

## DESCRIPTION

Recessed 8 inch aperture open downlight for two horizontal 13W or 18W double twin tube compact fluorescent lamps. Fixture is suitable for commercial construction. Insulation must be kept 3" from top and sides of housing. Universal input electronic ballast with dimming and emergency options.

Catalog #		Type
Project		
Comments		Date
Prepared by		

## SPECIFICATION FEATURES

### MECHANICAL

#### Frame

Boat shaped galvanized steel frame with 1/2" plaster lip accommodates ceilings up to 2" thick. May be used for new construction or remodeling installations. Provided with (2) remodel clips to secure frame when installed from below the ceiling.

#### Mounting Brackets

Bar hanger receivers adjusts 2" vertically from above the ceiling or thru the aperture. Use with No Fuss™ bar hangers or with 1/2" EMT. Removable to facilitate installation from below the ceiling.

#### No Fuss™ Bar Hangers

Pre-installed and centered bar hanger locks to tee grid with a screwdriver or pliers. Centering marks on the bar hanger mechanism allows consistent positioning of fixtures.

### OPTICAL

#### Reflector

Highly efficient one piece aluminum reflector provides for equal lamp and lamp image cutoff for a visually comfortable optic. Optional cross blade louver provides sharper cutoff to lamp. Self flanged standard.

- **Specular Reflectors** - Polished flange standard with white painted flange option.
- **Baffles and White Reflector** - White painted flange standard.

#### Trim Retention

Reflector is retained with two torsion springs and held tightly to the finished ceiling surface.

### ELECTRICAL

#### Junction Box

(6) 1/2" and (2) 3/4" trade size pry outs positioned to allow straight conduit runs. Listed for (12) #12 AWG (six in, six out) 90°C conductors and feed thru branch wiring.

#### Lamp Socket

4-pin G24q base accepts (2) 13W or 18W DTT lamps.

#### Socket Housing

Galvanized steel socket housing attached securely to reflector with captive thumbscrew. Vents provide effective lamp thermal management.

#### Control Gear

Universal 120V - 277V UNV or 347V input electronic ballast for 13W or 18W compact fluorescent lamps.

#### Emergency Battery Pack

REM - Remote emergency test switch. Housing includes 120V/277V, 60Hz dual-tap battery pack provides 90 minutes of emergency illumination. Long life maintenance free sealed nickel cadmium batteries recharge fully in 24 hours. REM configuration includes prewired and attached remote test switch plate and indicator light. REM option is the standard emergency configuration, and is compatible with all standard reflector options, ordered separately.

IEM - Integral emergency test switch. Housing includes 120V/277V, 60Hz dual-tap battery pack provides 90 minutes of emergency illumination. Long life maintenance free sealed nickel

cadmium batteries recharge fully in 24 hours. IEM configuration includes a prewired integral emergency test switch and indicator light that are both accessible inside the reflector. The IEM option requires "EM" designated reflectors only, ordered separately.

Emergency Battery Pack - Average Lamp Lumen Ratings

REM option: (2) 13W 400lm, (2) 18W 550lm

IEM option: (2) 13W 900lm, (2) 18W 1010lm

(Note: average lamp lumens are based upon REM and IEM manufacturer ratings. Delivered lumens depend upon trim; refer to trim photometry to factor delivered lumens).

#### Code Compliance

- Thermally protected and cULus listed for damp locations.
- IP20 rated for open trims
- NFPA Life Safety (Emergency Battery Pack)
- EMI/RFI per FCC Title 47 CFR, Part 18, non consumer limits.
- High efficacy luminaire may be used to meet IECC, ASHRAE, and Title 24 commercial standards.



**PD8H213**  
**PD8H218**  
**82H**

**(2) 13W or 18W DTT**

**Compact Fluorescent**

**8-Inch Aperture**  
**Open Downlight**

**New Construction or**  
**Remodel**  
**Non-IC**

ENERGY DATA

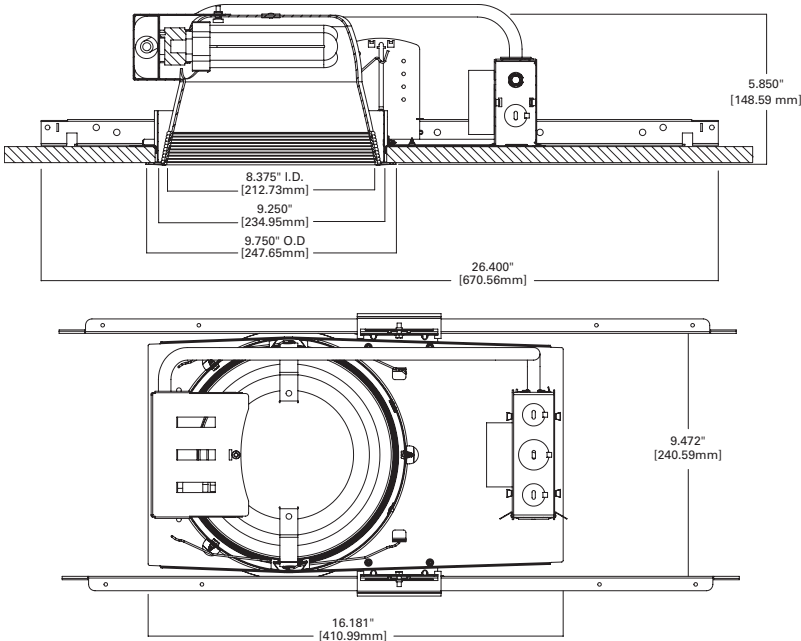
PD8H213E, PD8CPH213E	
Min. Starting Temp -5°F / -20°C	Sound Rating Class A
EMI/RFI Emissions FCC 47CFR Part 18 Non-Consumer Limits	
Input Frequency 50/60 Hz	Power Factor > 0.98
THD < 10%	Input Voltage 120V - 277V ±10%
Crest Factor < 1.7	Ballast Factor 1.00
Operating Frequency > 40kHz	UL Listed Class P, Type 1 Outdoor, CSA or C/UL Certified
(2) CFQ13W/G24Q	Input Power 29W
	Input Current 0.25A @ 120V
	Input Current 0.11A @ 277V

PD8H218E, PD8CPH218E	
Min. Starting Temp 0°F / -18°C	Sound Rating Class A
EMI/RFI Emissions FCC 47CFR Part 18 Non-Consumer Limits	
Input Frequency 50/60 Hz	Power Factor > 0.98
THD < 10%	Input Voltage 120V - 277V ±10%
Crest factor < 1.5	Ballast factor 0.95
Operating Frequency 50-60kHz	cULus, Class P, Type 1 Outdoor, Type CC, Type HL
(2) CFQ18W/G24Q	Input Power 35W
	Input Current 0.30A @ 120V
	Input Current 0.13A @ 277V

PD8H2133E	
Min. Starting Temp 0°F / -18°C	Sound Rating Class A
EMI/RFI Emissions FCC 47CFR Part 18 Non-Consumer Limits	
Input Frequency 50-60Hz	Power Factor > 0.98
THD < 10%	Input Voltage 347VAC ±10%
Crest factor < 1.7	Ballast Factor .98
Operating Frequency 62-72 kHz	cULUS CERTIFIED
(2) CFQ13W/G24Q	Input Power 33W
	Input Current 0.10A @ 347V

PD8H2183E	
Min. Starting Temp 0°F / -18°C	Sound Rating Class A
EMI/RFI Emissions FCC 47CFR Part 18 Non-Consumer Limits	
Input Frequency 50-60Hz	Power Factor > 0.98
THD < 10%	Input Voltage 347VAC ±10%
Crest factor < 1.5	Ballast factor 0.98
Operating Frequency 60-70 kHz	cULus Certified
(2) CFQ18W/G24Q	Input Power 38W
	Input Current 0.11A @ 347V

DIMENSIONS



## ORDERING INFORMATION

### SAMPLE NUMBER: PD8H213E 82HC

Order housing, reflector and lamp separately for a complete luminaire.

<b>Housing</b> <b>PD8H213</b> = 8 Inch horizontal (2) 13W DTT CFL <b>PD8CPH213</b> = 8 Inch horizontal (2) 13W DTT CFL, CCEA listed (Chicago Plenum)	<b>Ballast Option</b> <b>E</b> = 120V – 277V 50/60Hz UNV <b>REM</b> = 120V/277V 60Hz dual-tap emergency battery ballast with remote test switch plate <b>3E</b> = 347V, 50/60Hz <b>EDMARK7</b> = 5% 0-10V discrete two-wire (13W) dimming, 120-277V <b>EDMARK7REM</b> = 5% 0-10V discrete two-wire (13W) dimming, 120-277V; with REM emergency option  <b>Integral Emergency Ballast Option</b> <b>IEM</b> = 120/277V 60Hz dual-tap, Integral Emergency battery ballast with test switch through reflector* <b>EDMARK7IEM</b> = 5% 0-10V discrete two-wire (13W) dimming, 120-277V; with IEM emergency option* *Requires "EM" reflectors only, ordered separately	<b>Reflector</b> <b>82H</b> = 8" Horizontal <b>82HEM</b> = 8" Horizontal, Emergency (required with IEM ballast option)  <b>Shielding Media</b> <b>[Blank]</b> = none <b>CB</b> = Cross blade louvers (blade finish matches reflector, not available with baffle)	<b>Finish Option</b> <b>C</b> =Specular Clear <b>G</b> =Specular Gold <b>H</b> =Semi Specular Clear <b>W</b> =White (White Flange) <b>BB</b> =Black Baffle (White Flange) <b>WB</b> =White Baffle (White Flange)	<b>Flange Option</b> <b>Blank</b> =Polished Flange (C, G, H) <b>Blank</b> =White Flange (W, BB, WB) <b>WF</b> =White Flange (C, G, H)	<b>Accessories</b> <b>HB128APK</b> = L channel hanger bar, 26", 'No-Fuss', pair (replacement) <b>RMB22</b> = 22" long wood joist mounting bars	

### SAMPLE NUMBER: PD8H218E 82HC

Order housing, reflector and lamp separately for a complete luminaire.

<b>Housing</b> <b>PD8H218</b> = 8 Inch horizontal (2) 18W DTT CFL <b>PD8CPH218</b> = 8 Inch horizontal (2) 18W DTT CFL, CCEA listed (Chicago Plenum)	<b>Ballast Option</b> <b>E</b> = 120V – 277V 50/60Hz UNV <b>REM</b> = 120V/277V 60Hz dual-tap emergency battery ballast with remote test switch plate <b>3E</b> = 347V, 50/60Hz <b>1DMARKX</b> = 5% two-wire (18W) dimming, 120V <b>2DMARKX</b> = 5% two-wire (18W) dimming, 277V <b>EDMARK7</b> = 5% 0-10V discrete two-wire (18W) dimming, 120-277V <b>1DMARKXREM</b> = 5% two-wire (18W) dimming, 120V; with REM emergency option <b>2DMARKXREM</b> = 5% two-wire (18W) dimming, 277V; with REM emergency option <b>EDMARK7REM</b> = 5% 0-10V discrete two-wire (18W) dimming, 120-277V; with REM emergency option  <b>Integral Emergency Ballast Option</b> <b>IEM</b> = 120/277V 60Hz dual-tap, Integral Emergency battery ballast with test switch through reflector* <b>1DMARKXIEM</b> = 5% two-wire (18W) dimming, 120V; with IEM emergency option* <b>2DMARKXIEM</b> = 5% two-wire (18W) dimming, 277V; with IEM emergency option* <b>EDMARK7IEM</b> = 5% 0-10V discrete two-wire (18W) dimming, 120-277V; with IEM emergency option* *Requires "EM" reflectors only, ordered separately	<b>Reflector</b> <b>82H</b> = 8" Horizontal <b>82HEM</b> = 8" Horizontal, Emergency (required with IEM ballast option)  <b>Shielding Media</b> <b>[Blank]</b> = none <b>CB</b> = Cross blade louvers (blade finish matches reflector, not available with baffle)	<b>Finish Option</b> <b>C</b> =Specular Clear <b>G</b> =Specular Gold <b>H</b> =Semi Specular Clear <b>W</b> =White (White Flange) <b>BB</b> =Black Baffle (White Flange) <b>WB</b> =White Baffle (White Flange)	<b>Flange Option</b> <b>Blank</b> =Polished Flange (C, G, H) <b>Blank</b> =White Flange (W, BB, WB) <b>WF</b> =White Flange (C, G, H)	<b>Accessories</b> <b>HB128APK</b> = L channel hanger bar, 26", 'No-Fuss', pair (replacement) <b>RMB22</b> = 22" long wood joist mounting bars	

**Note:** Specifications and Dimensions subject to change without notice.