200-400W

For medium and high mounting heights

Cl. I, Div. 2, Groups A, B, C, D Restricted Breathing Cl. I, Div. 2 & Zone 2 (with suffix S826) Certified for IEC Zone 2 (with

suffix S826TB)

Cl. II, Groups E, F, G Cl. III & Simultaneous Presence (with glass refractor) Marine (with globe or glass refractor) & Wet Locations 3. 3R. 4. 4X: IP66

Options:

Description Suffix Restricted breathing construction .. \$826@ Class I, Division 2 & Zone 2 suitability

Cooler operating temperatures (T-codes)

- Certified for IEC Zone 2......S826TBA Furnished with terminal block, crimp terminals and dedicated voltage ballasts (no MT, DT or TT)
- Fused to protect ballast and capacitors against abnormal line conditions \$658@ Not available with MT ballast Not for use in Canada Not suitable for marine applications
- Quick-Clip holds weight of housing when closed; no need to support luminaire while screwing the housing to the cover \$890
- Ballast-Gard starter cut-out switch prevents starter pulsing when lamp is cycling or inoperative; prolongs ballast and ignitor life.....BG Available for use with 200-400W HPS only
- Quartz auxiliary lighting comes to full brightness immediately and remains lit until the HID lamp attains 60-70% of full illumination......QTZ For non-hazardous locations only QTZ lamp not included; use 100W single-ended lamp – Q100DC, Q100CL/DC or 100Q/CL/DC Consult factory for top hat limitations
- Stainless steel insert top hat with stainless steel threaded insert to attach
- Factory assembled with HID lamps installed for additional labor savings.....FA

Photometrics:

· Refer to www.eaton.com (under the Resources tab of each product family) for specific photometric IES files

Applications:

Champ® VMV high wattage HID luminaires are used:

- In manufacturing plants, refineries, chemical, petrochemical and other industrial process facilities, waste or sewage treatment facilities and other heavy industrial applications
- · In applications where energy-efficient, high lumen output is required
- In areas in which ignitable concentrations of flammable gases or vapors will be present only due to abnormal, unusual or accidental conditions
- In marine applications where water spray and corrosive atmospheres are considerations
- In elevated ambient temperatures often found in industrial applications
- · In installations where moisture, dirt, dust, vibration, corrosion and rough usage are problems
- · Wherever the damaging effects of water, wind, snow, sleet, hot sun or any combination of these elements, are problematic

Features:

- Cast copper-free aluminum construction (less than 0.4 of 1% copper) and epoxy powder finish provide excellent resistance to corrosion
- · Hinged ballast housing for ease of installation and maintenance
- Wide choice of photometric distributions; glass globes, glass refractors and reflector/lens are available
- All luminaires designed to perform in a 40°C ambient temperature; selected luminaires are suitable for ambient temperatures up to 65°C
- · Superior gasketing seals between the mounting module, housing and optical assembly for optimum performance in wet and corrosive environments
- · Hubs with integral conduit stop and bushing to help prevent damage to field wiring during installation
- Low ambient capability to (-40°C)
- Dome and 30° angle reflectors made of bright white Krydon material and etched Alzak® high bay reflectors provide superior reflectivity
- Grounding wire for safety
- High power factor ballasts (min. P. F. 90%) are available in a variety of voltages to meet local area requirements
- · Mogul base lamp socket



Certifications and compliances:

NEC/CEC:

- · Class I, Division 2, Groups A, B, C, D
- With glass refractor Class II, Class III & Simultaneous Presence (Class I, Division 2 and Class II)
- · Class I, Zone 2

· Zone 2. Ex nR IIC

UL standards:

- UL844 Hazardous (Classified) Locations
- UL1598 Luminaires
- UL1598A Marine Locations

CSA standard:

C22.2 No. 137

IEC standard:

• 60079-15

Standard materials:

- Ballast housings and mountings copperfree aluminum (less than 0.4 of 1%)
- Exterior hardware and guards stainless steel
- Reflectors (dome and angle) Krydon fiberglass-reinforced polyester
- Globes heat- and impact-resistant internally fluted glass
- Reflector lens spun Alzak aluminum, tempered glass, stainless steel door frame

Standard finishes:

- Copper-free aluminum epoxy powder coat
- Alzak aluminum natural
- Krydon high reflectance white
- Stainless steel natural

Electrical ratings:

- 120-600 volts and multi-tap
- 200, 250, 400W HPS and MH

A Cannot be used with GRD4 reflector/lens.

BWhen ordering fuses for luminaires, you must specify the operating voltage. S658 cannot be ordered with /MT in the catalog number.

Alzak® is a registered trademark of ALCOA

200-400W high pressure sodium For medium and high mounting heights

Cl. I, Div. 2, Groups A, B, C, D Restricted Breathing Cl. I, Div. 2 & Zone 2 (with suffix S826) Certified for IEC Zone 2 (with CI. II, Groups E, F, G
CI. III & Simultaneous Presence
(with glass refractor)
Marine (with globe or glass
refractor) & Wet Locations
3, 3R, 4, 4X; IP56 to IP66

To complete the catalog number, include information in Notes 1 and 2 below. For guards and other optics, see VMV high wattage – ordering by components page.

BASIC CATALOG NUMBER

suffix S826TB)

1.1	Mounting style	Hub size	Lamp watts	With G303 globe and P33 guard	With GR305 glass refractor G	With GRD4 reflector / lens
	Pendant mount	3/4"	200	VMVS2A200GP	VMVS2A200GR305	VMVS2A200GRD4
	(rigid or flexible)	1"	200	VMVS3A200GP	VMVS3A200GR305	VMVS3A200GRD4
100	,	3/4"	250	VMVS2A250GP	VMVS2A250GR305	VMVS2A250GRD4
		1"	200	VMVS3A250GP	VMVS3A250GR305	VMVS3A250GRD4
		3/ ₄ "	— 400	VMVS2A400GP	VMVS2A400GR305	VMVS2A400GRD4
		1"		VMVS3A400GP	VMVS3A400GR305	VMVS3A400GRD4
		2/"		\/B#\/0000000D	\/##\/0000000D005	\/##\/0000000DD4
	Ceiling mount	³ / ₄ " 1"	200	VMVS2C200GP VMVS3C200GP	VMVS2C200GR305 VMVS3C200GR305	VMVS2C200GRD4 VMVS3C200GRD4
	through feed	3/4"		VMVS3C200GP VMVS2C250GP	VMVS2C250GR305	VMVS3C200GRD4 VMVS2C250GRD4
- 250		1"	250	VMVS3C250GP	VMVS3C250GR305	VMVS3C250GRD4
		3/4"		VMVS2C400GP	VMVS2C400GR305	VMVS2C400GRD4
		1"	400	VMVS3C400GP	VMVS3C400GR305	VMVS3C400GRD4
				VIIIVOSOTIOGI	VIII V 030400 G11303	VIIIVOSOFIUGIISF
10.1	Wall mount	3/4"	200	VMVS2TW200GP	VMVS2TW200GR305	
	through feed	1"	200	VMVS3TW200GP	VMVS3TW200GR305	
	an ough roou	3/4"	250	VMVS2TW250GP	VMVS2TW250GR305	
250		1"	230	VMVS3TW250GP	VMVS3TW250GR305	
		3/4"	400	VMVS2TW400GP	VMVS2TW400GR305	
		1"	400	VMVS3TW400GP	VMVS3TW400GR305	
	Quad mount	3/4"	200	VMVS25Q200GP	VMVS25Q200GR305	VMVS25Q200GRD4
in the state of th	Pendant, adjustable through feed, 25° angle,	3/4"	250	VMVS25Q250GP	VMVS25Q250GR305	VMVS25Q250GRD4
	121/2° angle	3/4"	400	VMVS25Q400GP	VMVS25Q400GR305	VMVS25Q400GRD4
	Stanchion mount	11/2"	200	VMVSJ200GP	VMVSJ200GR305	VMVSJ200GRD4
	25° angle	11/2"	250	VMVSJ250GP	VMVSJ250GR305	VMVSJ250GRD4
		11/2"	400	VMVSJ400GP	VMVSJ400GR305	VMVSJ400GRD4
	Stanchion mount	11/2"	200	VMVSP200GP	VMVSP200GR305	
	Straight	11/2"	250	VMVSP250GP	VMVSP250GR305	
	GFor GR302 Type II refract	1½" ctor, change 'GR30 cr. change (GR30	400 305' at end of catalog	VMVSP400GP log number to 'GR302.' Example: VM a number to 'GR303.' Example: VM	VMVSP400GR305 MVS2A200GR302. VS2A200GR303	

1. Add voltage suffix to end of catalog number.

Standard voltage ballasts – 60 Hz

	NEC/UL	CEC/CS/	CEC/CSA (cUL)		
Voltage	Multi-tap	120V	480V	Tri-tap	120V
Suffix	/MT	/120	/480	/TT	/120

Optional voltage ballasts - 50 or 60 Hz

	CEC/CSA (CUL) - CWI isolated ballasts				Export			
Voltage	208V CWI	240V CWI	480V CWI	600V CWI	220V 60 Hz	220V 50 Hz	230V 50 Hz	240V 50 Hz
Suffix	/208 CWI	/240 CWI	/480 CWI	/600 CWI	/220	/220 50	/230 50	/240 50

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^{2.} Options: Add the required option suffixes in alphanumeric order.

250-400W pulse start metal halide For medium and high mounting heights Cl. I, Div. 2, Groups A, B, C, D Restricted Breathing Cl. I, Div. 2 & Zone 2 (with suffix S826) Certified for IEC Zone 2 (with suffix S826TB) CI. II, Groups E, F, G
CI. III & Simultaneous Presence
(with glass refractor)
Marine (with globe or glass
refractor) & Wet Locations
3, 3R, 4, 4X; IP56 to IP66

To complete the catalog number, include information in Notes 1 and 2 below. For guards and other optics, see VMV high wattage – ordering by components page.

BASIC CATALOG NUMBER

components page.				BASIC CATALOG NUMBE	R	
	Mounting style	Hub size	Lamp watts	Cat. # With G303 globe and P33 guard	Cat. # With GR305 glass refractor ©	Cat. # With GRD4 reflector / lens
	Pendant mount	3/4"	250	VMVM2A250GP S828	VMVM2A250GR305 S828	VMVM2A250GRD4 S828
289	(rigid or flexible)	1"	230	VMVM3A250GP S828	VMVM3A250GR305 S828	VMVM3A250GRD4 S828
	-	3/4"	320	VMVM2A320GP S828	VMVM2A320GR305 S828	VMVM2A320GRD4 S828
		1"		VMVM3A320GP S828	VMVM3A320GR305 S828	VMVM3A320GRD4 S828
		3/4"	400€	VMVM2A400GP S828 VMVM3A400GP S828	VMVM2A400GR305 S828 VMVM3A400GR305 S828	VMVM2A400GRD4 S828 VMVM3A400GRD4 S828
				VIVIVIVISA400GF 3020	VIVIVIISA400GR303 3020	VIVIVIISA400GND4 3020
\$ LJ @	Ceiling mount	3/4"	250	VMVM2C250GP S828	VMVM2C250GR305 S828	VMVM2C250GRD4 S828
	through feed	1"	250	VMVM3C250GP S828	VMVM3C250GR305 S828	VMVM3C250GRD4 S828
ov TE	till ought 100u	3/4"	320	VMVM2C320GP S828	VMVM2C320GR305 S828	VMVM2C320GRD4 S828
250		1"	320	VMVM3C320GP S828	VMVM3C320GR305 S828	VMVM3C320GRD4 S828
		3/4"	400€	VMVM2C400GP S828	VMVM2C400GR305 S828	VMVM2C400GRD4 S828
		1"	1000	VMVM3C400GP S828	VMVM3C400GR305 S828	VMVM3C400GRD4 S828
0	Wall mount through feed	3/ ₄ "	250	VMVM2TW250GP S828	VMVM2TW250GR305 S828	
		3/"		VMVM3TW250GP S828	VMVM3TW250GR305 S828	
250		1"	320	VMVM2TW320GP S828 VMVM3TW320GP S828	VMVM2TW320GR305 S828 VMVM3TW320GR305 S828	
1000		3/4"		VMVM2TW400GP S828	VMVM2TW400GR305 S828	
		1"	400€	VMVM3TW400GP S828	VMVM3TW400GR305 S828	
	Quad mount	3/4"	250	VMVM25Q250GP S828	VMVM25Q250GR305 S828	VMVM25Q250GRD4 S828
hrim	Pendant, adjustable through feed, 25° angle,	3/4"	320	VMVM25Q320GP S828	VMVM25Q320GR305 S828	VMVM25Q320GRD4 S828
	12 ¹ / ₂ ° angle	3/4"	400€	VMVM25Q400GP S828	VMVM25Q400GR305 S828	VMVM25Q400GRD4 S828
	Stanchion mount	11/2"	250	VMVMJ250GP S828	VMVMJ250GR305 S828	VMVMJ250GRD4 S828
	25° angle	11/2"	320	VMVMJ320GP S828	VMVMJ320GR305 S828	VMVMJ320GRD4 S828
		11/2"	400 ©	VMVMJ400GP S828	VMVMJ400GR305 S828	VMVMJ400GRD4 S828



Stanchion mount	11/2"	250	VMVMP250GP S828	VMVMP250GR305 S828
Straight	11/2"	320	VMVMP320GP S828	VMVMP320GR305 S828
	11/2"	400€	VMVMP400GP S828	VMVMP400GR305 S828

• For GR302 Type II refractor, change 'GR305' at end of catalog number to 'GR302.' Example: VMVM2A250GR302 S828. For GR303 Type III refractor, change 'GR305' at end of catalog number to 'GR303.' Example: VMVM2A250GR303 S828.

1. Add voltage suffix to end of catalog number.

Standard voltage ballasts – 60 Hz

	NEC/UL	CEC/CSA (CEC/CSA (cUL)		
Voltage	Multi-tap	120V	480V	Tri-tap	120V
Suffix	/MT	/120	/480	/TT	/120

Optional voltage ballasts - 50 or 60 Hz

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To be used with ED28 (bulb shaped lamp).

^{2.} Options: Add the required option suffixes in alphanumeric order.

250-400W metal halide For medium and high mounting heights Cl. I, Div. 2, Groups A, B, C, D Restricted Breathing Cl. I, Div. 2 & Zone 2 (with suffix S826) Certified for IEC Zone 2 (with CI. II, Groups E, F, G
CI. III & Simultaneous Presence
(with glass refractor)
Marine (with globe or glass
refractor) & Wet Locations
3, 3R, 4, 4X; IP56 to IP66

To complete the catalog number, include information in Notes 1 and 2 below. For guards and other optics, see VMV high wattage – ordering by components page.

BASIC CATALOG NUMBER

suffix S826TB)

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7-3 6-1 28 35	1
E .	

Mounting style	Hub size	Lamp watts	Cat. # With G303 globe and P33 guard	Cat. # With GR305 glass refractor	Cat. # With GRD4 reflector / lens
Pendant mount	3/4"	250	VMVM2A250GP	VMVM2A250GR305	VMVM2A250GRD4
(rigid or flexible)	1"	230	VMVM3A250GP	VMVM3A250GR305	VMVM3A250GRD4
(rigid or rioxible)	3/4"	400	-	VMVM2A400GR305	VMVM2A400GRD4
	1"	400	-	VMVM3A400GR305	VMVM3A400GRD4



Ceiling mount	3/4"	250	VMVM2C250GP	VMVM2C250GR305	VMVM2C250GRD4
through feed	1"	230	VMVM3C250GP	VMVM3C250GR305	VMVM3C250GRD4
an oagii rooa	3/4"	400	_	VMVM2C400GR305	VMVM2C400GRD4
	1"	400	_	VMVM3C400GR305	VMVM3C400GRD4



Wall mount	3/4"	- 250	VMVM2TW250GP	VMVM2TW250GR305
through feed	1"	200	VMVM3TW250GP	VMVM3TW250GR305
	3/4"	- 400 	_	VMVM2TW400GR305
	1"		_	VMVM3TW400GR305



Quad mount Pendant, adjustable	3/4"	250	VMVM25Q250GP	VMVM25Q250GR305	VMVM25Q250GRD4
through feed, 25° angle, 12¹/₂° angle	3/4"	400	-	VMVM25Q400GR305	VMVM25Q400GRD4



Stanchion mount	11/2"	250	VMVMJ250GP	VMVMJ250GR305	VMVMJ250GRD4
25° angle	11/2"	400	-	VMVMJ400GR305	VMVMJ400GRD4



Stanchion mount	11/2"	250	VMVMP250GP	VMVMP250GR305	
Straight	11/2"	400	-	VMVMP400GR305	

• For GR302 Type II refractor, change 'GR305' at end of catalog number to 'GR302.' Example: VMVM2A250GR302. For GR303 Type III refractor, change 'GR305' at end of catalog number to 'GR303.' Example: VMVM2A250GR303.

1. Add voltage suffix to end of catalog number.

Standard voltage ballasts – 60 Hz

	NEC/UL			CEC/CS/	A (cUL)
Voltage	Multi-tap	120V	480V	Tri-tap	120V
Suffix	/MT	/120	/480	/TT	/120

Optional voltage ballasts - 50 or 60 Hz

	CEC/CSA (CC	JL) – CWI ISOIA	ted ballasts	Export					
Voltage	208V CWI	240V CWI	600V CWI	220V 60 Hz	220V 50 Hz	230V 50 Hz	240V 50 Hz		
Suffix	/208 CWI	/240 CWI	/600 CWI	/220	/220 50	/230 50	/240 50		

^{2.} Options: Add the required option suffixes in alphanumeric order.

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Champ VMV high wattage HID luminaires

Ordering by components

Cl. I, Div. 2, Groups A, B, C, D Restricted Breathing Cl. I, Div. 2 & Zone 2 (with suffix S826) Certified for IEC Zone 2 (with suffix S826TB) CI. II, Groups E, F, G
CI. III & Simultaneous Presence
(with glass refractor)
Marine (with globe or glass
refractor) & Wet Locations
3. 3R. 4. 4X: IP66

VMV high wattage luminaires are available in components.

A complete luminaire consists of:

- I. Champ cover (mounting module)
- II. VMV ballast housing include voltage and required option(s)
- III. Globe, guard, reflector, refractor

I. Champ cover (mounting module):

Туре	Conduit size	Cat. #
Pendant mount	3/4"	APM2
rendant mount	1"	APM3
C-:Ii:	3/4"	CM2
Ceiling mount	1"	CM3
Wall mount	3/4"	TWM2
vvan mount	1"	TWM3
Stanchion mount – 25° angle	11/2"	JM5
Stanchion mount – straight	11/2"	PM5
Quad mount	3/4"	QM25

II. Ballast housings:

Complete catalog number must have the voltage suffix (MT shown) and any options suffixes.

Lamp type	Lamp watts	Cat. #
	200	VMVS200/MT
High pressure sodium	250	VMVS250/MT
	400	VMVS400/MT
Metal halide	250	VMVM250/MT
ivietai fiallue	400	VMVM400/MT

III. Globe, guards, reflectors, refractors:

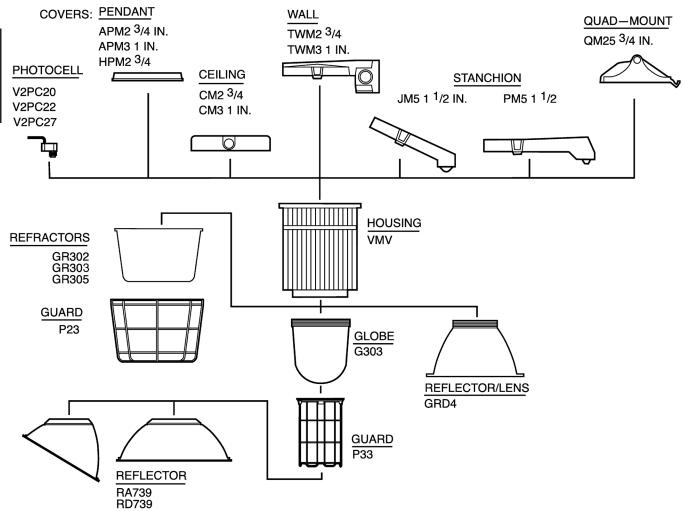
Туре	Cat. #
Globe	G303
Globe guard	P33
Reflector – dome	RD739
Reflector – angle	RA739
Refractor – Type II	GR302
Refractor – Type III	GR303
Refractor – Type V	GR305
Refractor guard	P23
High bay reflector/lens	GRD4

Cl. I, Div. 2, Groups A, B, C, D Restricted Breathing Cl. I, Div. 2 & Zone 2 (with suffix S826) Certified for IEC Zone 2 (with

suffix S826TB)

CI. II, Groups E, F, G
CI. III & Simultaneous Presence
(with glass refractor)
Marine (with globe or glass
refractor) & Wet Locations
3. 3R. 4. 4X: IP66

Family tree:



Cl. I, Div. 2, Groups A, B, C, D Restricted Breathing Cl. I, Div. 2 & Zone 2 (with suffix S826) Certified for IEC Zone 2 (with suffix S826TB) CI. II, Groups E, F, G
CI. III & Simultaneous Presence
(with glass refractor)
Marine (with globe or glass
refractor) & Wet Locations
3, 3R, 4, 4X; IP66

Temperature performance data:

Lamp Watts	Ambient Temp C	Optics		Class I (Gas/Vapors)			(E	ass II Just) and ass III		Pres Gas and Du	aneous sence ust Presen me Area	t in	Supp Wire Tem C	e	
				Non estricte eathir			ricted thing				Non Restricted Breathing	1	ricted thing		
						Ex nR						Ex	nR		
			1	andar roduc	-	Option S826(TB)			ndard oduct		Standard Product		tion 326		
			Di	vision	2		2 or iion 2		ndard oduct		Class I, Division 2 and Class II	or Div	Zone 2 ision 2 nd ss II		
		G303	х	-	_	Х	_		-	Г	_		_		
		GR305	_	Х	- 1	_	Х		Х		Х	7	X		
		GRD4	_	-	Х	_	_		_		_		_		

High pressure sodium

	40	325°C 350°C T2	T3	T4	T3C	T1 / T3C	T3C	75
200	55	325°C 350°C T2	T3	T4	_	_	_	75
	65	325°C 350°C T2	T3	_	_	_	_	85
	40	350°C 350°C 325°C	T3	T4	T3C	T1 / T3C	T3C	75
250	55	350°C 350°C 350°C	T3	T4			_	85
	65	350°C 350°C -	T3	_	_	_	_	_
400	40	350°C 350°C T1	T3	T4	T3C	T1 / T3C	T3C	85
400	55	350°C 350°C T1	T3	T4	_	_	_	90

Metal halide

200	40	350°C 325°C 350	°C T3	T4	T3B	350°C / T3B	T3B	85
200	55	350°C 350°C 350	°C T3	T4	-	-	_	90
250	40	350°C 325°C 350	°C T3	T4	T3B	350°C / T3B	T3B	85
250	55	350°C 350°C 350	°C T3	T4	_	-	-	90
400	40	- 325°C T1	_	T4	T3B	350°C / T3B	T3B	85
400	55	- 350°C T1	_	_	_	_	_	_

Pulse start metal halide (S828)

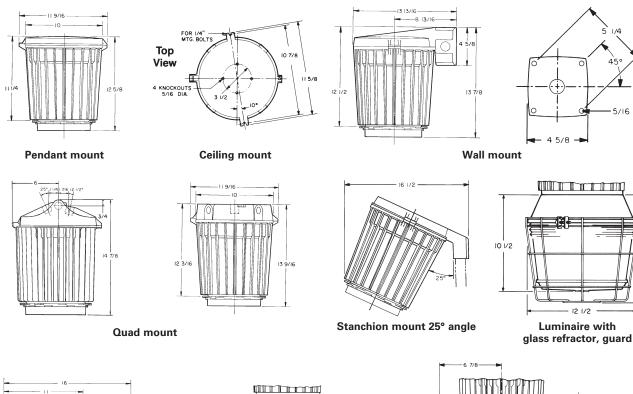
250	40	350°C 350°C 32	25°C T3	T4	T3B	350°C / T3B	T3B	85
230	55	350°C 350°C 35	50°C T3	T4	_	_	_	90
320	40	T1 325°C 1	T2A T3	_	_		_	90
400	40	T1 T1	T1 T3	T4	-	-	_	90

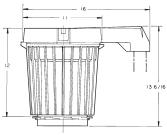
Cl. I, Div. 2, Groups A, B, C, D Restricted Breathing Cl. I, Div. 2 & Zone 2 (with suffix S826) Certified for IEC Zone 2 (with

suffix S826TB)

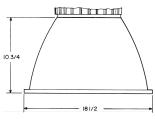
CI. II, Groups E, F, G
CI. III & Simultaneous Presence
(with glass refractor)
Marine (with globe or glass
refractor) & Wet Locations
3, 3R, 4, 4X; IP66

Dimensions (in inches):

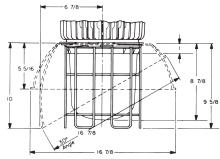




Stanchion mount straight



Luminaire with etched Alzak reflector/lens



Luminaire with globe, guard, reflectors

Net luminaire weights:

Luminaire series	Lamp watts	Luminaire with globe, guard (lbs.)	Luminaire with reflector / lens (lbs.)	Luminaire with glass refractor (lbs.)
	200	29.50	30.00	32.50
VMVS	250	29.50	30.00	32.50
	400	38.50	39.00	41.50
	250	32.50	33.00	35.75
VMVM	320	33.00	34.00	35.50
	400	_	34.00	35.50

Туре	Weight (lbs.)	Туре	Weight (lbs.)
Add mounting	modules:		
Pendant	1.25	Quad	3.50
Ceiling	2.75	Stanchion 25° angle	3.50
Wall	4.50	Stanchion straight	4.50
Add reflectors:			
Dome	1.50	30° angle	1.50
High hay	1 75		

Deduct: 1.50 lbs. for fixture without P33 guard

