

DESCRIPTION

The VRGC features a nominal 4-1/2" deep para-contoured fixture housing, high reflectivity and optimum lamp to lens spacing. It produces total uniformity of light in the luminous area and is compatible with all of today's popular ceiling systems and is available with a number of options and accessories for application versatility. Designed to offer maximum efficiency and performance for today's unique interior specifications, the VRGC is perfect for use in office spaces, schools, hospitals, industrial facilities and commercial areas with high traffic volume.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction

Nominal 4-1/2" deep, para-contoured housing, die-formed code gauge, prime cold rolled steel. Die-embossed housing has full-length, die-formed stiffeners for added strength. Deep "V" ballast/wireway cover easily removed without tools. Die formed captive lampholder bracket fully encloses lampholder wiring permitting easy lampholder replacement. Heavy endplates are securely attached with interlocking tabs and screws. Four auxiliary fixture end suspension points provided. KOs for continuous row wiring. Endplates have integral Grid-Lock feature for safety and convenience.

Finish

Multistage, iron phosphate pretreatment ensures maximum bonding and rust inhibitor. Lighting grade, baked white enamel finish.

Hinging/Latching

Positive cam action spring-loaded steel latches with baked white enamel finish. Safety-lock T-hinges allow hinging and latching either side.

Frame/Shielding

Die-formed, heavy gauge, flat steel door with reinforced mitered corners and baked white enamel finish. Positive light seals. Frame and lens are secured to housing with 4 or 6 T20 stainless steel TORX® screws.

Electrical *

Ballasts are CBM/ETL Class "P" and are positively secured by mounting bolts. Pressure lock lampholders.

Labels

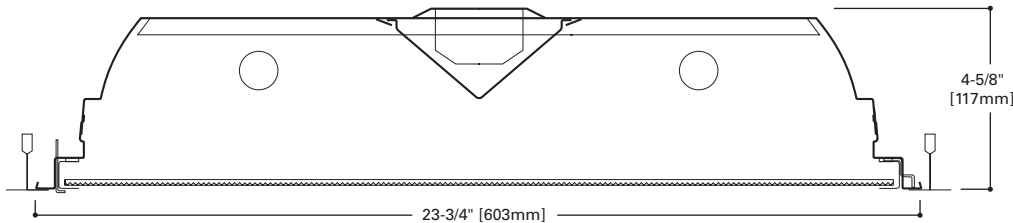
UL/cUL listed for damp locations.



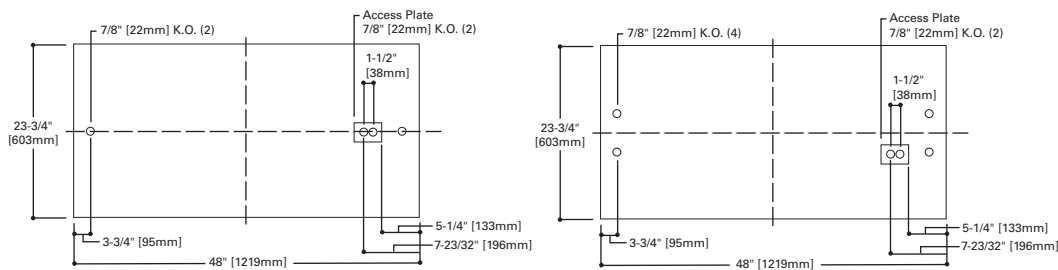
2VR

**2x4
Fluorescent
Vandal Resistant**

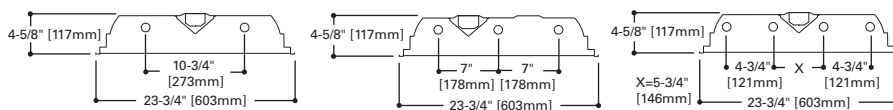
**RECESSED
Lens Troffer**



MOUNTING DATA



LAMP CONFIGURATIONS


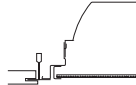
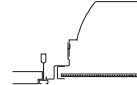
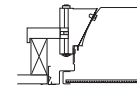


ORDERING INFORMATION

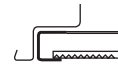
SAMPLE NUMBER: 2VRGC-232A

Width	Product Family	Trim Type	Series	Door Type	No. of Lamps	Wattage (Length)	Lens Type	Voltage	Ballast Type	Options (Add as Suffix)
2	VR		C							
2=2'	VR				2, 3, 4 or 6 Lamps (Not included)				EB = Generic Electronic Ballast	PAF = Painted after Fabrication GL = Internal Single Element Fusing GM = Dual Element Fusing EL4 = Emergency Lighting, self contained EQ = T-BAR Safety Earthquake Clips ¹ RLS = Rotor-Lock Socket (T8 Lamps only) 6S = Six T20 TORX®-head Screws (3 per side) SC =Safety Chain
	G = Grid/Lay-in - Standard G = Concealed T G = Slot Grid F = Flange Trim				28T5 =28W T5 (48") 32 =32W T8 (48") 54T5 =54W T5HO (48")				No. of Ballasts 1 or 2 Lamp Size 8 = T8	
	C				ACTF140 = .140 Thick ACTF187 = .187 Thick PA375 = .250 polycarbonate with .125 prismatic overlay (standard with 6S option)				(For specific Electronic Ballast specify Brand and Catalog Number.)	For additional options, please consult Cooper Lighting Representative.
	Standard = Flat White Steel Door (Leave Blank)				120 =120V 277 =277V 347 =347V UNV =Universal Voltage (120-277V)				Notes: ¹ EQ Grid Clip is recommended for all 9/16" ceiling systems.	

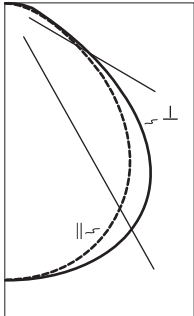
CEILING COMPATIBILITY

G	G	G	F	Ceiling Type**	Trim Type
Grid/Lay-in Standard	Concealed T	Slot Grid	Flange Trim With Supporting Swing Gates	Exposed Grid Concealed T Slot Grid Flange	G G G F
					

DOOR FRAME

VRGC
Flat, White Steel

PHOTOMETRICS



2VRGC-232A
Electronic Ballast
F32T8/35K Lamps
2800 Lumens

Spacing criterion:
(H) 1.3 x mounting
height, (L) 1.4 x
mounting height

Efficiency 79.4%

Test Report
#108P156

LER = FL-66

Yearly Cost of 1000
lumens, 3000 hrs at
.08 KWH = \$3.64

Coefficients of Utilization

Effective floor cavity reflectance				20%				30%				10%				0%			
rc	80%	70%	50%	30%	10%	0%		80%	70%	50%	30%	10%	0%						
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																			
0	95	95	95	95	92	92	92	92	88	88	88	84	84	84	81	81	81	79	
1	87	84	81	78	85	82	80	77	79	77	75	76	74	72	73	72	70	69	
2	81	75	70	66	79	73	69	65	71	67	64	68	65	62	66	63	61	59	
3	74	67	61	56	72	66	60	56	63	59	55	61	57	54	59	56	53	52	
4	68	60	53	49	67	59	53	48	57	52	48	55	51	47	53	50	46	45	
5	63	53	47	42	61	52	46	41	51	45	41	49	44	41	48	43	40	38	
6	58	48	41	36	56	47	41	36	46	40	36	44	39	35	43	39	35	34	
7	53	43	36	32	52	42	36	32	41	35	31	40	35	31	39	34	31	29	
8	49	39	32	27	48	38	32	27	37	31	27	36	31	27	35	30	27	25	
9	45	35	28	24	44	34	28	24	33	27	23	32	27	23	32	27	23	22	
10	42	31	25	21	41	31	25	21	30	25	21	29	24	21	29	24	21	19	

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	1328	23.7	29.9
0-40	2203	39.3	49.5
0-60	3742	66.8	84.1
0-90	4447	79.4	100.0
0-180	4447	79.4	100.0

Typical VCP Percentages

Room Size (Ft.)	Height Along		Height Across	
	8.5'	10.0'	8.5'	10.0'
20 x 20	72	75	69	73
30 x 30°	68	70	65	68
30 x 60	62	64	57	60
60 x 30	70	73	69	71
60 x 60	62	64	58	61

Candela

Angle	Along H	45°	Across L
0	1656	1656	1656
5	1647	1655	1663
10	1627	1644	1660
15	1595	1623	1649
20	1545	1590	1633
25	1481	1546	1604
30	1400	1486	1557
35	1299	1405	1493
40	1171	1294	1395
45	1013	1138	1245
50	835	954	1031
55	667	764	799
60	520	579	597
65	393	412	428
70	281	269	298
75	191	173	221
80	126	126	165
85	66	77	94
90	0	0	0