# P22-25ER • ESSENTIAL

2.5" LED ESSENTIAL
RECESSED DOWNLIGHT

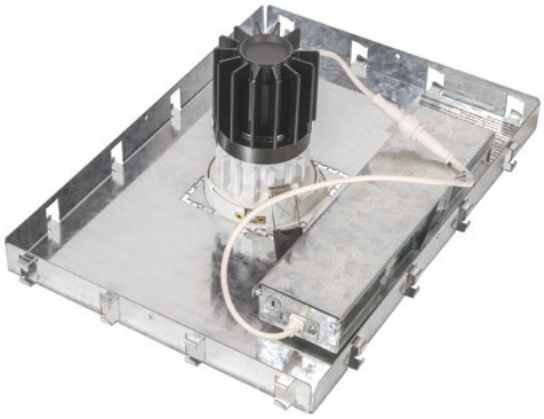
| | |
|---|---|
| Fixture Type | |
| Project | |
| Notes | |



WW



BB





JESCO introduces the new **P22 Series Downlights** as part of our **Essential Quick Ship Program**. Designed for New Construction applications, the P22 Essential Series offers a Round Downlight in two finishes: Matte Black Baffle/Black Trim and Matte White Baffle/White Trim. These fixtures deliver a warm 3000K color temperature, high 90 CRI, and are compatible with TRIAC, ELV, and 0-10V dimming, offering exceptional versatility and color accuracy. Ideal for residential spaces, multi-family homes, and apartments, the **P22 Essential Series** is in stock at our New York and California warehouses, ensuring quick shipping to meet budgets and accelerate project timelines—all without compromising quality.

120-277V AC | DIMMABLE | 2SDCM | 55° BEAM ANGLE | SELF FLANGED | CUT-OUT: 3 ⅛" Ø | INDOOR | L70 50,000 HOURS | 5 YEAR WARRANTY | Intertek | JA8 TITLE 24

## SPECIFICATIONS

| | |
|---|---|
| **INPUT VOLTAGE** | 120-277V AC |
| **POWER** | 18W |
| **LUMENS** | 1200 Lm |
| **EFFICACY** | 67 Lm/W |
| **CCT** | 3000K |
| **CRI** | 90+ |
| **COLOR CONSISTENCY** | 2-Step MacAdam |
| **BEAM ANGLE** | 55° |
| **DIMMING** | TRIAC, ELV, 0-10V |
| **CONSTRUCTION** | New Construction |
| **BAFFLE** | Round |
| **REFLECTOR** | Fixed Downlight |
| **DIMENSIONS** | See page 3 |
| **CUT-OUT** | 3 ⅛" Ø |
| **ENVIRONMENT** | Indoor - Dry, Damp, Wet |
| **OPERATING TEMP** | -4˚F ~ 104˚F |
| **CERTIFICATIONS** | cETLus Listed, JA8 Title24 Compliant |
| **LUMEN MAINTENANCE** | 50,000 hours |
| **WARRANTY1** | 5 years |

[1] See published warranty terms for detailed information

**FOR ORDERING INFO:** See page 2

## BAFFLES

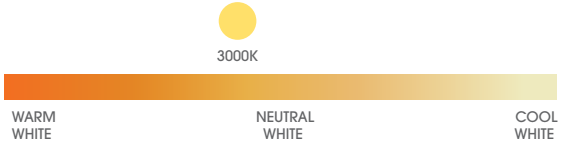
| Type | Rotation | Tilt | Environment |
|---|---|---|---|
| Downlight | 360° | 0° | Wet |

## INSTALLATION

INSTALL

**P22-25-NC**
NEW CONSTRUCTION

## COLOR TEMPERATURE




IES

**P22-25ER**
Round
Downlight

**FOR PHOTOMETRIC DATA:** See page 2

**NY** 15 Harbor Park Drive, Port Washington, NY 11050 | Main 800 527 7796 | Fax 855 265 5768
**CA** 219 South 6th Ave, City of Industry, CA 91746 | Main 800 527 7796 | Fax 855 265 5768
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| | |
|---|---|
| Fixture Type | |
| Project | |
| Notes | |

## PERFORMANCE DATA

| Luminaire Wattage | Delivered Lumens | Lumens/Watt | EM Dimming |
|---|---|---|---|
| 18W | 1200 Lm | 67 | TRIAC, ELV, 0-10V |

### TECHNICAL PARAMETERS

| Dimming Protocol | Dimming Range | Input Voltage | Power Factor | THD |
|---|---|---|---|---|
| TRIAC, ELV, 0-10V | 10%-100% dim to off | 120-277V AC | 0.95 | <20% |

## ORDERING INFO

| SERIES | | TYPE | | CCT/CRI | | FINISH |
|---|---|---|---|---|---|---|
| P22 | - | 25ER | - | 3090 | - | |

**P22**

**25ER**
2.5" Essential New Construction
18W 3000K 90CRI 55° Round Downlight

**3090** - 3000K 90CRI

**BB** - Black Baffle, Black Trim
**WW** – White Baffle, White Trim

## P22 HOUSING

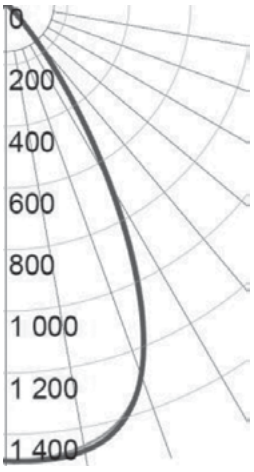


| | |
|---|---|
| | **2.5" New Construction Mounting Plate** |
| **DIMMING** | **TRI** - TRIAC, ELV (120V AC Input) |
| | **010** - 0-10V (120-277V AC Input) |

## APPLICATION DATA

**ROUND DOWNLIGHT** 18W 3000K 90CRI

**VW – 55° Very Wide Flood**
1234 Lm
80° Field Angle
UGR 8.0

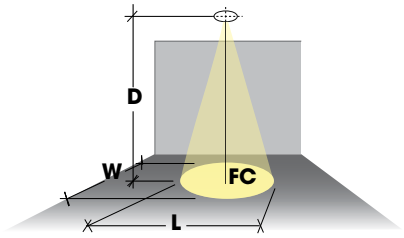



### Candelas at Nadir

| DEGREES | CANDELA |
|---|---|
| 0 | 1485 |
| 5 | 1488 |
| 15 | 1422 |
| 25 | 1016 |
| 35 | 348 |
| 45 | 32 |

### 0° Aiming Angle Horizontal Footcandles

| D | FC | L | W |
|---|---|---|---|
| 5.0" | 59 | 5.2 | 5.2 |
| 7.5" | 26 | 7.8 | 7.8 |
| 10.0" | 15 | 10.4 | 10.4 |
| 12.5" | 10 | 13.0 | 13.0 |




**Notes and Definitions**

Beam spread is to 50% center beam candlepower (CBCP).
Field is 10% center beam candlepower (CBCP).
**D** = Distance to floor or wall.
**FC** = Footcandles on floor or wall at center beam aiming location.
**L** = Effective Visual Beam length in feet (50% of maximum footcandle level).
**W** = Effective Visual Beam width in feet (50% of maximum footcandle level).
**CB** = Distance accross or down to center beam location.


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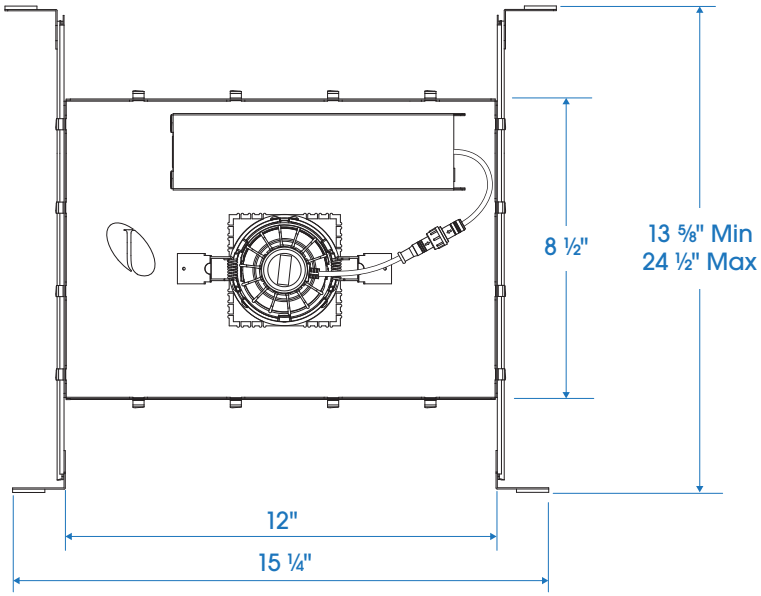

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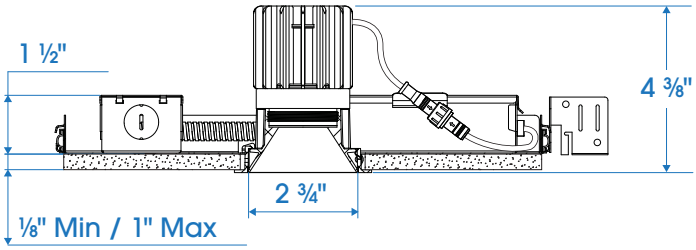
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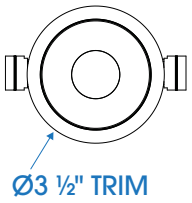
| | |
|---|---|
| Fixture Type | |
| Project | |
| Notes | |

## DIMENSIONS




### Ceiling cut out: Ø3 ⅛"





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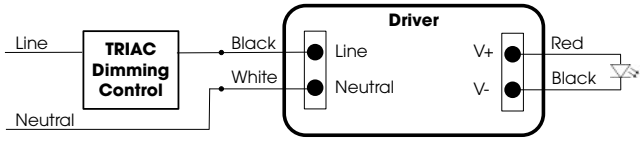
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## WIRING DIAGRAM

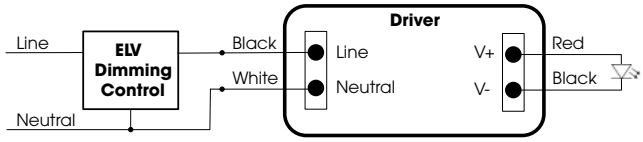
### TRIAC / Forward Phase / Leading Edge Dimming (TRI)

Input 120VAC 50/60Hz
Range 10%-100%



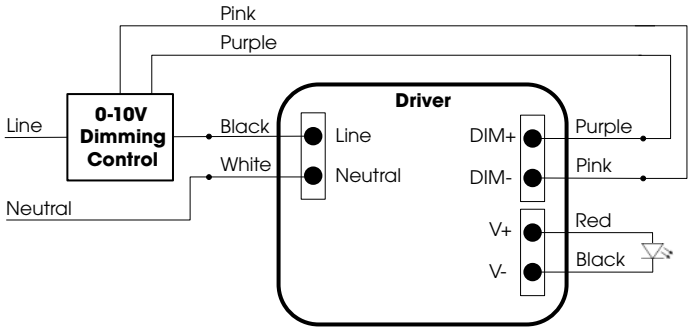

### ELV / Reverse Phase / Trailing Edge Dimming (TRI)

Input 120VAC 50/60Hz
Range 10%-100%




### 0-10V Dimming (010)

Input 120VAC 50/60Hz
Range 10%-100%




JESCO recommends testing your unique dimming configuration as the exact full configuration (Dimmer, Fixture Quantity, Voltage, etc) may affect dimming performance. Diagrams are examples of typical installations. Refer to specific dimmer manufacturer's documentations for details.


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