

VDT control with balanced illumination for visual comfort.

VRA1G8LW232
VISION SMART



1' X 4' RECESSED FLUORESCENT
8 CELL (1 ROW) PARABOLIC LOUVER
STATIC OR AIR SUPPLY/RETURN
2 LAMP T8 OR T5
IES RP-1 FOR VDT AREAS

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: **VRA1G8LW232120SO**

Family	Body Style	Fixture Width	Ceiling Type	Number of Cells	Louver Finish*	Reflector	Lamp Quantity	Lamp Length	Voltage	Ballast Type	Options	
VR		1		8		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	8 = 1 Row of 8 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

Features

- Meets IES RP-1 luminance criteria, for lighting VDT areas with normal use.
- Efficiency 70.3% (2 Lamp T8) specular louver.
- Efficiency 66.9% (2 Lamp T8) semi-specular louver.
- 1.6 spacing mounting ratio.
- 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.
- 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 code gauge cold rolled steel with side rails hemmed over and housing ends turned in for safe handling.

Louver: Post-anodized aluminum.

Finish: Chasis exterior—black baked polyester enamel. Cavity—white baked polyester enamel minimum reflectance 86%. Phosphate undercoating. Louver—Semi-specular low iridescence 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: 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.

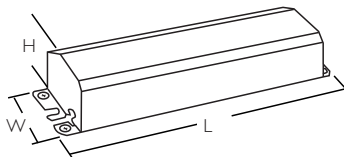
Fusing: Internal fast-blow fusing. Suffix: **A**.

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

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

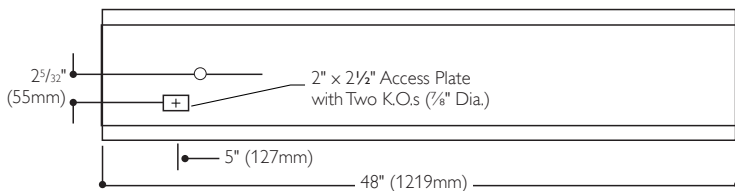
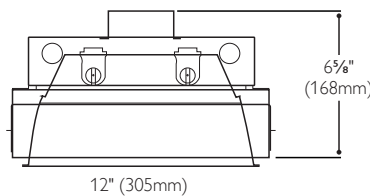
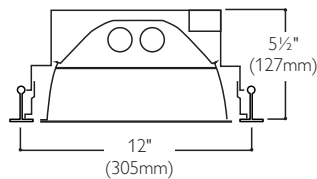
Drywall Kit: Order catalog number: **FK91X4**.

Dimensions

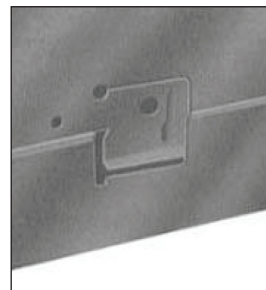
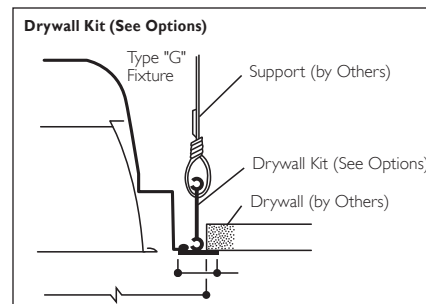
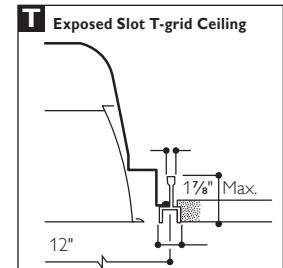
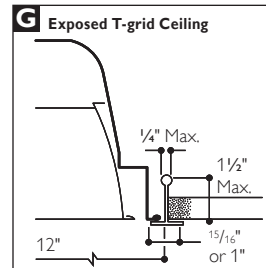


Length (L)	Width (W)	Height (H)
9½"	2⅜"	1½"
241mm	50mm	38mm

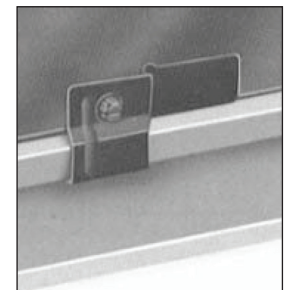
Note: Depth of fixture varies. Maximum depth of fixture will be 6⅝" if a ballast can size of Fig. A is utilized. Please consult a Philips Lighting representative to verify fixture depth should plenum restrictions be a factor.



Mounting Methods



Earthquake clip before installation



Earthquake clip installed

Performance

Model No. VRA1G8LW232120SO

LER = FP-56.0 IW-59.3 BF-0.87
Comparative yearly lighting energy cost per 1000 lumens = \$4.29

Report Number: LTL08965

Catalog Number: VRA1G8LW232120SO

Lamp: F32T8/TL841/ALTO

Luminaire: VRA 1' x 4' with white reflector and 8 cell low iridescence semi-specular louver

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

Efficiency: 66.9%

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: 46.125 9.375

Candela Distribution

Angle	0.0	45.0	90.0	FLUX
0	1547	1547	1547	
5	1535	1533	1559	148
15	1471	1547	1600	437
25	1352	1523	1673	702
35	1186	1466	1661	903
45	956	1237	1313	908
55	606	691	531	568
65	69	140	106	129
75	16	13	14	16
85	2	2	2	2
90	0	0	0	

Luminance Data in Candela/Sq. Meter

Average in Deg.	Average 0-Deg.	Average 45-Deg.	Average 90-Deg.
45	4846.	6270.	6655.
55	3787.	4318.	3318.
65	585.	1187.	899.
75	222.	180.	194.
85	82.	82.	82.

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	75	73	70	68	67	65	66	65	63
	2	70	66	63	62	60	58	60	58	56
	3	65	60	55	57	54	51	55	52	50
	4	60	54	49	51	48	45	50	47	44
	5	56	48	43	46	41	39	45	42	39
	6	52	44	39	42	38	34	41	37	34
	7	47	39	34	38	33	30	37	33	30
	8	44	35	30	34	29	26	33	29	26
	9	40	31	26	30	26	22	30	25	22
	10	37	28	23	27	23	20	27	23	20

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixt
0-30	1287	22.6	33.8
0-40	2190	38.4	57.4
0-60	3665	64.3	96.1
0-90	3812	66.9	100.0
90-180	0	0.0	0.0
0-180	3812	66.9	100.0

Model No. VRA1G8PW232120SO

LER = FP-58.8 IW-59.0 BF-0.87
Comparative yearly lighting energy cost per 1000 lumens = \$4.08

Report Number: 08966

Catalog Number: VRA1G8PW232120SO

Lamp: F32T8/TL841/ALTO

Luminaire: VRA 1' x 4' with white reflector and 8 cell specular louver

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

Efficiency: 70.3%

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: 46.125 9.375

Candela Distribution

Angle	0.0	45.0	90.0	FLUX
0	1750	1570	1570	
5	1558	1578	1580	150
15	1501	1583	1641	447
25	1390	1601	1758	736
35	1229	1602	1805	974
45	1016	1388	1388	991
55	681	741	477	602
65	24	130	70	104
75	3	3	1	3
85	1	0	0	1
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	79	76	74	72	70	69	69	68	67
	2	74	69	66	66	63	61	64	61	60
	3	69	63	59	60	56	54	58	55	53
	4	64	57	52	54	50	47	53	49	47
	5	58	51	46	49	45	40	48	44	41
	6	54	46	41	44	40	36	43	39	36
	7	50	41	36	40	35	32	39	35	31
	8	46	37	31	36	31	27	35	30	27
	9	52	33	27	32	27	24	31	27	23
	10	39	30	24	29	24	21	28	24	21

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixt
0-30	1333	23.4	33.3
0-40	2307	40.5	57.6
0-60	3900	68.4	97.3
0-90	4009	70.3	100.0
90-180	0	0.0	0.0
0-180	4009	70.3	100.0



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