DESCRIPTION

Recessed 6 inch aperture lens downlight for one horizontal 13W or 18W double twin tube compact fluorescent lamp. Fixture is suitable for commercial construction and wet location listed. Insulation must be kept 3" from top and sides of housing. Universal input electronic ballast with dimming and emergency options.

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

One piece aluminum reflector secures lens in place with integrated spring clips for a visually comfortable optic and allows for tool-less lens exchange from below the ceiling. Available with clear, diffuse, prismatic, fresnel, or drop opal glass lens. 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 (1) 13W or 18W DTT lamp.

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 lamp.

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

HALO Commercial

| Catalog # | Туре |
|-------------|------|
| | |
| Project | |
| Comments | Date |
| | |
| Prepared by | |

accessible inside the reflector. The IEM option requires "EM" designated reflectors only, ordered separately.

Emergency Battery Pack - Average Lamp Lumen Ratings

REM option: 13W 350lm, 18W 350lm

IEM option: 13W 570lm, 18W 680lm

(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 wet locations.
- IP44 rated for lens trims.
- NFPA Life Safety (Emergency Battery Pack).
- EMI/RFI per FCCTitle 47 CFR, Part 18, non consumer limits.
- High efficacy luminaire may be used to meet IECC, ASHRAE, and Title 24 commercial standards.



PD6H113 PD6H118 62H

(1) 13W or 18W DTT

Compact Fluorescent

6-Inch Aperture Lens Downlight

New Construction or Remodel Non-IC



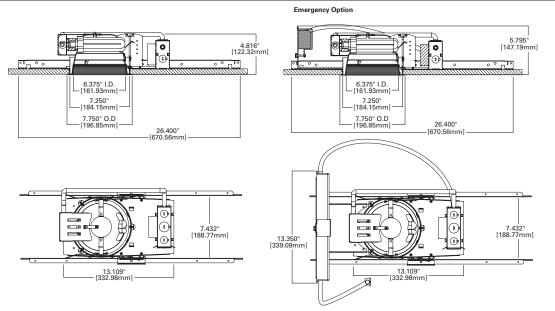
HALO Commercial

ENERGY DATA

| PD6H113E, PD6CPH113E | | | |
|---|----------------------------|--|--|
| Min. Starting Temp -5°F / -20°C | Sound Rating Class A | | |
| EMI/RFI EMISSIONS FCC 47CFR PAR | t 18 Non-Consi | jmer Limits | |
| INPUT FREQUENCY 50/60 Hz | Power Factor | > 0.98 | |
| THD < 10% | INPUT VOLTAGE 1 | 20V - 277V ±10% | |
| Crest factor < 1.7 | BALLAST FACTOR | 1.00 | |
| Operating Frequency > 40kHz | UL LISTED CLAS | S P, TYPE 1 OUTDOOR, CSA OR C/UL CERTIFIED | |
| | INPUT POWER 1 | 6W | |
| CFQ13W/G24Q | Input Current 0.25A @ 120V | | |
| | Input Current 0.11A @ 277V | | |
| PD6H1133E | | | |
| 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 1.00 | |
| Operating Frequency 62-72 kHz | | CULUS CERTIFIED | |
| 0501011/0010 | | INPUT POWER 18W | |
| CFQ13W/G24Q | | INPUT CURRENT 0.06A @ 347V | |

| PD6H118E, PD6CPH118E | | | |
|---|--|--|--|
| Min. Starting Temp 0°F / -18°C | Sound Rating Class A | | |
| EMI/RFI Emissions FCC 47CFR Pa | art 18 Non-Consumer Limits | | |
| Input Frequency 50/60 Hz Power Factor > 0.98 @ 120V | | | |
| THD < 10% @ 120V | Power Factor > 0.95 @ 277V | | |
| THD < 15% @ 277V | Input Voltage 120VAC - 277VAC ±10% | | |
| Crest factor < 1.5 | Ballast factor 1.00 | | |
| Operating Frequency 50-60kHz | cULus, Class P, Type 1 Outdoor, Type CC, Type HL | | |
| | Input Power 19W | | |
| CFQ18W/G24Q | Input Current 0.16A @ 120V | | |
| | Input Current 0.07A @ 277V | | |
| | PD6H1183E | | |
| 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 1.00 | | | |
| Operating Frequency 60-70 kHz CULus Certified | | | |
| 0504011/0040 | Input Power 21W | | |
| CFQ18W/G24Q | Input Current 0.06A @ 347V | | |
| | | | |

DIMENSIONS



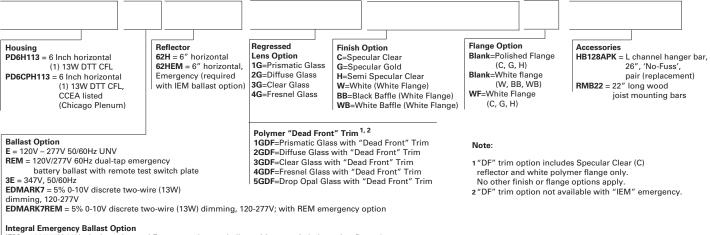


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ORDERING INFORMATION

SAMPLE NUMBER: PD6H113E 62H1GC

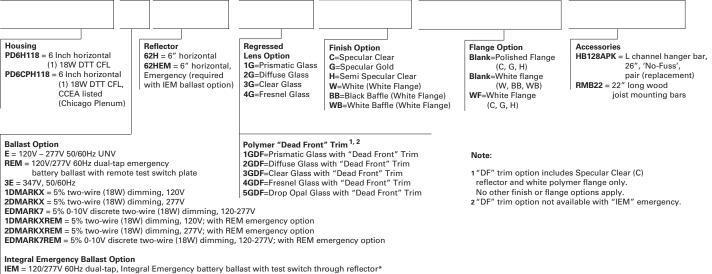
Order housing, reflector and lamp separately for a complete luminaire.



IEM = 120/277V 60Hz dual-tap, Integral Emergency battery ballast with test switch through reflector* EDMARK7IEM = 5% 0-10V discrete two-wire (13W) dimming, 120-277V; with IEM emergency option* *Requires "EM" reflectors only, ordered separately

SAMPLE NUMBER: PD6H118E 62H1GC

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



1DMARKXIEM = 5% two-wire (18W) dimming, 120V; with IEM emergency option* 2DMARKXIEM = 5% two-wire (18W) dimming, 277V; with IEM emergency option*

EDMARK7IEM = 5% 0-10V discrete two-wire (18W) dimming, 120-277V; with IEM emergency option*

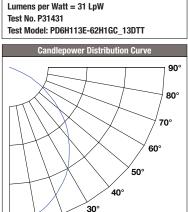
*Requires "EM" reflectors only, ordered separately



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PHOTOMETRY

PD6H113E-62H1GC_13DTT Spacing Criteria = 0.92



| Candela Distribution | | |
|----------------------|---------|--|
| Degrees Vertical | Candela | |
| 0* | 263 | |
| 5 | 251 | |
| 15 | 217 | |
| 25 | 172 | |
| 35 | 128 | |
| 45 | 92 | |
| 55 | 60 | |
| 65 | 30 | |
| 75 | 1 | |
| 85 | 0 | |
| 90 | 0 | |

*CBCP

| Luminance | | |
|-----------------------------|------|--|
| (Average Candela/M²) | | |
| Degree Avg. 0° Luminance | | |
| 45 | 5092 | |
| 55 | 3781 | |
| 65 | 2275 | |
| 75 | 99 | |
| 85 | 0 | |

| Cone of Light Footcandles | | | | |
|---------------------------|---------------|-------------|------------|--|
| Distance to | Initial Nadir | Bean | Beam (ft.) | |
| Illuminated Plane | Footcandles | L Length | W Width | |
| 5.5' | 9 | 5.5 | 6.3 | |
| 7' | 5 | 7.1 | 8 | |
| 8' | 4 | 8.1 | 9.1 | |
| 9' | 3 | 9.1 | 10.3 | |
| 10' | 3 | 10.1 | 11.4 | |
| 12' | 2 | 12.1 | 13.7 | |
| 14' | 1 | 14.1 | 16 | |

Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot. Footcandle values are initial, apply appropriate light loss factors where necessary.

| Zonal Lumen Summary | | | | |
|---------------------|--------|--------|-----------|--|
| Zone | Lumens | % Lamp | % Fixture | |
| 0-30 | 183.35 | 20.40 | 37.80 | |
| 0-40 | 285.81 | 31.80 | 59.00 | |
| 0-60 | 447.17 | 49.70 | 92.20 | |
| 0-90 | 484.77 | 53.90 | 100.00 | |

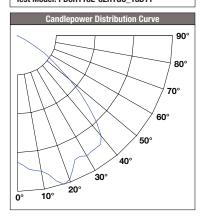
PD6H118E-62H1GC_18DTT

Spacing Criteria = 1.18 Lumens per Watt = 32 LpW Test No. P31196 Test Model: PD6H118E-62H1GC_18DTT

20°

0°

10°



| Candela Distribution | | |
|----------------------|---------|--|
| Degrees Vertical | Candela | |
| 0* | 299 | |
| 5 | 294 | |
| 15 | 278 | |
| 25 | 249 | |
| 35 | 213 | |
| 45 | 160 | |
| 55 | 100 | |
| 65 | 32 | |
| 75 | 1 | |
| 85 | 0 | |
| | | |

0

*CBCP

90

| Lumi | Luminance | | |
|------------|-----------------------------|--|--|
| (Average C | (Average Candela/M²) | | |
| Degree | Degree Avg. 0° Luminance | | |
| 45 | 8855 | | |
| 55 | 6301 | | |
| 65 | 2426 | | |
| 75 | 99 | | |
| 85 | 0 | | |

| Cone of Light Footcandles | | | | |
|---------------------------|---------------|-------------|-------------------|--|
| Distance to | Initial Nadir | | Beam (ft.) | |
| Illuminated Plane | Footcandles | L Length | W Width | |
| 5.5' | 10 | 6 | 6.3 | |
| 7' | 6 | 7.7 | 8 | |
| 8' | 5 | 8.8 | 9.2 | |
| 9' | 4 | 9.9 | 10.3 | |
| 10' | 3 | 11 | 11.4 | |
| 12' | 2 | 13.1 | 13.7 | |
| 14' | 2 | 15.3 | 16 | |

Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot. Footcandle values are initial, apply appropriate light loss factors where necessary.

| Zonal Lumen Summary | | | | |
|---------------------|--------|--------|-----------|--|
| Zone | Lumens | % Lamp | % Fixture | |
| 0-30 | 211.24 | 17.60 | 36.60 | |
| 0-40 | 336.08 | 28.00 | 58.30 | |
| 0-60 | 538.25 | 44.90 | 93.30 | |
| 0-90 | 576.76 | 48.10 | 100.00 | |

COOPER Lighting www.cooperlighting.com Note: Specifications and Dimensions subject to change without notice.

Visit our web site at www.cooperlighting.com

Customer First Center 1121 Highway 74 South Peachtree City, GA 30269 770.486.4800 FAX 770 486.4801 Cooper Lighting 5925 McLaughlin Rd. Mississauga, Ontario, Canada L5R 1B8 905.507.4000 FAX 905.568.7049