

PRK

LED Professional Retrofit Kit

MECHANICAL

- Retrofits 1'x4', 2'x2' and 2'x4' fluorescent recessed fixtures to LED
- Pan-style kit upgrades outdated optics
- Heavy gauge steel housing and aluminum LED tray
- Corrosion and scratch resistant white enamel finish
- Fast and easy to install

ELECTRICAL

- Universal Douglas® light engine includes LED driver & hi-efficacy LED modules
- Available as 120-277VAC
- 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
- Multiple lumen outputs, four CCT options, 80+ CRI

KIT INCLUDES

- Endcaps
- LED panel
- Diffuser
- Side panels
- Mounting hardware (quarter turn screws and disconnects)

BLUETOOTH CONTROL OPTIONS

- Occupancy and photo sensor
- Fixture Controller
- High-End Trim and LLLC (Douglas Lighting Controls System) Capabilities

CERTIFICATIONS

- UL Classified 1598C (US & Canada)
- FCC Title 47 CFR, Part 15, Class A
- ROHS compliant, contains no lead or mercury
- Select models are DesignLights Consortium® qualified. Consult www.designlights.org/QPL for details.

WARRANTY

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

ORDERING GUIDE

EXAMPLE: PRK22-36W840-U¹

Series	Format	-	Watts	W	CRI	Color Temp.	-	Voltage	Options
PRK = Professional Retrofit Kit	14 = 1ft x 4ft	-	18	W	8 = 80 (minimum)	35 = 3500K 40 = 4000K 50 = 5000K	-	U = 120-277 VAC	EM = Backup Battery Pack IFS ² = Bluetooth Intelligent Fixture Sensor IFC = Bluetooth Intelligent Fixture Controller
		-	24						
		-	28						
		-	36						
	22 = 2ft x 2ft	-	18						
		-	25						
		-	32						
		-	36						
	24 = 2ft x 4ft	-	25						
		-	28						
		-	33						
		-	36						
		-	46						

ORDERING NOTES:

1. Append catalog with 00C for single kit package or B3C for 3 kit bulk package (PRK22 and PRK24 only).
2. IFSB option not available on 2x2 36W

PERFORMANCE DATA

Format	Watts		Delivered Lumens	LPW	Input Current (A)		PF	ThD
	Nominal	Measured			120V	277V		
14	18	17.8	2356	132	0.15	0.06	< 0.90	> 20%
	24	24.2	3094	128	0.20	0.09		
	28	28.0	3870	138	0.23	0.10		
	36	36.0	4742	132	0.30	0.13		
22	18	18.1	2339	129	0.15	0.07		
	25	24.9	3040	122	0.21	0.09		
	32	32.0	3959	124	0.27	0.12		
	36	36.0	4644	129	0.30	0.13		
24	25	25.8	3265	127	0.22	0.09		
	28	28.0	3901	139	0.23	0.10		
	33	33.0	4463	135	0.28	0.12		
	36	36.0	4781	133	0.30	0.13		
	46	45.7	6098	133	0.38	0.16		

LUMEN MAINTENANCE	
Reported per TM-21	L70 > 72,000 hrs
Calculated L70	L70 > 95,000 hrs



PERFORMANCE NOTES:

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

DESIGNLIGHTS CONSORTIUM® QPL LISTED PRODUCTS

Model Number	Model Number	Model Number	Model Number
PRK14-18W835-U	PRK14-28W835-U	PRK22-18W835-U	PRK22-32W835-U
PRK14-18W840-U	PRK14-28W840-U	PRK22-18W840-U	PRK22-32W840-U
PRK14-18W850-U	PRK14-28W850-U	PRK22-18W850-U	PRK22-32W850-U
PRK14-24W835-U	PRK14-36W835-U	PRK22-25W835-U	PRK22-36W835-U
PRK14-24W840-U	PRK14-36W840-U	PRK22-25W840-U	PRK22-36W840-U
PRK14-24W850-U	PRK14-36W850-U	PRK22-25W850-U	PRK22-36W850-U



Model Number	Model Number	Model Number
PRK24-25W835-U	PRK24-33W835-U	PRK24-46W835-U
PRK24-25W840-U	PRK24-33W840-U	PRK24-46W840-U
PRK24-25W850-U	PRK24-33W850-U	PRK24-46W850-U
PRK24-28W835-U	PRK24-36W835-U	
PRK24-28W840-U	PRK24-36W840-U	
PRK24-28W850-U	PRK24-36W850-U	

DIMENSIONS(in)

PRODUCT ENVELOPE (in)				
Format	L	W	H	lb
1x4 ft	47.75	11.81	2.38	13.0
2x2 ft	23.75	23.75	2.38	11.0
2x4 ft	47.75	23.75	2.38	15.0

Nominal Dimensions

PHOTOMETRIC DATA

LUMINANCE (cd/m ²)			
Vert Angle	At 0° Horiz	At 45° Horiz	At 90° Horiz

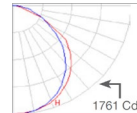
ZONAL LUMENS		
Zone	Lumens	% Fixture

CANDELA PLOT	
Angles	10°

SPACING CRITERIA	
And Efficacy Values	

PRK14-36W840-U			
45°	6187	6728	7036
55°	5497	6392	6769
65°	4624	5782	4696
75°	3635	3677	1930
85°	2526	1663	1122

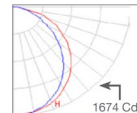
0-20	643	13.6%
0-40	2240	47.2%
0-60	3928	82.8%
0-90	4742	100.0%
0-180	4742	100.0%



Along	1.24
Across	1.30
Lumens	4742
Watts	36
Lm/W	132

PRK22-36W840-U			
45°	4288	4729	5117
55°	3742	4496	5049
65°	3099	4220	4942
75°	2443	4035	4955
85°	1784	3130	1787

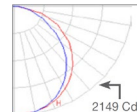
0-20	606	13.0%
0-40	2093	45.1%
0-60	3659	78.8%
0-90	4644	100.0%
0-180	4644	100.0%



Along	1.22
Across	1.30
Lumens	4644
Watts	36
Lm/W	129

PRK22-36W840-U			
45°	3030	3321	3503
55°	2668	3179	3455
65°	2217	2998	3372
75°	1720	2900	3331
85°	1217	2127	1038

0-20	785	13.6%
0-40	2728	47.2%
0-60	4795	82.8%
0-90	6098	100.0%
0-180	6098	100.0%



Along	1.24
Across	1.30
Lumens	6098
Watts	45.7
Lm/W	133

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: External connections, factory harnessed to an appropriate LED driver

Load Rating: Not Applicable

Dimming: 0-10V control signal

SETTINGS

Room & zone assignments: None

Start up Sequence:

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

BT-IFS Sensor Default

- Photo sensor disabled
- Occupancy sensor time out 20 minutes

BT-IFS Controller Default

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

MANUFACTURER/PRODUCT

- Douglas Lighting Controls/BT-IFS-A & BT-IFC-A



PRK with IFSB sensor option.

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