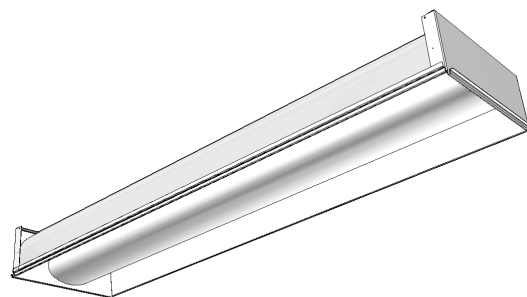


Highly efficient with balanced illumination and versatility.

H9S1GLR128 OR 228
HP90



1' 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: H9S1GLR228UNVPG

HP90	Body Style	Fixture Width	Ceiling Type	Lens Type	Reflector	Lamp Qty	Lamp/ Fixture Length	Voltage	Ballast Type	Options
H9	S	1	G	L	R		32			
Direct/ Indirect Recessed	S = Static	1 = 1'	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.

H9S1GLR128 OR 228 HP90

Features

- 88.9% efficient (2 lamp, 28W T5).
- 86.9% efficient (1 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.
- 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.

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 .93. To reduce glare the average brightness at 65° shall not exceed 3851 candelas per square meter. To control veiling reflections, luminaire output in the 30°–90° zone shall not be less than 72.1%

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

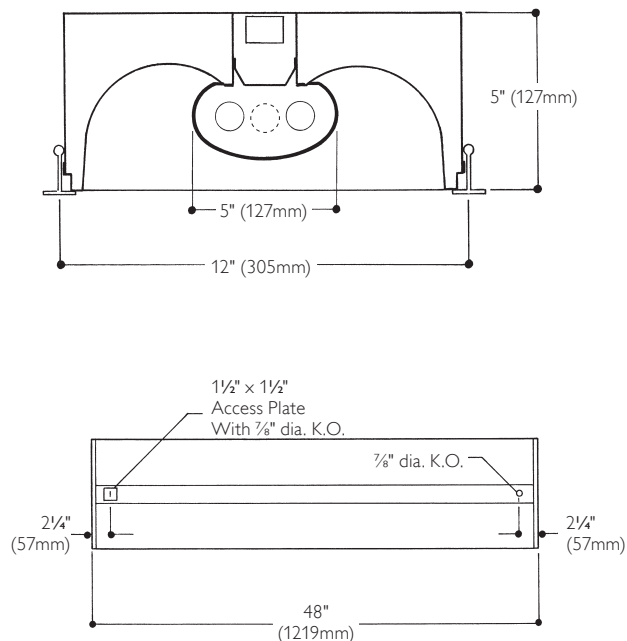
Options/Accessories

Electrical/Wiring Options: Consult your Philips Lighting representative.

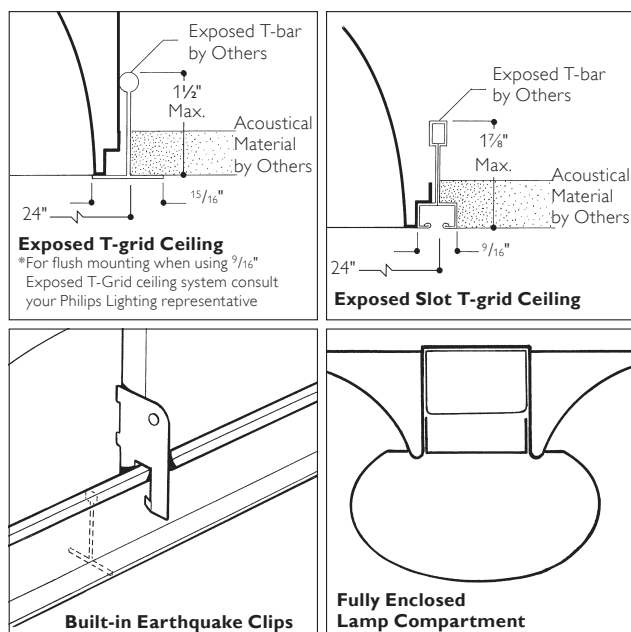
Fusing: Internal fast-blow fusing. Suffix: F.

Drywall Kit: Order catalog no.: **FK91X4**.

Dimensions



Mounting Methods



H9S1GLR128 OR 228 HP90

Performance

Model No. H9S1GLR128UNVPG

LER = FP-72.1 IW-32.6 BF-1.04
Comparative yearly lighting energy cost per 1000 lumens = \$3.33

Report Number: G2010229

Catalog Number: H9S1GLR128UNVPG

Lamp: (1) F28 T5

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

Ballast: ICN-2S28

Report is based on 2600 lumens per lamp.

Efficiency: 86.9%

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	717	717	717	
5	709	716	721	68
15	683	702	721	199
25	630	671	707	309
35	554	617	667	385
45	459	541	599	413
55	350	450	490	387
65	236	323	322	297
75	124	164	140	160
85	30	36	36	41
90	0	0	0	

Luminance Data in Candela/Sq. Meter

Average in Deg.	Average 0 Deg.	Average 45 Deg.	Average 90 Deg.
45	1963.	2314.	2562.
55	1845.	2373.	2583.
65	1689.	2311.	2304.
75	1449.	1916.	1636.
85	1041.	1249.	1249.

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	94	90	86	84	82	79	81	79	77
	2	86	78	72	73	69	65	71	67	63
	3	78	68	61	64	59	54	62	57	53
	4	71	60	53	57	51	46	55	49	45
	5	65	54	46	51	44	39	49	43	39
	6	60	48	40	46	39	34	44	38	34
	7	56	44	36	42	35	30	40	34	30
	8	52	40	32	38	31	27	37	31	27
	9	48	36	29	35	28	24	34	28	24
	10	45	33	27	32	26	22	31	26	22

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixt
0-30	576	22.2	25.5
0-40	961	37	42.5
0-60	1761	67.7	77.9
0-90	2260	86.9	100
90-180	0	0.0	0.0
0-180	2260	86.9	100.0

Model No. H9S1GLR228UNVPG

LER = FP-77.2 IW-63.31 BF-1.0
Comparative yearly lighting energy cost per 1000 lumens = \$3.11

Report Number: G2006140

Catalog Number: H9S1GLR228UNVPG

Lamp: (1) F28 T5

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

Ballast: QTP2X28T5/UNV

Report is based on 2750 lumens per lamp.

Efficiency: 88.9%

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	1661	1661	1661	
5	1643	1659	1678	158
15	1581	1654	1725	468
25	1466	1621	1692	737
35	1303	1470	1512	902
45	1088	1217	1236	922
55	823	913	889	793
65	537	590	558	569
75	256	283	250	291
85	38	42	38	50
90	0	0	0	

Luminance Data in Candela/Sq. Meter

Average in Deg.	Average 0 Deg.	Average 45 Deg.	Average 90 Deg.
45	4245.	4748.	4822.
55	3958.	4391.	4276.
65	3505.	3851.	3542.
75	2729.	3046.	2665.
85	1203.	1329.	1203.

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	97	93	89	87	85	82	84	82	80
	2	89	81	75	77	72	68	74	70	67
	3	81	72	64	68	62	57	65	60	56
	4	74	63	56	60	54	49	58	53	48
	5	68	57	49	54	47	42	52	46	42
	6	63	51	43	49	42	37	47	41	37
	7	58	46	38	44	37	33	43	37	32
	8	54	42	35	40	34	29	39	33	29
	9	51	39	31	37	31	26	36	30	26
	10	47	36	29	34	28	24	33	28	24

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixt
0-30	1364	24.8	27.9
0-40	2266	41.2	46.3
0-60	3981	72.4	81.4
0-90	4891	88.9	100.0
90-180	0	0	0.0
0-180	4891	88.9	100.0



© 2013 Koninklijke Philips N.V. All rights reserved.
Specifications are subject to change without notice.
www.philips.com/luminaires

Philips Lighting Company
200 Franklin Square Drive
Somerset, NJ 08873
Phone: 855-486-2216

Philips Lighting Company
281 Hillmount Road
Markham ON, Canada L6C 2S3
Phone: 800-668-9008