

Highly efficient with balanced illumination and versatility.

H9S2GLR117 OR 217
HP90



2' X 2' 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: H9S2GLR217UNVHI

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	(By Others) 1 = 1 Lamp 2 = 2 Lamp	(By Others) 17 = T8 17W (Nominal 24")	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

H9S2GLR117 OR 217 HP90

Features

- 80.3% efficient (2 lamp, 17W T8).
- 82.5% efficient (1 lamp, 17W 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.*
- 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.
- Construction to meet NYC Code or Chicago Plenum available.

Specifications

Performance: In an installation of 2 lamp 17W luminaires in a room cavity ratio of 1, reflectance 80% ceiling, 50% wall, 20% floor, the C.U. shall not be less than .83. To reduce glare the average brightness at 65° shall not exceed 2849 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 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

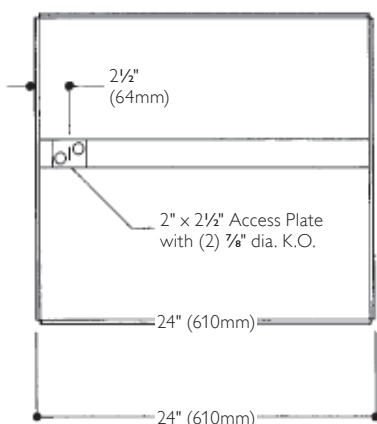
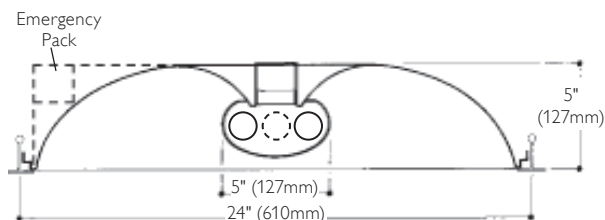
Options/Accessories

Electrical/Wiring Options: Consult your Philips Lighting representative.

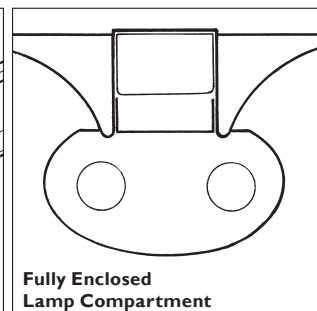
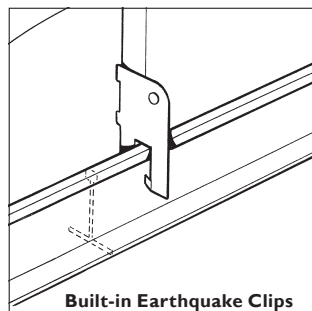
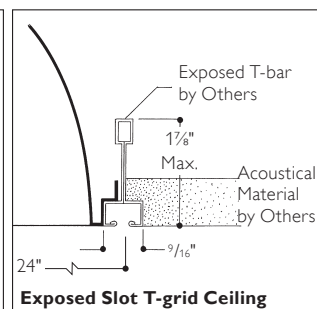
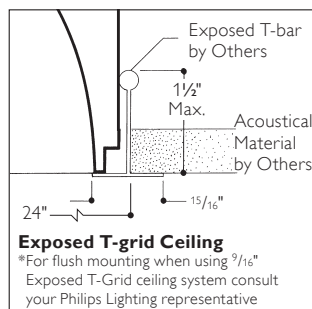
Fusing: Internal fast-blow fusing. Suffix: **GLR**.
Internal slow-blow fusing: Suffix: **GMF**.

Drywall Kit: Order catalog no.: **FK92X2**.

Dimensions



Mounting Methods



*If emergency pack or second ballast is used, access is gained through the adjacent ceiling tile.

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Performance

Model No. H9S2GLR117UNVHI

LER = FP-60.9 IW-16.7 BF-0.88
Comparative yearly lighting energy cost per
1000 lumens = \$3.94

Report Number: G2010176

Catalog Number: H9S2GLR117UNVHI

Lamp: (1) F17 T8

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

Ballast: QTP1X32T8UNV ISN-SC

Report is based on 1400 lumens per lamp.

Efficiency: 82.5%

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	335	335	335	
5	334	335	336	32
15	321	328	334	93
25	297	313	327	144
35	262	289	313	181
45	218	276	291	197
55	167	215	260	192
65	114	169	225	168
75	64	117	152	117
85	22	25	21	30
90	0	0	0	

Luminance Data in Candela/Sq. Meter

Average in Deg.	Average 0 Deg.	Average 45 Deg.	Average 90 Deg.
45	900.	1057.	1201.
55	850.	1094.	1323.
65	787.	1167.	1554.
75	722.	1319.	1714.
85	737.	837.	703.

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	89	84	80	79	76	73	76	73	71
	2	80	72	66	68	63	59	65	61	58
	3	72	63	56	59	53	49	57	52	48
	4	66	55	48	52	46	41	50	45	40
	5	60	49	41	46	40	35	45	39	34
	6	56	44	36	42	35	30	40	34	30
	7	51	40	32	38	31	27	37	31	26
	8	48	36	29	34	28	24	33	28	23
	9	45	33	26	32	25	21	31	25	21
	10	42	30	24	29	23	19	28	23	19

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixt
0-30	269	19.2	23.3
0-40	450	32.1	39.0
0-60	839	59.9	72.7
0-90	1155	82.5	100.0
90-180	0	0.0	0.0
0-180	1155	82.5	100.0

Model No. H9S2GLR217UNVHI

LER = FP-64.7 IW-30.6 BF-0.88
Comparative yearly lighting energy cost per
1000 lumens = \$3.71

Report Number: G2010106

Catalog Number: H9S2GLR217UNVHI

Lamp: (2) F17 T8

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

Ballast: ICN-2P32-SC

Report is based on 1400 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	700	700	700	
5	697	698	701	67
15	669	681	691	192
25	617	643	668	297
35	540	587	629	367
45	446	512	568	394
55	337	420	492	374
65	224	318	404	314
75	115	204	249	202
85	26	35	26	43
90	0	0	0	

Luminance Data in Candela/Sq. Meter

Average in Deg.	Average 0 Deg.	Average 45 Deg.	Average 90 Deg.
45	1880.	2158.	2394.
55	1751.	2183.	2557.
65	1580.	2243.	2849.
75	1324.	2349.	2868.
85	889.	1197.	889.

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	87	83	79	78	75	72	74	72	70
	2	79	72	66	67	63	59	64	61	57
	3	71	62	55	59	53	49	56	52	48
	4	65	55	48	52	46	41	50	45	40
	5	60	49	41	46	40	35	45	39	35
	6	55	44	36	42	35	31	40	35	30
	7	51	40	32	38	31	27	37	31	27
	8	47	36	29	34	28	24	33	28	24
	9	44	33	26	32	26	22	31	25	21
	10	41	30	24	29	23	19	28	23	19

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixt
0-30	556	19.9	24.7
0-40	923	33.0	41.0
0-60	1691	60.4	75.2
0-90	2249	80.3	100.0
90-180	0	0.0	0.0
0-180	2249	80.3	100.0



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