

VDT control with balanced illumination for visual comfort.

VRA2G12PP3FT
VISION SMART



2' X 2' RECESSED FLUORESCENT
4" DEEP, 12 CELL (3X4) 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: **VRA2G12PP3FT120SB**

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		12		P	3	FT					
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)	12 = 3 Rows of 4 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	FT = TT5 (Nominal 24")	UNV = 120/277V 120 = 120V 277 = 277V 347 = 347V	<20THD SB* BO** X3* PB	<10THD BH** BF** B3** —	1 or 2 Lamp Elec. 40W TT5 1 or 2 Lamp Elec. 55W TT5 (1) 3 Lamp Elec. 40W TT5 40W TT5 Dimming	Add Appropriate Suffix to Catalog Number
*Instant Start Standard **Rapid Start Standard													

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**Rapid Start Standard

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Features

- Meets IES RP-1 luminance criteria, for lighting VDT areas with normal use.
- Efficiency 68.7%.
- 1.2 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 40W 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 .76 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 85 either crosswise or lengthwise and the maximum average brightness at 65°, 75° and 85° shall not exceed 103, 65 and 77 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, 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**.

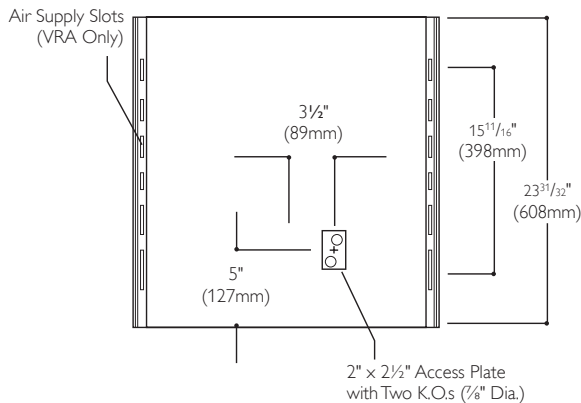
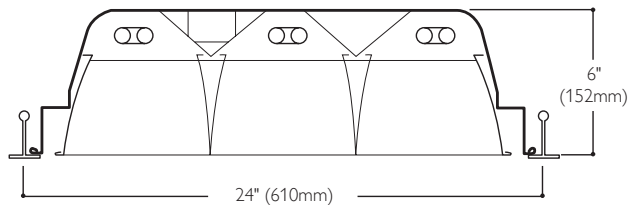
Emergency Lighting System: Emergency battery pack with charger. (90 minutes at 20% of lumens for 1 lamp.) Suffix: **O**.

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

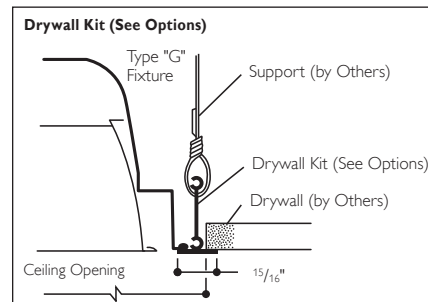
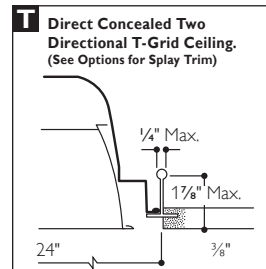
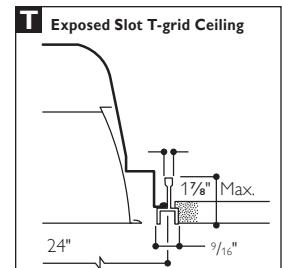
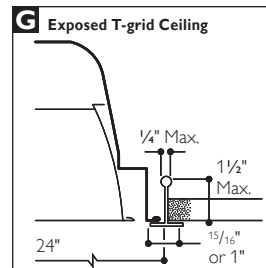
Air Pattern Control and Air Slot Closure: For horizontal and vertical air supply and to balance return. Suffix: **S**.

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

Dimensions



Mounting Methods



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Model No. VRA2G12PP3FT120X3

Report Number: GS4041

Catalog Number: VRA2G12PP3FT120X3

Lamp: (3) F40BX/SPX35RS

Lumens per Lamp: 3150

Luminaire: 2 x 2VDT troffer with 12 cell specular louver

Ballast: B3321120RH

CIE Type: Direct

Total Efficiency: 68.7%

Plane: 0-Deg 90-Deg

Spacing Criteria: 1.2 1.4

Shielding Angles: 65 65

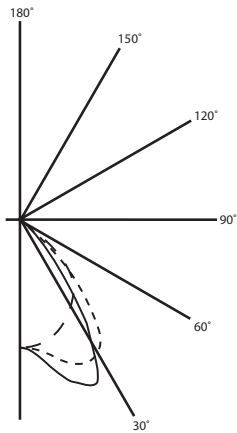
Luminous Length: 21.500 21.500

Candela Distribution

Angle	0.0	22.5	45.0	67.5	Across	Output Lumens
0	3283	3283	3283	3283	3283	
5	3281	3285	3317	3362	3381	320
15	3139	3281	3659	4027	4136	1038
25	2862	3281	4049	4633	4659	1787
35	2458	3139	3585	3014	2704	1892
45	1856	2344	1558	923	850	1185
55	229	392	238	115	63	249
65	13	12	9	8	8	11
75	5	5	4	4	3	4
85	2	2	2	2	2	2
90	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	78	76	74	71	70	69	69	68
	2	73	70	67	66	64	62	64	62
	3	69	64	61	61	59	56	60	57
	4	65	59	55	57	53	51	55	53
	5	61	54	50	52	49	46	51	48
	6	57	50	46	49	45	42	48	44
	7	53	46	41	45	41	38	44	40
	8	50	42	37	41	37	34	40	36
	9	46	38	33	37	33	30	36	32
	10	43	35	30	34	30	27	33	29



Luminance Data in Candela/Sq. Meter

Average in Deg.	Average 0 Deg.	Average 45 Deg.	Average 90 Deg.
0	11004.	11004.	11004.
45	8798.	7386.	4029.
55	1338.	1391.	368.
65	103.	71.	63.
75	65.	52.	39.
85	77.	77.	77.

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	3144	33.3	48.5
0-40	5036	53.3	77.6
0-60	6471	68.5	99.7
0-90	6488	68.7	100.0
90-180	0	0.0	0.0
0-180	6488	68.7	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	84	82	82	62	95	95	95	84
20	30	84	82	82	67	95	96	96	84
20	40	84	82	82	67	95	96	96	85
20	60	85	82	82	67	95	96	96	85
30	20	84	82	82	69	95	96	96	85
30	30	84	82	82	71	95	96	96	86
30	40	85	82	83	71	95	96	96	86
30	60	85	83	83	72	95	96	96	86
30	80	85	83	83	72	95	96	95	86
40	20	84	82	82	69	95	96	96	86
40	30	85	82	83	71	95	96	96	86
40	40	85	83	83	72	95	96	96	86
40	60	85	83	83	72	95	96	95	86
40	80	85	83	83	72	96	96	95	86
40	100	85	83	83	72	96	96	95	86
60	30	85	83	83	72	95	96	96	86
60	40	85	83	83	72	95	96	95	86
60	60	85	83	83	72	96	96	95	86
60	80	85	83	83	72	96	96	95	86
60	100	85	83	83	72	96	96	95	86
100	40	85	83	83	72	96	96	95	86
100	60	85	83	83	72	96	96	95	86
100	80	85	83	83	72	96	96	95	87
100	100	85	83	83	72	96	96	95	87



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