

Highly efficient with balanced illumination and versatility.

H9S1GLR132 OR 232
HP90



1' 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: H9S1GLR232UNVHI

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

H9S1GLR132 OR 232 HP90

Features

- 78.4% efficient (2 lamp, 28W T8).
- 77.8% 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.
- 2 earthquake clips standard.
- 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 .81. To reduce glare the average brightness at 65° shall not exceed 4709 candelas per square meter. To control veiling reflections, luminaire output in the 30°–90° zone shall not be less than 73.9%

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

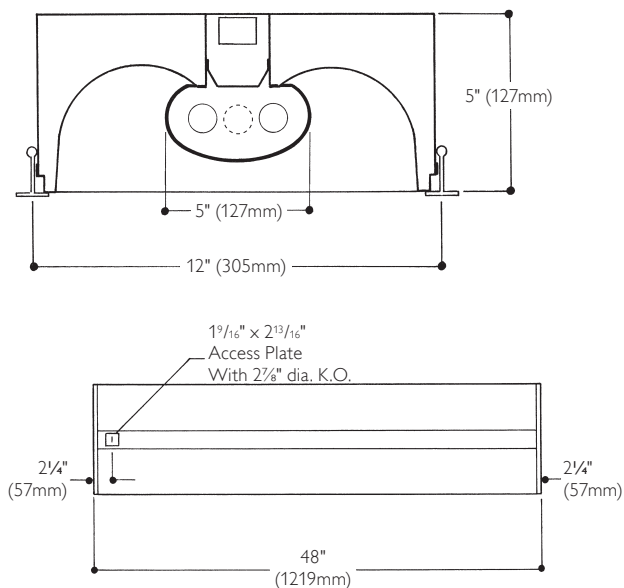
Options/Accessories

Electrical/Wiring Options: Consult your Philips Lighting representative.

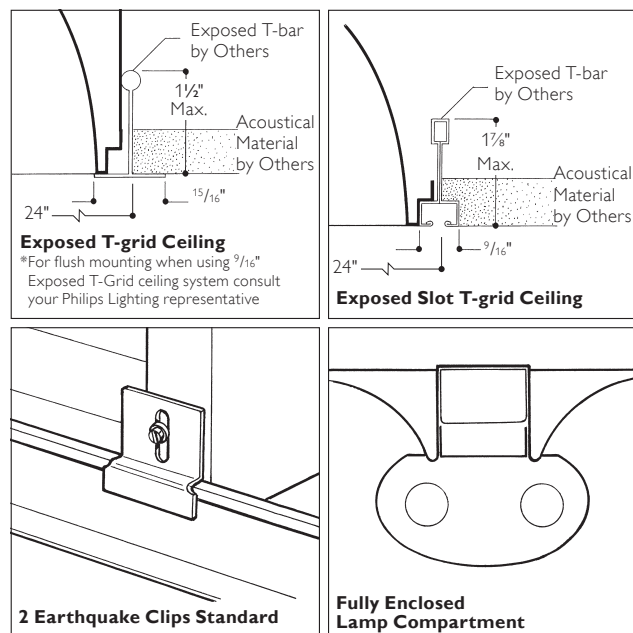
Fusing: Internal fast-blow fusing. Suffix: **GLR**. Internal slow-blow fusing. Suffix: **GMF**.

Drywall Kit: Order catalog number: **FK91X4**.

Dimensions



Mounting Methods



H9S1GLR132 OR 232 HP90

Performance

Model No. H9S1GLR132UNVHI

LER = FP-72.2 IW-29.4 BF-0.88
Comparative yearly lighting energy cost per 1000 lumens = \$3.32

Report Number: G2010170

Catalog Number: H9S1GLR132UNVHI

Lamp: (1) F32 T8

Luminaire: HP90 1' x 4' with linear prismatic lens.

Ballast: IOP-1S32-SC

Report is based on 3100 lumens per lamp.

Efficiency: 77.8%

CIE Type: Direct-Indirect

Plane: 0 Deg. 90 Deg.

Spacing Criteria: 1.2 1.5

Shielding Angles: 90 90

Plane: 0 Deg. 90 Deg.

Luminous Length: 47.040 11.040

Candela Distribution

Angle	0.0	45.0	90.0	FLUX
0	740	740	740	
5	731	739	745	70
15	704	728	749	206
25	651	701	746	323
35	573	654	721	409
45	475	589	679	450
55	361	504	563	430
65	240	355	339	320
75	123	167	141	165
85	27	35	35	39
90	0	0	0	

Luminance Data in Candela/Sq. Meter

Average in Deg.	Average 0 Deg.	Average 45 Deg.	Average 90 Deg.
45	2004.	2485.	2896.
55	1878.	2622.	2929.
65	1694.	2506.	2393.
75	1418.	1925.	1625.
85	924.	1198.	1198.

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									
Room Cavity Ratio	1	85	81	77	76	73	71	73	71	69
	2	77	70	65	66	62	58	63	60	57
	3	70	61	55	58	52	48	55	51	47
	4	64	54	47	51	45	41	49	4	40
	5	58	48	41	45	39	35	44	39	35
	6	54	43	36	41	35	30	39	34	30
	7	50	39	32	37	31	27	36	30	26
	8	46	35	29	34	28	24	33	27	24
	9	43	32	26	31	26	21	30	25	21
	10	40	30	23	29	23	19	28	23	19

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixt
0-30	600	19.3	24.9
0-40	1008	32.5	41.8
0-60	1889	60.9	78.3
0-90	2413	77.8	100.0
90-180	0	0.0	0.0
0-180	2413	77.8	100.0

Model No. H9S1GLR232UNVHI

LER = FP-72.0 IW-59.4 BF-0.88
Comparative yearly lighting energy cost per 1000 lumens = \$3.33

Report Number: G2010210

Catalog Number: H9S1GLR232UNVHI

Lamp: (2) F32 T8

Luminaire: HP90 1' x 4' with linear prismatic lens.

Ballast: ICN-2P32-SC

Report is based on 2725 lumens per lamp.

Efficiency: 78.8%

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: 47.040 11.040

Candela Distribution

Angle	0.0	45.0	90.0	FLUX
0	1603	1603	1603	
5	1587	1596	1608	152
15	1526	1552	1580	439
25	1408	1463	1519	676
35	1239	1332	1417	834
45	1028	1156	1265	889
55	787	948	1022	824
65	532	659	667	624
75	278	337	309	340
85	64	71	70	82
90	0	0	0	

Luminance Data in Candela/Sq. Meter

Average in Deg.	Average 0 Deg.	Average 45 Deg.	Average 90 Deg.
45	4338.	4878.	5338.
55	4094.	4931.	5316.
65	3756.	4652.	4709.
75	3205.	3885.	3562.
85	2191.	2431.	2396.

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									
Room Cavity Ratio	1	85	81	78	76	74	71	73	71	69
	2	77	71	65	66	62	59	64	60	57
	3	70	62	55	58	53	49	56	52	48
	4	64	55	48	52	46	41	50	45	41
	5	59	49	42	46	40	36	45	39	35
	6	54	44	37	42	36	31	40	35	31
	7	50	40	33	38	32	27	37	31	27
	8	47	36	29	34	29	24	34	28	24
	9	44	33	27	32	26	22	31	26	22
	10	41	30	24	29	24	20	29	23	20

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixt
0-30	1267	20.4	26.1
0-40	2101	33.9	43.2
0-60	3814	61.5	78.5
0-90	4861	78.4	100.0
90-180	0	0.0	0.0
0-180	4861	78.4	100.0



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