

VDT control with balanced illumination for visual comfort.

VRA2G9LP317
VISION SMART



2' X 2' RECESSED FLUORESCENT
4" DEEP, 9 CELL (3 X 3) PARABOLIC LOUVER
STATIC OR AIR SUPPLY/RETURN
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: **VRA2G9LP317120SO**

Family	Body Style	Fixture Width	Ceiling Type	Number of Cells	Louver Finish*	Dual "V" Reflector	Lamp Quantity	Lamp Length	Voltage	Ballast Type		Options
VR		2		9		P	3	17				
4" Deep Pre-Anodized Aluminum Louver for Normal VDT Use	A = Air Handling S = Static	2 = 24"	G = Grid (Lay-in T-Bar) T = Slot Grid or Two-Directional Concealed T (See Options)	9 = 3 Rows of 3 Cells	L = Low Iridescence Semi-Specular (Standard) P = Low Iridescence Specular *See Options and Consult Your Philips Lighting Representative	P = Two Ballast Cover Reflectors Installed	3 = 3 Lamps	17 = T8, 2' Lamp (Nominal 24")	UNV = 120/277V 120 = 120V 277 = 277V 347 = 347V	<20THD SO* <10THD RO** O3* R3** PW *Instant Start Standard **Rapid Start Standard	1 or 2 Lamp Elec. T8 1 to 3 Lamp Elec. T8 T8 Dimming	Add Appropriate Suffix to Catalog Number

Features

- Meets IES RP-1 luminance criteria, for lighting VDT areas with normal use.
- Efficiency 62.7%.
- 1.4 spacing mounting ratio.
- Only 6" deep body.
- One-piece housing.
- Specular low iridescence pre-anodized louver.
- Spring-loaded latches.
- Concealed "T" hinges.
- Louver frame with integral positive light stop.
- Built in hold-down clip
- Louver has protective film dust guard.
- Air closure strips (optional).
- Twin knockout access plate.

Specifications

Performance: In an installation of 3 lamp 17W luminaires in a room cavity ratio of 1, with reflectance of 80% ceiling, 50% wall, 20% floor, the C.U. shall not be less than .69 with a spacing to mounting ratio of 1.4 perpendicular to the lamps. To meet IES RP-1 recommended (basic) requirements for VDT areas the VCP (visual comfort probability) shall not be less than 91 either crosswise or lengthwise and the maximum average brightness at 65°, 75° and 85° shall not exceed 238, 91 and 0 candelas per square meter respectively in the 0°, 45° and 90° horizontal planes.

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 code gauge cold rolled steel. Housing side rails hemmed over and housing ends turned in for safe handling. Louver is pre-anodized aluminum.

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

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: 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

Drywall Kit: For plaster frames, order catalog number: **FK92X2**.

Internal Interference Filter: Consult your Philips Lighting representative.

Radio Interference Filter: 120, 277 or 347 volt, 50 or 60 Hz. Suffix: **R**.

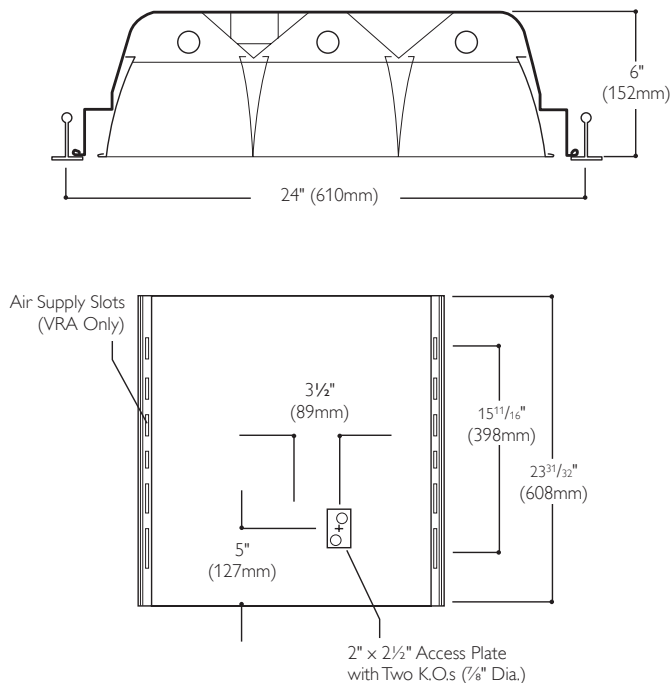
Emergency Lighting System: Emergency battery pack with charger. (90 minutes at 20% of lumens for 1 lamp.) Suffix: **O**.

Louver Finish: Low iridescence semi-specular (standard). For other finishes, consult your Philips Lighting representative.

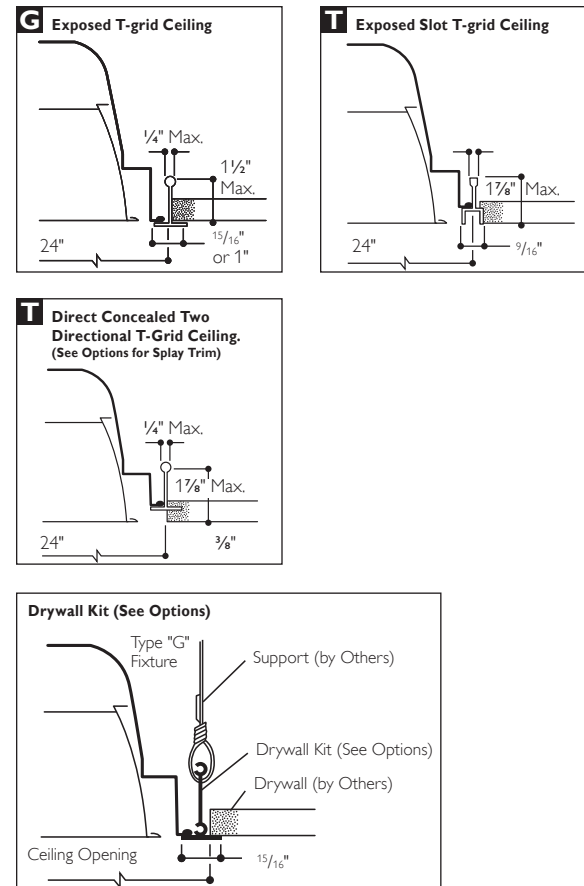
Air Pattern Control and Air Slot Closure: For horizontal and vertical air supply and to balance return. Suffix: **S**.

Ballast Options: For other ballast options, consult your Philips Lighting representative.

Dimensions



Mounting Methods



VRA2G9LP317

VISION SMART

Model No. VRA2G9LP317120O3

Report Number: G94034

Catalog Number: VRA2G9LP317120O3

Lamp: (3) F17T8

Lumens per Lamp: 1375

Luminaire: 2' x 2' VDT troffer with 3 x 3 cell semi-specular louver

Ballast: B3321120RH

CIE Type: Direct

Total Efficiency: 62.7%

Plane: 0-Deg 90-Deg

Spacing Criteria: 1.2 1.4

Shielding Angles: 55 55

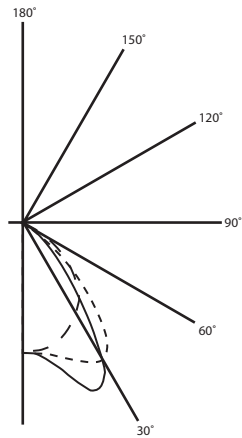
Luminous Length: 21.500 21.500

Candela Distribution

Angle	0.0	22.5	45.0	67.5	Across	Output Lumens
0	1219	1219	1219	1219	1219	
5	1214	1216	1227	1241	1247	118
15	1156	1195	1295	1394	1437	370
25	1054	1163	1452	1680	1724	651
35	908	1112	1362	1199	1044	720
45	701	921	681	436	400	500
55	377	409	183	86	57	202
65	30	26	15	10	10	21
75	7	5	3	2	2	4
85	0	0	0	0	0	0
90	0	0	0	0	0	0

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	71	69	67	65	63	62	62	61
	2	67	63	60	60	58	56	58	56
	3	62	58	54	55	53	50	54	51
	4	58	53	49	51	48	45	50	47
	5	55	48	44	47	43	40	45	42
	6	51	44	40	43	39	36	42	39
	7	47	40	36	39	35	33	38	35
	8	44	37	32	36	32	29	35	31
	9	41	33	29	32	28	25	31	28
	10	38	30	26	29	25	23	29	25



Luminance Data in Candela/Sq. Meter

Average in Deg.	Average 0 Deg.	Average 45 Deg.	Average 90 Deg.
0	4086.	4086.	4086.
45	3323.	3228.	1896.
55	2203.	1069.	333.
65	238.	119.	79.
75	91.	39.	26.
85	0.	0.	0.

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	1139	27.6	44.0
0-40	1859	45.1	71.9
0-60	2561	62.1	99.0
0-90	2586	62.7	100.0
90-180	0	0.0	0.0
0-180	2586	82.7	100.0

Visual Comfort Probability (VCP average 100fc; reflectances 80/50/20)

Room Size		Ceiling Height				Ceiling Height			
W	L	8.5	10.0	13.0	16.0	8.5	10.0	13.0	16.0
		Luminaires Lengthwise				Luminaires Crosswise			
20	20	90	89	84	81	98	97	97	93
20	30	90	91	87	82	98	98	97	94
20	40	91	91	89	85	98	98	97	95
20	60	91	90	90	86	98	98	97	95
30	20	90	89	88	84	98	98	97	93
30	30	91	90	89	85	98	98	97	94
30	40	91	90	91	87	98	97	98	94
30	60	91	91	91	88	99	97	98	94
30	80	91	91	90	88	99	97	98	94
40	20	91	89	88	85	98	98	97	93
40	30	91	90	90	86	98	97	98	94
40	40	91	91	91	88	99	97	98	94
40	60	91	91	91	88	99	97	97	95
40	80	91	91	91	88	99	97	97	95
40	100	91	91	91	88	99	98	97	95
60	30	91	91	90	86	99	97	98	94
60	40	91	91	90	88	99	97	97	95
60	60	91	91	91	88	99	98	97	95
60	80	91	91	91	88	99	98	98	94
60	100	91	91	91	88	99	98	98	94
100	40	91	91	91	88	99	97	97	95
100	60	91	91	91	88	99	98	98	94
100	80	91	91	91	88	99	98	98	94
100	100	91	91	91	88	99	98	98	95



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

VRA2G9LP317 11/13 page 3 of 3

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