

DESCRIPTION

The VRGC features a nominal 5-1/2" deep para-contoured fixture housing, high reflectivity and optimum lamp to lens spacing. The VRGC 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 5-1/2" deep, para-contoured housing, die-formed code gauge, prime cold-rolled steel. Die-embossed housing has full length die formed stiffeners for added strength. Ballast/wireway cover easily removed without tools. Die-formed captive lampholder bracket fully encloses lamp-holder 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.

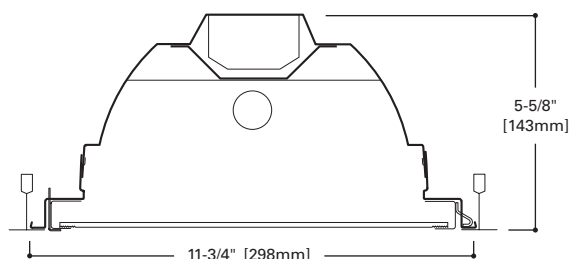


VR

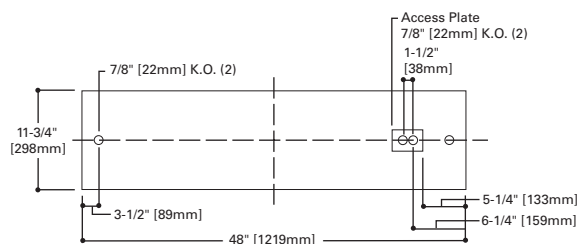
1 x 4
Vandal Resistant

RECESSED

Lens Troffer



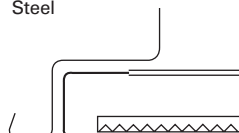
MOUNTING DATA



DOOR FRAME

VRGC

Flat, White
Steel

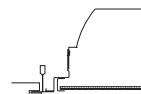


CEILING COMPATIBILITY

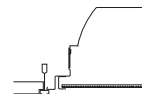
G
Grid/Lay-in
Standard



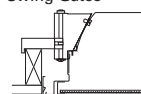
G
Concealed T



G
Slot Grid



F
Flange Trim
With Supporting
Swing Gates



**Ceiling
Type****

Exposed Grid
Concealed T
Slot Grid
Flange

**Trim
Type**

G
G
G
F

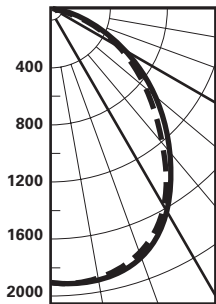
ORDERING INFORMATION

SAMPLE NUMBER: VRGC-232ACTF140-120

Width	Product Family	Trim Type	Series	Door Type	No. of Lamps	Wattage (Length)	Lens Type	Voltage	Ballast Type	Options (Add as Suffix)
	VR									
[Blank]=1'			C		1, 2 or 3 Lamps (Not included)	28T5=28W T5 (3 max.) 32=32W T8 54T5=54W T5HO (2 max.)			EB = Generic Electronic Ballast No. of Ballasts 1 or 2 ¹ Lamp Size 8=T8 5=T5	PAF= Painted after Fabrication GL= Internal Single Element Fusing GM= Dual Element Fusing EL4= Emergency Lighting, self contained EQ= T-BAR Safety Earthquake Clips ² RLS= Rotor-Lock Socket (T8 Lamps only) 6S= Six TORX®-head Screws (3 per side) SC =Safety Chain
VR	G= Grid/Lay-in - Standard G= Concealed T G =Slot Grid F = Flange Trim				ACTF140= .140Thick ACTF187= .187Thick 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 Two ballast in 2 or 4 lamp require LAO (less access opening). ² EQ Grid Clip is recommended for all 9/16" ceiling systems.		

PHOTOMETRICS

Candlepower Distribution



Test No. LSI-4570
VRGC-240ACTF140
 Lamp=F40T12/CW
 Lumens=3150
 Spacing Criteria
 $\angle=1.2$ $\parallel=1.2$
 Efficiency=66.0%

-- \angle
 — \parallel

Candlepower

Deg.	\angle	\parallel
0	1915	1915
5	1910	1896
15	1824	1833
25	1645	1691
35	1358	1455
45	962	1055
55	575	635
65	291	347
75	154	171
85	62	72
90	0	0

Typical VCP Percentages

Room Size (in Feet)	Height Along \angle 8'6" 10'0"	Height Across \angle 8'6" 10'0"
20 x 20	61 65	63 67
30 x 30	54 58	55 60
30 x 60	45 48	46 49
60 x 30	55 60	56 61
60 x 60	45 48	46 49

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Luminaire
0-30	1468	23.3	35.3
0-40	2345	37.2	56.4
0-60	3644	57.9	87.6
0-90	4159	66.0	100.0
90-180	0	0.0	0.0
0-180	4159	66.0	100.0

Coefficient of Utilization

rc	80%				70%			50%		30%		10%		0%
rw	70	50	30	10	50	30	10	50	10	50	10	50	10	0
RCR														
0														
1	73	71	68	66	69	67	65	66	63	64	61	61	59	58
2	68	63	60	56	62	59	56	60	54	58	53	56	52	51
3	63	57	52	49	56	52	49	54	48	52	47	51	46	45
4	58	51	46	43	51	46	42	49	42	48	41	46	41	40
5	58	46	41	37	46	41	37	44	37	43	36	42	36	35
6	50	42	37	33	41	36	33	40	32	39	32	38	32	31
7	46	38	33	29	38	33	29	37	29	36	28	35	28	27
8	43	34	29	26	34	29	25	33	25	32	25	31	25	24
9	39	31	26	22	31	26	22	30	22	29	22	29	22	21
10	37	28	23	20	28	23	20	27	20	27	20	26	19	18

rc=Ceiling reflectance, rw=W all reflectance, RCR=Room cavity ratio

CU Data Based on 20% Effective Floor Cavity Reflectance.