

## VRS™ and DRS™ Enclosed and Gasketed Fluorescent Lighting Fixtures

Suitable for Use in Wet Locations.

32, 40 and 60 Watt Two and Three Lamp Fixtures.

### Applications: VRS™

- Enclosed and gasketed fixtures for use where vapors, moisture, dirt or corrosive atmospheres are encountered.
- Corrosion-resistant polyester powder coating protects against corrosive atmospheres.

### Applications: DRS™

- Dust-Ignition proof fixtures for use where ignitable amounts of dust are present from handling such products as grain, flour, sugar, starch and textiles.
- Suitable for use in Class II and III Division 1, classified areas.
- Corrosion-resistant finish prolongs fixture life and retains fixtures reflectivity longer.

### Features

- Choice of mountings: pendant and feed thru are standard, angle bars for chain suspension, or angle brackets (up to 45°) for wall or ceiling mounting.
- Thick 1/4" clear tempered glass lens protects against possible broken glass from lamps.
- VRS and DRS fixtures are supplied with the following ballast options:
  - Class P low energy (E) ballasts, equipped with an automatic thermally-activated protective device. They offer protection against excessive voltage, internal ballast short circuiting, inadequate lamp maintenance and improper fixture application.
  - 220 and 240 volt options in both 50 and 60 Hertz.
- High-temperature nickel cadmium battery has a life expectancy of 7 to 10 years.
- Battery charger indicator light and test switch are mounted inside the enclosure and visible through the clear lens.
- Heavy duty telescoping lampholders.
- Low operating cost provides more lumens per watt than mercury vapor or incandescent.
- Easy cleaning one-piece, seamless welded construction virtually eliminates dust and moisture accumulation.



### VRS™ Enclosed and Gasketed DRS™ Dust-Ignition proof

#### Standard Materials

- Reflector housings: 20-gauge steel.
- Door frame: 16 gauge steel with clear glass.
- Door clamps: heavy duty plated spring steel.
- Suspension hubs: 1/2" die cast aluminum.
- Lampholders: white urea plastic.
- Gaskets: **VRS** — neoprene;  
**DRS** — fiberglass.

#### Standard Finishes

- Reflector housings:  
**VRS** — white polyester powder coating;  
**DRS** — white polyester powder coating.
- Door frame: zinc electroplate.
- Door clamps, suspension hubs and lampholders: natural finish.

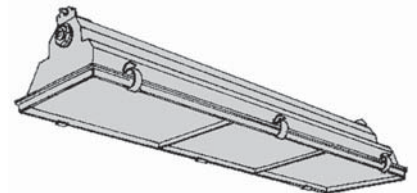
#### Options

- Individually fused ballast. Suffix -F.
- Emergency battery pack, Suffix -EL\*.
- Emergency Battery Pack capability in moments of power interruption. Luminaire automatically switches to emergency mode, keeping one lamp illuminated for a minimum of 90 minutes. When AC power is restored battery automatically recharges in 24 hrs.— Initial light output is 600-700 lumens.

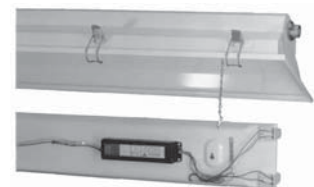
#### Compliances

- UL Standard 1598 and 844.
- UL 924 Emergency Lighting (-EL suffix).

\*Fixtures with emergency ballast are not recommended where the ambient temperature may fall below 0°C for extended periods.



Three plated steel latches on each side of door assure integrity of fixture for areas as classified.



Pan mounted ballast and sockets with safety chain provides quick, safe maintenance.

**VRS™ and DRS™ Enclosed and Gasketed Fluorescent Lighting Fixtures:  
Ordering Information and Technical Data**

**Ordering Information:** Order using Catalog Numbering Guide below or select Catalog Number from table on next page.  
**Catalog Numbering Guide for VRS and DRS Fluorescent Luminaires**

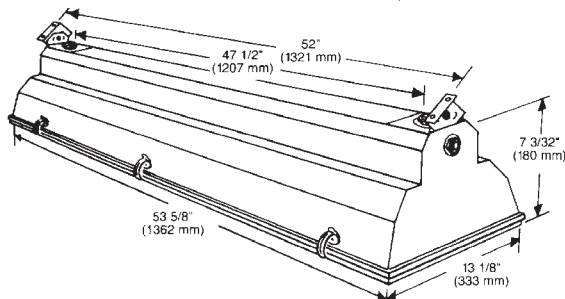
<p><b>VRS</b></p> <p>↓</p> <p><b>SERIES</b></p> <p>VRS- Vaportight DRS- Dust-Ignitionproof</p>	<p><b>2</b></p> <p>↓</p> <p><b>NUMBER OF LAMPS</b></p> <p>2- 2 Lamps 3- 3 Lamps</p>	<p><b>40</b></p> <p>↓</p> <p><b>LAMP TYPE:</b></p> <p>32- 32 Watt, T8 (Electronic) 40- 40 Watt, (Electronic) **60- 60 Watt, T12, HO 800 MA (48)</p>	<p><b>120N</b></p> <p>↓</p> <p><b>VOLTAGE</b></p> <p>120N- 120Volt 277N- 277 Volt ‡220N60- 220Volt, 60Hz ‡240N60- 240Volt, 60Hz ‡220N50- 220Volt, 50Hz ‡240N50- 240Volt, 50Hz</p>	<p><b>S0</b></p> <p>↓</p> <p><b>BALLAST TYPE‡:</b></p> <p>S0- Solid State Octic (32W, T8, Electronic) SS- Solid State (40W, T12, Electronic) CW- Cold Weather (32W, T8, Electronic)</p>	<p><b>EL</b></p> <p>↓</p> <p><b>OPTIONS</b></p> <p>*EL- Emergency battery Pack F- Fuse</p>
--	---	---	---	---	--

\* For 50 Hertz with Emergency Battery Pack, consult factory for certification.  
‡ No ballast type designation needed for fixtures of 220 or 240 voltage. Energy saving magnetic ballast (T-12) provided as a standard.  
\*\* CW suffix not needed for 60 Watt since -20° F starting provided as a standard.

**Technical Data:**  
**Thermal Performance of VRS™ and DRS™ Fixtures**

Fixture	Qty	Lamp Watt	Lamp Type	Ambient Temp °C	"T" Numbers	Hazardous Classification
VRS232	2	32	265MA-RS	40°	T-4A	Class I, Div. 2, Groups A, B, C, D
VRS332	3	32	265MA-RS	40°	T-4A	Class I, Div. 2, Groups A, B, C, D
VRS240	2	40	430MA-RS	40°	T-4A	Class I, Div. 2, Groups A, B, C, D
VRS340	3	40	430MA-RS	40°	T-4A	Class I, Div. 2, Groups A, B, C, D
VRS260	2	60	800MA-HO	25°	T-3C	Class I, Div. 2, Groups A, B, C, D
DRS232	2	32	265MA-RS	25°	T-6	Class II, Div. 1, 2 Groups F, G
DRS332	3	32	265MA-RS	25°	T-6	Class II, Div. 1, 2 Groups F, G
DRS240	2	40	430MA-RS	25°	T-4	Class II, Div. 1, 2 Groups F, G
DRS340	3	40	430MA-RS	25°	T-6	Class II, Div. 1, 2 Groups F, G
DRS260	2	60	800MA-HO	25°	T-6	Class II, Div. 1, 2 Groups F, G

**VAPOR – TIGHT ADJUSTABLE HANGER OR ALIGNER — IRON OUTLET PLUGS**



- Suitable for use in locations where equipment is exposed to the deteriorating effects of non-combustible atmospheres containing corrosive fumes, vapors, dust, smoke and/or moisture.
- Range of adjustment is 45 degrees. Two-piece ball type cast iron body; gasket sealed at the adjustable ball joint. Maximum overall length is 53-5/8 inches. Finish is baked white paint over electroplating.
- These iron plugs are for closing tapped outlets in explosion-proof boxes. Plugs are electroplated and finished in baked aluminum paint. A socket head is provided for square wrenches.

**VRS**  
Class I, Div. 2  
Groups A,B,C,D

**DRS**  
Class II, Div. 1 and 2  
Groups F,G  
Class III

## VRS™ and DRS™ Enclosed and Gasketed Fluorescent Lighting Fixtures

Suitable for Use in Wet Locations.  
32, 40 and 60 Watt Two and Three Lamp Fixtures.

**VRS™ 32 Watt, 40 Watt and 60 Watt Fixtures**  
Furnished with 1/4" Clear Tempered Glass Lens ①



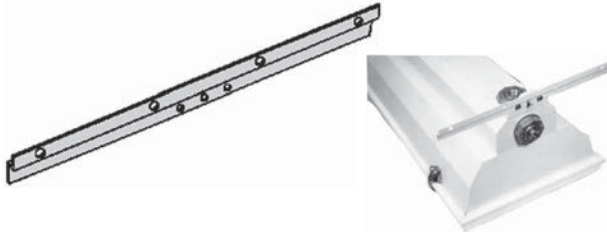
No. of Lamps ②	Lamp Watts	Lamp type	Hub Size Inches	Volts	Catalog Number Electronic Ballast
2	32 Watt	T-8	1/2	120V	VRS232-120NS0
2	32 Watt	T-8	1/2	277V	VRS232-277NS0
2	32 Watt	T-8	1/2	120V	VRS232-120NCW
2	32 Watt	T-8	1/2	277V	VRS232-277NCW
2	40 Watt	T-12	1/2	120V	VRS240-120NSS
2	40 Watt	T-12	1/2	277V	VRS240-277NSS
2	40 Watt	T-12	1/2	220V	VRS240-220N60
2	40 Watt	T-12	1/2	240V	VRS240-240N60
2	40 Watt	T-12	1/2	220V/50Hz	VRS240-220N50
2	40 Watt	T-12	1/2	240V/50Hz	VRS240-240N50
2	60 Watt	T-12	1/2	120V	VRS260-120N <sup>®</sup>
2	60 Watt	T-12	1/2	277V	VRS260-277N <sup>®</sup>
3	32 Watt	T-8	1/2	120V	VRS332-120NS0
3	32 Watt	T-8	1/2	277V	VRS332-277NS0
3	32 Watt	T-8	1/2	120V	VRS332-120NCW
3	32 Watt	T-8	1/2	277V	VRS332-277NCW
3	40 Watt	T-12	1/2	120V	VRS340-120NSS
3	40 Watt	T-12	1/2	277V	VRS340-277NSS
3	40 Watt	T-12	1/2	220V	VRS340-220N60
3	40 Watt	T-12	1/2	240V	VRS340-240N60
3	40 Watt	T-12	1/2	220V/50Hz	VRS340-220N50
3	40 Watt	T-12	1/2	240V/50Hz	VRS340-240N50

**DRS™ 32 Watt, 40 Watt and 60 Watt Fixtures**  
Furnished with 1/4" Clear Tempered Glass Lens

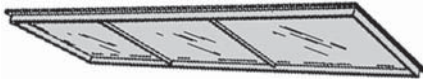
2	32 Watt	T-8	1/2	120V	DRS232-120NS0
2	32 Watt	T-8	1/2	277V	DRS232-277NS0
2	32 Watt	T-8	1/2	120V	DRS232-120NCW
2	32 Watt	T-8	1/2	277V	DRS232-277NCW
2	40 Watt	T-12	1/2	120V	DRS240-120NSS
2	40 Watt	T-12	1/2	277V	DRS240-277NSS
2	40 Watt	T-12	1/2	220V	DRS240-220N60
2	40 Watt	T-12	1/2	240V	DRS240-240N60
2	40 Watt	T-12	1/2	220V/50Hz	DRS240-220N50
2	40 Watt	T-12	1/2	240V/50Hz	DRS240-240N50
2	60 Watt	T-12	1/2	120V	DRS260-120N <sup>®</sup>
2	60 Watt	T-12	1/2	277V	DRS260-277N <sup>®</sup>
3	32 Watt	T-8	1/2	120V	DRS332-120NS0
3	32 Watt	T-8	1/2	277V	DRS332-277NS0
3	32 Watt	T-8	1/2	120V	DRS332-120NCW
3	32 Watt	T-8	1/2	277V	DRS332-277NCW
3	40 Watt	T-12	1/2	120V	DRS340-120NSS
3	40 Watt	T-12	1/2	277V	DRS340-277NSS
3	40 Watt	T-12	1/2	220V	DRS340-220N60
3	40 Watt	T-12	1/2	240V	DRS340-240N60
3	40 Watt	T-12	1/2	220V/50Hz	DRS340-220N50
3	40 Watt	T-12	1/2	240V/50Hz	DRS340-240N50

① Consult Factory for clear high impact acrylic lens. UL Listed for Class I, Div. 2 Groups. A,B,C, and D suitable for use in locations exposed to moisture or non-combustible gases. ② Lamps not furnished with fixture. ③ Low temperature ballast (-20° F Starting) provided as standard. ④ Cold weather ballast (-0° F Starting) provided as standard. OPTIONS: Add suffix -F for individually fused ballast. — Add suffix -EL for emergency battery pack. (For 50Hz with -EL suffix, consult factory for certifications.)

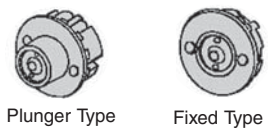
**VRS™ and DRS™ Fluorescent Lighting:  
Mounting Accessories and Replacement Parts**

		Description	Catalog Number
		<b>45° Adjustable Brackets</b> Two "L-type" brackets with gaskets—adjustable to 45° in 5° increments for "custom" illumination spread	<b>DR-KHN</b>
			<b>45° Fixed Mounting Brackets</b> Two "L-type" brackets with gaskets for wall or ceiling mounting—provides wide-spread illumination
		<b>Angle Bars</b> Two heavy duty bars with holes for chain suspension of fixtures	<b>DR-CXN</b>

**Replacement Parts**

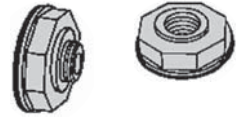
	Description	Catalog Number
	Lens and door frame	<b>VRSLENS</b>
	Lens and door frame	<b>DRSLENS</b>

**Sockets – Lampholders**



32 and 40 Watt Fixed end lampholder (Med. Bi-pin)	<b>VRS-DRS40SSOC</b>
32 and 40 Watt Plunger end lampholder (Med. Bi-pin)	<b>VRS-DRS40CSOC</b>
60 Watt Fixed end lampholder (High Output)	<b>VRS-DRS60SSOC</b>
60 Watt Plunger end lampholder (High Output)	<b>VRS-DRS60CSOC</b>
*Each lamp has a Fixed and Plunger Lampholder	

**Hubs**



Side/Top suspension hubs	<b>VRSHUB</b>
	<b>DRSHUB</b>

**VRS™ and DRS™ Fluorescent Lighting Fixtures Photometrics**

• Lamps = F40 ES • Ballast = ESB • Input Watts = 75 • Ballast Factor - .88 • LER = 44

**CANDLEPOWER**

Angle	End	45	Cross
0	1335	1335	1335
5	1336	1334	1327
10	1319	1323	1319
15	1293	1304	1310
20	1257	1276	1287
25	1206	1237	1242
30	1143	1181	1186
35	1074	1112	1128
40	996	1035	1036
45	907	952	914
50	802	838	785
55	691	703	665
60	570	565	574
65	434	441	434
70	300	314	236
75	172	146	105
80	72	57	47
85	24	20	11

**MAINTAINED ILLUMINATION TABLE**

• Square Feet / Fixture\*.  
 • 80 - 50 - 20 Reflectance (Ceiling-Wall-Floor).  
 • LLF = 0.73 2650 Lumens/Lamp Very Clean.  
 • Room width divided by room height = 5 or more, 2 or 1.

Fixture Size & # of Lamps	Room Width Room Height =	Approx. Area (sq. ft.) per Fixture				
		10 ft-c	30 ft-c	50 ft-c	70 ft-c	100 ft-c
4 ft.	5	—	95	57	41	—
2-Lamp	2	—	65	39	—	—
—	1	142	47	88	63	44

\*Observe Fixture S/MH Requirements for Specific Applications

**COEFFICIENT OF UTILIZATION**

pfc	20										
	90				70				50		
pcc	pw	RCR	70	50	30	70	50	30	50	30	
			0	82	82	81	81	81	78	78	
1	77	73	70	75	71	69	68	67			
2	69	65	59	68	63	58	60	56			
3	64	56	52	61	56	51	54	50			
4	58	51	45	56	50	44	47	42			
5	54	45	39	53	44	39	42	38			
6	50	40	34	48	40	34	39	34			
7	46	36	30	45	35	30	34	29			
8	42	34	28	41	33	28	32	27			
9	40	30	25	39	29	25	29	25			
10	38	28	23	36	28	23	27	23			

**TYPICAL V.C.P.'S**      **AVERAGE LUMINANCE**  
**CD/SQ.M WITH 2650**  
**LUMEN LAMPS**

Room Size	Mounting Height		Angle	End	45°	Cross
	Lengthwise	Crosswise				
30x30	60	60	63	63	45	3001 3150 3024
40x40	63	61	67	65	55	2818 2867 2712
60x30	66	65	68	67	65	2403 2441 2403
60x60	65	63	70	67	75	1555 1320 949
100x100	70	68	75	72	85	644 537 295

**LIGHT DISTRIBUTION**

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	1062	20.0	28.6
0-40	1756	33.1	47.3
0-60	3092	58.3	83.3
0-90	3714	70.1	100.0

• LLF = .77 • LLF = LIGHT LOSS FACTOR • LLF = LDD X LLD X BF • LDD = VERY CLEAN 0.94, CLEAN 0.88  
 • LLD = 0.88 @ 40% RATED LAMP LIFE • BF = 0.88 ESD BALLAST & 34W LAMP (RELAMP At 70% LAMP LIFE)

• Lamps = F32T8 • Ballast = Electronic • Input Watts = 60 • Ballast Factor - .92 • LER = 65

**CANDLEPOWER**

Angle	End	45	Cross
0	1534	1534	1534
5	1531	1534	1526
10	1512	1521	1514
15	1481	1494	1499
20	1438	1461	1477
25	1381	1420	1435
30	1314	1364	1368
35	1232	1287	1301
40	1140	1198	1219
45	1038	1097	1050
50	921	981	857
55	795	794	748
60	652	615	650
65	498	496	514
70	339	364	267
75	194	176	128
80	86	68	54
85	28	23	12

**MAINTAINED ILLUMINATION TABLE**

• Square Feet / Fixture\*.  
 • 80 - 50 - 20 Reflectance (Ceiling-Wall-Floor).  
 • LLF = 0.73 2650 Lumens/Lamp Very Clean.  
 • Room width divided by room height = 5 or more, 2 or 1.

Fixture Size & # of Lamps	Room Width Room Height =	Approx. Area (sq. ft.) per Fixture				
		10 ft-c	30 ft-c	50 ft-c	70 ft-c	100 ft-c
4 ft.	5	—	114	68	49	34
2-Lamp	2	—	78	47	33	—
—	1	—	57	34	—	—

\*Observe Fixture S/MH Requirements for Specific Applications

**COEFFICIENT OF UTILIZATION**

pfc	20										
	90				70				50		
pcc	pw	RCR	70	50	30	70	50	30	50	30	
			0	86	86	86	84	84	84	81	81
1	81	77	73	79	76	72	72	69			
2	73	68	63	71	66	61	64	59			
3	67	59	54	65	56	53	56	52			
4	61	53	46	59	52	46	50	45			
5	56	46	40	55	46	40	45	40			
6	52	42	35	51	41	35	40	34			
7	47	39	32	46	38	32	36	32			
8	45	34	28	44	34	28	34	28			
9	41	32	26	40	32	26	30	26			
10	39	29	23	39	28	23	28	23			

**TYPICAL V.C.P.'S**      **AVERAGE LUMINANCE**  
**CD/SQ.M WITH 2650**  
**LUMEN LAMPS**

Room Size	Mounting Height		Angle	End	45°	Cross
	Lengthwise	Crosswise				
30x30	57	57	60	59	45	3434 3630 3474
40x40	59	58	63	61	55	3243 3239 3051
60x30	63	62	65	63	65	2403 2746 2845
60x60	62	59	66	63	75	1754 1591 1157
100x100	67	64	72	69	85	752 617 322

**LIGHT DISTRIBUTION**

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	1219	21.0	28.6
0-40	2018	34.8	47.3
0-60	3545	61.1	83.3
0-90	4261	73.5	100.0

• LLF = .76 • LLF = LIGHT LOSS FACTOR • LLF = LDD X LLD X BF • LDD = VERY CLEAN 0.94, CLEAN 0.88  
 • LLD = 0.88 @ 40% RATED LAMP LIFE • BF = 0.92 ELECTRONIC BALLAST & T8 LAMP (RELAMP At 70% LAMP LIFE)