

Highly efficient with balanced illumination and versatility.

H9S1GLR154 OR 254
HP90



1' X 4' DIRECT/INDIRECT RECESSED FLUORESCENT
ACRYLIC LINEAR PRISMATIC LENS
STATIC, 1 OR 2 LAMP T5HO

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: H9S1GLR154UNVPG

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		54			
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) 54 = T5HO 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.

H9S1GLR154 OR 254 HP90

Features

- 77.9% efficient (2 lamp, 54W T5).
- 86.5% efficient (1 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.
- 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 54W luminaires in a room cavity ratio of 1, reflectance 80% ceiling, 50% wall, 20% floor, the C.U. shall not be less than .82. To reduce glare the average brightness at 65° shall not exceed 5556 candelas per square meter. To control veiling reflections, luminaire output in the 30°–90° zone shall not be less than 70.8%

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

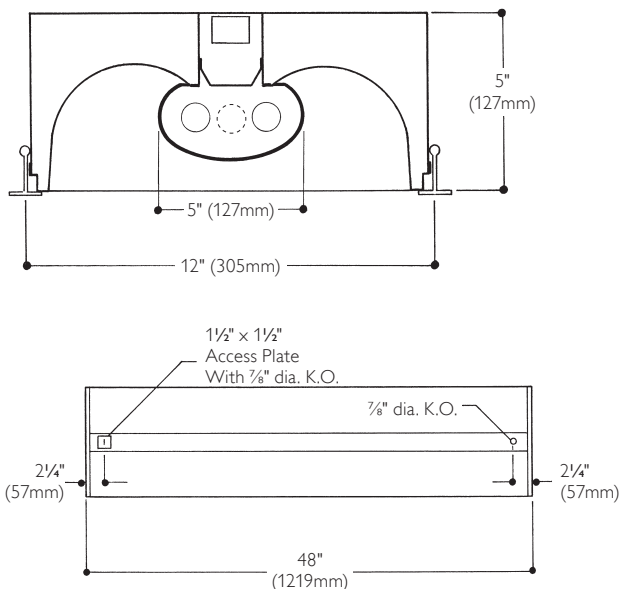
Options/Accessories

Electrical/Wiring Options: Consult your Philips Lighting representative.

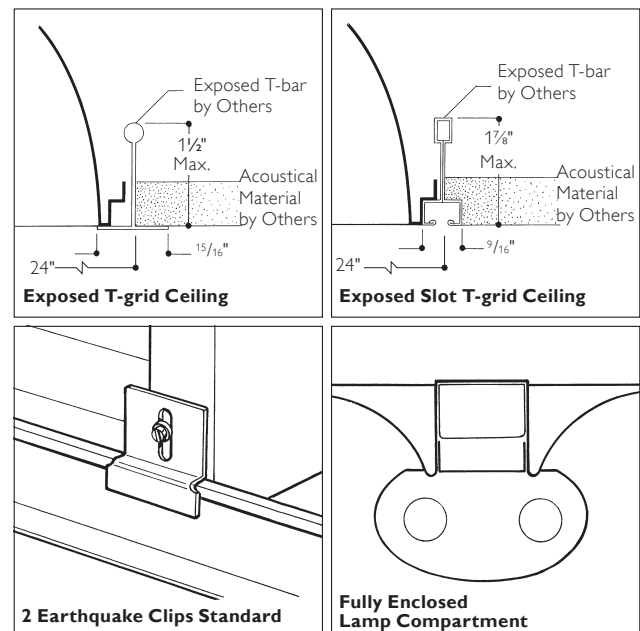
Fusing: Internal fast-blow fusing. Suffix: **F**.

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

Dimensions



Mounting Methods



H9S1GLR154 OR 254 HP90

Performance

Model No. H9S1GLR154UNVPG

LER = FP-61.4 IW-64.7 BF-1.02
Comparative yearly lighting energy cost per 1000 lumens = \$3.91

Report Number: G2010213

Catalog Number: H9S1GLR154UNVPG

Lamp: (1) F54 T5HO

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

Ballast: ICN-2554

Report is based on 4500 lumens per lamp.

Efficiency: 86.5%

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: 47.040 11.040

Candela Distribution

Angle	0.0	45.0	90.0	FLUX
0	1234	1234	1234	
5	1222	1231	1241	117
15	1176	1209	1242	342
25	1086	1157	1221	534
35	956	1066	1158	666
45	791	937	1041	715
55	603	778	847	670
65	405	558	550	512
75	209	276	234	217
85	46	56	55	64
90	0	0	0	

Luminance Data in Candela/Sq. Meter

Average in Deg.	Average 0 Deg.	Average 45 Deg.	Average 90 Deg.
45	338.	3954.	4392.
55	3137.	4047.	4406.
65	2859.	3939.	3883.
75	2409.	3182.	2697.
85	1575.	1917.	1883.

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	81	79	81	78	76
	2	85	78	72	73	69	65	70	66	63
	3	77	68	61	64	58	54	62	57	53
	4	71	60	52	57	50	45	55	49	45
	5	65	54	46	51	44	39	49	43	39
	6	60	48	40	46	39	34	44	38	34
	7	55	43	36	41	35	30	40	34	30
	8	51	40	32	38	31	27	37	31	26
	9	48	36	29	35	28	24	34	28	24
	10	45	33	26	32	26	22	31	26	22

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixt
0-30	994	22.1	25.5
0-40	1659	36.9	42.6
0-60	3045	67.7	78.2
0-90	3892	86.5	100.0
90-180	0	0.0	0.0
0-180	3892	86.5	100.0

Model No. H9S1GLR254UNVPG

LER = FP-62.9 IW-109.0 BF-1.0
Comparative yearly lighting energy cost per 1000 lumens = \$3.82

Report Number: G2006165

Catalog Number: H9S1GLR254UNVPG

Lamp: (2) F28 T5 HO

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

Ballast: B254I UNV-E

Report is based on 4400 lumens per lamp.

Efficiency: 77.9%

CIE Type: Direct-Indirect

Plane: 0 Deg. 90 Deg.

Spacing Criteria: 1.2 1.3

Shielding Angles: 90 90

Plane: 0 Deg. 90 Deg.

Luminous Length: 46.800 10.800

Candela Distribution

Angle	0.0	45.0	90.0	FLUX
0	2472	2472	2472	
5	2443	2467	2491	236
15	2358	2452	2533	693
25	2189	2362	2406	1073
35	1936	2082	2071	1282
45	1601	1662	1641	1272
55	1180	1203	1188	1071
65	716	746	766	748
75	324	375	377	394
85	63	78	74	90
90	15	15	15	

Luminance Data in Candela/Sq. Meter

Average in Deg.	Average 0 Deg.	Average 45 Deg.	Average 90 Deg.
45	6941.	7205.	7114.
55	6307.	6430.	6349.
65	5194.	5411.	5556.
75	3838.	4442.	4465.
85	2216.	2743.	2603.

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	82	78	77	74	72	74	72	70
	2	78	72	66	67	63	60	65	62	59
	3	71	63	57	60	55	51	57	53	50
	4	65	56	49	53	48	43	51	47	43
	5	60	50	43	48	42	38	46	41	37
	6	55	45	38	43	37	33	42	37	33
	7	51	41	34	39	34	29	38	33	29
	8	48	38	31	36	30	26	35	30	26
	9	45	34	28	33	28	24	32	27	24
	10	42	32	26	31	25	21	30	25	21

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixt
0-30	2002	22.7	29.2
0-40	3283	37.3	47.9
0-60	5626	63.9	82.0
0-90	6858	77.9	100.0
90-180	0	0.0	0.0
0-180	6858	77.9	100.0



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