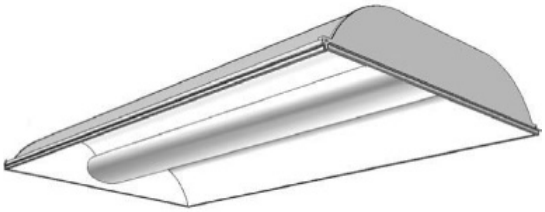
Highly efficient with balanced illumination and versatility.

H9S2GLR132 OR 232
HP90



2' X 4' DIRECT/INDIRECT RECESSED FLUORESCENT
ACRYLIC LINEAR PRISMATIC LENS
STATIC, 1 OR 2 LAMP T8

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: H9S2GLR232UNVHI

HP90	Body Style	Fixture Width	Ceiling Type	Lens Type	Reflector	Lamp Qty	Lamp/ Fixture Length	Voltage	Ballast Type	Options
H9	S	2	G	L	R		32			
Direct/ Indirect Recessed	**S** = Static	**2** = 2"	Fits Both Standard Grid and Slot Grid	**L** = Acrylic Lens	**R** = Specular Aluminum	**1** = 1 Lamp **2** = 2 Lamp	(By Others) **32** = T8 32W* (Nominal 48") *28W T8 Available	**UNV** = 120/277V **120** = 120V **277** = 277V **347** = 347V	<10THD **HI** 1 or 2 Lamp Elec. T8 Instant Start **P2** 1 or 2 Lamp Elec. T8 Program Start **V2** 1 or 2 Lamp Elec. T8 Program Step-Dim **PS** 1 or 2 Lamp Elec. T8 Program Start Dimming **NOTE:** For **T8 UNV,** You Must Use HI Ballast Code.	Add Appropriate Suffix to Catalog No., i.e., GLR

PHILIPS Day-Brite PHILIPS CFI

Features

- 85.2% efficient (2 lamp, 28W T8).
- 85.2% efficient (1 lamp, 28W T8).
- 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.
- Can be continuous row mounted.
- Wiring access plate standard.
- Optional DALI ballast iGEN TECHNOLOGY accepts digital dimming controllers, scene controllers and automatic control devices.
- Construction to meet NYC Code or Chicago Plenum available.

Specifications

Performance: In an installation of 2 lamp 32W luminaires in a room cavity ratio of 1, reflectance 80% ceiling, 50% wall, 20% floor, the C.U. shall not be less than .88. To reduce glare the average brightness at 65° shall not exceed 3317 candelas per square meter. To control veiling reflections, luminaire output in the 30°–90° zone shall not be less than 76.0%

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

Lamp Shield: Linear prismatic translucent DR acrylic lens.

Finish: Chassis Exterior—Baked white polyester enamel. Cavity—baked white polyester enamel. Rust preventative 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

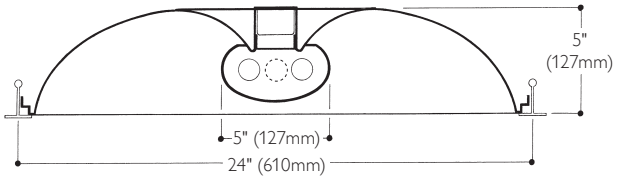
Options/Accessories

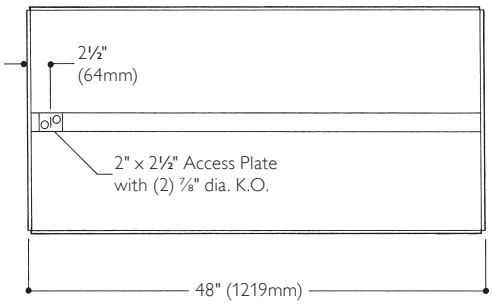
Electrical/Wiring Options: Consult your Philips Lighting representative.

Fusing: Internal fast-blow fusing. Suffix: **GLR**.
Internal slow-blow fusing: Suffix: **GMF.**

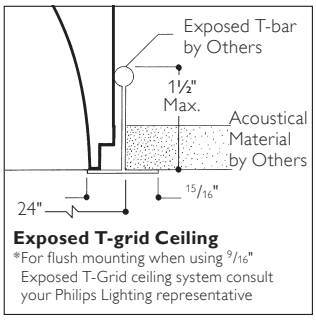
Drywall Kit: Order catalog number: **FK92X4.**

Dimensions

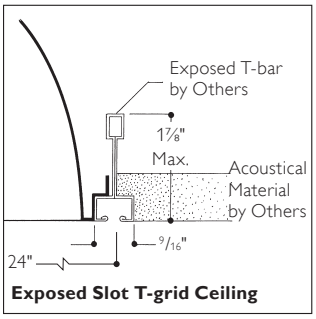




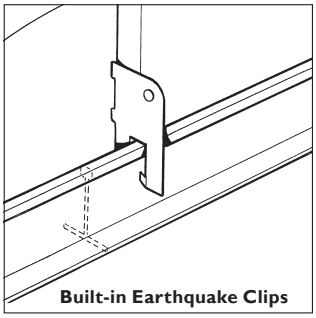
Mounting Methods



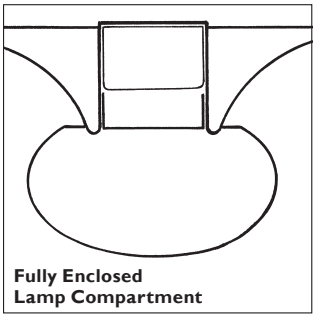
Exposed T-grid Ceiling
*For flush mounting when using 9/16" Exposed T-Grid ceiling system consult your Philips Lighting representative



Exposed Slot T-grid Ceiling



Built-in Earthquake Clips



Fully Enclosed Lamp Compartment

Performance

Model No. H9S2GLR132UNVHI

LER = FP–74.5 IW–31.2 BF–0.88
Comparative yearly lighting energy cost per 1000 lumens = $3.22

Report Number: G2010221

Catalog Number: H9S2GLR132UNVHI

Lamp: (1) F28 T8

Luminaire: HP90 2' x 4' with linear prismatic lens.

Ballast: QTP1X32T8
Report is based on 3100 lumens per lamp.

Efficiency: 85.2%

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:	47.760	23.760

Candela Distribution

Angle	0.0	45.0	90.0	FLUX
0	770	770	770	
5	765	768	771	73
15	736	753	769	213
25	680	720	755	332
35	601	665	723	416
45	499	590	669	454
55	381	497	596	442
65	257	392	514	387
75	136	280	328	266
85	38	47	35	60
90	0	0	0	

Coefficients of Utilization

Ceiling	80%			50%			30%		
Wall	70	50	30	50	30	10	50	30	10
RCR	Zonal Cavity Method— Effective Floor Cavity Reflectance = 0.20								
1	92	87	83	82	79	76	78	76	74
2	83	75	69	70	65	61	68	63	60
3	75	65	58	61	55	50	59	54	49
4	68	57	49	54	47	42	52	46	42
5	63	51	43	48	41	36	46	40	36
6	58	46	38	43	36	31	42	36	31
7	53	41	33	39	32	28	38	32	27
8	49	37	30	36	29	24	35	29	24
9	46	34	27	33	26	22	32	26	22
10	43	32	25	30	24	20	29	24	20

Room Cavity Ratio

Luminance Data in Candela/Sq. Meter

Average in Deg.	Average 0 Deg.	Average 45 Deg.	Average 90 Deg.
45	1017.	1202.	1363.
55	957.	1248.	1497.
65	876.	1336.	1752.
75	757.	1559.	1826.
85	628.	777.	579.

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixt
0–30	619	20.0	23.4
0–40	1034	33.6	39.2
0–60	1930	62.2	73.0
0–90	2642	85.2	100.0
90–180	0	0.0	0.0
0–180	2642	85.2	100.0

Model No. H9S2GLR232UNVHI

LER = FP–77.9 IW–59.7 BF–0.88
Comparative yearly lighting energy cost per 1000 lumens = $3.18

Report Number: G2010039

Catalog Number: H9S2GLR232UNVHI

Lamp: (2) F28 T8

Luminaire: HP90 2' x 4' with linear prismatic lens.

Ballast: ICN-2P32-SC
Report is based on 3100 lumens per lamp.

Efficiency: 85.2%

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:	47.760	23.270

Candela Distribution

Angle	0.0	45.0	90.0	FLUX
0	1595	1595	1595	
5	1584	1588	1594	151
15	1525	1550	1576	439
25	1409	1473	1538	681
35	1204	1356	1465	849
45	1028	1198	1343	920
55	783	1000	1172	885
65	523	772	973	754
75	267	523	604	497
85	59	90	62	107
90	0	0	0	

Coefficients of Utilization

Ceiling	80%			50%			30%		
Wall	70	50	30	50	30	10	50	30	10
RCR	Zonal Cavity Method— Effective Floor Cavity Reflectance = 0.20								
1	92	88	84	82	79	76	79	76	74
2	83	76	69	71	66	62	68	64	60
3	75	66	58	62	56	51	59	54	50
4	69	58	50	54	48	43	52	47	42
5	63	51	43	49	42	37	47	41	36
6	58	46	38	44	37	32	42	36	32
7	54	42	34	40	33	28	38	32	28
8	50	38	30	36	30	25	35	29	25
9	46	35	27	33	27	22	32	26	22
10	44	32	25	31	24	20	30	24	20

Room Cavity Ratio

Luminance Data in Candela/Sq. Meter

Average in Deg.	Average 0 Deg.	Average 45 Deg.	Average 90 Deg.
45	2095.	2441.	2736.
55	1967.	2512.	2944.
65	1783.	2632.	3317.
75	1486.	2911.	3362.
85	975.	1488.	1025.

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixt
0–30	1271	20.5	24
0–40	2120	34.2	40.1
0–60	3925	63.3	74.3
0–90	5284	85.2	100.0
90–180	0	0.0	0.0
0–180	5284	85.2	100.0

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