

VR PARABOLIC VRA2G9LP317

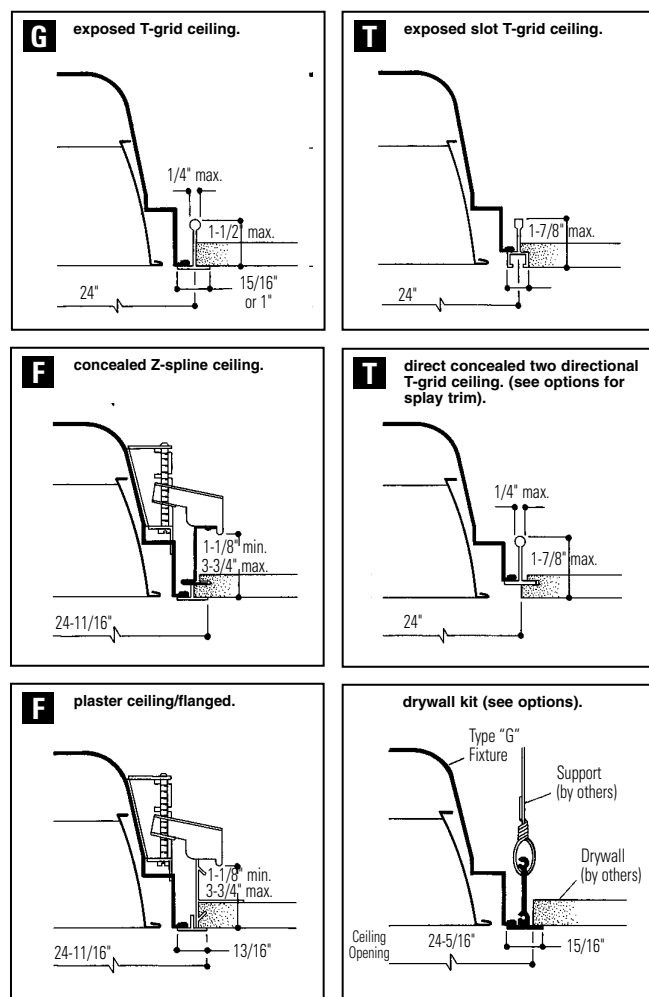
2'x2' RECESSED FLUORESCENT, 4" DEEP, 9 CELL (3x3) PARABOLIC LOUVER
 STATIC OR AIR SUPPLY/RETURN, IES RP1 FOR NORMAL VDT USE

Features

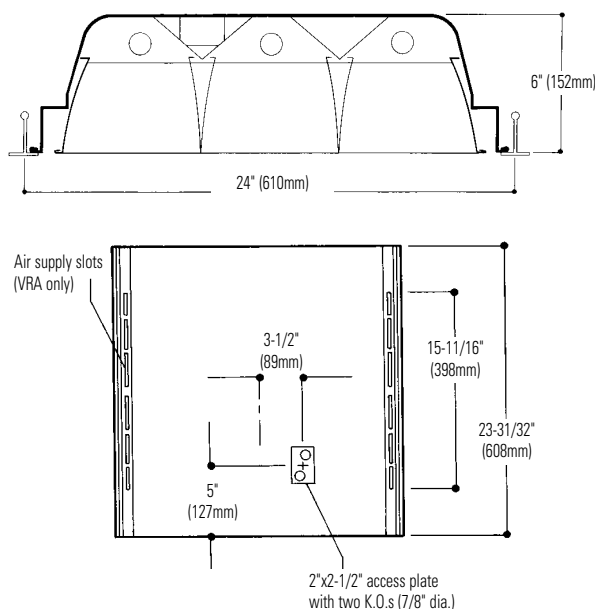
- Meets IES RP1 for lighting VDT areas with normal use.
- 62.7% efficient.
- 1.4 spacing mounting ratio.
- Only 6" deep body.
- One-piece housing.
- Specular low iridescence pre-anodized louver.
- Spring-loaded latches.
- Concealed "T" hinges.
- Louver frame with integral positive light stop.
- Earthquake clips included.
- Louver has protective film dust guard.
- Air closure strips (optional).
- UL-Listed twin knockout access plate.
- Construction to meet Chicago Plenum Code is available.



MOUNTING METHOD



DIMENSIONS



Job Information

Type:

Job Name:

Cat. No.:

Lamp(s):

Volts/Ballast:

Lightolier a Genlyte Thomas Company www.lightolier.com
 Technical Information: (978) 657-7600 • Fax (978) 658-0595
 631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
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 A0902

SECTION 2/Folio G05-42 REV. A

LIGHTOLIER®



VR PARABOLIC VRA2G9LP317

2'x2' RECESSED FLUORESCENT, 4" DEEP, 9 CELL (3x3) PARABOLIC LOUVER STATIC OR AIR SUPPLY/RETURN, IES RP1 FOR NORMAL VDT USE

PHOTOMETRY

MODEL NO. VRA2G9LP317

LER = FP - 33.0 WATTS - 47.0 BF - 0.90
Comparative yearly lighting energy cost per 1000 lumens = \$7.27

GT TESTING LABORATORY
45 Industrial Way
Wareham, MA 01987
(508) 657-7800

REPORT NO.: G84034 DATE: 06-03-1984
CATALOG NO.: VRA2G9LP31712003
LAMP(S): 3 F17T8, EACH RATED 1375 LUMENS
LUMINAIRE: 2X2 VDT TROFFER, WITH 3X3 CELL SEMI-SPECULAR LOUVER, B332120RH BALLAST, 120 VAC, WATTS = 47, BF = 0.90

CANDELA DISTRIBUTION		FLUX	
0	0	0	0
5	118	118	118
15	370	370	370
25	891	891	891
35	1586	1586	1586
45	2586	2586	2586
55	3770	3770	3770
65	4086	4086	4086
75	3910	3910	3910
85	2380	2380	2380
90	0	0	0

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0-30	1139	27.6	44.0
0-40	1859	46.1	71.9
0-50	2586	62.7	99.0
0-90	2586	62.7	100.0
90-180	0	0.0	0.0
0-180	2586	62.7	100.0

TOTAL LUMINAIRE EFFICIENCY = 82.7 %
TOTAL REFLECTANCE OF PAINT = 91.0 %

CIE TYPE - DIRECT
PLANE : 1 0-DEG 90-DEG
SPACING CRITERIA : 1.2 1.4
SHIELDING ANGLES : 55 55
LUMINOUS LENGTH : 21.500 21.500

LUMINANCE DATA IN CANDELA/SQ M

ANGLE IN DEG	0-DEG	45-DEG	90-DEG
0	4086	4086	4086
45	3323	3223	1896
55	2203	1069	333
65	238	119	79
75	91	39	26
85	0	0	0

coefficients of utilization — zonal cavity method (effective floor cavity reflectance 0.20)

	RF	RC	RW	70	50	30	50	30	10	50	30	10
1	71	69	67	65	63	62	62	61	60	62	61	60
2	67	63	60	60	58	56	58	56	55	58	56	55
3	62	58	54	55	53	50	54	51	49	54	51	49
4	58	53	49	51	48	45	50	47	44	50	47	44
5	55	48	44	47	43	40	45	42	40	45	42	40
6	51	44	40	43	39	36	42	39	36	42	39	36
7	47	40	36	39	35	33	38	35	32	38	35	32
8	44	37	32	36	32	29	35	31	29	35	31	29
9	41	33	29	32	28	25	31	28	25	31	28	25
10	38	30	26	29	25	23	29	25	23	29	25	23

visual comfort probability (rated lumens per lamp 3150.)

room size		ceiling height				ceiling height			
W	L	8.5	10.0	13.0	16.0	8.5	10.0	13.0	16.0
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

ORDERING INFORMATION

Explanation of Catalog Number. Example: VRA2G9LP317120SOGLR

VR	2	9	P	3	17	VOLTAGE: 120 or 277	OPTIONS: Add appropriate suffix to catalog no. ie: (GLR)
VR: 4" Deep Pre-anodized Aluminum Louver For Normal VDT Use	BODY STYLE: A=Air Handling S=Static	FIXTURE WIDTH	CEILING TYPE: G=Grid (lay-in T bar) F=Flanged (overlap) Z spline and plaster frame T=Slot grid or two-directional concealed T (see options)	LOUVER FINISH*: L=Low Iridescence Semi-specular (standard) P=Low Iridescence Specular	LAMP QUANTITY	LAMP TYPE/ FIXTURE LENGTH: 17=T8, 2' Lamp (Nominal 24")	BALLAST TYPE: <20THD <10THD SO* HI* O3* H3* PS -

Other dimming options. Consult factory.

OPTIONS & ACCESSORIES

- PLASTER FRAME:** Catalog Number: **PF22**.
- CONTINUOUS ROW INSTALLATION:** For F type fixtures, half-width flanges are required between fixtures. Order Catalog Number: **S2FCTRIM** (each joint).
- SPLAY TRIM:** For T ceiling type only. SUFFIX: **CTZ22 S2 SPLAY TRIM**.
- RADIO INTERFERENCE FILTER:** 120 or 277 volt, 50 or 60 Hz. One per fixture standard. SUFFIX: **RF**.
- ELECTRICAL WIRING OPTIONS:** Consult factory.
- AIR CLOSURE STRIPS:** SUFFIX **ACS2** (factory installed).
- DRYWALL KIT:** Order Catalog Number: **FK92X2**. (Request Folio OA30-10.)
- CHICAGO PLENUM:** SUFFIX: **CP**.

SPECIFICATIONS

PERFORMANCE: In an installation of 3 lamp 17W luminaires in a room cavity ratio of 1, reflectance 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 RP1 preferred 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.

SPECIFICATIONS (continued)

- 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:** Pre-anodized aluminum (Coilzak® or equal).
- FINISH:** Chassis exterior—black baked polyester enamel. Cavity—white baked polyester enamel minimum 86% reflectance. Phosphate undercoating.
- Louwer**—low iridescence semi-specular 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.

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