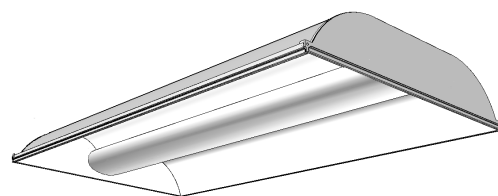


Highly efficient with balanced illumination and versatility.

H9S2GLR128 OR 228
HP90



2' X 4' DIRECT/INDIRECT RECESSED FLUORESCENT
ACRYLIC LINEAR PRISMATIC LENS
STATIC, 1 OR 2 LAMP T5

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: H9S2GLR128UNVHI

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		28			
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) 28 = T5 28W (Nominal 48")	UNV = 120/277V 120 = 120V 277 = 277V 347 = 347V	<10THD PG 1 or 2 Lamp Elec. T5 Program Start VY 1 or 2 Lamp Elec. T5 Program Start Step-Dim WA 1 or 2 Lamp Elec. T5 Instant Start (120V or 277V Only) PF 1 or 2 Lamp Elec. T5 LOL Dimming NOTE: 347V. Emergency in T5/T5HO Not Available. Please Consult Your Philips Lighting Representative for 120V and 277V.	Add Appropriate Suffix to Catalog No.

H9S2GLR128 OR 228 HP90

Features

- Can provide 54.6 maintained footcandles of balanced brightness illumination at only .68 watts per square foot.
- 87.2% efficient (1 lamp, 28W T5).
- 90.4% efficient (2 lamp, 28W T5).
- 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.

Specifications

Performance: In an installation of 2 lamp 28W luminaires in a room cavity ratio of 1, reflectance 80% ceiling, 50% wall, 20% floor, the C.U. shall not be less than .94. To reduce glare the average brightness at 65° shall not exceed 2574 candelas per square meter. To control veiling reflections, luminaire output in the 30°–90° zone shall not be less than 73.8%

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

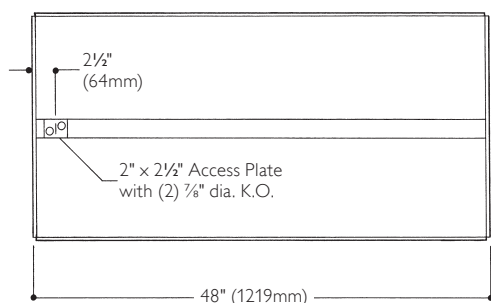
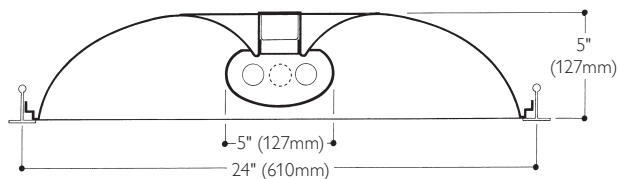
Options/Accessories

Electrical/Wiring Options: Consult your Philips Lighting representative.

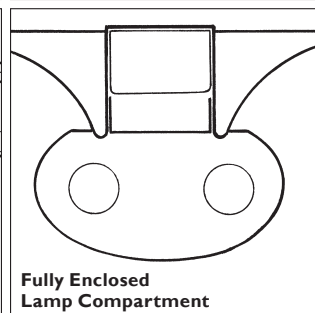
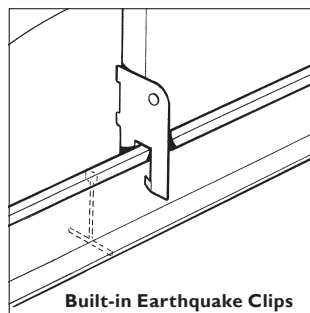
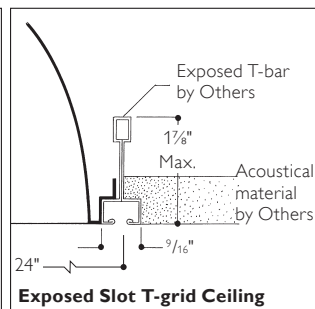
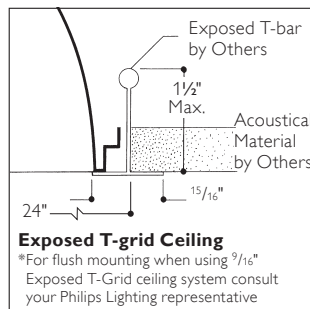
Fusing: Internal fast-blow fusing. Suffix: **F**.

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

Dimensions



Mounting Methods



H9S2GLR128 OR 228 HP90

Performance

Model No. H9S2GLR128UNVPG

LER = FP-75.8 IW-31.55 BF-1.0
Comparative yearly lighting energy cost per 1000 lumens = \$3.16

Report Number: G2006156

Catalog Number: H9S2GLR128UNVPG

Lamp: (1) F28 T5

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

Ballast: QTP 2X28 T5/UNV-PSN

Report is based on 2610 lumens per lamp.

Efficiency: 87.2%

CIE Type: Direct-Indirect

Plane: 0 Deg. 90 Deg.

Spacing Criteria: 1.3 1.2

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	833	833	833	
5	825	832	840	80
15	801	817	825	230
25	752	754	746	346
35	677	638	625	403
45	562	502	509	397
55	399	367	403	341
65	227	253	334	266
75	97	174	241	179
85	19	29	27	36
90	2	2	2	

Luminance Data in Candela/Sq. Meter

Average in Deg.	Average 0 Deg.	Average 45 Deg.	Average 90 Deg.
45	1143.	1020.	1035.
55	1000.	919.	1009.
65	772.	859.	1137.
75	538.	965.	1340.
85	313.	486.	439.

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	95	91	87	85	82	80	82	79	77
	2	86	79	73	74	70	66	71	68	64
	3	79	70	62	66	60	55	63	58	54
	4	72	62	54	58	52	47	56	51	47
	5	66	55	47	52	46	41	51	45	41
	6	61	50	42	47	41	36	46	40	36
	7	57	45	38	43	37	32	42	36	32
	8	53	41	34	40	33	29	39	33	28
	9	50	38	31	36	30	26	36	30	26
	10	47	35	28	34	28	24	33	27	23

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixt
0-30	690	25.1	28.8
0-40	1115	40.5	46.5
0-60	1892	68.8	78.9
0-90	2398	87.2	100.0
90-180	0	0.0	0.0
0-180	2398	87.2	100.0

Model No. H9S2GLR228120WA

LER = FP-84.3 IW-54.6 BF-0.93
Comparative yearly lighting energy cost per 1000 lumens = \$2.85

Report Number: G2006010

Catalog Number: H9S2GLR228120WA

Lamp: (1) F28 T5

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

Ballast: VVA

Report is based on 2610 lumens per lamp.

Efficiency: 90.4%

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: 46.800 22.800

Candela Distribution

Angle	0.0	45.0	90.0	FLUX
0	1481	1481	1481	
5	1471	1474	1478	140
15	1421	1429	1446	404
25	1298	1344	1398	620
35	1131	1219	1301	763
45	921	1061	1175	814
55	673	872	1006	767
65	412	659	803	629
75	191	424	490	394
85	40	63	41	77
90	3	3	3	

Luminance Data in Candela/Sq. Meter

Average in Deg.	Average 0 Deg.	Average 45 Deg.	Average 90 Deg.
45	2152.	2401.	2468.
55	1970.	2256.	2382.
65	1739.	2206.	2574.
75	1403.	2396.	2682.
85	850.	1200.	1000.

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	98	94	90	88	85	82	84	82	79
	2	89	81	75	76	71	67	73	69	66
	3	81	71	63	67	61	56	64	59	55
	4	74	63	55	59	53	47	57	51	47
	5	68	56	48	53	46	41	51	45	40
	6	63	50	42	48	41	36	46	40	35
	7	58	46	38	43	37	3			