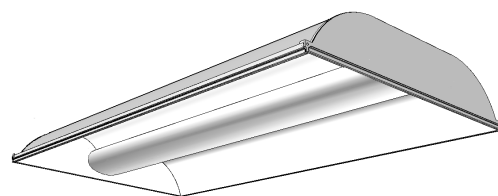


Highly efficient with balanced illumination and versatility.

H9S2GLR154 OR 254
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: H9S2GLR254UNVPG

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		54			
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) 54 = T5 54W (Nominal 48")	UNV = 120/277V 120 = 120V 277 = 277V 347 = 347V	<10THD PG 1 or 2 Lamp Elec. T5HO Program Start PF 1 or 2 Lamp Elec. T5HO 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.

H9S2GLR154 OR 254 HP90

Features

- 89.7% efficient (1 lamp, 54W T5).
- 84.6% efficient (2 lamp, 54W 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.
- 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.

Specifications

Performance: In an installation of 2 lamp 54W 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 3776 candelas per square meter. To control veiling reflections, luminaire output in the 30°–90° zone shall not be less than 74.1%

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

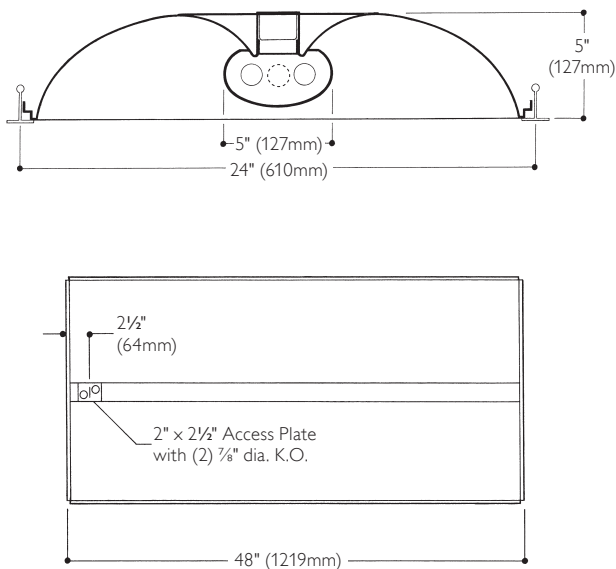
Options/Accessories

Electrical/Wiring Options: Consult your Philips Lighting representative.

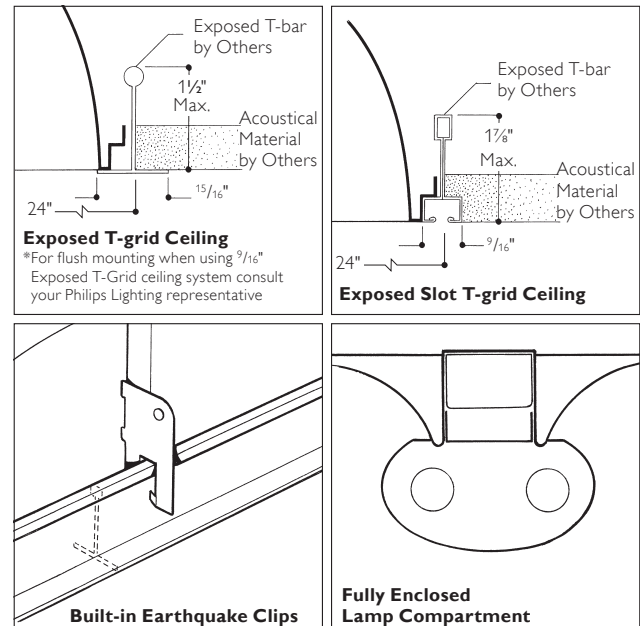
Fusing: Internal fast-blow fusing. Suffix: **F**.

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

Dimensions



Mounting Methods



H9S2GLR154 OR 254 HP90

Performance

Model No. H9S2GLR154UNVPG

LER = FP-66.5 IW-61.9 BF-1.02
Comparative yearly lighting energy cost per 1000 lumens = \$3.61

Report Number: G2010216

Catalog Number: H9S2GLR154UNVPG

Lamp: (1) F54 T5HO

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

Ballast: ICN-2S54

Report is based on 4500 lumens per lamp.

Efficiency: 89.7%

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	1234	1235	1235	
5	1226	1231	1237	117
15	1179	1208	1233	342
25	1088	1151	1202	530
35	957	1051	1121	655
45	791	913	998	698
55	601	750	852	661
65	402	576	713	564
75	207	402	474	384
85	49	68	44	85
90	0	0	0	

Luminance Data in Candela/Sq. Meter

Average in Deg.	Average 0 Deg.	Average 45 Deg.	Average 90 Deg.
45	1612.	1860.	2034.
55	1510.	1884.	2140.
65	1371.	1964.	2431.
75	1152.	2238.	2639.
85	810.	1124.	727.

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	92	92	88	86	83	80	83	80	78
	2	87	80	73	75	69	65	72	67	64
	3	79	69	62	65	59	54	63	57	53
	4	72	61	53	57	51	45	55	49	45
	5	66	54	46	51	44	39	49	43	38
	6	61	49	40	46	39	34	45	38	34
	7	57	44	36	42	35	30	41	34	30
	8	53	40	33	38	31	27	37	31	26
	9	49	37	29	35	28	24	34	28	24
	10	46	34	27	32	26	22	32	26	21

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixt
0-30	989	22.0	24.5
0-40	1644	36.5	40.7
0-60	3002	66.7	74.4
0-90	4036	89.7	100.0
90-180	0	0.0	0.0
0-180	4036	89.7	100.0

Model No. H9S2GLR254UNVPG

LER = FP-66.5 IW-112.39 BF-1.0
Comparative yearly lighting energy cost per 1000 lumens = \$3.61

Report Number: G2006118

Catalog Number: H9S2GLR254UNVPG

Lamp: (2) F54 T5HO

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

Ballast: B254UNV-E

Report is based on 4400 lumens per lamp.

Efficiency: 84.6%

CIE Type: Direct-Indirect

Plane: 0 Deg. 90 Deg.

Spacing Criteria: 1.3 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	2340	2340	2340	
5	2320	2339	2354	223
15	2228	2326	2406	658
25	2079	2280	2417	1044
35	1851	2134	2220	1303
45	1548	1790	1827	1348
55	1173	1345	1428	1197
65	771	963	1099	950
75	383	625	665	597
85	75	95	60	125
90	0	0	0	

Luminance Data in Candela/Sq. Meter

Average in Deg.	Average 0 Deg.	Average 45 Deg.	Average 90 Deg.
45	3179.	3676.	3752.
55	2970.	3405.	3615.
65	2649.	3309.	3776.
75	2149.	3507.	3731.
85	1250.	1583.	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	92	88	84	82	79	77	79	77	74
	2	83	76	70	71	67	63	69	65	61
	3	76	67	59	63	57	52	60	56	51
	4	69	59	51	56	49	44	54	48	44
	5	64	52	45	50	43	38	48	42	38
	6	59	47	39	45	38	33	43	37	33
	7	54	43	35	41	34	29	39	34	29
	8	50	39	32	37	31	26	36	30	26
	9	47	36	29	34	28	24	33	27	23
	10	44	33	26	31	25	21	31	25	21

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixt
0-30	1926	21.9	25.9
0-40	3229	36.7	43.4
0-60	5774	65.6	77.5
0-90	7446	84.6	100.0
90-180	0	0.0	0.0
0-180	7446	84.6	100.0



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www.philips.com/luminaires

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