



LM Series

High Capacity Emergency Light

| | |
|----------------|------|
| Catalog Number | |
| Comments | Type |

FEATURES

Application

The LM provides emergency lighting for industrial and commercial applications. The LM offers high capacity for higher lamp wattages and remote capability. Offered with 6 and 12 VDC operation and 15 - 130 watts of capacity and multiple optional lamp wattages. The steel housing provides strength and durability.

Construction

LM has two housing sizes. Size 1 covers housing capacity of 15 - 40 watts and has 20 gauge corrosion-resistant steel. Size 2 covers housing capacity of 66 - 130 watts and has 18 gauge corrosion-resistant steel. Standard lamp-heads in injection molded flame retardant, UV stabilized thermoplastic. Aluminum lamp-heads offered as optional. Housing and lamp-heads in white color.

Installation

Mount through universal knock-out pattern to standard electrical boxes up to 4" square. Also mounts to wall surface through keyhole mounting slots. Wiring terminals and fused distribution board located inside of housing for remote head wiring. Pre-stripped transformer leads provided.



Illumination

LM2 provided with 5.4 watt lamps, all other models with 7.2 watt lamps as standard. The LED -03L option offers a 3 watt high performance LED lamp with specific models.

Warranty

Fixture: 3 Years Full, 5 Years Full with Spectron

Battery:

Lead-Acid Models - 2 Years Full, 3 Years Pro Rata

Ni-Cad Models - 2 Years Full, 8 Years Pro Rata

Compliances

UL listed to UL924 Standard

UL Damp Location listed (designated models only)

ORDERING GUIDE

| LM | | | | | | |
|--|--------------------------------|--|---------------------------------|---|---|--|
| Model | Capacity | Battery Type | Output Voltage | Rating | Self Diagnostics | |
| 2 | 10.8 Watts | Blank Lead Calcium N Nickel Cadmium* | Blank 6 Volt | Blank None | Blank None | |
| 15 | 15 Watt** | | 12V 12 Volt ⁶ | D Damp CH Chicago ⁷ | I Spectron Self-test / Self-diagnostic Electronics ^{1,3,4} | |
| 16 | 16 Watt | * Capacity wattage may change depending upon option Ordering Notes: ¹ Not available with LM2 model ² Not available with LM15N, LM16 or LM24CH models ³ Note: Spectron models with over 80 watts of capacity require a minimum load of 35 watts for accurate lamp failure indications ⁴ Spectron not available with Nickel-Cadmium battery models ⁵ Not available with LM28D or LM36CH models ⁶ Not available with LM2, LM15, LM16, LM28, LM30 and LM33 models ⁷ Available on LM24 and LM36 models only ⁸ 03L lamps only available with LM2, LM33 and LM33I models | | | | |
| 24 | 24 Watt*** | | | | | |
| 28 | 28 Watt* | | | | | |
| 30 | 30 Watt** | | | | | |
| 33 | 33 Watt | | | | | |
| 34 | 34 Watt | | | | | |
| 36 | 36 Watt | | | | | |
| 40 | 40 Watt | | | | | |
| 50 | 50 Watt** | | | | | |
| 56 | 56 Watt* | | | | | |
| 66 | 66 Watt | | | | | |
| 68 | 68 Watt* | | | | | |
| 80 | 80 Watt | | | | | |
| 100 | 100 Watt** | | | | | |
| 112 | 112 Watt* | | | | | |
| 130 | 130 Watt | | | | | |
| * Damp Models Only | | | | | | |
| ** Ni-Cad Models Only | | | | | | |
| *** Available with CH rating option only | | | | | | |
| Options | | | | | | |
| V | Voltmeter | | | | | |
| 3 | 3 Lampheads ^{1,2} | | | | | |
| 4 | 4 Lampheads ^{1,2,5} | | | | | |
| 0 | 0 Lampheads ^{1,2,3} | | | | | |
| A31 | Aux 3-conductor cord-120 volt | | | | | |
| A32 | Aux 3-conductor cord-277 volt | | | | | |
| 03L | 3W LED lamp-heads ⁸ | | | | | |
| Optional Lamps | | | | | | |
| SRHSW0608 | 6V, 8W Halogen | | | | | |
| SRHSW0612 | 6V, 12W Halogen | | | | | |
| SRHSW0618 | 6V, 18W Incandescent | | | | | |
| SRHSW0620 | 6V, 20W Halogen | | | | | |
| SRHSW0625 | 6V, 25W Incandescent | | | | | |
| SRHSW1208 | 12V, 8W Halogen | | | | | |
| SRHSW1212 | 12V, 12W Halogen | | | | | |
| SRHSW1218 | 12V, 18W Incandescent | | | | | |
| SRHSW1225 | 12V, 25W Incandescent | | | | | |
| SRHSW1235 | 12V, 35W Incandescent | | | | | |
| AHDSW1250 | 12V, 50W Halogen | | | | | |

To order metal lamp heads, replace SRH with AHD. 50W is available with metal heads only.

To order two optional, non-standard lamps on the fixture, suffix catalog number.

Example: LM100-SRHSW0612

ACCESSORIES - Order Separately

| Model | Description |
|------------|-------------------------------------|
| 40G | Wire Guard |
| SRHSW | Single Matching Remote Head (white) |
| SRHDW | Twin matching remote Head (white) |
| OCR-03L | Outdoor LED Remote Heads |
| CPR-03L | Indoor LED remote lamps |





LM Series

High Capacity Emergency Light

UNIT CAPACITY SELECTOR

| 03L Lamp Models | DC Volts | Lamp Watts | Remote Capacity | Remote Watts | 1 1/2 Hours | 2 Hours | 3 Hours | 4 Hours |
|-----------------|----------|------------|-----------------|--------------|-------------|---------|---------|---------|
| LM2-03L | 6 | 3W | No | - | 10.8 | 7 | - | - |
| LM33-03L | 6 | 3W | Yes | 27 | 33 | 25 | 17 | 13 |
| LM331-03L | 6 | 3W | Yes | 27 | 33 | 25 | 17 | 13 |

Note- LM331-03L must be loaded to a minimum of 12W including remotes

| Standard Models | DC Volts | Standard Lamp | Enclosure Style | Remote Capacity | Total Watts For: | | | |
|-----------------|----------|---------------|-----------------|-----------------|------------------|---------|---------|---------|
| | | | | | 1 1/2 Hours | 2 Hours | 3 Hours | 4 Hours |
| LM2 | 6 | 5.4W | 1 | No | 10.8 | -- | -- | -- |
| LM16 | 6 | 7.2W | 1 | No | 16 | -- | -- | -- |
| LM33 | 6 | 7.2W | 1 | Yes | 33 | 25 | 17 | 13 |
| LM40 | 6 | 7.2W | 1 | Yes | 40 | 31 | 21 | 16 |
| LM66 | 6 | 7.2W | 2 | Yes | 66 | 51 | 35 | 27 |
| LM80 | 6 | 7.2W | 2 | Yes | 80 | 62 | 43 | 33 |
| LM130 | 6 | 7.2W | 2 | Yes | 130 | 101 | 70 | 54 |
| LM40-12V | 12 | 7.2W | 1 | Yes | 40 | 31 | 21 | 16 |
| LM66-12V | 12 | 7.2W | 2 | Yes | 66 | 51 | 35 | 27 |
| LM80-12V | 12 | 7.2W | 2 | Yes | 80 | 62 | 43 | 33 |
| LM130-12V | 12 | 7.2W | 2 | Yes | 130 | 101 | 70 | 54 |

| Damp Location Models | DC Volts | Standard Lamp | Enclosure Style | Remote Capacity | Total Watts For: | | | |
|----------------------|----------|---------------|-----------------|-----------------|------------------|---------|---------|---------|
| | | | | | 1 1/2 Hours | 2 Hours | 3 Hours | 4 Hours |
| LM28D | 6 | 7.2W | 1 | Yes | 28 | 21 | 15 | 11 |
| LM34D | 6 | 7.2W | 1 | Yes | 34 | 26 | 18 | 14 |
| LM56D | 6 | 7.2W | 2 | Yes | 56 | 43 | 30 | 21 |
| LM68D | 6 | 7.2W | 2 | Yes | 68 | 53 | 36 | 28 |
| LM112D | 6 | 7.2W | 2 | Yes | 112 | 87 | 60 | 47 |
| LM34D-12V | 12 | 7.2W | 1 | Yes | 34 | 26 | 18 | 14 |
| LM56D-12V | 12 | 7.2W | 2 | Yes | 56 | 43 | 30 | 21 |
| LM68D-12V | 12 | 7.2W | 2 | Yes | 68 | 53 | 36 | 28 |
| LM112D-12V | 12 | 7.2W | 2 | Yes | 112 | 87 | 60 | 47 |

| Nickel Cadmium Models | DC Volts | Standard Lamp | Enclosure Style | Remote Capacity | Total Watts For: | | | |
|-----------------------|----------|---------------|-----------------|-----------------|------------------|---------|---------|---------|
| | | | | | 1 1/2 Hours | 2 Hours | 3 Hours | 4 Hours |
| LM15N | 6 | 7.2W | 1 | No | 14.4 | -- | -- | -- |
| LM30N | 6 | 7.2W | 1 | Yes | 30 | 25 | 17 | 13 |
| LM50N | 6 | 7.2W | 1 | Yes | 50 | 42 | 29 | 22 |
| LM50N-12V | 12 | 7.2W | 1 | Yes | 50 | 42 | 29 | 22 |
| LM100N-12V | 12 | 7.2W | 1 | Yes | 100 | 85 | 59 | 46 |

| City of Chicago Models | DC Volts | Standard Lamp | Enclosure Style | Remote Capacity | Total Watts For: | | | |
|------------------------|----------|---------------|-----------------|-----------------|------------------|---------|---------|----|
| | | | | | 2 Hours | 3 Hours | 4 Hours | |
| LM24CH | 6 | 12W | 1 | No | 24 | -- | -- | -- |
| LM36CH | 6 | 12W | 1 | Yes | 36 | -- | -- | -- |
| LM36CH-12V | 12 | 12W | 1 | Yes | 36 | -- | -- | -- |

SPECIFICATIONS

Standard Lamps

LM2 provided with 5.4 watt incandescent PAR 36 sealed beam type lamps, all others with 7.2 watt incandescent PAR 36 sealed beam type lamps in 6 or 12VDC.

Optional 03L LED Lamp

LM with optional 03L lamps use 3 watts per lamp, and have a life-cycle of 50,000 hours. The 03L lamp offers multiple unit spacing up to 42' on center. Each lamp delivers 155 lumens. Note-LM331 must be loaded to a minimum of 12 watts total.

Electronics

Dual voltage input of 120/277VAC, 60 Hz. Includes a fully automatic constant voltage, current limited charger with transformer isolation and low battery voltage disconnect. Transfer contact through electric relay. Power distribution made with fused leads through internally located distribution board. Maximum power consumption of 20 watts (all models). Test initiated by means of integral test switch. AC-on indicated by LED. AC lock out provision prevents discharge of battery at installation until power is present.

Optional Spectron® Self-Test/Self Diagnostics

Provides automatic flashing fault detection for battery, charger, transfer circuit and lamps. Conducts automatic 1-minute self-test every 28 days and a 30-minute self-test every 6 months. Automatic transfer for brownout conditions and 15-minute retransfer delay. Test switch allows for initiation of a 1, 5, 30 or 60-minute system check. Routine discharge cycles insure optimum battery performance. Meets UL standards for self-testing.

Battery

Maintenance-Free Lead Calcium or Nickel Cadmium with battery recharge per UL time standards.

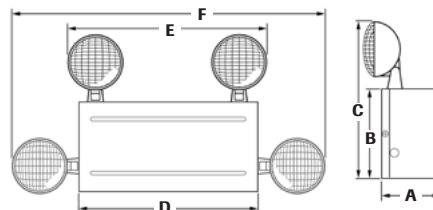
Operating Temperature

Standard Models: 20°C to 30°C (68°F to 86°F)

Damp Models: 10°C to 40°C (50°F to 104°F)

DIMENSIONS

| Enclosure Style | A | B | C | D | E | F |
|----------------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|
| 1 20 Ga. (.036") | 3 7/8" 9.8cm | 5 3/4" 14.6cm | 11 1/2" 29.2cm | 13 1/2" 34.3cm | 15 3/4" 40.0cm | 25" 63.5cm |
| 2 18 Ga. (.048") | 4 3/4" 12.1cm | 7 3/4" 19.7cm | 13 1/2" 34.3cm | 15 3/4" 40.0cm | 18" 45.7cm | 27 1/4" 69.2cm |



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