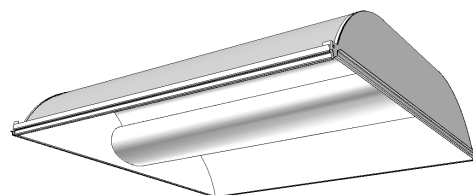


# Highly efficient with balanced illumination and versatility.

H9S2GLR214 OR 224  
HP90



2' X 2' DIRECT/INDIRECT RECESSED FLUORESCENT  
ACRYLIC LINEAR PRISMATIC LENS  
STATIC, 2 LAMP T5/T5HO

HP90 combines a recessed contoured body with an enclosed linear prismatic translucent lens to create an exciting highly efficient direct/indirect luminaire.

Project: \_\_\_\_\_  
Location: \_\_\_\_\_  
Catalog No: \_\_\_\_\_  
Fixture Type: \_\_\_\_\_  
Mfg: \_\_\_\_\_ Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
Notes: \_\_\_\_\_

## Ordering Guide

Explanation of Catalog Number Example: H9S2GLR224120PG

| HP90                            | Body Style                     | Fixture Width                  | Ceiling Type                          | Lens Type                      | Reflector                      | Lamp Qty                       | Lamp/ Fixture Length                                                    | Voltage                                                                              | Ballast Type                                                                                                                                                                                                                                                                                                           | Options                               |
|---------------------------------|--------------------------------|--------------------------------|---------------------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| <input type="text" value="H9"/> | <input type="text" value="S"/> | <input type="text" value="2"/> | <input type="text" value="G"/>        | <input type="text" value="L"/> | <input type="text" value="R"/> | <input type="text" value="2"/> | <input type="text"/>                                                    | <input type="text"/>                                                                 | <input type="text" value="PG"/>                                                                                                                                                                                                                                                                                        | <input type="text"/>                  |
| Direct/ Indirect Recessed       | <b>S</b> = Static              | <b>2</b> = 2'                  | Fits Both Standard Grid and Slot Grid | <b>L</b> = Acrylic Lens        | <b>R</b> = Specular Aluminum   | <b>2</b> = 2 Lamp              | (By Others)<br><b>14</b> = T5 14W<br><b>24</b> = T5HO 24W (Nominal 24") | <b>UNV</b> = 120/277V<br><b>120</b> = 120V<br><b>277</b> = 277V<br><b>347</b> = 347V | <b>&lt;10THD</b><br><b>PG</b> 2 Lamp Elec. T5/T5HO Program Start<br><b>VY</b> 2 Lamp Elec. T5 Program Start Step-Dim (14W Only)<br><b>PF</b> 2 Lamp Elec. T5/T5HO LOL Dimming<br><b>NOTE:</b> 347V. Emergency in T5/T5HO Not Available. Please Consult Your Philips Lighting Representative for 120V and 277V Options. | Add Appropriate Suffix to Catalog No. |

# H9S2GLR214 OR 224 HP90

## Features

- 83.2% efficient (2 lamp, 14W T5).
- 80.3% efficient (2 lamp, 24W T5HO).
- Direct/indirect appearance with soft contoured interior.
- Lens encloses lamp compartment.
- Translucent DR acrylic linear prismatic lens.
- Tension screws secure ends to body.
- Same fixture fits both G and T ceiling types.
- Fits flush to face of slot grid (T) ceiling types.
- Lamp shield opens from either side.
- 95% reflective specular aluminum reflector.
- Ballast accessible from room side.\*
- Built-in earthquake clips.
- Can be continuous row mounted.
- Wiring access plate standard.
- Optional DALI ballast iGEN TECHNOLOGY accepts digital dimming controllers, scene controllers and automatic control devices.

## Specifications

**Performance:** In an installation of 2 lamp 14W luminaires in a room cavity ratio of 1, reflectance 80% ceiling, 50% wall, 20% floor, the C.U. shall not be less than .86. To reduce glare the average brightness at 65° shall not exceed 2540 candelas per square meter. To control veiling reflections, luminaire output in the 30°–90° zone shall not be less than 75.3%

**Materials:** Chassis parts are die-formed code gauge steel.

**Lamp Shield:** Linear prismatic translucent DR acrylic lens.

**Finish:** Chassis Exterior—Baked white acrylic enamel. Cavity—baked flat white acrylic enamel. Phosphate undercoating. Reflector—low iridescence specular aluminum 95% reflectance.

**Electrical:** Thermally protected class “P” ballast C.B.M. approved, non PCB. If K.O. is within 3" of ballast, use wire suitable for at least 90°. UL Listed for damp locations.

**Labels:** I.B.E.W./UL and ULc Listed.

This product may have a mercury containing lamp. Manage in accord with Disposal Laws. See: [www.lamprecycle.org](http://www.lamprecycle.org)

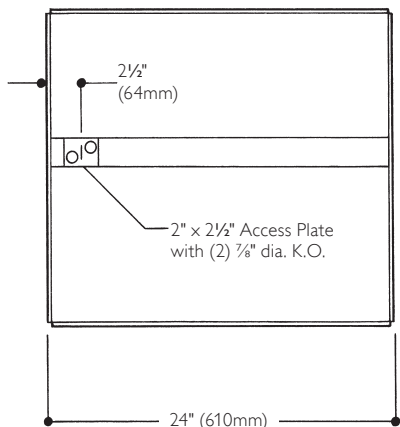
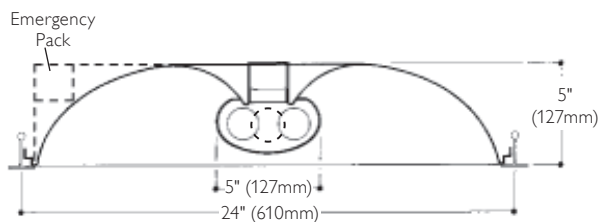
## Options/Accessories

**Electrical/Wiring Options:** Consult your Philips Lighting representative.

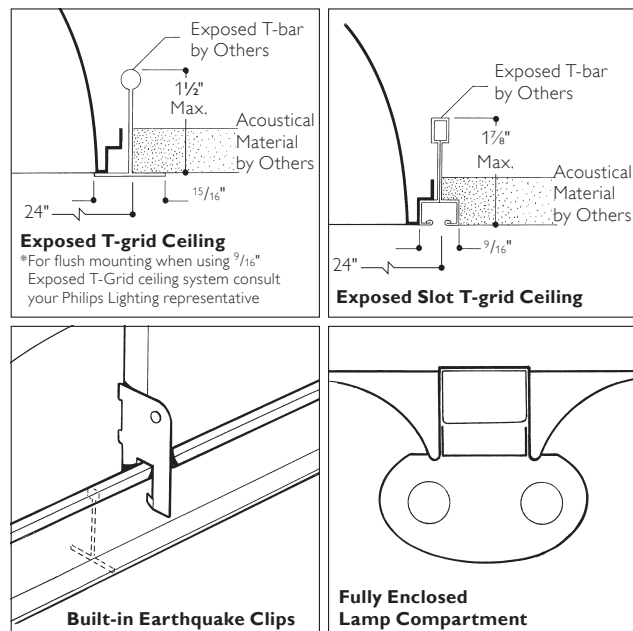
**Fusing:** Internal fast-blow fusing. Suffix: F.

**Drywall Kit:** Order catalog number: FK92X2.

## Dimensions



## Mounting Methods



# H9S2GLR214 OR 224 HP90

## Performance

### Model No. H9S2GLR214UNVPG

LER = FP-68.1 IW-31.1 BF-1.06  
Comparative yearly lighting energy cost per 1000 lumens = \$3.53

Report Number: G2010021

Catalog Number: H9S2GLR214UNVPG

Lamp: (2) F14 T5

Luminaire: HP90 2' x 2' with linear prismatic lens.

Ballast: ICN-2S28

Report is based on 1200 lumens per lamp.

Efficiency: 83.2%

CIE Type: Direct-Indirect

Plane: 0 Deg. 90 Deg.

Spacing Criteria: 1.3 1.4

Shielding Angles: 90 90

Plane: 0 Deg. 90 Deg.

Luminous Length: 22.800 22.800

#### Candela Distribution

| Angle | 0.0 | 45.0 | 90.0 | FLUX |
|-------|-----|------|------|------|
| 0     | 622 | 622  | 622  |      |
| 5     | 620 | 620  | 623  | 59   |
| 15    | 595 | 605  | 614  | 171  |
| 25    | 548 | 572  | 593  | 264  |
| 35    | 481 | 521  | 559  | 326  |
| 45    | 397 | 456  | 507  | 351  |
| 55    | 299 | 375  | 440  | 333  |
| 65    | 198 | 184  | 364  | 280  |
| 75    | 100 | 180  | 226  | 178  |
| 85    | 21  | 27   | 20   | 35   |
| 90    | 0   | 0    | 0    |      |

#### Luminance Data in Candela/Sq. Meter

| Average in Deg. | Average 0 Deg. | Average 45 Deg. | Average 90 Deg. |
|-----------------|----------------|-----------------|-----------------|
| 45              | 1656.          | 1902.           | 2115.           |
| 55              | 1538.          | 1928.           | 2263.           |
| 65              | 1382.          | 1982.           | 2540.           |
| 75              | 1140.          | 2051.           | 2575.           |
| 85              | 711.           | 917.            | 677.            |

#### Coefficients of Utilization

| Ceiling           | 80%                                                               |    |    | 50% |    |    | 30% |    |    |    |
|-------------------|-------------------------------------------------------------------|----|----|-----|----|----|-----|----|----|----|
| Wall              | 70                                                                | 50 | 30 | 50  | 30 | 10 | 50  | 30 | 10 |    |
| RCR               | Zonal Cavity Method—<br>Effective Floor Cavity Reflectance = 0.20 |    |    |     |    |    |     |    |    |    |
| Room Cavity Ratio | 1                                                                 | 90 | 86 | 82  | 80 | 78 | 75  | 77 | 75 | 73 |
|                   | 2                                                                 | 81 | 74 | 68  | 70 | 65 | 61  | 67 | 63 | 59 |
|                   | 3                                                                 | 74 | 65 | 57  | 61 | 55 | 50  | 58 | 54 | 50 |
|                   | 4                                                                 | 67 | 57 | 49  | 54 | 47 | 43  | 52 | 46 | 42 |
|                   | 5                                                                 | 62 | 51 | 43  | 48 | 41 | 36  | 46 | 41 | 36 |
|                   | 6                                                                 | 57 | 45 | 38  | 43 | 37 | 32  | 42 | 36 | 31 |
|                   | 7                                                                 | 53 | 41 | 34  | 39 | 33 | 28  | 38 | 32 | 28 |
|                   | 8                                                                 | 49 | 37 | 30  | 36 | 29 | 25  | 35 | 29 | 25 |
|                   | 9                                                                 | 46 | 34 | 27  | 33 | 27 | 22  | 32 | 26 | 22 |
|                   | 10                                                                | 43 | 32 | 25  | 30 | 24 | 20  | 29 | 24 | 20 |

#### Zonal Lumen Summary

| Zone   | Lumens | % Lamp | % Fixt |
|--------|--------|--------|--------|
| 0-30   | 494    | 20.6   | 24.7   |
| 0-40   | 820    | 34.2   | 41.1   |
| 0-60   | 1504   | 62.7   | 75.3   |
| 0-90   | 1997   | 83.2   | 100.0  |
| 90-180 | 0      | 0.0    | 0.0    |
| 0-180  | 1997   | 83.2   | 100.0  |

### Model No. H9S2GLR224UNVPG

LER = FP-57.2 IW-49.4 BF-1.0  
Comparative yearly lighting energy cost per 1000 lumens = \$4.19

Report Number: G2007082

Catalog Number: H9S2GLR224UNVPG

Lamp: (2) F24 T5HO

Luminaire: HP90 2' x 2' with linear prismatic lens.

Ballast: QTP2X39-24T5HO/UNV

Report is based on 1760 lumens per lamp.

Efficiency: 80.3%

CIE Type: Direct-Indirect

Plane: 0 Deg. 90 Deg.

Spacing Criteria: 1.2 1.4

Shielding Angles: 90 90

Plane: 0 Deg. 90 Deg.

Luminous Length: 22.800 22.800

#### Candela Distribution

| Angle | 0.0 | 45.0 | 90.0 | FLUX |
|-------|-----|------|------|------|
| 0     | 894 | 894  | 894  |      |
| 5     | 889 | 890  | 893  | 85   |
| 15    | 852 | 867  | 880  | 245  |
| 25    | 781 | 818  | 848  | 377  |
| 35    | 687 | 744  | 800  | 465  |
| 45    | 547 | 651  | 732  | 499  |
| 55    | 397 | 538  | 642  | 473  |
| 65    | 246 | 406  | 527  | 393  |
| 75    | 114 | 253  | 326  | 246  |
| 85    | 26  | 37   | 29   | 47   |
| 90    | 0   | 0    | 0    |      |

#### Luminance Data in Candela/Sq. Meter

| Average in Deg. | Average 0 Deg. | Average 45 Deg. | Average 90 Deg. |
|-----------------|----------------|-----------------|-----------------|
| 45              | 2081.          | 2477.           | 2785.           |
| 55              | 1862.          | 2523.           | 3011.           |
| 65              | 1566.          | 2584.           | 3354.           |
| 75              | 1185.          | 2630.           | 3388.           |
| 85              | 802.           | 1142.           | 895.            |

#### Coefficients of Utilization

| Ceiling           | 80%                                                               |    |    | 50% |    |    | 30% |    |    |    |
|-------------------|-------------------------------------------------------------------|----|----|-----|----|----|-----|----|----|----|
| Wall              | 70                                                                | 50 | 30 | 50  | 30 | 10 | 50  | 30 | 10 |    |
| RCR               | Zonal Cavity Method—<br>Effective Floor Cavity Reflectance = 0.20 |    |    |     |    |    |     |    |    |    |
| Room Cavity Ratio | 1                                                                 | 87 | 83 | 79  | 78 | 75 | 73  | 75 | 72 | 70 |
|                   | 2                                                                 | 79 | 72 | 66  | 67 | 63 | 59  | 65 | 61 | 58 |
|                   | 3                                                                 | 71 | 63 | 56  | 59 | 53 | 49  | 57 | 52 | 48 |
|                   | 4                                                                 | 65 | 55 | 48  | 52 | 46 | 41  | 50 | 45 | 41 |
|                   | 5                                                                 | 60 | 49 | 42  | 46 | 40 | 35  | 45 | 39 | 35 |
|                   | 6                                                                 | 55 | 44 | 37  | 42 | 36 | 31  | 40 | 35 | 31 |
|                   | 7                                                                 | 51 | 40 | 33  | 38 | 32 | 27  | 37 | 31 | 27 |
|                   | 8                                                                 | 47 | 36 | 29  | 35 | 29 | 24  | 34 | 28 | 24 |
|                   | 9                                                                 | 44 | 33 | 26  | 32 | 26 | 22  | 31 | 25 | 22 |
|                   | 10                                                                | 41 | 31 | 24  | 29 | 24 | 20  | 29 | 23 | 20 |

#### Zonal Lumen Summary

| Zone   | Lumens | % Lamp | % Fixt |
|--------|--------|--------|--------|
| 0-30   | 706    | 20.1   | 25     |
| 0-40   | 1171   | 33.3   | 41.4   |
| 0-60   | 2143   | 60.9   | 75.8   |
| 0-90   | 2828   | 80.3   | 100.0  |
| 90-180 | 0      | 0.0    | 0.0    |
| 0-180  | 2828   | 80.3   | 100.0  |



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