



| Potência (Power) | Tensão (Voltage)       | Fluxo Luminoso (Luminous flux) |
|------------------|------------------------|--------------------------------|
| 31W              | 85-320Vca / 108-320Vcc | 5664.17 Lm                     |
| 60W              |                        | 7263.88 Lm                     |

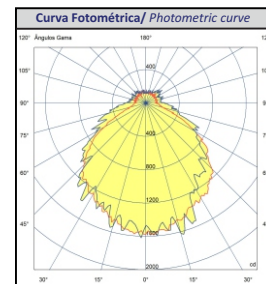
\*Fluxo luminoso referente à CW./ Luminous flux relating to CW.

\*Fluxo luminoso NW e WW solicitar./ Luminous flux NW and WW request.

| Peso/weight (Kg) |                       |                         |
|------------------|-----------------------|-------------------------|
| Potência (Power) | S/ Emerg. (No Emerg.) | C/ Emerg. (with Emerg.) |
| 31W              | 5                     | 6,4                     |
| 60W              | 8,3                   | 10,2                    |

| Marcação/Marking                                |                       |
|-------------------------------------------------|-----------------------|
| Gases                                           | Ex db eb mb IIC T6 Gb |
| Pó (Dusty)                                      | Ex tb IIIC T85 Db     |
| Classe de Temperatura (Temperature Class)       | T6/T85°C              |
| Grau de Proteção (Protection Degree)            | IP66W/IP67W           |
| Zonas (Zones)                                   | 1, 2, 21 e 22         |
| Temperatura de Operação (Operation temperature) | -20°C ≤ Ta ≤ +50°C    |
| Certificado (Certificate)                       | TÜV 20.1190X;         |

| Temperatura de cor CCT- Correlated Color Temperature |       |
|------------------------------------------------------|-------|
| CW                                                   | 6500K |
| NW                                                   | 4000K |
| NW                                                   | 5000K |
| WW                                                   | 3300K |



## Descrição do produto/ Product Description

**Luminária não metálica de segurança aumentada LED MACCOMEVP, com ou sem sistema de emergência.**

**Corpo:** Poliéster reforçado com fibra de vidro;  
**Difusor:** Basculante (Policarbonato de alta resistência mecânica com proteção a raios **UV** - Antiofusco - canelado);  
**IRC:** >70;  
**Aprovações:** LM 80, LM 79;  
**Microchave:** Equipamento de segurança que interrompe a alimentação;  
**Driver:** Eletrônico encapsulado (DPS incorporado);  
**Proteção:** Contra curto circuito, sobretensão, sobrecorrente;  
**Fator de Potência:** > 0,95;  
**Frequência:** 50/60Hz;  
**Bateria:** Autonomia: mínimo 1:30 h. Atendendo à norma NBR 10.898:2013;  
**Entrada:** Por prensa cabo (Ver tabela);  
**Terminais:** Para cabos de até 2,5mm<sup>2</sup>;  
**Aterramento Externo:** Disponível;  
**Impacto:** IK08;  
**Vida Útil:** > 60000 horas;  
**Garantia:** 5 anos;  
**Normas Técnicas:** ABTN NBR IEC 60079-0/1/7/18/31;  
 ABNT NBR IEC 60529  
**Nota:** Outras tensões sob consulta.

**MACCOMEVP LED non-metallic increased safety luminaire, with or without emergency system**

**Body:** glass fibre reinforced polyester;  
**Diffuser:** Tilting (high mechanical resistance polycarbonate with UV protection - anti-glare - corrugated);  
**IRC:** >70;  
**Approvals:** LM 80, LM 79;  
**Microkey:** Safety equipment that interrupts the supply;  
**Driver:** Electronic encapsulated (embedded DPS);  
**Protection:** Against short circuit, over temperature, over voltage, under voltage, over current;  
**Power factor:** > 0.95;  
**Frequency:** 50/60Hz;  
**Battery:** Autonomy: minimum 1:30 h. Complying with NBR 10.898:2013 standard;  
**Input:** By cable press (see table);  
**Terminals:** For cables up to 2.5mm<sup>2</sup>;  
**External Grounding:** Available;  
**Impact:** Ik08;  
**Lifetime:** > 60000 hours;  
**Warranty:** 5 years;  
**Technical standards:** ABTN NBR IEC 60079-0/1/7/18/31;  
 ABNT NBR IEC 60529  
**Note:** Other tensions under consultation.

Suporte Simples de Teto  
Simple ceiling support  
(ST)



Suporte Grampo  
Grampo Support  
(G□)

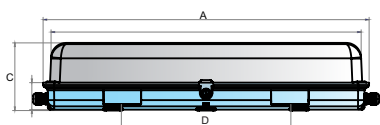


Suporte Teto Parede Angular  
Roof Support Angular Wall  
(TA)



Suporte Olhal  
Olhal support  
(OL)

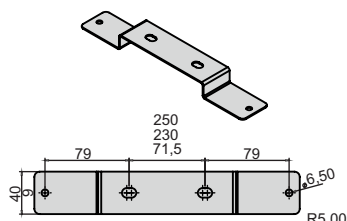




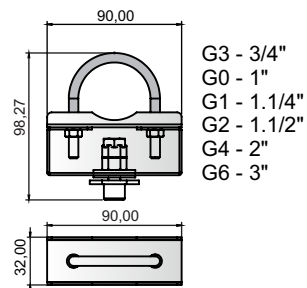
| Tabela de dimensões<br>Table dimensions |      |     |     | D (Entre suportes)<br>D (between supports) |      |
|-----------------------------------------|------|-----|-----|--------------------------------------------|------|
| Potência<br>(Power)                     | A    | B   | C   | ( G, OL, ST)                               | (TA) |
| 31W                                     | 735  | 205 | 120 | 550                                        | 550  |
| 60W                                     | 1334 | 205 | 120 | 800                                        | 800  |

| Sobressalentes/Spore   |                         |
|------------------------|-------------------------|
| Código/Code            | Item/Item               |
| MBATCXNT05             | CJ Bateria 31W          |
| MBATCXNT08             | CJ Bateria 60W          |
| MI0170014              | CJ Difusor 31W          |
| MI0170015              | CJ Difusor 60W          |
| ML010LCJ31C            | CJ barra Led 31W        |
| ML010LCJ56C            | CJ barra Led 60W        |
| MLAVFCJ0063            | CJ Trava do Difusor 31W |
| MLAVF0012              | CJ Trava do Difusor 60W |
| Ver Catálogo de driver | Driver                  |
| MI0170016              | Fecho Plástico          |
| ML0170017              | Fecho Metálico          |
| MLAVFCJ0055            | Inversor 31W            |
| MLAVFCJ0056            | Inversor 60W            |
| MMC777MOMLNF           | Microchave dupla        |
| MMC777MODLNF           | Microchave mono         |
| MLAVFVD2DIF            | Vedação Difusor 31W     |
| MLAVFVD4DIF            | Vedação Difusor 60W     |

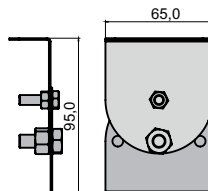
### Suporte simples de Teto (ST) Simple Roof Support



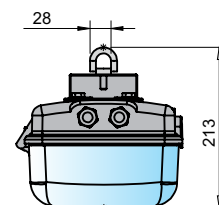
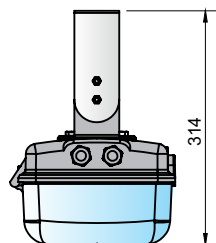
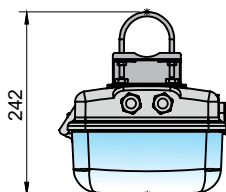
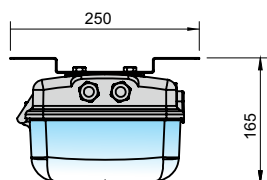
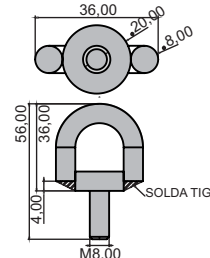
### Suporte Grampo (G□) Clip support



### Suporte Teto parede Angular(TA) Angular wall ceiling support



### Suporte Olhal (OL) Olhal Support



| PRENSA CABOS E/OU TAMPÕES<br>(Cable and/or buffer Press) |                   |                     | ALUMÍNIO | LATÃO<br>NIQUELADO | AÇO INOX        | POLIAMIDA |
|----------------------------------------------------------|-------------------|---------------------|----------|--------------------|-----------------|-----------|
| MODELO<br>(Model)                                        | ROSCA<br>(Thread) | RANGE<br>(Range)    | Aluminum | Nickel brass       | Stainless steel | Polyamide |
| A2F 148                                                  | M20P              | 3,5-11,5            | 02A      | 02L                | 02I             | N/A       |
|                                                          | M20G              | 8,0-16,0            | 03A      | 03L                | 03I             |           |
|                                                          | M25P              | 8,0-16,0            | 04A      | 04L                | 04I             |           |
|                                                          | M25               | 13,0-20,0           | 05A      | 05L                | 05I             |           |
| E1F 147                                                  | M20P              | 8,0-11,5/12,9-15,8  | 07A      | 07L                | 07I             |           |
|                                                          | M20G              | 11,0-13,5/15,5-20,8 | 08A      | 08L                | 08I             |           |
|                                                          | M25               | 13,0-19,5/20,3-27,2 | 09A      | 09L                | 09I             |           |
| E1F 160                                                  | M20P              | 6,0-12,0/9,5-16,0   | 10A      | 10L                | 10I             |           |
|                                                          | M20G              | 8,0-14,0/12,5-21,0  | 11A      | 11L                | 11I             |           |
|                                                          | M25               | 10,5-19,5/16,5-25,0 | 12A      | 12L                | 12I             |           |
|                                                          | M25P              | 8,0-14,0/12,5-21,0  | 13A      | 13L                | 13I             |           |
| A2 159                                                   | M20P              | 6,0-12,0            | N/A      |                    |                 | 15P       |
|                                                          | M20               | 10,0-14,0           |          |                    |                 | 16P       |
|                                                          | M25               | 6,0-14,0            |          |                    |                 | 17P       |
|                                                          | M25G              | 14,0-18,0           |          |                    |                 | 18P       |
| TAMPÃO<br>(Cap)<br>158                                   | M20               | N/A                 | 20A      | 20L                | 20I             | 20P       |
|                                                          | M25               |                     | 21A      | 21L                | 21I             | 21P       |

\* Padrão de fornecimento Poliamida M25 (6-14mm) MAC.EXE.159

\* Supply standard Polyamide M25 (6-14mm) MAC.EXE.159

**Código raiz  
(Main code)  
Maccomevap**

**Potência  
(Power)**  
31 = 31W  
60 = 60W

**Suporte(Support)**  
De acordo com desenhos acima  
(According to the drawings above)  
Ex: ST - Suporte simples de teto  
(Simple ceiling support)

**ML017A** **B** **31** **C** **9S** **M** **ST**

**TCC<sup>1</sup>**  
C - CW=6500k  
M - NW=4000k  
N - NW=5000k  
W - WW=3300k

**Tensão (Voltage)**  
9S - 85~320 Vca/108~250 Vcc  
3N - 100~240 Vca/Vcc (Emerg. ON-ON)  
3F - 100~240 Vca/Vcc (Emerg. OFF-ON)  
ES - 2(drivers) 85~320 Vca/108~250Vca<sup>4</sup>

**Refletora (Reflective)**  
M- Metálico/Metallic (Padrão/Standard)  
P - Não metálico/ Non-metallic

**Funcionamento  
Sistemas de emergência  
Operation  
Emergency systems**

| LED     | ON/ON <sup>1</sup> | OFF/ON <sup>2</sup> |
|---------|--------------------|---------------------|
| 2x15,5W | 1x7W               | 2x3,5W              |
| 2x30W   | 1x10W              | 1x10W               |

**17P 17P 21P 21P**  
**A B C D**

**Nota: As entradas não escolhidas devem ser preenchidas com "000"./  
Note: Unselected entries must be filled in with "000".**

**ON/ON<sup>1</sup>** - Luminária "LIGADA" e continua "LIGADA" na falta de energia.  
(Luminaire "LIGADA" and continues "LIGADA" in the absence of power.)  
**OFF/ON<sup>2</sup>** - Luminária "DESLIGADA" e "LIGADA" na falta de energia.  
(Luminaire "OFF" and "ON" in power failure).

<sup>3</sup> - Dois drivers, ligação independente. (Somente sem emergência)  
Two drivers, independent connection. (Only without emergency)

<sup>4</sup> - TCC - Temperatura de cor correlata (Correlated color temperature)

\* Outras conexões sob consulta (Other connections on request)