HALO Commercial

DESCRIPTION

Recessed 8 inch aperture open downlight for one horizontal 26W double twin tube or 26/32/42W triple twin tube compact fluorescent lamp. 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 #	Туре
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES

MECHANICAL Frame

Boat shaped galvanized steel frame with a pre-set 1/2" plaster lip collar that adjusts from 1/2" to 2", to accommodate 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 adjust 2" vertically from above the ceiling or thru the aperture. Use with No Fuss $^{\text{TM}}$ bar hangers or with $^{\text{1/2}}$ " 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

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

(4) 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 810lm, 32W 910lm, 42W 1040lm

(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 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
Open Downlight

New Construction or Remodel Non-IC



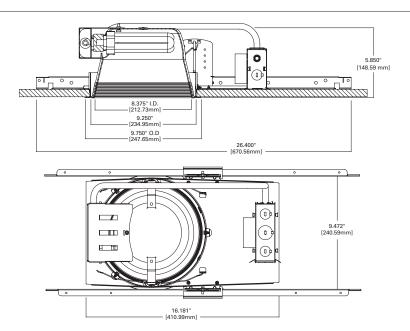
HALO Commercial

ENERGY DATA

	DD0U142E DD0CDU142E	
PD8H142E, PD8CPH142E		
MIN. STARTING TEMP -5°F / -20°C	SOUND RATING CLASS A	
EMI/RFI EMISSIONS FCC 47CFR PART	· · · · · · · · · · · · · · · · · · ·	
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	
01 Q20W/Q24Q	Input Current 0.22A @ 277V	
	Ballast factor 1.00	
	Input Power 28W	
CFTR26W/GX24Q	Input Current 0.50A @ 120V	
of Theomy are 14	Input Current 0.22A @ 277V	
	Ballast factor 1.00	
	Input Power 35W	
CFTR32W/GX24Q	Input Current 0.50A @ 120V	
CFINOZW/UAZ4Q	Input Current 0.22A @ 277V	
	Ballast factor .98	
	Input Power 45W	
CFTR42W/GX24Q	Input Current 0.50A @ 120V	
01 11172 W/ U/27Q	Input Current 0.22A @ 277V	
	Ballast factor .96	

	PD8H1423E	
IN. 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	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	
CFQ26W/G24Q	INPUT CURRENT 0.09A @ 347V	
UFQ20W/Q24Q	Ballast factor 1.02	
	Crest factor < 1.6	
	Input Power 31W	
CFTR26W/GX240	Input Current 0.09A @ 347V	
GFTN20W/UA24Q	Ballast factor 1.02	
	Crest factor < 1.6	
	Input Power 36W	
CFTR32W/GX240	Input Current 0.11A @ 347V	
CF1K32W/GX24Q	Ballast factor 0.98	
	Crest factor < 1.5	
	Input Power 50W	
CFTR42W/GX240	Input Current 0.15A @ 347V	
OF I N42W/UAZ4V	Ballast factor 1.00	
	Crest factor < 1.5	

DIMENSIONS





HALO Commercial

ORDERING INFORMATION

SAMPLE NUMBER: PD8H142E 82HC

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)

Reflector

82H = 8" Horizontal 82HEM = 8" Horizontal, Emergency (required with IEM ballast option)

Shielding Media [Blank] = none

CB = Cross blade louvers (blade finish matches reflector, not available with baffle)

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) Flange Option

Blank=Polished Flange (C, G, H) Blank=White flange (W. BB. WB) WF=White Flange (C, G, H)

Accessories

HB128APK = L channel hanger bar, 26", 'No-Fuss', pair (replacement) RMB22 = 22" long wood joist

mounting bars

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
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*

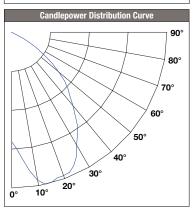
2DMARKXIEM = 5% two-wire (26/32/42W) dimming, 277V; with IEM emergency option*

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-82HC_32TTT Spacing Criteria = 1.52 Lumens per Watt = 55 LpW Test No. P31432 Test Model: PD8H142E-82HC 32TTT



Candela Distribution		
Degrees Vertical	Candela	
0*	678	
5	790	
15	962	
25	913	
35	714	
45	496	
55	255	
65	35	
75	1	
85	0	
90	0	
	*CBCP	

Luminance		
(Average Candela/M²)		
Degree	Avg. 0° Luminance	
45	16676	
55	9914	
65	1673	
75	65	
85	0	

Cone of Light Footcandles			
Distance to	Initial Nadir	Beam (ft.)	
Illuminated Plane	Footcandles	L Length	W Width
5.5'	30	6.9	7.7
7'	18	8.8	9.8
8'	14	10	11.2
9'	11	11.3	12.6
10'	9	12.5	14
12'	6	15	16.9
14'	5	17.6	19.7

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	721.90	30.10	39.80	
0-40	1188.28	49.50	65.60	
0-60	1774.36	73.90	97.90	
0-90	1812.13	75.50	100.00	