

VDT control with balanced illumination for visual comfort.

VRA1G12LW232
VISION SMART



1' X 4' RECESSED FLUORESCENT
3" DEEP, 12 CELL (1 ROW) PARABOLIC LOUVER
STATIC OR AIR SUPPLY/RETURN
1 LAMP T8 OR T5
IES RP-1 FOR NORMAL VDT USE

Vision Smart Parabolics meet the Preferred and Basic Criteria of IES RP-1 and RP-24. This luminaire delivers low to medium light levels with the best performance in terms of efficiency, wide spacing and excellent glare control.

Project: _____
Location: _____
Catalog No: _____
Fixture Type: _____
Mfg: _____ Lamps: _____ Qty: _____
Notes: _____

Ordering Guide

Explanation of Catalog Number Example: VRA1G12LW232120SO

Family	Body Style	Fixture Width	Ceiling Type	Number of Cells	Louver Finish*	Reflector	Lamp Quantity	Lamp Length	Voltage	Ballast Type		Options
VR		1		12		W	2					
3" Deep Pre-Anodized Aluminum Louver for Normal VDT Use	A = Air Handling S = Static	1 = 1'	G = Grid (Lay-in T-Bar) T = Slot Grid or Two-Directional Concealed T (See Options)	12 = 1 Row of 12 Cells	L = Low Iridescence Semi-Specular (Standard) P = Low Iridescence Specular	W = Single White Reflector	2 = 2 Lamps	28 = T5 32 = T8 54 = T5HO (Nominal 48")	UNV = 120/277V 120 = 120V 277 = 277V 347 = 347V	2 Lamp Elec. T5/T5HO Program Start 2 Lamp Elec. T5 Program Start Step-Dim (28W Only) 2 Lamp Elec. T5 Instant Start (28W Only, 0.93 Ballast Factor) 120V or 277V Only 2 Lamp Elec. T5/T5HO LOL Dimming 2 Lamp Elec. T8 Instant Start 2 Lamp Elec. T8 Program Start 2 Lamp Elec. T8 Program Step-Dim 2 Lamp Elec. T8 Dimming	<10THD PG VY WA PF HI P2 V2 PS	Add Appropriate Suffix to Catalog Number

VRA1G12LW232

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Features

- Meets IES RP-1 luminance criteria, for lighting VDT areas with normal use.
- Efficiency 61.3% (2 Lamp T8) semi-specular.
- Efficiency 64.1% (2 Lamp T8) specular louver.
- 1.6 spacing mounting ratio.
- Semi-specular low iridescence pre-anodized louver.
- Vertical grain on louver eliminates reflected lamp images on cross baffle.
- Louver frame with positive light stop.
- Spring loaded latches (self centering).
- Reversible louver hinging.
- Louver has protective dust guard.
- Only 5½" deep body.
- Black housing exterior for cooler ballast operating temperature.
- Turned-in edges for safe handling.
- Built in earthquake clip.
- UL-Listed twin knockout access plate.
- Air closure strips (optional).

Specifications

Air Handling: (VRA only) Side air passages for air supply or air return. Optional side closure strips. Air return is also provided through the lamp compartment through fixture body ends.

Materials: Chassis parts are die-formed embossed cold rolled steel. Housing is embossed for rigidity with all edges turned-in for safe handling.

Louver: Post-anodized aluminum.

Finish: Louver—semi-specular low iridescence pre-anodized reflector sheet. Cavity—white baked polyester, minimum reflectance 86%. Phosphate undercoating. Chasis exterior—black baked polyester enamel.

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°.

Labels: Listed by I.B.E.W./UL and C-UL.

This product may have a mercury containing lamp. Manage in accord with Disposal Laws. See: www.lamprecycle.org

Options/Accessories

Access Plate: Top wiring access plate is shipped with fixture as standard.

Electrical Wiring Options: Consult your Philips Lighting representative.

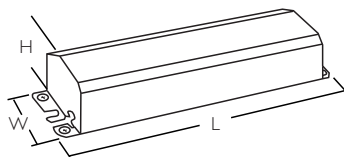
Fusing: Internal fast-blow fusing. Suffix: **A**.

Radio Interference Filter: To order one RIF per fixture: Suffix: **R**.

Air Closure Strips: (Factory installed) Suffix: **ACS4**.

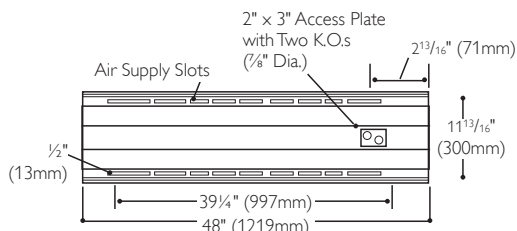
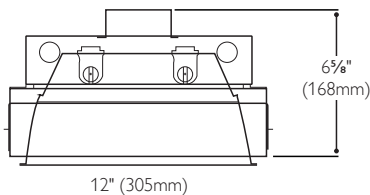
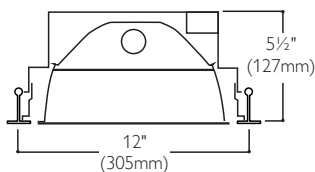
Drywall Kit: Order catalog number: **FK91X4**.

Dimensions

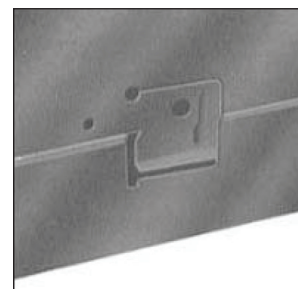
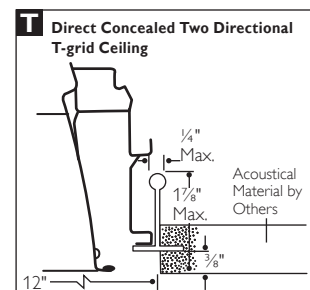
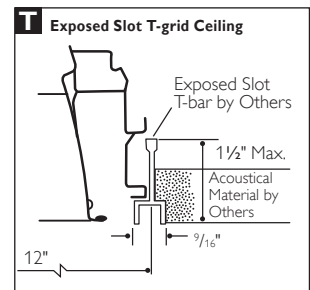
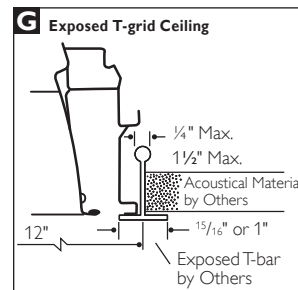


Length (L)	Width (W)	Height (H)
9½"	2⅜"	1½"
241mm	50mm	38mm

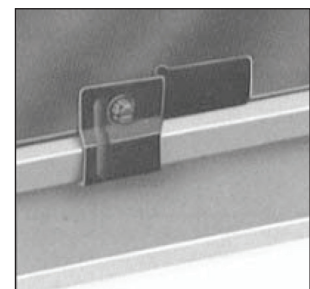
Note: Depth of fixture varies. Maximum depth of fixture will be 6⅝" if a ballast can size of Fig. A is utilized. Please consult a Philips Lighting representative to verify fixture depth should plenum restrictions be a factor.



Mounting Methods



Earthquake clip before installation



Earthquake clip installed

VRA1G12LW232

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Performance

Model No. VRA1G12LW232120SO

LER = FP-48.8 IW-62.0 BF-0.87
Comparative yearly lighting energy cost per 1000 lumens = \$4.92

Report Number: G2005187

Catalog Number: VRA1G12LW232120SO

Lamp: F32T8/TL841/ALTO

Luminaire: VRA 1' x 4' with white reflector and 12 cell low iridescence semi-specular louver

Ballast: SYL QT2X32T8/120ISN-SC
Report is based on 2850 Lumens per lamp

Efficiency: 61.3%

CIE Type: Direct-Indirect

Plane: 0-Deg 90-Deg

Spacing Criteria: 1.2 1.6

Shielding Angles: 90 90

Plane: 0-Deg 90-Deg

Luminous Length: 48.000 9.000

Candela Distribution

Angle	0.0	45.0	90.0	FLUX
0	1620	1620	1620	
5	1606	1619	1636	155
15	1512	1599	1684	453
25	1356	1554	1756	721
35	1144	1465	1755	908
45	823	1143	1322	843
55	112	442	484	346
65	27	34	88	57
75	9	9	9	10
85	3	3	2	3
90	0	0	0	

Luminance Data in Candela/Sq. Meter

Average in Deg.	Average 0-Deg.	Average 45-Deg.	Average 90-Deg.
45	4118.	5719.	6614.
55	691.	2726.	2985.
65	226.	285.	737.
75	123.	123.	123.
85	122.	122.	81.

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	69	67	65	63	61	60	60	59	58
	2	64	60	57	57	55	52	55	53	51
	3	59	54	50	52	49	46	50	48	45
	4	55	49	45	47	43	41	46	43	40
	5	51	45	40	43	39	36	42	38	36
	6	48	41	36	39	35	32	38	35	32
	7	44	37	32	36	32	29	35	31	29
	8	41	34	29	33	29	26	32	29	26
	9	39	31	27	30	26	24	30	26	24
	10	36	29	25	28	24	22	28	24	21

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixt
0-30	1329	23.3	38.0
0-40	2237	39.2	64.0
0-60	3426	60.1	98.0
0-90	3496	61.3	100.0
90-180	0	0.0	0.0
0-180	3496	61.3	100.0

Model No. VRA1G12PW232120SO

LER = FP-51.2 IW-62.0 BF-0.87
Comparative yearly lighting energy cost per 1000 lumens = \$4.71

Report Number: G2005188

Catalog Number: VRA1G12PW232120SO

Lamp: F32T8/TL841/ALTO

Luminaire: VRA 1' x 4' with white reflector and 12 cell specular louver

Ballast: SYL QT2X32T8/120ESN-SC
Report is based on 2850 Lumens per lamp

Efficiency: 64.1%

CIE Type: Direct-Indirect

Plane: 0-Deg 90-Deg

Spacing Criteria: 1.2 1.6

Shielding Angles: 90 90

Plane: 0-Deg 90-Deg

Luminous Length: 46.200 9.480

Candela Distribution

Angle	0.0	45.0	90.0	FLUX
0	1639	1639	1639	
5	1628	1640	1655	157
15	1541	1631	1709	462
25	1390	1605	1822	744
35	1190	1562	1842	961
45	922	1266	1412	927
55	45	470	490	357
65	9	12	68	39
75	4	4	4	5
85	3	2	2	3
90	0	0	0	

Luminance Data in Candela/Sq. Meter

Average in Deg.	Average 0-Deg.	Average 45-Deg.	Average 90-Deg.
45	4613.	6334.	7064.
55	278.	2899.	3022.
65	75.	100.	569.
75	55.	55.	55.
85	122.	81.	81.

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	72	70	68	66	64	63	62	61	
	2	67	63	60	60	57	55	58	56	54
	3	62	57	53	54	51	48	52	50	47
	4	58	51	47	49	46	43	48	45	42
	5	54	47	42	45	41	38	44	40	37
	6	50	43	38	41	37	34	40	36	33
	7	46	39	34	37	33	30	37	33	30
	8	43	36	31	34	30	27	34	30	27
	9	40	33	28	32	28	25	31	27	24
	10	38	30	26	29	25	22	29	25	22

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixt
0-30	1362	23.9	37.3
0-40	2323	40.8	63.6
0-60	3607	63.3	98.7
0-90	3653	64.1	100.0
90-180	0	0.0	0.0
0-180	3653	64.1	100.0



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