

# Fail-Safe

## DESCRIPTION

The VRM combines a low-profile, surface modular design with the latest in energy-efficient technology. The dihedral recessed top design allows for cooler fixture operation. Other features include a die-formed housing, surface or stem mounting (single or continuous row), full seam-welded corners and a broad selection of attractive door frames. The durable, versatile VRM is perfect for use in commercial spaces, schools, hospitals, correctional or industrial facilities and high volume public access areas.

<b>Catalog #</b>		<b>Type</b>
<b>Project</b>		
<b>Comments</b>		<b>Date</b>
<b>Prepared by</b>		

## SPECIFICATION FEATURES

### Construction

Housing is die-formed, code-gauge, prime cold-rolled steel. Smooth sides permit flush joint for continuous-row mounting. Dihedral recessed top design ensures cooler ballast operation. Die-formed captive lampholder bracket fully encloses wiring permitting easy lampholder replacement. Ballast covers easily removed without tools.

### Finish

Painted after fabrication. Electrostatically-applied baked white polyester powder enamel finish. Multistage cleaning cycle, iron phosphate coating with rust inhibitor. Conveyorized application and baking timing accurately controlled at an elevated temperature.

### 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.

### Hinging/Latching

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

### Labels

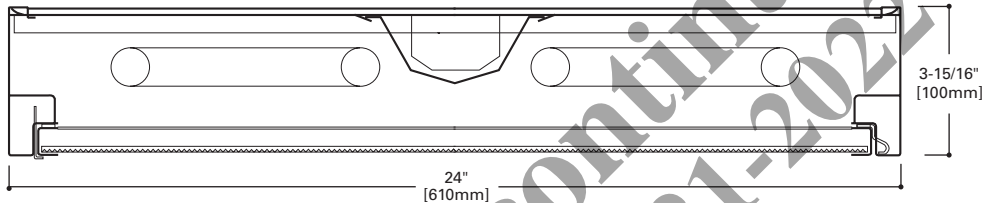
UL/cUL listed for damp locations.



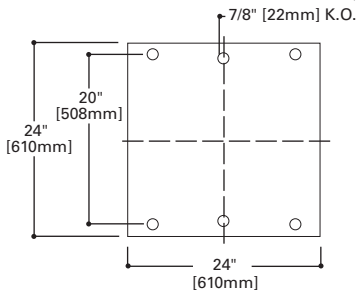
## 2VRM

2x2  
Vandal Resistant

SURFACE  
Lens Troffer



## MOUNTING DATA



## DOOR FRAME

2VRM  
Flat, White  
Steel



## ENERGY DATA

Input Watts:

### EB Ballast & STD Lamps

417 (45), 2U6 (72), 2U6T8 (61)  
2U1-5/8 (61), 2BX40 (67)  
3U1-5/8 (91), 3BX40 (110)

### ES Ballast & STD Lamps

420 (116), 417 (90)  
2U6 (86), 2U6T8 (71)  
2U1-5/8 (71), 3U1-5/8 (108)

### STD Ballast & STD Lamps

2BX40 (82), 3BX40 (128)

Luminaire Efficacy Rating

LER = FL-58

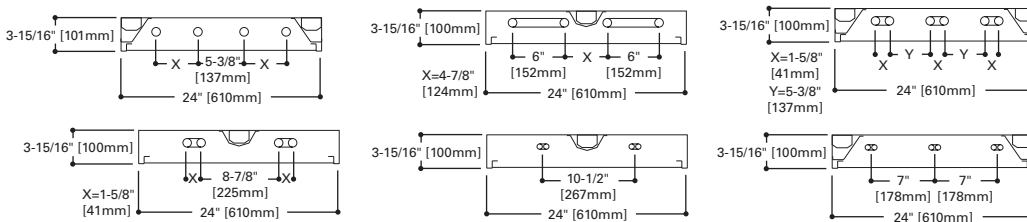
**Catalog Number:** 2VRM-

2U6T8ACTF140

**Yearly Cost of 1000 lumens,**  
**3000 hrs at .08 KWH = \$4.14**

\* Reference the lamp/ballast data in the Technical Section for specific lamp/ballast requirements.

## LAMP CONFIGURATIONS



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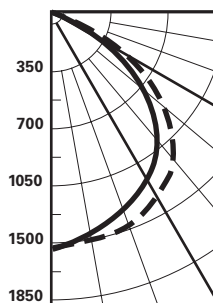
ORDERING INFORMATION

SAMPLE NUMBER: 2VRM-2U6T8A

Width	Product Family	Door Type	No. of Lamps	Wattage (Length)	Lens Type	Voltage	Ballast Type	Options (Add as Suffix)
<b>2</b>	<b>VRM</b>							
2= 2'	VRM		2, 3 or 4 Lamps (Not included)				EB = Generic Electronic Ballast	GL= Internal Single Element Fusing GM= Dual Element Fusing EL4= Emergency Lighting, self contained SMB= Side-mounted ballast for stem application (Recommended for 4-point suspension) RIF1 = Radio Interference Suppressor EKO= End plate with 7/8" KO (Required for Continuous Row mounting) RLS= Rotor-Lock Socket (T8 Lamps only) 6S= Six TORX®-head Screws (3 per side) SC =Safety Chain
	Standard = Flat White Steel Door (Leave Blank)		U6T8 =32W T8 (24") maximum of (2) U6T8 lamps 14T5 =14W T5 (24") 24T5 =24W T5 (24") 17 =17W T8 (24") U1-5/8 =31W T8 (24") BX40 =40W Biax (24")				No. of Ballasts 1 or 2 Lamp Size 8=T8 5=T5 Biax T=T5 Linear (For specific Electronic Ballast specify Brand and Catalog Number.)	
			ACTF140= .140Thick ACTF187= .187Thick PA375 = .250 polycarbonate with .125 prismatic overlay (standard with 6S option)					
			120=120V 277=277V 347=347V UNV=Universal Voltage (120-277V)					

PHOTOMETRICS

Candlepower Distribution



Test No. M-3449  
2VRM-2U6-ACTF140  
Lamp=F40T12/CW  
Lumens=3150  
Spacing Criteria  
⊥=1.2 ||=1.3  
Efficiency=62.5%

Candlepower

Deg.	⊥	
0	1515	1515
5	1506	1513
15	1452	1493
25	1337	1421
35	1141	1266
45	836	988
55	467	547
65	252	267
75	174	187
85	57	57
90	0	0

Typical VCP Percentages

Room Size (in Feet)	Height Along		Height Across ⊥	
	8'6"	10'0"	8'6"	10'0"
20 x 20	65	70	64	69
30 x 30	58	62	57	61
30 x 60	50	52	49	52
60 x 30	61	64	60	63
60 x 60	51	53	51	53

Zonal Lumen Summary

Zone	Lumens	%Lamp	% Luminaire
0-30	1196	20.8	33.3
0-40	1952	33.9	54.3
0-60	3115	54.2	86.7
0-90	3595	62.5	100.0
90-180	0	0.0	0.0
0-180	3595	62.5	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
RCR														
0	74	74	74	74	73	73	73	69	69	67	67	64	64	63
1	69	66	64	61	65	62	60	62	59	60	57	57	55	54
2	63	59	55	51	57	54	51	55	50	53	49	51	47	46
3	58	52	47	44	51	47	43	49	43	48	42	46	41	40
4	54	47	42	38	46	41	38	44	37	43	37	42	36	35
5	50	42	37	33	41	37	33	40	33	39	32	38	32	31
6	46	38	33	29	38	33	29	37	29	35	29	35	28	27
7	43	35	30	26	34	29	26	33	26	32	26	32	25	24
8	40	32	27	23	31	27	23	31	23	30	23	29	23	22
9	37	29	24	21	29	24	21	28	21	28	21	27	21	20
10	35	27	22	19	27	22	19	26	19	26	19	25	19	18

rc=Ceiling reflectance, rw=W all reflectance, RCR=Room cavity ratio  
CU Data Based on 20% Effective Floor Cavity Reflectance.