

N2MVF Series Compact Fluorescent

Champ® Non-metallic Luminaires

Cl. I, Div. 2, Groups A, B, C, D
Cl. II, Groups F, G
Cl. III & Simultaneous Presence

Marine & Wet Locations
3, 3R, 4, 4X; IP56

Applications:

N2MVF Series Champ Luminaires are used:

- In areas in which ignitable concentrations of flammable gases or vapors will be present due to abnormal, unusual or accidental conditions
- In installations where moisture, dirt, vibration, corrosion, or rough usage are concerns
- Wherever the damaging effects of water, wind, snow, sleet, hot sun, or any combination of these elements are found
- Ideal for marine use; resists the harmful effects of salt water
- Withstands the harshest of corrosive environments
- To provide low wattage spot and floodlighting
- For general area lighting
- In manufacturing plants, refineries, chemical, petrochemical and other industrial process facilities, wastewater and sewage treatment facilities, offshore, dockside, and harbor installations as well as other heavy industrial applications

Features and Benefits:

- Housings and mounting modules made of polyphenylene sulfide (PPS) for strength and maximum resistance to corrosion
- Pendant mounting module equipped with integral hub set screws for vibration resistance
- Hubs are provided with an integral bushing to help prevent damage to field wiring during installation and ground connection for positive bonding
- Guard, hub inserts, stanchion elbow, and hardware made of stainless steel for maximum resistance to corrosion
- Grounding wire for safety
- Stainless steel open bottom guard permits direct access to the globe for easy relamping
- Hinged assembly allows the luminaire to hang free during installation to permit the use of both hands when wiring
- One external captive screw for ease of installation
- Handle – hinge assembly doubles as a handle for ease of installation, especially when carrying up a ladder

Certifications and Compliances:

- NEC and CEC:
 - Class I, Division 2, Groups A, B, C, D
 - Class II, Class III & Simultaneous Presence (Class I, Division 2 and II)
- UL Standards:
 - 844 Hazardous (Classified) Locations
 - 1598 Luminaires
 - 1598A Marine Locations
- CSA Standards:
 - C22.2 No. 137

Standard Materials:

- Housing, mounting modules – polyphenylene sulfide (PPS)
- Guard, hub inserts, stanchion elbow, hardware – stainless steel
- Globe – heat- and impact-resistant, internally fluted glass
- Gaskets – silicone rubber

Electrical Ratings:

- Wattages: Two 26 or 32 watt lamps
- 120-277V, 50-60Hz
- 347V, 60Hz
- 12, 24, and 125 VDC



Options:

Description	Suffix
Wall-Mount Arm For converting a ceiling-mount luminaire to a wall mount	N2MV-WM1
Factory Assembled For a factory assembled luminaire with lamps installed	FA
Fusing To protect ballast against abnormal line conditions (not suitable for marine applications)	S658
Furnished with Lamps	S714
Teflon Coated Globe Provides additional protection against shattered glass fragments when subject to thermal shock, etc.	S808

Average Luminaire Weight

Description	Lbs.
Body, mounting module, globe, guard, and reflector	30

Ordering Information:

Mounting Style	Hub Size in.	Lamp Watts	With G303 Globe and P33 Guard Cat. #
Pendant Mount	3/4	52	N2MVF2A052GP
	1	52	N2MVF3A052GP
	3/4	64	N2MVF2A064GP
	1	64	N2MVF3A064GP
Ceiling Mount Thru-Feed	3/4	52	N2MVF2C052GP
	1	52	N2MVF3C052GP
	3/4	64	N2MVF2C064GP
	1	64	N2MVF3C064GP
Stanchion Mount 25° Angle	1 1/2	52	N2MVFJ052GP
	1 1/2	64	N2MVFJ064GP

Additional Features:

Fluorescent Energy Savings

- Less wattage used with compact fluorescent lamps compared to equivalent incandescent lamps providing the same light output

Voltage Suffix	Standard Voltage Ballasts		Optional Ballasts		
	NEC/UL & CEC/CSA (cUL)	CEC/CSA (cUL)	CEC/CSA (cUL)	CEC/CSA (cUL)	CEC/CSA (cUL)
	120-277V 50-60Hz /UNV	347V 60Hz /347	125V DC /125VDC	12V DC /012VDC	24V DC /024VDC

Temperature Performance Data:

Lamp Watts	Minimum Operating Temperature	Maximum Ambient Temp.	Class I		Class II	Supply Wire °C
			Non-restricted Breathing	Division 2		
Fluorescent:	N2MVF			Division 2	Division 1	
52 & 64 Watt	-18°C (0°F)	40°C (104°F)	T2D		T4	85

N2MVF Series - Ordering by Components

5L

N2MVF Luminaires are available in components.

A complete luminaire consists of:

- I. N2MV Cover (Mounting Module)
- II. N2MV Ballast Housing
- III. Globe, Refractors, Guards, Reflectors

I. N2MV Cover (Mounting Module):

Type	Conduit	Cat. #
Pendant	3/4"	N2APM2
	1"	N2APM3
Ceiling	3/4"	N2CM2
	1"	N2CM3
Wall (Use wall bracket accessory with Ceiling Cover)	3/4"	N2MV WM1 and N2CM2
	1"	N2MV WM1 and N2CM3
Stanchion – 25 Degree Angle	1 1/2"	N2JM5

II. Ballast Housings:

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

Lamp Type	Lamp Watts	Cat. #
Compact Fluorescent	2 (26W)	N2MVF052/UNV
	2 (32W)	N2MVF064/UNV

III. Globe, Guards, and Reflectors:

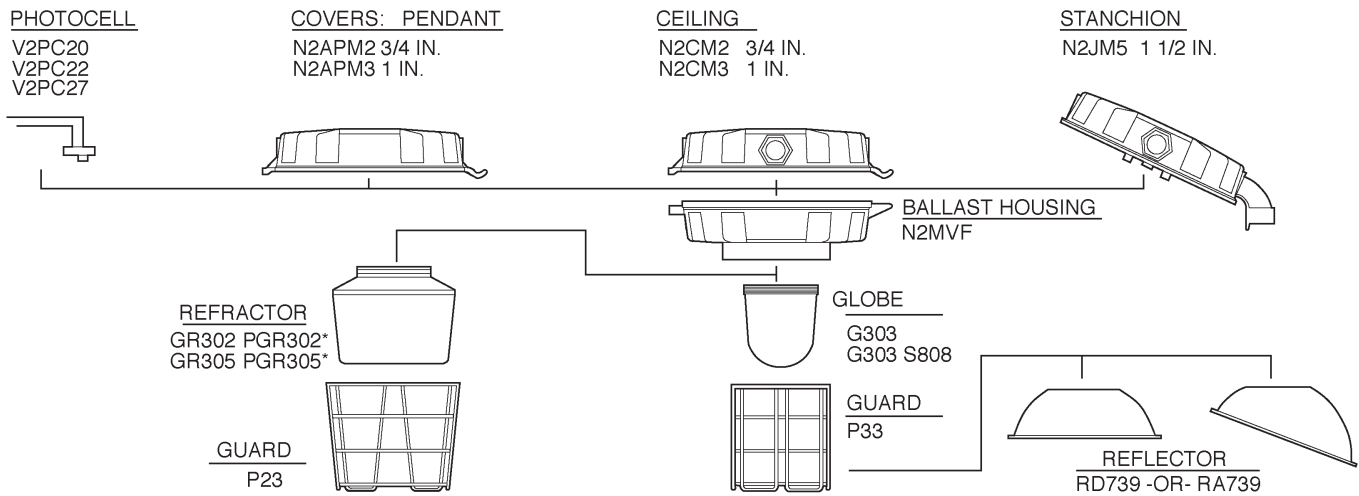
Type	Cat. #
Globe	G303
Globe Teflon Coated	G303S808
Globe Guard	P33
Reflector Dome	RD739
Reflector Angle	RA739

5L

N2MVF Series Compact Fluorescent

Champ® Non-metallic Luminaires

A complete luminaire consists of a cover mount, a ballast housing and a globe, with or without guard, refractor or reflector.



All Components are suitable for use in ordinary locations, Class I, Div. 2 and wet locations.

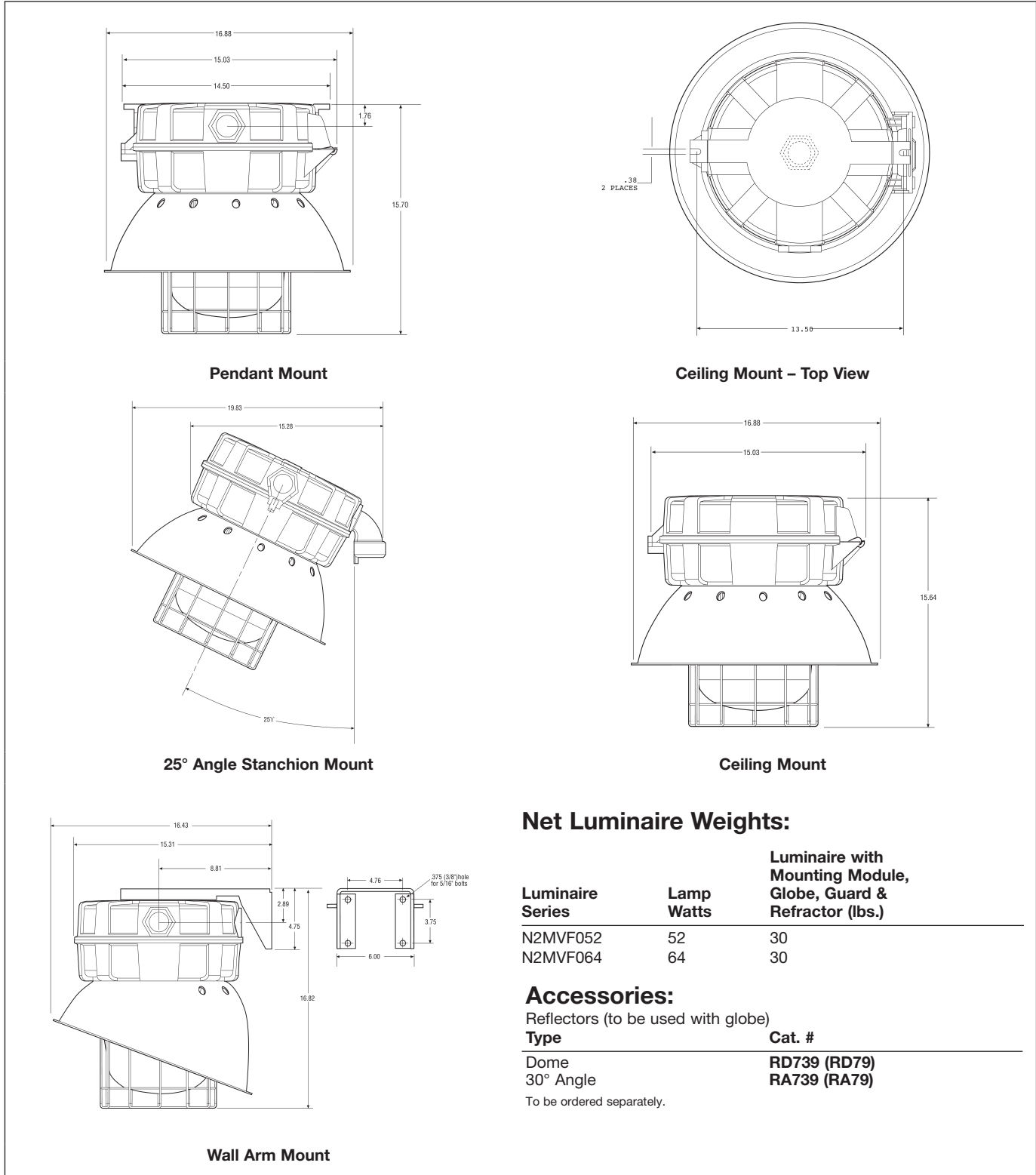
N2MVF Series Compact Fluorescent

Dimensions
Weights

5L

Champ® Non-metallic Luminaires

Dimensions In Inches:



Net Luminaire Weights:

Luminaire Series	Lamp Watts	Luminaire with Mounting Module, Globe, Guard & Refractor (lbs.)
N2MVF052	52	30
N2MVF064	64	30

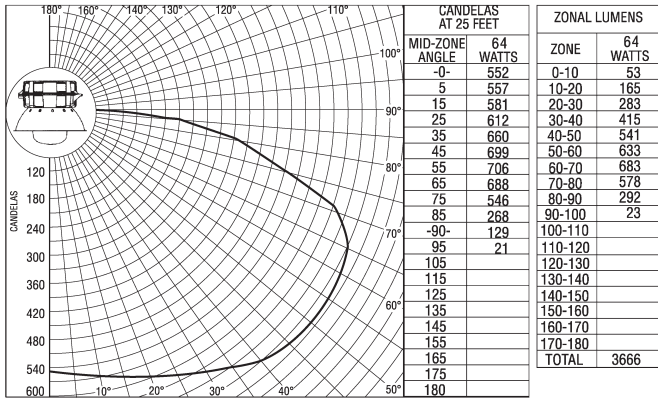
Accessories:

Reflectors (to be used with globe)

Type	Cat. #
Dome	RD739 (RD79)
30° Angle	RA739 (RA79)

To be ordered separately.

5L

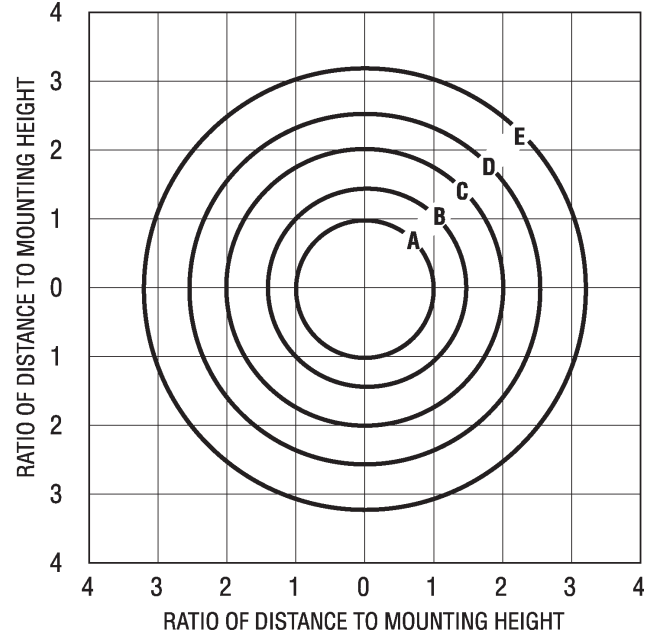


Note: For 52 watt N2MVF applications, use a .75 multiplier.

N2MVF Photometric Data

Isofootcandle Chart:
Luminaire with globe and dome reflector

N2MVF064GRD Dome Reflector



Footcandle Values for Isofootcandle Lines

Mounting Height	A	B	C	D	E
8'	4.00	2.00	1.00	0.50	0.25
10'	2.56	1.28	0.64	0.32	0.16
12'	1.78	0.89	0.44	0.22	0.11
16'	1.00	0.50	0.25	0.13	0.06

5L

N2MVF064GRD Dome Reflector Coefficients of Utilization

Effective Floor Cavity Reflectance 20%

Eff. Ceil.	Wall	Room Cavity Ratio									
		1	2	3	4	5	6	7	8	9	10
80*	50*	.741	.617	.524	.452	.396	.351	.314	.283	.258	.236
	30*	.694	.548	.445	.370	.314	.271	.237	.210	.188	.169
	10*	.652	.491	.382	.308	.254	.214	.183	.159	.140	.125
70*	50*	.722	.601	.510	.440	.386	.342	.307	.277	.252	.231
	30*	.679	.537	.437	.364	.309	.267	.234	.207	.185	.167
	10*	.640	.483	.378	.305	.252	.212	.182	.158	.139	.124
50*	50*	.686	.570	.484	.418	.367	.326	.293	.265	.242	.223
	30*	.650	.516	.421	.351	.299	.259	.227	.202	.181	.163
	10*	.617	.470	.369	.299	.247	.209	.180	.155	.138	.123
30*	50*	.653	.542	.460	.398	.350	.311	.280	.254	.233	.214
	30*	.623	.497	.406	.340	.290	.251	.221	.197	.176	.160
	10*	.596	.457	.361	.293	.243	.206	.177	.154	.136	.121
10*	50*	.622	.516	.437	.379	.333	.297	.268	.244	.224	.206
	30*	.598	.478	.392	.329	.271	.244	.215	.192	.172	.156
	10*	.576	.444	.352	.287	.239	.203	.175	.152	.135	.120
0*	0*	.557	.424	.332	.267	.220	.184	.157	.136	.119	.105

*Percent Reflectance.