200-400W

For medium and high mounting heights

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



Cl. I, Div. 2, Groups A, B, C, D

Restricted Breathing CI. I,

S826)

suffix S826TB)

Div. 2 & Zone 2 (with suffix

Certified for IEC Zone 2 (with

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

IEC:

• 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
- Refractors 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

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

- Restricted breathing construction ... S826 Class I, Division 2 & Zone 2 suitability Cooler operating temperatures (T-codes)
- Fused to protect ballast and capacitors against abnormal line conditions S658 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.... S890
- 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

QTZ lamp not included; use 100W single-ended lamp – Q100DC, Q100CL/DC or 100Q/CL/DC Consult factory for top hat limitations

- Factory assembled with HID lamps installed for additional labor savings......FA

Accessories:

• See pages 216-217 for complete listing

Photometrics:

• Complete photometrics can be found at www.crouse-hinds.com/photometrics

Cannot be used with GRD4 reflector/lens.

OWhen 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

Suffix

Champ VMV high wattage HID luminaires 200-400W high pressure sodium

For medium and high mounting heights

Mounting style

Pendant mount

(rigid or flexible)

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)

Cat. #

P33 guard

VMVS2A200GP

VMVS3A200GP

VMVS2A250GP

VMVS3A250GP

VMVS2A400GP

VMVS3A400GP

With G303 globe and

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; IP56 to IP66

> Cat. # With GRD4

reflector / lens

VMVS2A200GRD4

VMVS3A200GRD4

VMVS2A250GRD4

VMVS3A250GRD4

VMVS2A400GRD4

VMVS3A400GRD4

Cat. # With GR305 glass

VMVS2A200GR305

VMVS3A200GR305

VMVS2A250GR305

VMVS3A250GB305

VMVS2A400GR305

VMVS3A400GR305

refractor**G**

3L

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

Lamp

watts

200

250

400

Hub

size

1

3/4



		100 a 1000 100	
	-		
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	Ł		5
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1		255	Ш



Ceiling mount	3/4"	200	VMVS2C200GP	VMVS2C200GR305	VMVS2C200GRD4
hrough feed	1″	200	VMVS3C200GP	VMVS3C200GR305	VMVS3C200GRD4
iniough toou	3/4"	250	VMVS2C250GP	VMVS2C250GR305	VMVS2C250GRD4
	1″	230	VMVS3C250GP	VMVS3C250GR305	VMVS3C250GRD4
	3/4″	400	VMVS2C400GP	VMVS2C400GR305	VMVS2C400GRD4
	1″	400	VMVS3C400GP	VMVS3C400GR305	VMVS3C400GRD4
Nall mount	3/4"	000	VMVS2TW200GP	VMVS2TW200GR305	
hrough feed	1″	200	VMVS3TW200GP	VMVS3TW200GR305	
liougii ieeu	3/4"	250	VMVS2TW250GP	VMVS2TW250GR305	
	1″	250	VMVS3TW250GP	VMVS3TW250GR305	
	³ /4″	400	VMVS2TW400GP	VMVS2TW400GR305	
	1″	400	VMVS3TW400GP	VMVS3TW400GR305	
Quad mount	3/4″	200	VMVS25Q200GP	VMVS25Q200GR305	VMVS250200GRD4
Pendant, adjustable	3/4″	250	VMVS25Q250GP	VMVS25Q250GR305	VMVS250250GRD4
hrough feed, 25° angle,					

Stanchion mount	1 ¹ /2"	200	VMVSJ200GP	VMVSJ200GR305	VMVSJ200GRD4
25° angle	1 ¹ / ₂ "	250	VMVSJ250GP	VMVSJ250GR305	VMVSJ250GRD4
Ť	1 ¹ / ₂ "	400	VMVSJ400GP	VMVSJ400GR305	VMVSJ400GRD4



 Stanchion mount Straight
 11/2"
 200
 VMVSP200GP
 VMVSP200GR305

 11/2"
 250
 VMVSP250GP
 VMVSP250GR305

 11/2"
 400
 VMVSP400GP
 VMVSP400GR305

For GR302 Type II refractor, change 'GR305' at end of catalog number to 'GR302.' Example: VMVS2A200GR302. For GR303 Type III refractor, change 'GR305' at end of catalog number to 'GR303.' Example: VMVS2A200GR303.

1. Add voltage suffix to end of catalog number.

Standard voltage ballasts – 60 Hz							Optional vo	oltage ballas	sts – 50 or 60) Hz					
NEC/UL CEC				CEC/CSA	(cUL)	_		CEC/CSA (cUL) – CWI is	olated ballas	ts	Export			
Voltage Suffix	Multi-tap /MT	120V /120	480V /480	Tri-tap /TT	120V /120	•	Voltage Suffix	208V CWI /208 CWI	240V CWI /240 CWI	480V CWI /480 CWI	600V CWI /600 CWI	220V 60 Hz /220	220V 50 Hz /220 50	230V 50 Hz /230 50	240V 50 Hz /240 50

2. Options: Add the required option suffixes (see page 195) in alphanumeric order.

Champ VMV high wattage HID luminaires	Cl. I, Div. 2, Groups A, B, C, D Restricted Breathing Cl. I, Div. 2 & Zone 2 (with suffix	Cl. II, Groups E, F, G Cl. III & Simultaneous Presence (with glass refractor)	3L
250-400W pulse start metal halide For medium and high mounting heights	S826) Certified for IEC Zone 2 (with suffix S826TB)	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

	Mounting style	Hub size	Lamp watts	Cat. # With G303 globe and P33 guard	Cat. # With GR305 glass refractor ©	Cat. # With GRD4 reflector / len
	Pendant mount	³ /4″	050	VMVM2A250GP S828	VMVM2A250GR305 S828	VMVM2A250GRD4 S828
• •	(rigid or flexible)	1"	250	VMVM3A250GP S828	VMVM3A250GR305 S828	VMVM3A250GRD4 S828
250	(ligid of floxible)	3/4"	220	VMVM2A320GP S828	VMVM2A320GR305 S828	VMVM2A320GRD4 S828
		1″	320	VMVM3A320GP S828	VMVM3A320GR305 S828	VMVM3A320GRD4 S828
		3/4"	400	VMVM2A400GP S828	VMVM2A400GR305 S828	VMVM2A400GRD4 S828
		1″	400 G	VMVM3A400GP S828	VMVM3A400GR305 S828	VMVM3A400GRD4 S828
	Ceiling mount	3/4″	050	VMVM2C250GP S828	VMVM2C250GR305 S828	VMVM2C250GRD4 S828
	through feed	1"	250	VMVM3C250GP S828	VMVM3C250GR305 S828	VMVM3C250GRD4 S828
OV OV	unouyn ieeu	3/4"	000	VMVM2C320GP S828	VMVM2C320GR305 S828	VMVM2C320GRD4 S828
250		1″	320	VMVM3C320GP S828	VMVM3C320GR305 S828	VMVM3C320GRD4 S828
		3/4"		VMVM2C400GP S828	VMVM2C400GR305 S828	VMVM2C400GRD4 S828
		1″	4000	VMVM3C400GP S828	VMVM3C400GR305 S828	VMVM3C400GRD4 S828
	Wall mount	3/4"		VMVM2TW250GP S828	VMVM2TW250GR305 S828	
		1"	250	VMVM3TW250GP S828	VMVM2TW250GR305 S828	
	through feed	3/4"		VMVM2TW320GP S828	VMVM2TW320GR305 S828	
250		1"	320	VMVM3TW320GP S828	VMVM3TW320GR305 S828	
		3/4"		VMVM2TW400GP S828	VMVM2TW400GR305 S828	
		1"	400 G	VMVM3TW400GP S828	VMVM3TW400GR305 S828	
	Quad mount	3/4"	250	VMVM25Q250GP S828	VMVM25Q250GR305 S828	VMVM25Q250GRD4 S828
	Pendant, adjustable	3/4"	320	VMVM25Q320GP S828	VMVM25Q320GR305 S828	VMVM25Q320GRD4 S828
	through feed, 25° angle, 12¹/₂° angle	3/4"	400 ®	VMVM25Q400GP S828	VMVM25Q400GR305 S828	VMVM25Q400GRD4 S828
	Stanchion mount	11/2"	250	VMVMJ250GP S828	VMVMJ250GR305 S828	VMVMJ250GRD4 S828
Mar In	25° angle	1 ¹ / ₂ "	320	VMVMJ320GP S828	VMVMJ320GR305 S828	VMVMJ320GRD4 S828
		11/2"	400	VMVMJ400GP S828	VMVMJ400GR305 S828	VMVMJ400GRD4 S828
	Stanchion mount	1 ¹ / ₂ ″	250	VMVMP250GP S828	VMVMP250GR305 S828	
	Straight	11/2"	320	VMVMP320GP S828	VMVMP320GR305 S828	
	-	1 ¹ / ₂ "	400 ©	VMVMP400GP S828	VMVMP400GR305 S828	

To be used with ED28 (bulb shaped lamp).

1. Add voltage suffix to end of catalog number.

Standard voltag	ge ballasts – 60	Hz				Optional voltage ballasts - 50 or 60 Hz					
NEC/UL				CEC/CSA (cUL)			Export				
Voltage Suffix	Multi-tap /MT	120V /120	480V /480	Tri-tap /TT	120V /120	Voltage Suffix	220V 60 Hz /220	220V 50 Hz /220 50	230V 50 Hz /230 50	240V 50 Hz /240 50	

2. Options: Add the required option suffixes (see page 195) in alphanumeric order.



β

Champ VMV high wattage **HID** luminaires 250-400W metal halide

For medium and high mounting heights

Mounting style

Pendant mount

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)

Cat. #

P33 guard

1/11/11/12/22

VMVM2A250GP

With G303 globe and

Cl. 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

Cat. #

refractor

With GR305 glass

VMVM2A250GR305

VMVM3A250GR305

VMVM2A400GR305

VMVM3A400GR305

VMVM2C250GR305

VMVM3C250GR305

VMVM2C400GR305

VMVM3C400GR305

VMVM2TW250GR305 VMVM3TW250GR305 VMVM2TW400GR305 VMVM3TW400GR305

VMVM25Q250GR305

VMVM25Q400GR305

VMVMJ250GR305

VMVMJ400GR305

Cat. #

With GRD4

reflector / lens

VMVM2A250GRD4

VMVM3A250GRD4

VMVM2A400GRD4

VMVM3A400GRD4

VMVM2C250GRD4

VMVM3C250GRD4

VMVM2C400GRD4

VMVM3C400GRD4

VMVM25Q250GRD4

VMVM25Q400GRD4

VMVMJ250GRD4

VMVMJ400GRD4

3L

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**

Lamp

watts

250

97 38	(rigid or flexible)	1" 3/4"	230	VMVM3A250GP
		1"	- 400	-
3 1 B	Ceiling mount	³ / ₄ "	- 250	VMVM2C250GP VMVM3C250GP
	through feed	3/4"		-
250		1"	- 400	-
A 1	Wall mount	^{3/4} 1″	- 250	VMVM2TW250GP
	through feed	3/4"		VMVM3TW250GP
285		1"	- 400	-
	Quad mount Pendant, adjustable	3/4″	250	VMVM25Q250GP
	through feed, 25° angle, 121/2° angle	³ / ₄ ″	400	-
	Stanchion mount	11/2"	250	VMVMJ250GP
1 State	25° angle	1 ¹ /2"	400	-

Hub

size

3/4

¢		
0	H	

N	Stanchion mount	1 ¹ /2″	250	VMVMP250GP	VMVMP250GR305
	Straight	1 ¹ / 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						Optional volta	age ballasts -	50 or 60 Hz					
NEC/UL CEC/CSA (cUL)				(cUL)	CEC/CSA (cUL) - CWI isolated ballasts			Export					
Voltage Suffix	Multi-tap /MT	120V /120	480V /480	Tri-tap /TT	120V /120	Voltage Suffix	208V CWI /208 CWI	240V CWI /240 CWI	600V CWI /600 CWI	220V 60 Hz /220	220V 50 Hz /220 50	230V 50 Hz /230 50	240V 50 Hz /240 50

2. Options: Add the required option suffixes (see page 195) in alphanumeric order.

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HID luminairesRestricted Breathing Cl. I, Div. 2 & Zone 2 (with suffix S826)Cl. III & Simultaneous Presence (with glass refractor) Marine (with globe or glass refractor) & Wet Locations 3, 3R, 4, 4X; IP66	
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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
Fellualit Illoulit	1″	APM3
Calling a superior	3/4"	CM2
Ceiling mount [©]	1″	CM3
Wall mount	3/4"	TWM2
vvan mount	1″	TWM3
Stanchion mount – 25° angle	1 ¹ /2"	JM5
Stanchion mount – straight	1 ¹ /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
	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

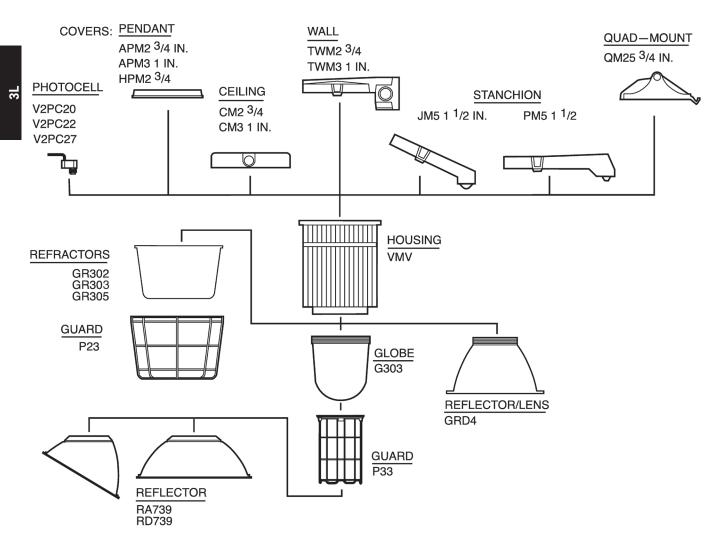
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Cl. I, Div. 2, Groups A, B, C, D
Restricted Breathing Cl. I,
Div. 2 & Zone 2 (with suffix
S826)Cl. II, Groups E, F, G
Cl. III & Simultaneous Presence
(with glass refractor)
Marine (with globe or glass
refractor) & Wet Locations
3, 3R, 4, 4X; IP66

3L

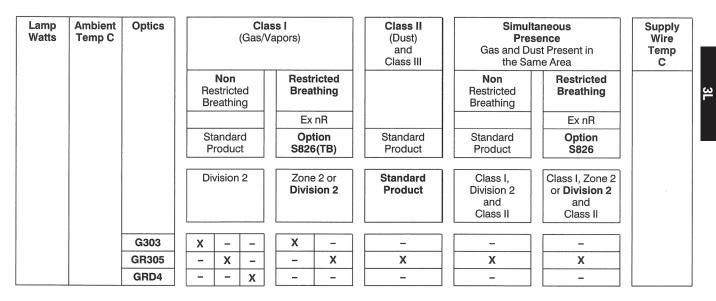
Family tree:





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) 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

Temperature performance data:



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 325°C	Т3	T4	T3B	350°C / T3B	T3B	85
250	55	350°C 350°C 350°C	T3	T4	-	-	-	90
320	40	T1 325°C T2A	Т3	-	-	-	-	90
400	40	T1 T1 T1	Т3	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)

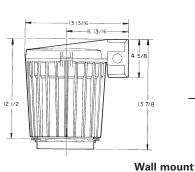
CI. II, Groups E, F, G Cl. III & Simultaneous Presence (with glass refractor) Marine (with globe or glass refractor) & Wet Locations 3, 3R, 4, 4X; IP66

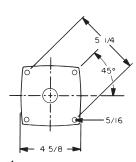
Dimensions (in inches):



31

FOR MTG. Тор 10 7/8 . View 4 KNOCKOUTS 5/16 DIA.





3L

Pendant mount

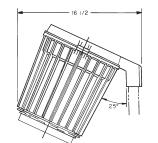


Ceiling mount

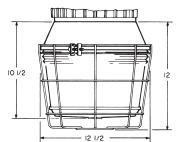
12 3 13 9/16

Quad mount

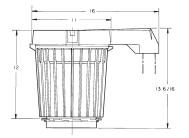




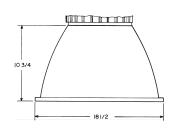
Stanchion mount 25° angle



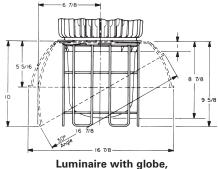
Luminaire with glass refractor, guard



Stanchion mount straight



Luminaire with etched Alzak reflector/lens



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 mo	odules:		
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 bay	1.75		

Deduct: 1.50 lbs. for fixture without P33 guard

