

# PLC Lamp - CCT-Adjustable



PROJECT: \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE: \_\_\_\_\_

PREPARED BY: \_\_\_\_\_



18W/26W Replacement, 4-Pin Type A & 2-Pin Hybrid A/B, Omnidirectional, Horizontal or Vertical



KEY FEATURES

- 4 color temperatures in 1 SKU (2700/3000/3500/4000K)
- 18W-26W CFL replacements with G24d or G24q bases
- Ballast Bypass – Install directly to line voltage
- Compatible with G24d / GX24d & G24q / GX24q installations
- 5-Year, No-Compromise Warranty

## PERFORMANCE

| Catalog Number       | UL Installation Type | Wattage Equivalency | Input Wattage | Lumens              | Efficacy        | Dimming                                                 | Color Temperature                                    | Base Type |
|----------------------|----------------------|---------------------|---------------|---------------------|-----------------|---------------------------------------------------------|------------------------------------------------------|-----------|
| PLC-9-O-8FA-DIR-G24Q | Type A               | 26W CFL             | 9.5W          | 1190-1196-1274-1272 | 99/100/106/106  | 0-10V, on certain dimming ballasts                      | Field adjustable via dip switch 2700/3000/3500/4000K | G24Q      |
| PLC-9-O-8FA-HYB-G24Q | Hybrid A/B           | 26W CFL             | 9.5W          | 1190-1196-1274-1272 | 99/100/106/106  | Yes, on Type A installation only, dependent on ballast. |                                                      | G24Q      |
| PLC-9-O-8FA-HYB-G24D | Hybrid A/B           | 26W CFL             | 9W            | 1130-1143-1220-1214 | 129.3/141.2/137 | No                                                      |                                                      | G24D      |

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## PERFORMANCE (CONT)

| Catalog Number       | Lamp Wattage | CCT  | Efficacy | Lumens  | Equivalency Wattage |
|----------------------|--------------|------|----------|---------|---------------------|
| PLC-9-O-8FA-HYB-G24Q | 8.8W         | 2700 | 125 lm/W | 1100 lm | 26                  |
|                      |              | 3000 | 136 lm/W | 1200 lm |                     |
|                      |              | 3500 | 142 lm/W | 1250 lm |                     |
|                      |              | 4000 | 142 lm/W | 1250 lm |                     |

| Catalog Number       | Lamp Wattage | CCT  | Efficacy | Lumens  | Equivalency Wattage |
|----------------------|--------------|------|----------|---------|---------------------|
| PLC-9-O-8FA-DIR-G24Q | 12.5W        | 2700 | 92 lm/W  | 1150 lm | 26                  |
|                      |              | 3000 | 96 lm/W  | 1200 lm |                     |
|                      |              | 3500 | 100 lm/W | 1250 lm |                     |
|                      |              | 4000 | 100 lm/W | 1250 lm |                     |

| Catalog Number       | Lamp Wattage | CCT  | Efficacy | Lumens  | Equivalency Wattage |
|----------------------|--------------|------|----------|---------|---------------------|
| PLC-9-O-8FA-HYB-G24D | 8.7W         | 2700 | 126 lm/W | 1100 lm | 26                  |
|                      |              | 3000 | 138 lm/W | 1200 lm |                     |
|                      |              | 3500 | 144 lm/W | 1250 lm |                     |
|                      |              | 4000 | 144 lm/W | 1250 lm |                     |

## TECHNICAL SPECIFICATIONS

### CONSTRUCTION

**Product Type**

Omnidirectional PL Lamps  
with CCT-Adjustability

**Shape**

PLC - Quad Tube

**Lamp Base**

PLC Type A: 4-Pin G24Q

PLC Hybrid: 4-Pin G24Q & 2-Pin G24D

**Endcap Material**

Copper

**Lamp Enclosure Material**

Polycarbonate

**Finish**

White

**Lens Finish**

Frosted

### COMPLIANCE

**Listings**

UL Classified, UL Recognized

**Environment**

Suitable for use indoors in dry and damp environments.

**Fixture Rating**

Suitable for use in enclosed fixtures

**California Energy Commission (CEC) Status**

Lawful for Sale in California

**NSF Listed**

Meets NSF/ANSI standards for use in Food Zone (non-contact), Splash, and Non-Food Zones. Tube guard required in open fixtures.

**RoHS**

Mercury and UV free. RoHS-compliant components.

**FCC**

Complies with Part 15 of the FCC Rules

### ELECTRICAL

**Dimmable**

In type A mode on compatible dimming ballasts

**Driver**

Constant Current; 120-277V; 50/60 Hz

**Input Voltage**

120-277V

**Operating Frequency**

50/60 Hz

**Operating Temperature**

-4°F to 113°F (-20°C to 45°C)

**THD**

<20%

**Power Factor**

0.9

**Flicker**

<50%

### INSTALLATION

**Installation Method**

PLC-9-O-8FA-DIR-G24Q:

Install with compatible electronic ballast

PLC-9-O-8FA-HYB-G24Q:

Type A Installation; Install with compatible Magnetic Ballast or Electronic Ballast (follow installation instructions)

Type B Installation: Bypass ballast and wire socket directly to Line voltage

PLC-9-O-8FA-HYB-G24D:

Type A Installation; Install with compatible Magnetic Ballast (follow installation instructions)

Type B Installation: Bypass ballast and wire socket directly to Line voltage

**Compatible Ballasts in Type A mode**

PLC Type A G24Q: Electronic Ballasts

PLC Hybrid G24Q Electronic Ballasts

PLC Hybrid G24d Magnetic Ballasts

**Installation Orientation**

Horizontal or Vertical

**Compatible Sockets**

PLC Type A: G24q & GX24q

PLC Hybrid A/B: G24d, GX24d, G24q, GX24q

### LED CHARACTERISTICS

**Light Distribution**

360° - Omnidirectional light distribution equivalent to fluorescent lamps

**Color Temperature**

Field adjustable via dip switch 2700/3000/3500/4000K

**Color Accuracy (CRI)**

>80

**R9 Value**

High color performance with R9 greater than 0

**Color Consistency**

<7-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color

**Color Stability**

LED color temperature is warrantied to shift no more than 200K in color temperature over a 5-year period

**Color Uniformity**

RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

### OTHER

**Warranty**

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

RAB's warranty is subject to all terms and conditions found at [rablighting.com/warranty](http://rablighting.com/warranty).

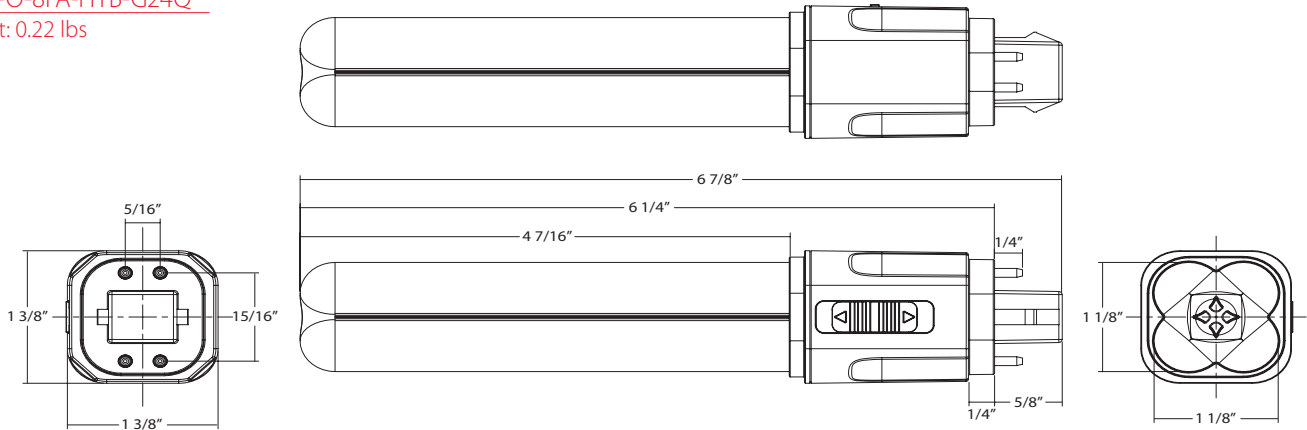
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**RAB**

## DIMENSIONS

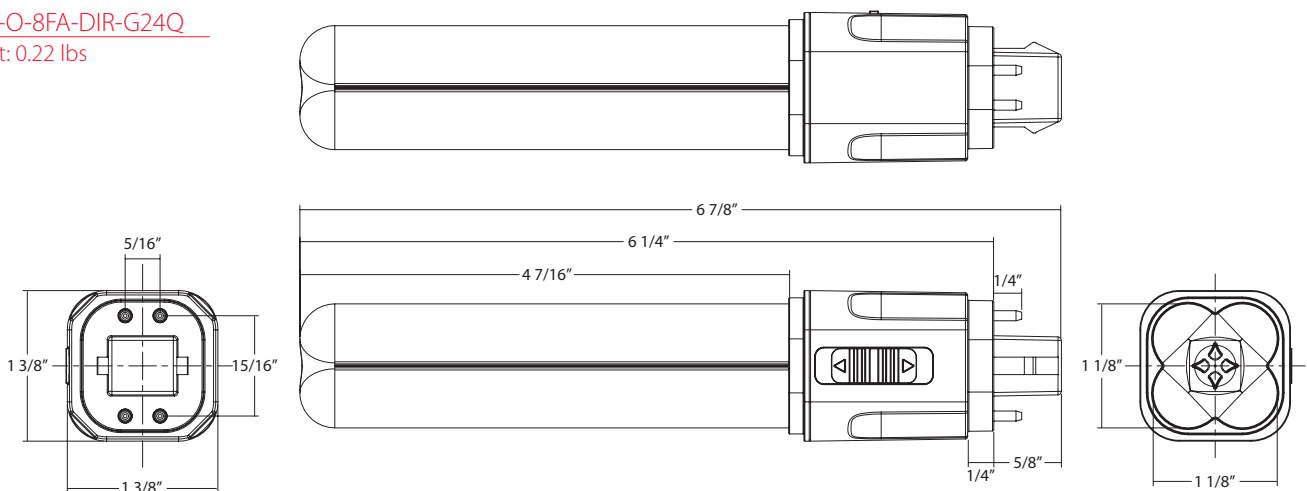
### PLC-9-O-8FA-HYB-G24Q

Weight: 0.22 lbs



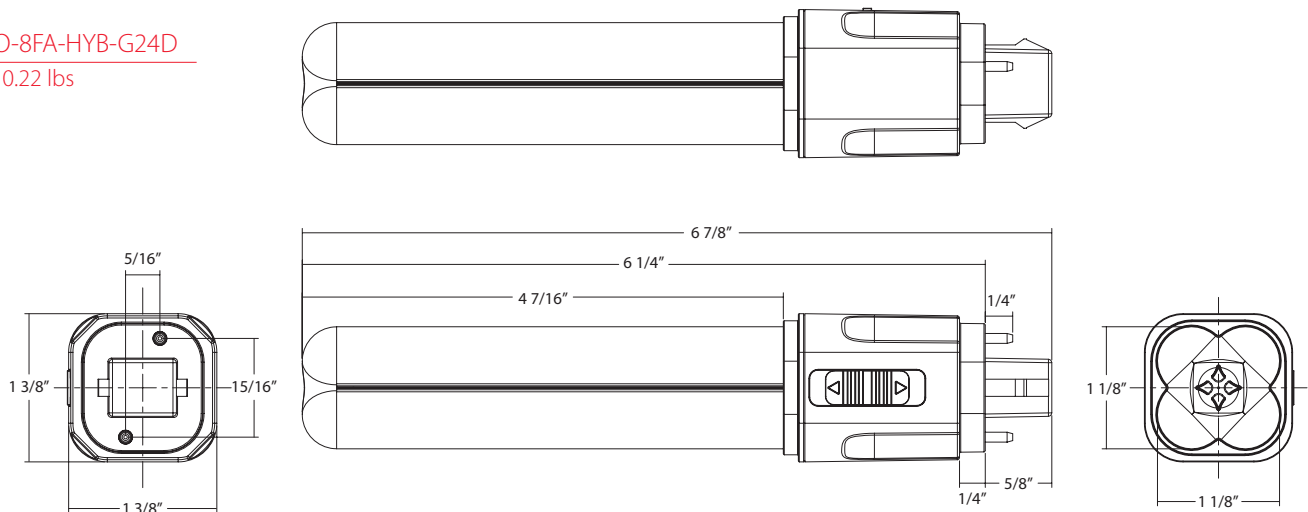
### PLC-9-O-8FA-DIR-G24Q

Weight: 0.22 lbs



### PLC-9-O-8FA-HYB-G24D

Weight: 0.22 lbs



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## ORDERING INFO

| Catalog Number       | Model Number                 | UPC          | Case Pack |
|----------------------|------------------------------|--------------|-----------|
| PLC-9-O-8FA-HYB-G24Q | T20101(PLC-9-O-8FA-HYB-G24Q) | 192552017886 | 12        |
| PLC-9-O-8FA-DIR-G24Q | T20102(PLC-9-O-8FA-DIR-G24Q) | 192552017893 | 12        |
| PLC-9-O-8FA-HYB-G24D | T20103(PLC-9-O-8FA-HYB-G24D) | 192552017909 | 12        |

## ORDERING MATRIX

| Family | Wattage | Orientation     | CRI/Color Temp              | Installation Type                 | Base       |
|--------|---------|-----------------|-----------------------------|-----------------------------------|------------|
| PLC    | 9       | O               | 8FA                         | HYB                               |            |
|        | 9W      | Omnidirectional | 80CRI, 2700/3000/3500/4000K | Direct; Ballast Compatible Hybrid | G24D G24Q  |
|        |         |                 |                             | DIR HYB                           | G24D* G24Q |

\*G24D base only available in HYB lamp

## BALLAST COMPATIBILITY LIST

Visit [www.rablighting.com](http://www.rablighting.com) for periodic updates to this list or contact us at 888-722-1000 for questions or comments.

| Ballast Catalog Number |                     | Lamp Quantities (Ballast work on 120-277V) |           |    |    | Type |
|------------------------|---------------------|--------------------------------------------|-----------|----|----|------|
| Brand                  | Model               | 1                                          | 2         | 3  | 4  |      |
| Philips advance        | ICF-2S13-M1-BS-QS   | ✓                                          | ✓         | NA | NA | PS   |
| Philips advance        | ICF-2S18-M1-BS-QS   | ✓                                          | ✓         | NA | NA | PS   |
| Philips advance        | ICF-2S18-H1-LD      | ✓                                          | ✓         | NA | NA | PS   |
| Philips advance        | IZT-2S26-M5-BS      | ✓                                          | ✓         | NA | NA | PS   |
| Philips advance        | IZT-2S26-M5-LD      | Only 120V                                  | ✓         | NA | NA | PS   |
| Philips advance        | ICF-2S26-H1-LD      | ✗                                          | ✓         | NA | NA | PS   |
| Sylvania               | QTP 1/2x13CF/UNV DM | ✓                                          | ✓         | NA | NA | PS   |
| Sylvania               | QTP 2x26CF/UNV DM   | ✓                                          | ✓         | NA | NA | PS   |
| Hatch                  | HC213PS/UV/D        | ✓                                          | ✓         | NA | NA | PS   |
| Hatch                  | HC226PS/UV/D        | ✓                                          | ✓         | NA | NA | PS   |
| Triad                  | C218UNVBE           | Only 120V                                  | ✗         | NA | NA | PS   |
| Triad                  | C2642UNVBE          | ✓                                          | ✓         | NA | NA | PS   |
| Triad                  | C213UNVBES          | ✓                                          | ✓         | NA | NA | PS   |
| Triad                  | C213UNVME           | ✓                                          | ✓         | NA | NA | PS   |
| Triad                  | C218UNVME           | ✓                                          | ✓         | NA | NA | PS   |
| Howard Lighting        | EP2/13CF/MV/2       | ✓                                          | ✓         | NA | NA | PS   |
| Howard Lighting        | EP2/18CF/MV/2       | ✓                                          | ✗         | NA | NA | PS   |
| Howard Lighting        | EP2/26CF/MV/2       | Only 120V                                  | Only 120V | NA | NA | PS   |
| Sola                   | E-724-U-226-M1-S    | ✓                                          | Only 277V | NA | NA | PS   |
| Fulham                 | RHA-UNV-226-C       | ✓                                          | Only 277V | NA | NA | PS   |
| Fulham                 | WH2-277-L           | NA                                         | ✗         | NA | NA | PS   |
| Fulham                 | WH3-277-L           | NA                                         | ✗         | NA | NA | PS   |
| Fulham                 | WH4-277-L           | NA                                         | ✗         | NA | NA | PS   |
| Fulham                 | RHA-UNV-213-C       | ✗                                          | ✓         | NA | NA | PS   |
| Fulham                 | RHA-UNV-242-C       | ✗                                          | ✓         | NA | NA | PS   |

## DIMMER COMPATIBILITY LIST

Visit [www.rablighting.com](http://www.rablighting.com) for periodic updates to this list or contact us at 888-722-1000 for questions or comments.

| Dimmers      |              |              |       | Philips Advance Lamp Quantities |   |                |   |                |   |                |   |
|--------------|--------------|--------------|-------|---------------------------------|---|----------------|---|----------------|---|----------------|---|
|              |              |              |       | IZT-2S26-M5-BS                  |   | IZT-2S26-M5-LD |   | IZT-2T42-M5-BS |   | IZT-2T42-M5-LD |   |
| Dimmer Brand | Series 0-10V | Dimmer Model | Load  | 1                               | 2 | 1              | 2 | 1              | 2 | 1              | 2 |
| Lutron       | Nova         | NTSTV-DV     | 960W  | ✓                               | ✓ | ✓              | ✓ | ✓              | ✓ | ✗              | ✗ |
| Lutron       | Diva         | DVSCTV       | 1000W | ✓                               | ✓ | ✓              | ✓ | ✓              | ✓ | ✗              | ✗ |
| Lutron       | Nova         | NFTV         | 2000W | ✓                               | ✓ | ✓              | ✓ | ✓              | ✓ | ✗              | ✗ |
| Lutron       | Diva         | DVSTV        | 960W  | ✓                               | ✓ | ✓              | ✓ | ✓              | ✓ | ✗              | ✗ |