

# PLA

## Professional Volumetric LED Luminaire



### MECHANICAL

- Available in 1'x4', 2'x2' and 2'x4' recessed fixtures
- Heavy gauge steel housing and aluminum LED tray
- Corrosion and scratch resistant white enamel finish
- Fast and easy to install
- Includes (4) grid clips for use in standard T-grid ceilings

### ELECTRICAL

- Universal Douglas light engine includes LED driver & hi-efficacy LED modules
- Available as 120-277 VAC or 347 VAC
- Standard equipped with 0-10V LED driver, dimmable to 1%
- LED system efficacies up to 139LPW

### OPTICAL

- Low loss frosted acrylic center-basket style diffuser

### CERTIFICATIONS

- UL 1598 (US & Canada), suitable for damp locations
- FCC Title 47 CFR, Part 15, Class A
- ROHS compliant, contains no lead or mercury

### BLUETOOTH CONTROL OPTIONS

- Occupancy and photo sensor
- Fixture Controller

### WARRANTY

- Shorter of 120 Months or 50,000 hours of operation

## ORDERING GUIDE

EXAMPLE: PLA22-36W840-U

Series	Format	-	Watts	W	CRI	Color Temp.	-	Voltage	Options						
PLA = Professional Luminaire	14 = 1ft x 4ft	-	24	W	8 = 80 (minimum)	30 = 3000K 35 = 3500K 40 = 4000K 50 = 5000K	-	U= 120-277 VAC 347 = 347 VAC	EM <sup>1</sup> = Backup Battery Pack WP6 = 6ft Whip IFSB <sup>1,2</sup> = Bluetooth Intelligent Fixture Sensor IFCB <sup>1</sup> = Bluetooth Intelligent Fixture Controller						
		-	36												
		-	18												
	22 = 2ft x 2ft	-	25												
		-	32												
		-	36												
	24 = 2ft x 4ft	-	25												
		-	28												
		-	33												
			-							46					

### ORDERING NOTES:

- EM, IFCB, and IFSB options only available for 120-277 VAC kits.
- IFSB Option not available on 2x2 36 W.

## PERFORMANCE DATA

Format	Watts		Delivered Lumens	LPW	Input Current (A)			PF	ThD
	Nominal	Measured			120V	277V	347V		
14	24	24.5	3098	126.5	0.20	0.09	0.07	< 0.90	> 20%
	36	36.0	4715	131	0.30	0.13	0.10		
22	18	18.0	2331	128.8	0.15	0.07	0.05		
	25	24.9	3040	122.1	0.21	0.09	0.07		
	32	32.0	3959	123.7	0.27	0.12	0.09		
	36	36.7	4767	130	0.31	0.13	0.11		
24	25	25.3	3223	127.4	0.21	0.09	0.07		
	28	28.0	3907	139.6	0.23	0.10	0.08		
	33	33.0	4470	135	0.28	0.12	0.10		
	46	46.0	6043	131	0.38	0.17	0.13		

LUMEN MAINTENANCE	
Reported per TM-21	L70 > 72,000 hrs
Calculated L70	L70 > 90,000 hrs

### PERFORMANCE NOTES:

- Data provided for 4000K at 25C; multiply lumens and LPW by 0.95 for 3000K, 0.97 for 3500K, or 1.03 for 5000K
- Specifications subject to change without notice.

## MODEL NUMBERS

Model Number	Model Number	Model Number	Model Number
PLA14-36W830-U	PLA22-36W830-U	PLA24-33W830-U	PLA24-46W830-U
PLA14-36W835-U	PLA22-36W835-U	PLA24-33W835-U	PLA24-46W830-U
PLA14-36W840-U	PLA22-36W840-U	PLA24-33W840-U	PLA24-46W830-U
PLA14-36W850-U	PLA22-36W850-U	PLA24-33W850-U	PLA24-46W830-U

Model Number	Model Number	Model Number	Model Number	Model Number	Model Number
PLA14-24W830-U	PLA22-18W830-U	PLA22-25W830-U	PLA22-32W830-U	PLA24-25W830-U	PLA24-28W830-U
PLA14-24W835-U	PLA22-18W835-U	PLA22-25W835-U	PLA22-32W835-U	PLA24-25W835-U	PLA24-28W835-U
PLA14-24W840-U	PLA22-18W840-U	PLA22-25W840-U	PLA22-32W840-U	PLA24-25W840-U	PLA24-28W840-U
PLA14-24W840-U	PLA22-18W850-U	PLA22-25W850-U	PLA22-32W850-U	PLA24-25W850-U	PLA24-28W850-U

# DIMENSIONS (in)

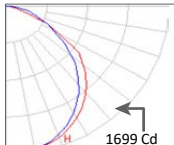
PRODUCT ENVELOPE (in)				
Format	L	W	H	Ib
1x4 ft	48	12	3.6	11
2x2 ft	24	24	3.6	10
2x4 ft	48	24	3.6	17

Nominal Dimensions

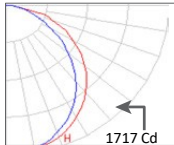
# PHOTOMETRIC DATA

LUMINANCE (cd/m2)				ZONAL LUMENS			CANDELA PLOT		SPACING CRITERIA	
Vert Angle	At 0° Horiz	At 45° Horiz	At 90° Horiz	Zone	Lumens	% Fixture	Angles	10°	And Efficacy Values	

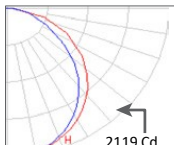
## PLA14-36W840-U

45°	4987	5374	5571	0-20	620	13.1%		1699 Cd	Along	1.26
55°	4416	5121	5409	0-40	2458	45.8%			Across	1.30
65°	3692	4738	5095	0-60	3790	80.4%			Lumens	4715
75°	2873	4219	2929	0-90	4715	100.0%			Watts	36
85°	1950	2016	1147	0-180	4715	100.0%			Lm/W	131

## PLA22-36W840-U

45°	4987	5374	5571	0-20	619	13.0%		1717 Cd	Along	1.22
55°	4416	5121	5409	0-40	2139	44.9%			Across	1.30
65°	3692	4738	5095	0-60	3737	78.4%			Lumens	4765
75°	2873	4219	2929	0-90	4765	100.0%			Watts	36.7
85°	1950	2016	1147	0-180	4765	100.0%			Lm/W	130

## PLA24-46W840-U

45°	4987	5374	5571	0-20	772	12.8%		2119 Cd	Along	1.26
55°	4416	5121	5409	0-40	2686	44.5%			Across	1.28
65°	3692	4738	5095	0-60	4719	78.1%			Lumens	6043
75°	2873	4219	2929	0-90	6043	100.0%			Watts	46
85°	1950	2016	1147	0-180	6043	100.0%			Lm/W	131

## BLUETOOTH SENSOR & CONTROL

### DESCRIPTION

The IFCB option is a factory installed, Intelligent **Bluetooth**® Controller (a node) providing wireless connectivity with neighboring luminaires and other devices.

The IFSB option is a factory installed, Intelligent **Bluetooth**® Occupancy and Photo Sensor providing wireless connectivity with neighboring luminaires and other devices.

### ELECTRICAL

**Three-Wire:** Internal connections, factory harnessed to LED driver

**Load: Rating:** Not Applicable

**Dimming:** 0-10V control signal

### SETTINGS

**Room & zone assignments:** None

**Start up Sequence for non-commissioned devices:**

- 3 seconds OFF
- 6 seconds Full Bright
- 3 seconds Off
- 3 seconds Dim
- Full Bright

### BT-IFS Sensor Default

- Photo sensor disabled
- Occupancy sensor time out 20 minutes

### BT-IFC Controller Default

- Sustained operation at 100%: All control settings disabled for non-commissioned devices

### MANUFACTURER/PRODUCT

Universal Douglas/BT-IFS-A & BT-IFC-A



PLA with IFSB sensor option.

The PLA with IFCB control appears the same as the standard PLA, the control is not visible.