

# 8.5" ROUND DOWNLIGHT – HORIZONTAL LAMP

# PH85

## CFL

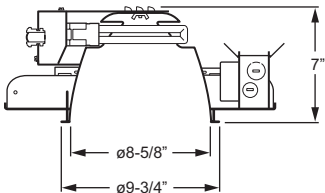
CATALOG #:	TYPE:
PROJECT:	NOTES:

**EXAMPLE** **PH85 - 2 32T - CS - OPTIONS - EB2 - UNV**

SERIES      NUMBER WATTAGE/ OF LAMPS TYPE      REFLECTOR FINISH      OPTIONS      BALLAST TYPE      VOLTAGE



### CROSS SECTION



### ORDERING INFORMATION

**SERIES**  
**PH85**      8.5" Round Downlight–Horizontal Lamp

#### LAMP OPTIONS

# OF LAMPS	WATTAGE/TYPE
1 or 2	18Q, 26Q, 32T, or 42T
3	18Q or 26Q

#### REFLECTOR FINISH

<b>CS</b>	Clear semi-specular (standard)
<b>SPC</b>	Clear specular
<b>CG</b>	Champagne gold
<b>GD</b>	Gold
<b>PW</b>	Pewter
<b>SG</b>	Satin-glow
<b>STR</b>	Straw
<b>WH</b>	Painted white reflector, textured
<b>WT</b>	Wheat

#### OPTIONS

For EM and EM/ITS ballast options, see [Technical Info](#). (EM is not available with RETRO option. EM/ITS option is not available with CP or YOKE options).

<b>F</b>	Fuse (must specify voltage)
<b>MWT</b>	Matte white trim
<b>MB</b>	Micro-baffle
<b>WW</b>	Wall wash (not available with AC or MB)
<b>YOKE</b>	Yoke-mount reflector (not available with EM/ITS option)
<b>CP</b>	Chicago Plenum (CCEA) (not available with 3-lamp fixture; not available with EM/ITS)

#### OPTIONS (Continued)

<b>AC/CGS</b>	Accent cone with clear glass lens (acrylic or polycarbonate lens options also available).
<b>AC/CPG</b>	Accent cone with clear prismatic tempered glass lens
<b>MB/CGS</b>	Micro-baffle with clear glass lens (acrylic or polycarbonate lens options also available).
<b>MB/CPG</b>	Micro-baffle with clear prismatic tempered glass lens
<b>SCA__°</b>	Sloped ceiling adapter (Specify degree of slope in 5° increments, 10°-30°. SCA increases fixture height, see <a href="#">Technical Info</a> for details.)
<b>RETRO</b>	Retrofit mounting pan assembly (see <a href="#">Technical Info</a> for details; not available with EM option)

#### BALLAST TYPE

<b>EB1</b>	1-lamp electronic ballast
<b>EB2</b>	2-lamp electronic ballast
<b>EB2/1</b>	(1) 2-lamp and (1) 1-lamp electronic ballast
<b>EBD1*__</b>	(must specify 120V or 277V only; must specify manufacturer, see <a href="#">Technical Info</a> for dimming ballast options)
<b>EBD2*__</b>	2-lamp electronic dimming ballast (must specify 120V or 277V only; must specify manufacturer, see <a href="#">Technical Info</a> for dimming ballast options)
<b>EBD2/1*__</b>	(1) 2-lamp and (1) 1-lamp electronic dimming ballast (must specify 120V or 277V only; must specify manufacturer, see <a href="#">Technical Info</a> for dimming ballast options)

#### VOLTAGE (Must specify)

<b>120</b>	120V
<b>277</b>	277V
<b>UNV</b>	120-277V

### FEATURES

- ▶ Self-flanged aluminum reflector prevents light leaks and is available in assorted colors.
- ▶ Sturdy one-piece pan construction.
- ▶ Adjustable hanger brackets with bar hangers standard.
- ▶ Easy-access, 14-gauge galvanized steel junction box with two snap-on covers.
- ▶ This fixture is proudly made in the USA.



# PH85

## 8.5" ROUND DOWNLIGHT – HORIZONTAL LAMP

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### PHOTOMETRY INFORMATION

Catalog #: PH85-232T-120-EB

#### SPECIFICATIONS

**Housing** – 20-gauge, die-formed, galvanized steel pan/plaster frame.

**Reflector** – Low-iridescent aluminum. Clear semi-specular (CS) finish standard.

**Electrical** – Electronic ballast. Prewired at factory for easy field installation.

**Mounting** – Recessed.

Pan size: 12" x 16-1/4" Ceiling cutout: ø9-1/8"

Pan size w/SCA: 17" x 23"

Cutout w/SCA: ø12-1/2"

#### Labels –

- UL/CUL listed for through-branch circuit wiring and dry or damp locations.
- UL/CUL listed for wet location under covered ceiling when specified with \_\_\_/CGS or \_\_\_/CPG option.
- City of Chicago Environmental Air approved when specified with CP option.

**Warranty** – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).

#### LAMP BASE DATA

WATTAGE	BASE
18Q	G24q-2
26Q	G24q-3
32T	GX24q-3
42T	GX24q-4

#### REFLECTOR FINISH MULTIPLIER

CATALOG NUMBER	REFLECTOR FINISH	CONVERSION FACTOR
CS	Clear semi-specular	1.00
SPC	Clear specular	1.02
CG	Champagne Gold	0.96
GD	Gold	0.93
PW	Pewter	0.86
SG	Satin-glow	0.83
STR	Straw	0.97
WH	White, textured	0.90
WT	Wheat	0.88
MB	Micro-baffle	0.60

#### TEST REPORT INFORMATION

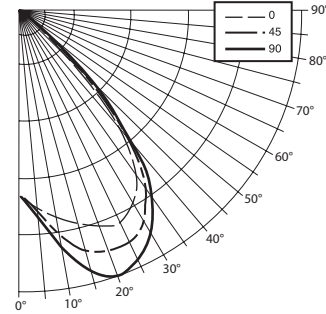
- Test Report #: 10420.1
- Date: 11/16/99
- Lamp Type: CFM32W/GX24q/35
- Lamp Quantity: 2
- Rated Lumens: 2400.

#### DESCRIPTION

- 2/32W PLT Compact Fluorescent
- 8.5" Diameter Horizontal Recessed Luminaire
- Low-Iridescent Semi-Specular Reflector with Open Bottom

#### CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0°	1227.	1227.	1227.	
5°	1300.	1327.	1365.	125.4
15°	1446.	1632.	1764.	439.5
25°	1544.	1682.	1822.	753.0
35°	1334.	1432.	1521.	855.5
45°	545.	635.	733.	468.0
55°	33.	49.	70.	37.8
65°	6.	5.	5.	5.3
75°	2.	1.	1.	1.5
85°	0.	0.	0.	.0
90°	0.	0.	0.	



#### LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	1318.	27.5	49.1
0 - 40	2173.	45.3	80.9
0 - 60	2679.	55.8	99.7
0 - 90	2686.	56.0	100.0
<b>Total Luminaire:</b>			
0 - 180	2686.	56.0	100.0
IES Spacing Criteria: End = 1.5 Diagonal = 1.6 Across = 1.6			

#### ZONAL CAVITY COEFFICIENTS

	Ceiling	.80			.70			.50		
	Wall	.70	.50	.30	.70	.50	.30	.50	.30	.10
Room Cavity Ratio	0	.67	.67	.67	.65	.65	.65	.62	.62	.62
	1	.63	.62	.60	.62	.60	.59	.58	.57	.56
	2	.60	.57	.55	.59	.56	.54	.54	.52	.51
	3	.57	.53	.50	.55	.52	.49	.50	.48	.46
	4	.53	.49	.45	.52	.48	.45	.47	.44	.42
	5	.50	.45	.41	.49	.44	.41	.43	.40	.38
	6	.47	.41	.38	.46	.41	.37	.40	.37	.35
	7	.44	.38	.34	.43	.38	.34	.37	.34	.31
	8	.41	.35	.31	.40	.34	.31	.34	.30	.28
	9	.38	.31	.28	.37	.31	.27	.31	.27	.25
	10	.35	.29	.25	.34	.28	.25	.28	.25	.22

Effective Floor Cavity Reflectance = .20

#### QUANTITY ESTIMATOR

Room Size	±50 fc.	±75 fc.	±100 fc.
20' x 20' (400 sq. ft.)	9	12	16
30' x 30' (900 sq. ft.)	20	30	36
40' x 40' (1,600 sq. ft.)	36	49	72

Calculations based on standard reflectance of 80/50/20 and a light loss factor of 1.0 with a 10'-0" ceiling height.

