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.

Catalog #	Туре
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES

Construction

Housing is die-formed, code gauge, prime cold-rolled steel. Smooth sides permit flush joint for continuous row mounting. Full seam-welded corners. Dihedral recessed top design insures 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.

Hinging/Latching

Positive cam action 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.

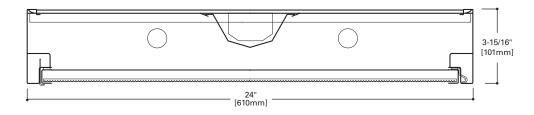


2VRM

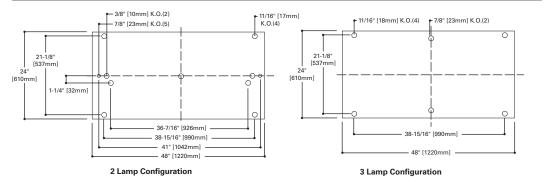
2x4 Vandal Resistant

SURFACE

Lens Troffer



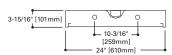
MOUNTING DATA



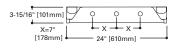
DOOR FRAMES

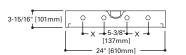


LAMP CONFIGURATIONS



Cooper Lighting





TORX® is a registered trademark of Camcar Division of Textron Inc.

ENERGY DATA

Input Watts:

EB Ballast & STD Lamps

232 (61) 432 (122)

ES Ballast & STD Lamps

232 (71) 432 (142)

Luminaire Efficacy Rating LER = FL-71

Cotale None

Catalog Number:

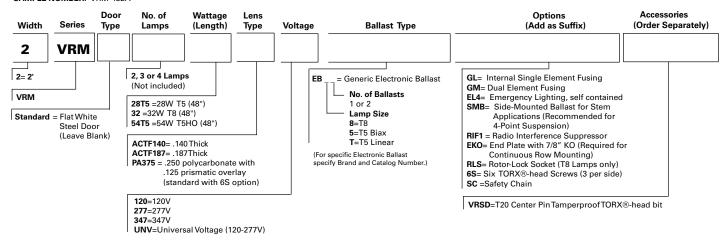
Yearly Cost of 1000 lumens: 3000 hrs at .08 KWH = \$3.38

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



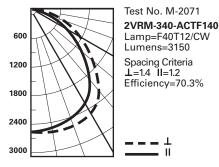
ORDERING INFORMATION

SAMPLE NUMBER: VRM-432A



PHOTOMETRICS

Candlepower Distribution



Candlepower								
Τ	II							
2659	2659							
2650	2663							
2559	2650							
2373	2587							
2056	2391							
1553	1839							
986	1127							
541	526							
253	259							
105	111							
0	0							
	⊥ 2659 2650 2559 2373 2056 1553 986 541 253 105							

Typical VCP Percentages										
Room Size (in Feet)	Height 8'6"	Along II 10'0"	Height 8'6"	Across 10'0"	I					
20 x 20	68	71	67	70						
30 x 30	60	65	60	64						
30 x 60	52	56	51	55						
60 x 30	62	66	61	66						
60 x 60	52	55	51	54						

Tunical VCD Davasantanas

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Luminaire
0-30	2136	22.6	32.2
0-40	3540	37.5	53.3
0-60	5746	61.1	56.9
0-90	6641	70.3	100.0
90-180	0	0.0	0.0
0-180	6641	70.3	100.0

Coefficient of Utilization

rc	80%			70%		50	50%		30%		10%			
rw	70	50	30	10	50	30	10	50	10	50	10	50	10	0
RCR														
0	84	84	84	84	82	82	82	78	78	75	75	72	72	70
1	77	74	71	69	73	70	68	70	66	67	64	64	62	60
2	71	66	61	58	64	60	57	62	56	60	54	58	53	52
3	65	58	53	49	57	52	49	55	48	53	47	52	46	45
4	60	52	47	42	51	46	42	50	41	48	41	47	40	39
5	56	47	41	37	46	41	37	45	36	44	36	42	36	34
6	51	43	37	32	42	36	32	41	32	40	32	39	32	30
7	48	39	33	29	38	33	29	37	29	36	28	35	28	27
8	45	36	30	26	35	30	26	34	26	33	26	32	25	24
9	42	33	27	23	32	27	23	31	23	31	23	30	23	22
10	39	30	25	21	30	25	21	29	21	28	21	28	21	20
								_						

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

CU Data Based on 20% Effective Floor Cavity Reflectance.

