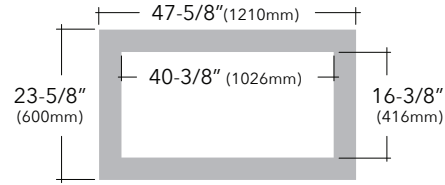


# QIVI™ Q3R-24D

2' x 4' Recessed Architectural Shape

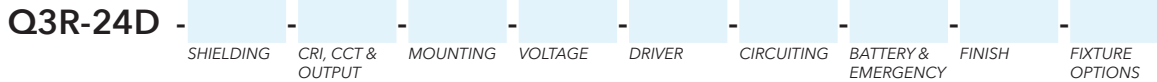


## Key Features

- Extruded aluminum trim with formed cold rolled 18 gauge steel back box housing
- Highly reflective white painted steel reflector
- 5-year limited warranty covers LED, driver and fixture
- UL and cUL listed. IC rated
- Approved for dry/damp location unless otherwise noted
- Maximum fixture weight is 27.4 lbs
- Room-Side Maintenance for LED system
- Buy American Act compliant





Example Part #: Q3R-24D-A-830HO-G1-U-OL1-1-0-W



SHIELDING	CRI, CCT & OUTPUT	MOUNTING	VOLTAGE
<b>A</b> - Satine Lens <b>HE</b> - High Efficiency <i>Shielding pg. 2</i>	<b>_27_</b> - 2700K <b>_30_</b> - 3000K <b>_35_</b> - 3500K <b>_40_</b> - 4000K <b>CL</b> - Custom Lumens <b>CW</b> - Custom Watts <i>Lumen Output pg. 2</i> <i>Example: 830HO is 8 = 80 CRI; 30 = 3000K; HO = High Output</i>	<b>G1</b> - 15/16" Grid <b>G9</b> - 9/16" Grid <b>GS</b> - Screw Slot Grid <b>FL</b> - Flanged <b>NF</b> - Non Flanged <b>SF</b> - Spackle Flange <i>Mounting pg. 3</i>	<b>U</b> - Universal (120 thru 277V) <b>1</b> - 120V <b>2</b> - 277V <b>3</b> - 347V <i>Voltage pg. 3</i>
DRIVER	CIRCUITING	BATTERY & EMERGENCY	FINISH
<b>OL1</b> - Osram (10%, 0-10v, standard) <b>OL2</b> - Osram (1%, 0-10v) <b>OL3</b> - Osram 347v (10%, 0-10v) <b>EE1</b> - eldoLED ECOdrive (1%, 0-10v) <b>ES1</b> - eldoLED SOLOdrive (0%, 0-10v) <b>LH1</b> - Lutron Hi-lume (1%, EcoSystem) <b>L51</b> - Lutron 5-Series (5%, EcoSystem) <b>PL2</b> - Philips Xitanium (1%, 0-10v) <b>PS1</b> - Philips Xitanium (50%/100%) <b>ND</b> - Non-Dimming <i>Driver pg. 3</i>	<b>1</b> - Single Circuit <b>E</b> - Emergency ( <i>entire fixture</i> ) <b>N</b> - Night Light ( <i>entire fixture</i> ) <i>Circuiting pg. 4</i>	<b>0</b> - None <b>_P</b> - Philips Bodine 10W <b>_I</b> - Iota 10W Integral <b>_IC</b> - Iota 10W Integral (CEC Listed) <i>Battery and Emergency pg. 4</i>	<b>W</b> - White <b>S</b> - Metallic Silver <b>BL</b> - Textured Black <b>BR</b> - Bronze <b>GR</b> - Graphite <b>CC</b> - Custom Color <i>Finish pg. 4</i>
FIXTURE OPTIONS	CONTROLS		
<b>TW</b> - Through-wiring <b>CP</b> - Chicago Plenum <b>AM</b> - Antimicrobial Paint <b>FW6</b> - 6' Flex Whip <b>FW12</b> - 12' Flex Whip <b>GLR</b> - Fast Blow Fuse <b>GMF</b> - Slow Blow Fuse <i>Fixture Options pg. 4</i>	<i>Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.</i>		



## Shielding

A	HE
Satine Lens	High Efficiency
	

## CRI, CCT & Output

- Specify either 80 or 90 CRI
- Longer lead-time may apply for 90 CRI. Consult factory
- 80 CRI = R9≥19 and 90 CRI = R9≥61

### Custom Output - Lumens OR Wattage

<b>CL</b> _____	Specify CRI, CCT and desired lumens (i.e. CL835500)	Specify lumens between standard offering listed below. Lumens are specified per color temp
<b>CW</b> _____	Specify CRI, CCT and desired wattage (i.e. CW9407)	Specify watts between standard offering listed below

### 80 CRI

	Color	Lumens	Shielding		HE	
			A	HE	A	HE
			Satine LPW	Watts	High Efficiency LPW	Watts
<b>830</b>	3000K	6000	87.7	68.4	102.0	58.8
<b>830HO</b>	3000K	9000	86.2	104.4	101.4	88.8
<b>830VHO</b>	3000K	12000	N/A		100.0	120.0
<b>835</b>	3500K	6000	92.6	64.8	106.4	56.4
<b>835HO</b>	3500K	9000	88.2	102.0	104.2	86.4
<b>835VHO</b>	3500K	12000	N/A		103.1	116.4
<b>840</b>	4000K	6000	92.6	64.8	106.4	56.4
<b>840HO</b>	4000K	9000	89.3	100.8	105.6	85.2
<b>840VHO</b>	4000K	12000	N/A		104.2	115.2

### 90 CRI

<b>927</b>	2700K	6000	74.6	80.4	84.7	70.8
<b>927HO</b>	2700K	9000	73.5	122.4	84.3	106.8
<b>930</b>	3000K	6000	76.9	78.0	89.3	67.2
<b>930HO</b>	3000K	9000	76.5	117.6	87.2	103.2
<b>935</b>	3500K	6000	78.1	76.8	90.9	66.0
<b>935HO</b>	3500K	9000	78.1	115.2	88.2	102.0
<b>940</b>	4000K	6000	78.1	76.8	90.9	66.0
<b>940HO</b>	4000K	9000	77.3	116.4	88.2	102.0



## Mounting

- Designed to install into acoustical grid and inaccessible ceilings
- Tie off fixture to structure with retention wires
- Approved for dry/damp location unless otherwise noted

G1	G9	GS	FL	NF	SF
1" (15/16") T-Bar Flange to Flange: 3-13/16" (96.8mm)	9/16" T-Bar For tegular tile installations, fixture position will not be flush to the bottom of the tile Flange to Flange: 3-13/16" (96.8mm)	Screw Slot & 9/16" T-Bar For 9/16" installations with tegular tile, fixture position will be flush to the bottom of the tile Flange to Flange: 3-13/16" (96.8mm)	Exposed Standard 1/2" Flange Detail Flange to Flange: 4-1/8" (104.7mm)	Metal Pan or Millwork Flange to Flange: 3-7/16" (87.3mm)	Drywall, Flangeless Detail Flange to Flange: 5" (127mm)
Standard Tile	Standard Tile	Tegular Tile			
Tegular Tile	Tegular Tile	Tegular Tile			

## Voltage

- Some QIVI configurations will not accommodate all voltage options; consult with factory

<b>U</b>	Universal
<b>1</b>	120 volt
<b>2</b>	277 volt
<b>3</b>	347 volt

## Driver

- Standard Driver Option = OL1
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more Driver options, see Pinnacle Resource Guide
- Some QIVI configurations will not accommodate all driver options; consult with factory

<b>OL1</b>	Osram Optotronic 10%, 0-10v
<b>OL2</b>	Osram Optotronic 1%, 0-10v, nominal 1% dimming range
<b>OL3</b>	Osram Optotronic 347v 10%, 0-10v, requires 347v option
<b>EE1</b>	eldoLED ECOdrive 1%, 0-10v Logarithmic
<b>EE2</b>	eldoLED ECOdrive 1%, 0-10v Linear
<b>ES1</b>	eldoLED SOLOdrive 0%, 0-10v Logarithmic
<b>ES2</b>	eldoLED SOLOdrive 0%, 0-10v Linear
<b>LH1</b>	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
<b>L51</b>	Lutron 5-Series 5%, EcoSystem, LDE5
<b>PL2</b>	Philips Advance Xitanium 1%, 0-10v
<b>PS1</b>	Philips Advance Xitanium Step Dimming 50% / 100%
<b>ND</b>	Non-Dimming

Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions.

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Q3R-24D\_LED\_SPEC\_JAN2020



## Circuiting

- Select fixture circuiting from options below
- Some QIVI configurations will not accommodate all circuiting options; consult with factory

<b>1</b>	Single Circuit
<b>E</b>	Emergency Circuit only
<b>N</b>	Night Light Circuit only

## Battery

- Select battery section type if required, indicate total QTY. *Example 2P*
- 90 minute battery runtime; test button is remote to fixture and requires an additional drop
- For more battery options available, see Pinnacle Resource Guide

<b>0</b>	No battery
<b>_P</b>	Philips Bodine 10w Integral
<b>_I</b>	Iota 10w Integral
<b>_IC</b>	Iota 10w Integral (CEC Listed)

### For Approximate Battery Lumen Output

- Multiply battery wattage X fixture LPW shown on Lumen Table
- 92.3 (LPW) x 10 (watts) = 923 battery lumen output

### Battery OR Emergency Ordering Examples

- Single circuit, 10w Integral Battery      Ordering Code: 1-1P
- Emergency only, 10w Integral Battery      Ordering Code: E-1P

## Finish

- Powder-coat white painted finish on exposed trim

<b>W</b>	White
<b>S</b>	Metallic Silver
<b>BL</b>	Textured Silver
<b>BR</b>	Bronze
<b>GR</b>	Graphite
<b>CC</b>	Custom Color

## Fixture Options

- Additional options to enhance the fixture and finish of the product

<b>TW</b>	Through-Wiring
<b>CP</b>	Chicago Plenum
<b>AM</b>	Antimicrobial Paint
<b>FW6</b>	Flex Whip 6'
<b>FW12</b>	Flex Whip 12'
<b>GLR</b>	Internal Fast Blow Fuse
<b>GMF</b>	Internal Slow Blow Fuse

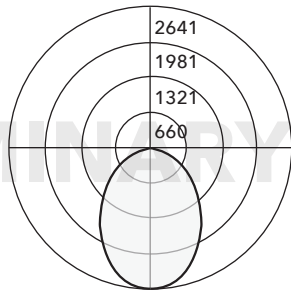
## Controls

- Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.

## Photometrics

### High Efficiency Lens

Test #	PRELIMINARY
Catalog #	Q3R-24D-HE-840
Lumens	6000 lm
Watts	56.4 W
Efficacy	106 LPW





## Applications & Certificates

**Construction:** Formed cold-rolled 18 gauge steel housing. Highly reflective die-formed white painted steel reflector.

**Shielding:** Diffuse snap-in acrylic lens, removable for maintenance.

**Mounting:** Designed to install into acoustical grid and inaccessible ceilings. Specify G1, G9 or GS for acoustical grid ceiling. Specify FL for inaccessible ceilings. Grid retention clips integral to housing and require mechanical attachment. Tie off fixture to structure with retention wires. Maximum fixture weight is 27.4 lbs.

**LED:** 25°C test environment. Lumen output/wattage has a margin of +/- 5%. All luminaire configurations tested in accordance with IES LM-79. Diodes tested in accordance with IES LM-80. Lifetime calculated using IES TM-21. Minimum lifetime greater than 60,000 hours. L70 = 121,600 hours and L90 = 36,200 hours. MacAdam 3-Step Ellipses. Not all products are lighting facts listed. For all available IES files, please visit our website at pinnacle-ltg.com.

**CRI, CCT & Output:** Three lumen packages available. Low (LO), Medium (MO) and High (HO). Custom outputs are available. Specify custom lumens or watts between standard offering listed on Color Temperature & Output page. 80 CRI is available for 3000K, 3500K, and 4000K. 90 CRI is available for 2700K, 3000K, 3500K, and 4000K. 80 CRI = R9≥19 and 90 CRI = R9≥61.

**Voltage:** Universal (U), 120 volt (1), 277 volt (2) and 347 volt (3) options available. Must specify OL3 in Driver section when 347 volt (3) is selected. Some QIVI configurations will not accommodate all voltage options; consult with factory.

**Driver:** Standard Driver Option is Osram 0-10V, 10% = OL1. Electronic driver, Power

factor is >0.9 with a THD <20%. Driver Lifetime: 50,000 hours at 25°C ambient operating conditions. Ambient operating range: -20°F/-30°C to 98°F/37°C. Some QIVI configurations will not accommodate all driver options.

**Circuiting:** Select from single circuit (1), Emergency circuit (E) or Night Light circuit (N). Some QIVI configurations will not accommodate all circuiting options, consult with factory.

**Battery & Emergency:** Select battery or emergency options if required. If battery or emergency option is not required, enter 0. Battery duration is 90 minutes as standard. Test button is integral to fixture. For more Battery options, see Pinnacle Resource Guide.

**Finish:** Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes. Contact factory for additional custom color and finish options.

**Controls:** Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.

**Labels:** UL and cUL Listed. STD, HO and VHO lumen packages are IC Rated, approved for dry/damp location unless otherwise noted.

**Fixture Weight:** 27.4 lbs maximum

**Buy American Act Compliant**

**Warranty:** QIVI LED offered with a 5-year limited warranty. Covers LED, driver and fixture.