PLC Lamps - CCT-Adjustable

RAB

PROJECT:

DATE:

TYPE:

PREPARED BY:

5 YEAR NO-COMPROMISE WARRANTY

CAN BE USED TO COMPLY WITH **TITLE 24 PART 6** JA8 HIGH EFFICACY LED LIGHT SOURCE REQUIREMENTS

CLASSIFIED **UL**

UL RECOGNIZED

RoHS

FC COMPLIANT

13-26W Replacement, 4-Pin Type A & 2-Pin Hybrid A/B, Omnidirectional, Horizontal or Vertical

FIELD ADJUSTABLE | **80 CRI** | **50,000 HOURS** | **DAMP RATED** | **ENCLOSED FIXTURE RATING** | **120-277V** | **HYBRID A/B** | **TYPE A BALLAST COMPATIBLE**

BALLAST COMP+BYPASS Ⓑ

BALLAST COMPATIBLE ☑

KEY FEATURES

- 4 color temperatures in 1 SKU (2700/3000/3500/4000K)
- Omnidirectional light distribution, suitable for horizontal or vertical installations
- 13W Equivalent with GX23 and G24D bases
  18W Equivalent with GX32D and G24Q bases
  26W Equivalent with GX32D, G24D, and G24Q bases
- Type A - Install on compatible electronic ballasts
  Hybrid - Install directly to line voltage, or install on compatible electronic (4-pin) or magnetic (2-pin) ballast
- Frosted diffuser eliminates glare and pixelation
- 5-Year, No-Compromise Warranty

PERFORMANCE

Catalog Number	Lamp Type	UL Installation Type	Wattage Equivalency	Input Wattage	Lumens	Efficacy	Color Temperature	Base Type
PLC-9-O-8FA-DIR-G24Q		Type A	26W CFL	9.5W	1150-1200-1250-1250	99/100/106/106		G24Q 4-pin
PLC-5-O-8FA-HYB-GX23		Hybrid A/B	13W	9.5W	720-750-800-800	131/136/140/140		GX23 2-pin
PLC-5-O-8FA-HYB-G24D		Hybrid A/B	13W	5.5W	720-750-800-800	131/136/140/140		G24D 2-pin
PLC-7-O-8FA-HYB-GX32D	PLC - Quad Tube	Hybrid A/B	20W	7W	850-850-900-900	125/125/130/130	Field adjustable via dip switch 2700/3000/3500/4000K	GX32D 2-pin
PLC-7-O-8FA-HYB-G24Q		Hybrid A/B	18W	7W	800-800-860-860	114/114/123/123		G24Q 4-pin
PLC-9-O-8FA-HYB-GX32D		Hybrid A/B	27W	9W	1050-1100-1200-1200	117/122/133/133		G24Q 4-pin
PLC-9-O-8FA-HYB-G24Q		Hybrid A/B	26W CFL	9.5W	1190-1196-1274-1272	99/100/106/106		G24Q 4-pin
PLC-9-O-8FA-HYB-G24D		Hybrid A/B	26W CFL	9W	1100-1200-1250-1250	129.3/141.2/137		G24D 2-pin

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PHOTOMETRIC

Catalog Number	Lamp Wattage	CCT	Efficacy	Lumens	Equivalency Wattage
PLC-5-O-8FA-HYB-GX23	5.5W	2700	130 lm/W	727 lm	13W
		3000	135 lm/W	750 lm	
		3500	141 lm/W	786 lm	
		4000	141 lm/W	797 lm	

Catalog Number	Lamp Wattage	CCT	Efficacy	Lumens	Equivalency Wattage
PLC-5-O-8FA-HYB-G24D	5.5W	2700	130 lm/W	731 lm	13W
		3000	135 lm/W	748 lm	
		3500	138 lm/W	769 lm	
		4000	138 lm/W	779 lm	

Catalog Number	Lamp Wattage	CCT	Efficacy	Lumens	Equivalency Wattage
PLC-7-O-8FA-HYB-GX32D	7W	2700	123 lm/W	881 lm	20W
		3000	134 lm/W	935 lm	
		3500	137 lm/W	970 lm	
		4000	133 lm/W	960 lm	

Catalog Number	Lamp Wattage	CCT	Efficacy	Lumens	Equivalency Wattage
PLC-7-O-8FA-HYB-G24Q	7W	2700	121 lm/W	825 lm	18W
		3000	135 lm/W	899 lm	
		3500	138 lm/W	925 lm	
		4000	134 lm/W	913 lm	

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Catalog Number	Lamp Wattage	CCT	Efficacy	Lumens	Equivalency Wattage
PLC-9-O-8FA-HYB-GX32D	9W	2700	129 lm/W	1153 lm	27W
		3000	138 lm/W	1214 lm	
		3500	143 lm/W	1264 lm	
		4000	139 lm/W	1248 lm	

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	

PLC Lamps - CCT-Adjustable

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 GX23, GX32D G24D

Endcap Material
Copper

Lamp Enclosure Material
Polycarbonate

Finish
White

Lens Finish
Frosted

INSTALLATION

Installation Method

Type A 4-Pin:

• Install with a compatible electronic ballast

Hybrid 4-Pin:

• 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

Hybrid 2-Pin:

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

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

Installation Orientation
Horizontal or Vertical

Compatible Sockets
4-Pin: G24q & GX24q
2-Pin GX23, GX32D, G24D

ELECTRICAL

Dimmable
Depends on lamp model

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
0.5

LED CHARACTERISTICS

Light Distribution
360º - 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.

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

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.
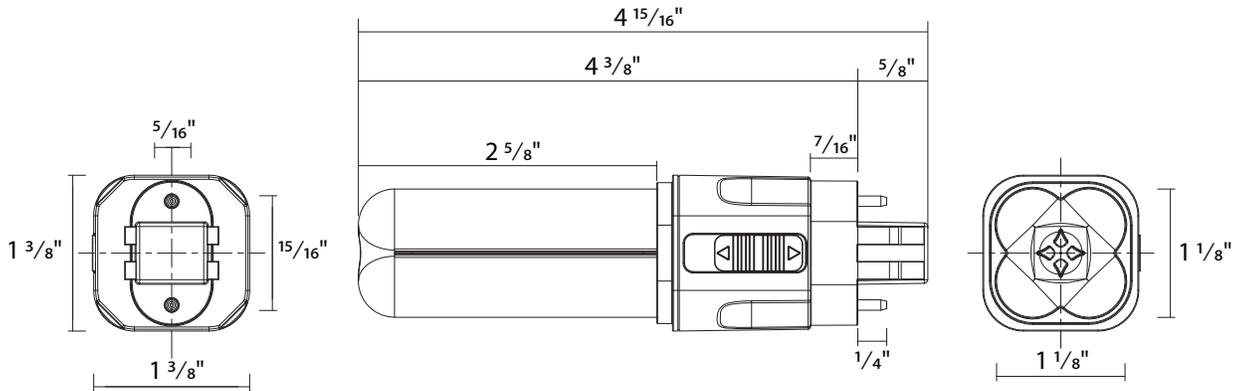
RAB's warranty is subject to all terms and conditions found at rablighting. com/warranty.
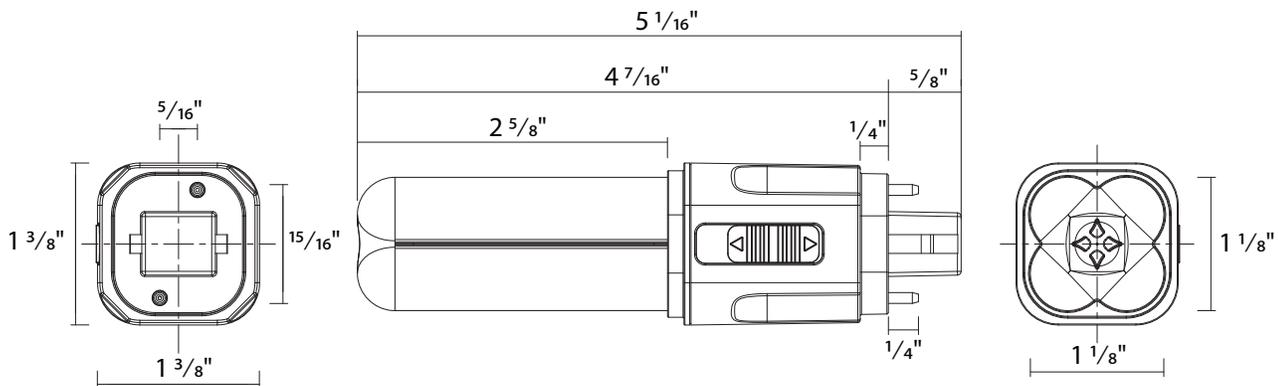
DIMENSIONS
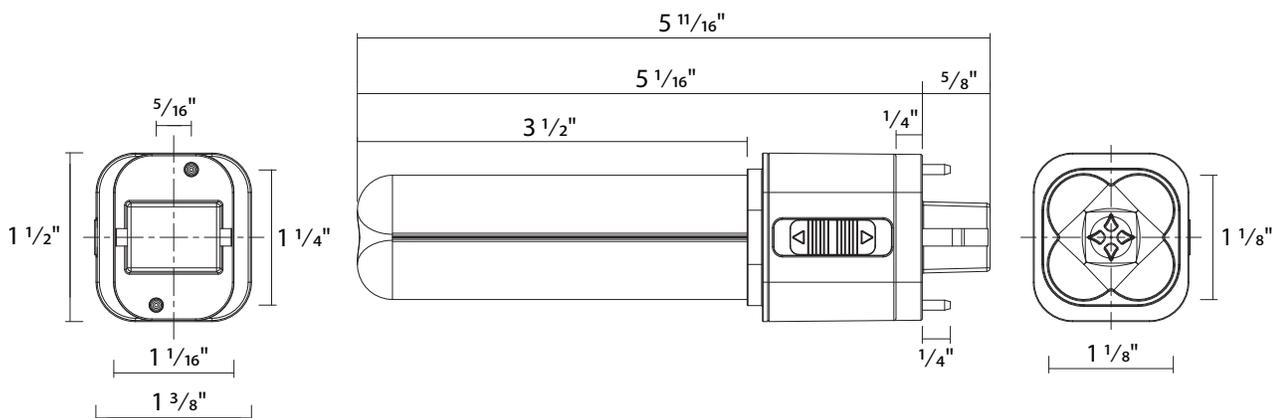
PLC-5-O-8FA-HYB-GX23
Weight: 0.15 lbs

PLC-5-O-8FA-HYB-G24D
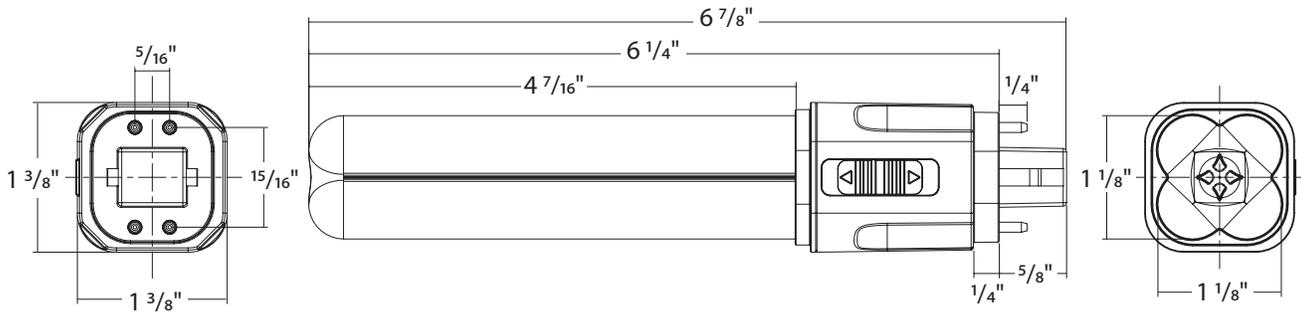Weight: 0.15 lbs

PLC-7-O-8FA-HYB-GX32D
Weight: 0.20 lbs

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DIMENSIONS Cont'd

PLC-7-O-8FA-HYB-G24Q
Weight: 0.20 lbs

PLC-9-O-8FA-HYB-GX32D
Weight: 0.22 lbs

PLC-9-O-8FA-HYB-G24Q
Weight: 0.22 lbs

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DIMENSIONS Cont'd

PLC-9-O-8FA-DIR-G24Q
Weight: 0.22 lbs

5/16"
1 3/8"
15/16"
1 3/8"

6 7/8"
6 1/4"
4 7/16"
1/4"
1/4"
5/8"

1 1/8"
1 1/8"

PLC-9-O-8FA-HYB-G24D
Weight: 0.22 lbs

5/16"
1 3/8"
15/16"
1 3/8"

6 7/8"
6 1/4"
4 7/16"
1/4"
1/4"
5/8"

1 1/8"
1 1/8"
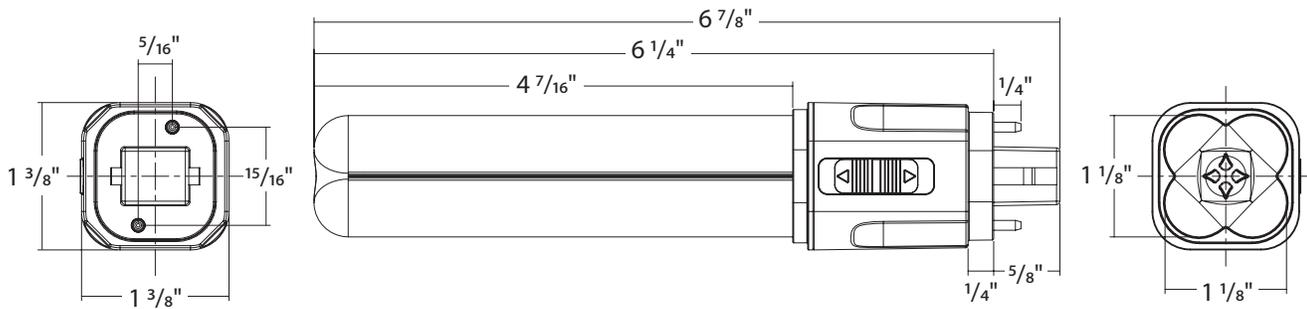
ORDERING INFO

Catalog Number	Model Number	UPC	Case Pack
PLC-9-O-8FA-HYB-G24Q	T20101(PLC-9-O-8FA-HYB-G24Q)	192552017886	12
PLC-5-O-8FA-HYB-GX23	T20133(PLC-5-O-8FA-HYB-GX23)	192552054188	12
PLC-5-O-8FA-HYB-G24D	T20134(PLC-5-O-8FA-HYB-G24D)	192552054195	12
PLC-7-O-8FA-HYB-GX32D	T20135(PLC-7-O-8FA-HYB-GX32D)	192552054201	12
PLC-9-O-8FA-HYB-GX32D	T20136(PLC-9-O-8FA-HYB-GX32D)	192552054218	12
PLC-7-O-8FA-HYB-G24Q	T20137(PLC-7-O-8FA-HYB-G24Q)	192552054225	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	-	O	8FA	HYB		
	5 = 5W	O = Omnidirectional	8FA = 80CRI, 2700/3000/3500/4000K	HYB = Hybrid, Type A+B	GX23	2-pin GX23
	7 = 7W				G24D	4-pin G24D
	9 = 9W				GX32D	2-pin GX32D
					G24Q	4-pin G24Q

*5W only available with GX23 or G24D base
*7W only available with GX32D or G24Q base
*9W only available with GX32D base

ACCESSORIES

	Catalog Number	UPC	Description	Case Pack
Battery Backup	EMB-9	192552051187	EM DRIVER 100-347V 9W 0-10V DIM	15
	EMB-15	192552051194	EM DRIVER 100-347V 15W 0-10V DIM	15
	EMB-25	192552051200	EM DRIVER 100-347V 25W 0-10V DIM	15

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BALLAST COMPATIBILITY LIST

Visit *www.rablighting.com* for periodic updates to this list or contact us at 888-722-1000 for questions or comments.

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

Ballast Catalog Number		Lamp Quantities (Ballast works 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

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DIMMER COMPATIBILITY LIST

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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	✓	✓	✓	✓	✓	✓	✗	✗