421C B LED 27K 120 WFL CLS NM 34B IDIM CSL35 SWM

| Series* | Material* | Source* | LED Color* | Voltage* | Distribution* | Lens* | Mounting* | | |
|---|-----------|--------------------------------------|---|--|---------------|-------------------------------|----------------|--|--|
| 4421C | B Bronze | LED | 27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K | 120 | WFL Flood | CLS Convex Linear Spread Lens | NM Niche Mount | | |
| Conduit Entry | | Dimming | | Cord Set Length* | | Application* | | Optional Listing | |
| 34B 3/4NPT on Bottom Note: If existing 4421 incandescent niche is present do not call out conduit. Fixture can be installed inside the existing niche. | | IDIM In-Line Dimming Dims to Dark | | CSL___ 35'-120' of cord available in 5' increments | | SWM Swimming Pool Fixture | | CSA Canadian Listing (for sale in Canada only) | |

*Required Fields

PERFORMANCE DATA
LUMEN OUTPUT

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact factory for performance data on any configurations not shown here

Photometric data for underwater lighting is based on the theoretical output of a dry fixture. The final output of a fixture placed in water is determined by the depth that the fixture is placed, the clarity and turbulence of the water and the color of the surrounding concrete and/or tile.

| Performance Package | System Watts | Distr. Type | Field Angle | | Beam Angle (50%) | | 27K (2700 CCT) | | | 30K (3000 CCT) | | | 35K (3500 CCT) | | | 40K (4000 CCT) | | | 50K (5000 CCT) | | |
|---------------------|--------------|-------------|-------------|------|------------------|-----|----------------|--------|-------|----------------|--------|-------|----------------|--------|-------|----------------|--------|-------|----------------|--------|-------|
| | | | °H | °V | °H | °V | Max Cd | Lumens | LPW | Max Cd | Lumens | LPW | Max Cd | Lumens | LPW | Max Cd | Lumens | LPW | Max Cd | Lumens | LPW |
| LED | 54W | WFL | 139° | 136° | 92° | 92° | 2306 | 4560 | 84.44 | 2414 | 4772 | 88.37 | 2581 | 5103 | 94.50 | 2689 | 5316 | 98.44 | 2702 | 5343 | 98.94 |

LUMEN AMBIENT TEMPERATURE (LAT) MULTIPLIERS

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

| Ambient | | Lumen Multiplier |
|---------|-------|------------------|
| 0°C | 32°F | 1.02 |
| 10°C | 50°F | 1.01 |
| 20°C | 68°F | 1 |
| 25°C | 77°F | 1 |
| 30°C | 86°F | 1 |
| 40°C | 104°F | 0.99 |

PROJECTED LED LUMEN MAINTENANCE

Data references the extrapolated performance projections for the Fixture platform in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

| Operating Hours | 0 | 25,000 | 50,000 | 100,000 |
|--------------------------|---|--------|--------|---------|
| Lumen Maintenance Factor | 1 | 0.94 | 0.93 | 0.92 |

ELECTRICAL LOAD

| Light Engines | Drive Current (mA) | System Watts | Current (A) |
|---------------|--------------------|--------------|-------------|
| LED | 350 | 54W | 0.45 |

SPECIFICATIONS AND FEATURES

FIXTURE HOUSING & DOOR: Heavy wall cast bronze construction.

NICHE: Stainless steel with cast bronze mounting ring, which has provisions for positive locking of fixture into position, and four ears for tie to forms or steel structural rods. Pressure grounding lug on interior and exterior surfaces. Conduit entrance is 3/4" NPT with 3/4" x 1/2" NPT reducer bushing supplied.

SOURCE: 4 COB (chip on board) LEDs, 54 watt

CCT: 2700K, 3000K, 3500K, 4000K and 5000K chips available

DISTRIBUTION: Available in a Wide Flood (NEMA 7x7)

LENS: Heat resistant tempered glass with a 30° spread and 15° downward deflection.

GASKET: Single-piece molded U-shaped silicone.

CORD: Minimum of 35' of #16-3 ST submersible rated cord. Cord entrance is brass water-tight seal and epoxy encapsulated. Cord length must be specified.

NOTE: Sufficient cord should be coiled in the fixture niche to allow for the removal of fixture to above water level for re-lamping.

FACTORY LEAK TESTED: Fixtures are tested at 10 PSI (0.70kg/cm²) internal pressure while totally submerged in water.

LOW WATER CUT OFF: Temperature sensing low water cut-off standard.

LISTING: cCSAus, submersible luminaire suitable for swimming pools, laboratory tests conducted by CSA to UL Standard UL-676 and UL-8750

GOVERNMENT PROCUREMENT

BAA – Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations.
BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act. Please refer to www.acuitybrands.com/resources/buy-american for additional information.

WARRANTY: 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

NOTE: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.