HALO Commercial

DESCRIPTION

Recessed 8 inch aperture lens downlight for one horizontal 26W double twin tube or 26/32/42W triple 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.

Catalog #	Туре
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

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) 26W DTT or 26/32/42W TTT 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 26/32/42W 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 accessible inside the reflector. The IEM option requires "EM" designated reflectors only, ordered separately.

Emergency Battery Pack - Average Lamp Lumen Ratings

REM option: 26W 425lm, 32W 600lm, 42W 750lm

IEM option: 26W 810Im, 32W 910Im, 42W 1040Im

(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.
- Peel down wattage label from 42W to 32W and 26W.
 Allows de-rating to set max. relamp wattage per project specifications (multi-wattage housings only).
- DR De-rated label housings are wattage specific for 26/32W or 26W.
- High efficacy luminaire may be used to meet IECC, ASHRAE, and Title 24 commercial standards.



PD8H142 82H

(1) 26W DTT 26/32/42WTTT

Compact Fluorescent

8-Inch Aperture Lens Downlight

New Construction or Remodel Non-IC

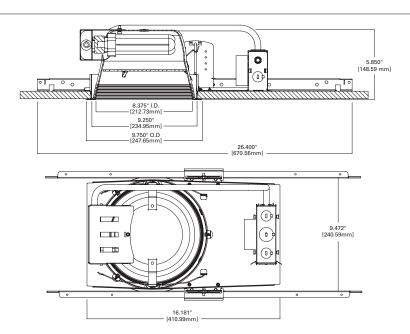
HALO Commercial

ENERGY DATA

PD8H142E, PD8CPH142E			
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			
OPERATING FREQUENCY > 40kHz	UL LISTED CLASS P, Type 1 OUTDOOR, CSA OR C/UL CERTIFIED		
	Input Power 28W		
CF026W/G240	INPUT CURRENT 0.50A @ 120V		
OI QZOW/GZ4Q	Input Current 0.22A @ 277V		
	Ballast factor 1.00		
	Input Power 28W		
CFTR26W/GX24Q	Input Current 0.50A @ 120V		
OF THEOWY GAZETQ	Input Current 0.22A @ 277V		
	Ballast factor 1.00		
	Input Power 35W		
CFTR32W/GX24Q	Input Current 0.50A @ 120V		
GFTN32W/UA24U	Input Current 0.22A @ 277V		
	Ballast factor .98		
	Input Power 45W		
CFTR42W/GX240	Input Current 0.50A @ 120V		
OI IN4ZW/UAZ4Q	Input Current 0.22A @ 277V		
	Ballast factor .96		

	PD8H1423E	
Min. Starting Temp 0°F / -18°C Sound Rating Class A		
EMI/RFI EMISSIONS FCC 47CFR PAR	t 18 Non-Consumer Limits	
INPUT FREQUENCY 60 Hz	Power Factor > 0.98	
THD < 10%	INPUT VOLTAGE 347VAC ±10%	
OPERATING FREQUENCY 50-60 KHZ	cULus Listed Class P, Type 1 Outdoor, Type CC	
	Input Power 31W	
CF026W/G240	INPUT CURRENT 0.09A @ 347V	
OI QZOW/QZ4Q	Ballast factor 1.02	
	Crest factor < 1.6	
	Input Power 31W	
CFTR26W/GX24Q	Input Current 0.09A @ 347V	
CF1R20W/GA24Q	Ballast factor 1.02	
	Crest factor < 1.6	
	Input Power 36W	
CFTR32W/GX240	Input Current 0.11A @ 347V	
CF1R32W/GX24Q	Ballast factor 0.98	
	Crest factor < 1.5	
	Input Power 50W	
CFTR42W/GX24Q	Input Current 0.15A @ 347V	
UFIN4ZW/UAZ4Q	Ballast factor 1.00	
	Crest factor < 1.5	

DIMENSIONS





HALO Commercial

ORDERING INFORMATION

SAMPLE NUMBER: PD8H142F 82H1GC

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

Housing Multi-Wattage PD8H142 =

8 Inch horizontal (1) 26/32/42W DTT/TTT CFL PD8CPH142 = 8 Inch horizontal (1) 26/32/42W DTT/TTT CFL. CCEA listed (Chicago Plenum)

De-Rated Label PD8H132 =

8 Inch horizontal (1) 26/32W DTT/TTT CFL PD8CPH132 = 8 Inch horizontal (1) 26/32W DTT/TTT CFL, CCEA listed (Chicago Plenum) PD8H126 =

8 Inch horizontal (1) 26W DTT/TTT CFL PD8CPH126 = 8 Inch horizontal (1) 26W DTT/TTT CFL, CCEA listed (Chicago Plenum) **Ballast Option**

E = 120V - 277V 50/60Hz UNV **REM** = 120V/277V 60Hz dual-tap emergency battery ballast with remote test switch plate **3E =** 347V, 50/60Hz

1DMARKX = 5% two-wire (26/32/42W) dimming, 120V 2DMARKX = 5% two-wire (26/32/42W)

dimming, 277V EDMARK7 = 5% 0-10V discrete

two-wire (26/32/42W) dimming, 120-277V 1DMARKXREM = 5% two-wire (26/32/42W) dimming, 120V; with REM emergency option **2DMARKXREM** = 5% two-wire (26/32/42W)

dimming, 277V; with REM emergency option

Reflector Regressed Lens Option 1G=Prismatic Glass 82H = 8" horizontal **82HEM** = 8" 2G=Diffuse Glass Horizontal, 3G=Clear Glass Emergency 4G=Fresnel Glass (required with IEM ballast

Finish Option C=Specular Clear G=Specular Gold

H=Semi Specular Clear W=White (White Flange) BB = Black baffle (White Flange) **WB** = White baffle (White Flange)

EDMARK7REM = 5% 0-10V discrete two-wire (26/32/42W) dimming, 120-277V; with REM emergency option

Integral Emergency Ballast Option

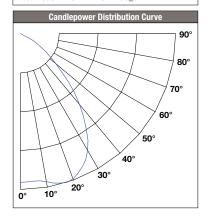
IEM = 120/277V 60Hz dual-tap, Integral Emergency battery ballast with test switch through reflector*

1DMARKXIEM = 5% two-wire (26/32/42W) dimming, 120V; with IEM emergency option*
2DMARKXIEM = 5% two-wire (26/32/42W) dimming, 277V; with IEM emergency option*
EDMARK7IEM = 5% 0-10V discrete two-wire (26/32/42W) dimming, 120-277V; with IEM emergency option*

*Requires "EM" reflectors only, ordered separately

PHOTOMETRY

PD8H142E-82H1GC_32TTT Spacing Criteria = 1.22 Lumens per Watt = 44 LpW Test No. P31433 Test Model: PD8H142E-82H1GC_32TTT



Odilacia Distribution		
Degrees Vertical	Candela	
0*	782	
5	789	
15	798	
25	722	
35	552	
45	359	
55	166	
65	39	
75	1	
85	0	
90	0	

*CBCP

Candela Distribution

Lumi	Luminance		
(Average ((Average Candela/M²)		
Degree	Avg. 0° Luminance		
45	11744		
55	6285		
65	1818		
75	63		
85	0		

Cone of Light Footcandles			
Distance to	Initial Nadir Footcandles	Beam (ft.)	
Illuminated Plane		L Length	W Width
5.5'	26	6.5	7.1
7'	16	8.3	9
8'	12	9.5	10.3
9'	10	10.6	11.6
10'	8	11.8	12.9
12'	5	14.2	15.5
14'	4	16.5	18

Accessories

HB128APK = L channel hanger bar,

26", 'No-Fuss', pair (replacement) RMB22 = 22" long wood joist

mounting bars

Flange Option

Blank=White

Blank=Polished

Flange

WF=White Flange

(C, G, H)

(C, G, H)

Flange (W, BB, WB)

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	640.21	26.70	44.20	
0-40	990.80	41.30	68.40	
0-60	1398.25	58.30	96.60	
0-90	1447.59	60.30	100.00	