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Description	Page No.
VMVIG Series	802–808
DMVIG Series	802-808

Note: Induction Lighting is also available with our Champ-Pak™ Wall Pack Luminares. Please see page 867 in Section 7L for more details.

Luminaires with Induction Lighting System





Class I, Division 2, Groups A,B,C,D Class I, Zone 2, Group IIC Resricted Breathing Suffix S826 for Cl.I, Div 2 & Zone 2 Enclosure Type 4X, IP66 • Marine Locations Wet Locations

UL and cUL Listed

Get uninterrupted light for up to 11 years, without changing a lamp.

Cooper Crouse-Hinds® Champ Luminaire with Induction Light Source delivers up to 100,000 hours of white light in a hazardous location, corrosion-resistant watertight package. That's 5 to 8 times the typical life of conventional fluorescent or HID lamps. And, with no maintenance required for up to 11 years, you'll reduce your maintenance and lamp replacement costs.

Compelling reasons to choose the new Champ Induction luminaire as the light source for industrial and hazardous locations include:

- Crisp white light (80+ color rendering index) provides increased safety by clearly illuminating signs, instrument panels, equipment and more with vibrant natural colors.
- Up to 100,000 hours of lamp life minimizes routine maintenance costs. If you operate this luminaire for 24 hours, 7 days a week, you will not need to change the lamp for up to 11 years!
- Instant illumination no waiting for lamp warm-up time. Increases productivity and safety.
- Delivers the best possible luminaire temperature rating T6 (85°C) when used with the Champ restricted breathing option. Ideal for hazardous areas where a low ignition temperature is required.
- Starts in low temperatures as low as -40°C.





165W Champ Induction provides as much light as a 175W Metal Halide but lasts 7 times longer!

ADDITIONAL FEATURES & BENEFITS:

The Champ Induction luminaire is suitable for Class I, Division 2 and Zone 2 areas with the assurance of Cooper Crouse-Hinds quality and reliability. They are ideal for use in hard-to-reach applications and where process requirements demand continuous luminaire operation.

Features:

- High lumens per watts (72 lpw for the 165W Champ) will save energy
- Retains strong light output (retains more than 70% output) throughout the life of the lamp
- Will not add electrical noise to the circuits Total Harmonic Distortion is less than 10%
- Excellent power factor of .96 increases useable watts to an excellent level and reduces energy consumption
- Internal electronics are enclosed to ensure that there is no interference with external instrumentation



Luminaires with Induction Lighting System

VMVIG and DMVIG Series

Class I, Division 2, Groups A,B,C,D Class I, Zone 2, Group IIC Resricted Breathing Suffix S826 for Cl.I, Div 2 & Zone 2 Enclosure Type 4X, IP66 ● Marine Locations Wet Locations ● UL and cUL Listed



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APPLICATIONS:

Champ Induction luminaires are ideal:

- Where an extra long life lamp source (up to 100,000 hrs) is required.
- In areas that require lamps to reach full illumination immediately.
- Where cool temperature ratings on the luminaire globe are needed to ensure safe operation in hazardous areas.
- In hard-to-reach applications where relamping is costly.
- Where luminaire maintenance is difficult due to continuous process operation requirements that restrict or prohibit shut down except in emergency situations.
- To provide a cost-effective lighting system (low installed/life cost) by minimizing or even eliminating routine luminaire maintenance.
- In cold environment applications.

CERTIFICATIONS AND COMPLIANCES:

NEC & CEC:

- Class I, Division 2 and Zone 2
- Class I, Division 2 Groups A, B, C, D Class I, Zone 2 Group IIC
- Restricted Breathing Suffix S826 for Class I, Division 2 & Zone 2
- Marine Locations, Wet Locations, Enclosure Type 3, 3R, 4, 4X; IP66
- UL and cUL Listed

UL Standards: 844, 60079-15, 1598, 1598A **CSA Standards:** C22.2 No.137, E79 Series

Compliances and aprovals for the lamp system

RFI < 30 MHz
 RFI > 30 MHz
 Harmonics
 Immunity
 EN 55022
 EN 61000-3-2
 EN 61547

• Safety EN 61347-2-3 & UL935

Performance
 Vibration & bump tests
 EN 60929
 IEC 68-2-6-Fc
 IEC 68-2-29-Eb

Quality standards ISO 9001 Environmental standard ISO 14001

STANDARD MATERIALS:

- Ballast housings and mountings copper-free aluminum (less than 0.4 of 1%)
- Exterior hardware stainless steel
- Reflectors (dome and angle) Krydon fiberglass-reinforced polyester material
- Globes heat and impact-resistant internally fluted glass
- Guards copper-free aluminum (55W), stainless steel (85W).

STANDARD FINISHES:

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

OPTIONS:

SUFFIX TO ADD DESCRIPTION TO CATALOG NO.

Restricted Breathing Construction Class I, Division 2 & Zone 2 suitability

Cooler operating temperatures (T-Codes) S826

ACCESSORIES:

MOUNTING MODULES	CAT. NO.
3/4 NPT Pendant	APM2
1 NPT Pendant	APM3
3/4 NPT Flexible Pendant	HPM2
3/4 NPT Ceiling Mount	CM2
1 NPT Ceiling Mount	CM3
3/4 NPT Wall Mount	TWM2
1 NPT Wall Mount	TWM3
3/4 NPT Quad Mount	QM25
1 ½ NPT Stanchion Mount — 25 Degree Angle	JM5
1 ½ NPT Stanchion Mount — Straight	PM5

WATTAGE	DOME REFLECTOR CATALOG NO.	ANGLE REFLECTORS CATALOG NO.		
55W	RD70	RA70		
85W	RD739	RA739		
165W	RD739	RA739		

DIMENSIONS:

See Catalog 6000 Section 3L for dimensional information on VMV and DMV Series

AMPERAGE:

Power consumption for specific voltages as follows: 55W LUMINAIRES

a. 120VAC x .460mA = 55.70 watts b. 230VAC x .260mA = 59.80 watts

85W LUMINAIRES

c. $120VAC \times .710mA = 85.20$ watts d. $230VAC \times .400mA = 92.00$ watts

165W LUMINAIRES

e. 230VAC x .700mA = 161.00 watts



Luminaires with Induction Lighting System







LAMP DATA:

SYSTEM		LUMEI	LUMEN (LM)		CY (LM/W)	COLOR RENDERING	LUMEN MAINTENANCE
	Power (W)	INITIAL	MEAN	INITIAL	MEAN	INDEX*	AFTER 60,000 HRS (%)
VMV	55	3500	2800	65	51	80	75
DMV	85	6000	4800	70	57	80	75
DMV	165	12000	9600	72	58	80	70

^{*} Lamp sources with 80+ CRI provide excellent color rendering. CRI scale is 0-100 with 100 considered as ideal.

TEMPERATURE PERFORMANCE DATA:

CATALOG #	WATTS	AMBIENT TEMP °C	SUPPLY WIRE TEMP °C	CLASS I, DIV. 2 TEMP. RATING	CLASS II, DIV. 1, CLASS III TEMP. RATING	SIMULTANEOUS PRESENCE CLASS I, DIV. 2	RESTRICTED BREATHING (SUFFIX S826) Aex nR IIC, Ex nR IIC CLASS I, DIV. 2/Zone 2
VMVIG055	55	40	60	T2C	_	_	T6
VMVIG055	55	55	75	T2C	_	_	T5
DMVIG085	85	40	60	T2D	T2D	T2D	T6
DMVIG085	85	55	75	T2D	_	_	T6
DMVIG165	165	40	75	T3	_	-	T5

Champ Induction DMV 85-watt is now Class II Div.1 - suitable for dust environments

ORDERING INFORMATION:

To complete Catalog Number, add Voltage and Option suffix(es).

MOUNTING STYLE	HUB SIZE (INCHES)	55W INDUCTION CATALOG NUMBER (WITH G24 GLOBE & P21 GUARD)	85W INDUCTION CATALOG NUMBER (WITH G303 GLOBE & P33 GUARD)	165W INDUCTION CATALOG NUMBER (WITH G303 GLOBE & P33 GUARD)
Pendant	3/ ₄ 1	VMVIG2A055GP VMVIG3A055GP	DMVIG2A085GP DMVIG3A085GP	*DMVIG2A165GP *DMVIG3A165GP
Flexible Pendant	3/4	VMVIG2HA055GP	DMVIG2HA085GP	*DMVIG2HA165GP
Ceiling Mount	³ ⁄ ₄ 1	VMVIG2C055GP VMVIG3C055GP	DMVIG2C085GP DMVIG3C085GP	*DMVIG2C165GP *DMVIG3C165GP
Wall Mount	³ ⁄ ₄ 1	VMVIG2TW055GP VMVIG3TW055GP	DMVIG2TW085GP DMVIG3TW085GP	*DMVIG2TW165GP *DMVIG3TW165GP
Quad Mount	3/4	VMVIG25Q055GP	DMVIG25Q085GP	*DMVIG25Q165GP
Stanchion Mount 25° Angle	1 ½	VMVIGJ055GP	DMVIGJ085GP	*DMVIGJ165GP
Stanchion Mount Straight	1 ½	VMVIG2P055GP	DMVIG2P085GP	*DMVIG2P165GP
Luminaire with Globe and Guard less Mounting Module	_	VMVIG055GP	DMVIG085GP	*DMVIG165GP

Standard Voltage 120V, 50/60 Hz 200V-277V, 50/60 Hz Suffix /120 /200 277

Operative range of 108-132 VAC Operates on 208, 220, 230, 240, 277 VAC Add the voltage suffix to the above catalog number. Ex. - DMVIG2A085GP/120

^{* 165}W Champ Induction Luminaires are only available in 200-277VAC



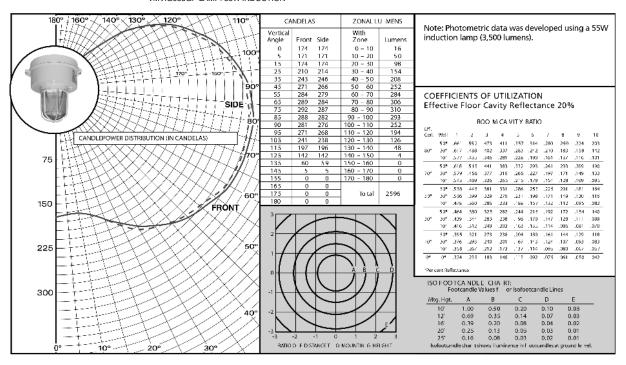


Luminaires with Induction Lighting System

VMVIG and DMVIG Series

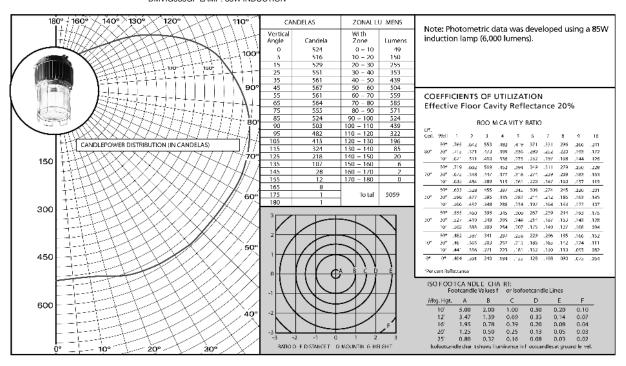
55 WATT INDUCTION

LUMINAIRE WITH GLOBE AND GUARD VMVIG055GP LAMP: 55W INDUCTION



85 WATT INDUCTION

LUMINAIRE WITH GLOBE AND GUARD



Photometric Data: For additional photometric information, see the Resources area of our website. Photometric .ies files for use with our Luxicon Lighting Layout Software are available to download

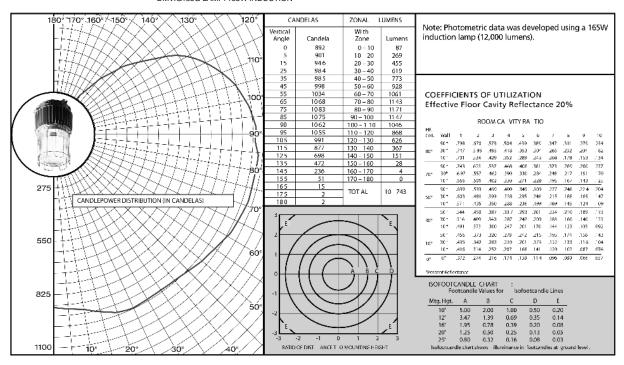


Luminaires with Induction Lighting System

VMVIG and DMVIG Series

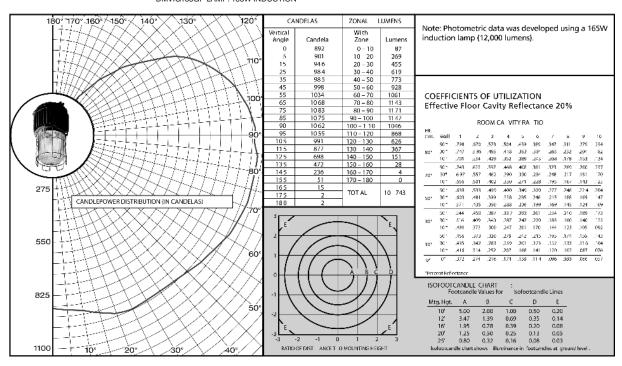
165 WATT INDUCTION

LUMINAIRE WITH GLOBE DMVIG165G LAMP: 165W INDUCTION



165 WATT INDUCTION

LUMINAIRE WITH GLOBE AND GUARD



Photometric Data: For additional photometric information, see the Resources area of our website. Photometric .ies files for use with our Luxicon Lighting Layout Software are available to download



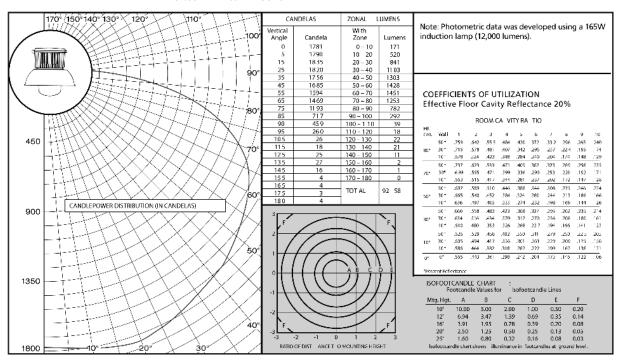


Luminaires with Induction Lighting System

VMVIG and DMVIG Series

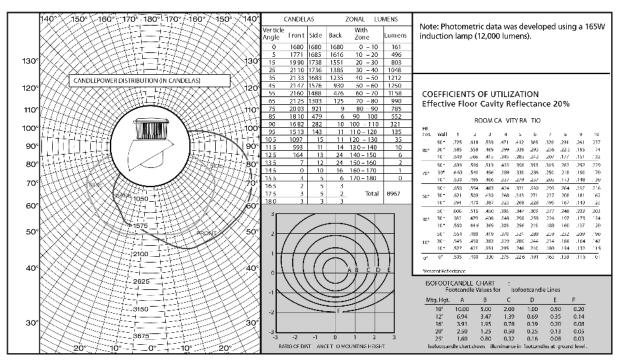
165 WATT INDUCTION

LUMINAIRE WITH GLOBE AND RD739 DOME REFLECTOR DMVIG165G LAMP: 165W INDUCTION



165 WATT INDUCTION

LUMINAIRE WITH GLOBE AND RA739 (30° ANGLE) REFLECTOR DMVIG165G LAMP: 165W INDUCTION



Photometric Data: For additional photometric information, see the Resources area of our website. Photometric .ies files for use with our Luxicon Lighting Layout Software are available to download



5L Luminaires with Induction Lighting System

VMVIG and DMVIG Series

