

Datasheet

# SQUARE L & XL



02/05/23 © MCI LIGHT

# SQUARE L & XL

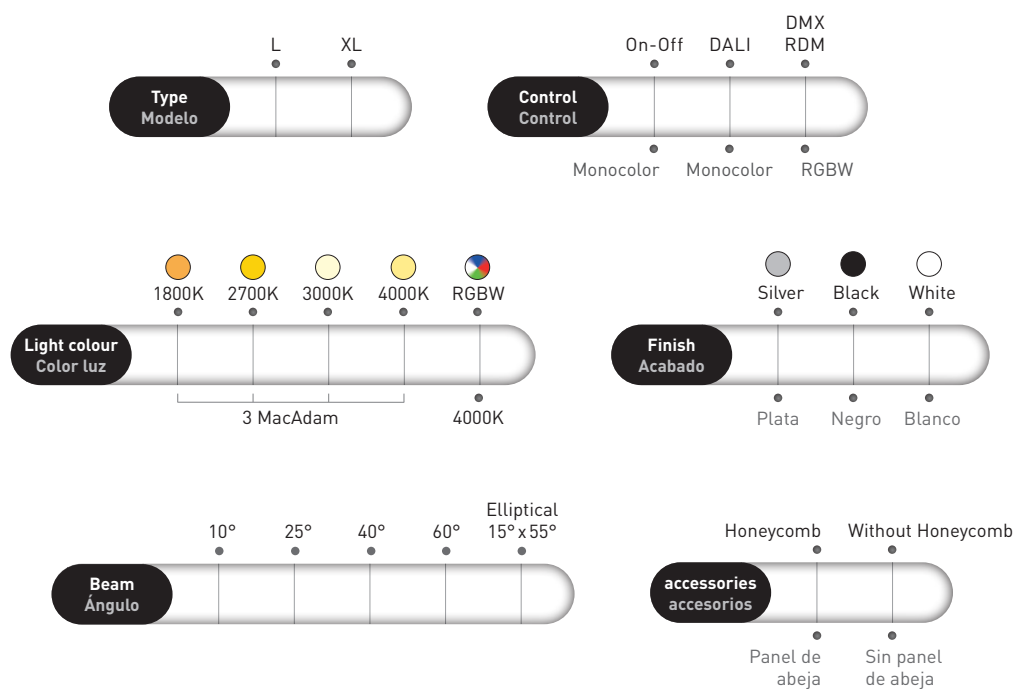
- Architectural accent lighting
- Luminous flux range from 3700 lm to 18400 lm
- Variety of types and power (from 45W to 180 W)
- Available models with 5 beam angles and 5 color temperatures
- 1800K color temperature for Monumental lighting
- Integrated driver
- Easy chain connection
- Luz para acentuar la arquitectura
- Flujos lumínicos de 3700 lm a 18400 lm
- Gran variedad de modelos y potencias (desde 45W hasta 180W)
- Modelos disponibles en 5 ópticas y 5 temperaturas de color
- Temperatura de color 1800K (color vapor de sodio) para iluminación ornamental
- Equipo integrado en la luminaria
- Fácil conexión en cadena



Square L



Square XL



The standard version is delivered with 25° beam & without honeycomb.  
La versión estándar se suministra con ángulo de 25° y sin panel.

## SPECIFICATIONS CARACTERÍSTICAS

|                                                                                   |                |                |      |      |        |                 |                |            |               |                            |                                 |                                 |                                                      |                                                                                     |
|-----------------------------------------------------------------------------------|----------------|----------------|------|------|--------|-----------------|----------------|------------|---------------|----------------------------|---------------------------------|---------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------|
|  | 100-305V<br>AC | 220-240V<br>AC | IP66 | IK08 | CRI>80 | CRI>70<br>1800K | on/off<br>DALI | DMX<br>RDM | AL<br>Housing | Security<br>GLASS<br>Cover | L80 B10<br>>60.000h<br>Ta +25°C | L90 B10<br>>60.000h<br>Ta +25°C | Ta<br>min -20°C<br>-4°F<br>Ta<br>max +50°C<br>+122°F |  |
| Monocolor                                                                         |                | RGBW           |      |      |        |                 | Monocolor      | RGBW       |               |                            | Monocolor                       | RGBW                            |                                                      |                                                                                     |

### Square L 45W (low output)

| Power                | 45 W                        |               |                |                |
|----------------------|-----------------------------|---------------|----------------|----------------|
| Color temperatures   | 1800K                       | 2700K         | 3000K          | 4000K          |
| Lumens               | 10° - 4251 lm               | 4344 lm       | 4621 lm        | 4621 lm        |
| output               | 25° - 4069 lm               | 4157 lm       | 4423 lm        | 4423 lm        |
|                      | 40° - 3703 lm               | 3782 lm       | 4025 lm        | 4025 lm        |
|                      | 60° - 3884 lm               | 3968 lm       | 4221 lm        | 4221 lm        |
|                      | 15°x 55° - 3977 lm          | 4064 lm       | 4323 lm        | 4323 lm        |
| Luminaire efficiency | 83 to 94 lm/W               | 84 to 96 lm/W | 89 to 102 lm/W | 89 to 102 lm/W |
| Measures / Weight    | 296 x 260 x 100 mm / 4,5 kg |               |                |                |

### Square L 90W (high output)

| Power                | 90 W                        |               |                |                |
|----------------------|-----------------------------|---------------|----------------|----------------|
| Color temperatures   | 1800K                       | 2700K         | 3000K          | 4000K          |
| Lumens               | 10° - 8502 lm               | 8688 lm       | 9242 lm        | 9242 lm        |
| output               | 25° - 8137 lm               | 8314 lm       | 8845 lm        | 8845 lm        |
|                      | 40° - 7406 lm               | 7563 lm       | 8050 lm        | 8050 lm        |
|                      | 60° - 7767 lm               | 7935 lm       | 8441 lm        | 8443 lm        |
|                      | 15°x 55° - 7954 lm          | 8127 lm       | 8646 lm        | 8646 lm        |
| Luminaire efficiency | 83 to 94 lm/W               | 84 to 96 lm/W | 89 to 102 lm/W | 89 to 102 lm/W |
| Measures / Weight    | 296 x 260 x 100 mm / 4,5 kg |               |                |                |

### Square L 66W (medium output)

| Power                | 66 W                        |               |                |                |
|----------------------|-----------------------------|---------------|----------------|----------------|
| Color temperatures   | 1800K                       | 2700K         | 3000K          | 4000K          |
| Lumens               | 10° - 6334 lm               | 6473 lm       | 6885 lm        | 6885 lm        |
| output               | 25° - 6092 lm               | 6194 lm       | 6590 lm        | 6590 lm        |
|                      | 40° - 5517 lm               | 5635 lm       | 5997 lm        | 5997 lm        |
|                      | 60° - 5786 lm               | 5912 lm       | 6289 lm        | 6289 lm        |
|                      | 15°x 55° - 5926 lm          | 6055 lm       | 6441 lm        | 6441 lm        |
| Luminaire efficiency | 85 to 95 lm/W               | 85 to 98 lm/W | 90 to 104 lm/W | 90 to 104 lm/W |
| Measures / Weight    | 296 x 260 x 100 mm / 4,5 kg |               |                |                |

### Square L RGBW 70W

| Power                | 70 W                        |                |               |               |               |
|----------------------|-----------------------------|----------------|---------------|---------------|---------------|
| Color temperatures   | R                           | G              | B             | W             | RGBW          |
| Lumens               | 10° - 294 lm                | 1905 lm        | 426 lm        | 1665 lm       | 4219 lm       |
| output               | 25° - 280 lm                | 1823 lm        | 408 lm        | 1593 lm       | 4039 lm       |
|                      | 40° - 255 lm                | 1660 lm        | 372 lm        | 1450 lm       | 3676 lm       |
|                      | 60° - 268 lm                | 1741 lm        | 390 lm        | 1521 lm       | 3855 lm       |
|                      | 15°x 55° - 274 lm           | 1783 lm        | 399 lm        | 1557 lm       | 3948 lm       |
| Luminaire efficiency | 14 to 17 lm/W               | 94 to 108 lm/W | 21 to 24 lm/W | 82 to 95 lm/W | 52 to 60 lm/W |
| Measures / Weight    | 296 x 260 x 100 mm / 4,5 kg |                |               |               |               |

### Square XL 134W (medium output)

| Power                | 134 W                        |               |                |                |
|----------------------|------------------------------|---------------|----------------|----------------|
| Color temperatures   | 1800K                        | 2700K         | 3000K          | 4000K          |
| Lumens               | 10° - 12669 lm               | 12945 lm      | 13771 lm       | 13771 lm       |
| output               | 25° - 12125 lm               | 12388 lm      | 13181 lm       | 13181 lm       |
|                      | 40° - 11036 lm               | 11270 lm      | 11995 lm       | 11995 lm       |
|                      | 60° - 11574 lm               | 11825 lm      | 12579 lm       | 12579 lm       |
|                      | 15°x 55° - 11852 lm          | 12111 lm      | 12883 lm       | 12883 lm       |
| Luminaire efficiency | 83 to 94 lm/W                | 84 to 96 lm/W | 89 to 102 lm/W | 89 to 102 lm/W |
| Measures / Weight    | 310 x 497 x 118 mm / 10,3 kg |               |                |                |

### Square XL RGBW 140W

| Power                | 140W                         |                |               |               |               |
|----------------------|------------------------------|----------------|---------------|---------------|---------------|
| Color temperatures   | R                            | G              | B             | W             | RGBW          |
| Lumens               | 10° - 588 lm                 | 3810 lm        | 852 lm        | 3330 lm       | 8438 lm       |
| output               | 25° - 560 lm                 | 3646 lm        | 816 lm        | 3186 lm       | 8078 lm       |
|                      | 40° - 510 lm                 | 3320 lm        | 744 lm        | 2900 lm       | 7352 lm       |
|                      | 60° - 536 lm                 | 3482 lm        | 780 lm        | 3042 lm       | 7710 lm       |
|                      | 15°x 55° - 548 lm            | 3566 lm        | 798 lm        | 3114 lm       | 7896 lm       |
| Luminaire efficiency | 14 to 17 lm/W                | 94 to 108 lm/W | 21 to 24 lm/W | 82 to 95 lm/W | 52 to 60 lm/W |
| Measures / Weight    | 310 x 497 x 118 mm / 10,3 kg |                |               |               |               |

### Square XL 180W (high output)

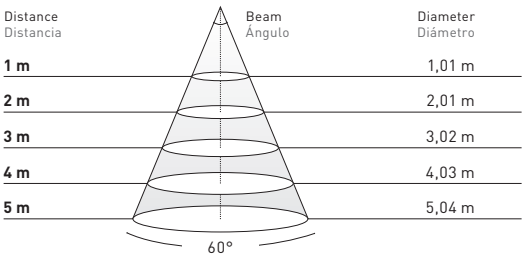
| Power                | 180 W                        |               |                |                |
|----------------------|------------------------------|---------------|----------------|----------------|
| Color temperatures   | 1800K                        | 2700K         | 3000K          | 4000K          |
| Lumens               | 10° - 17005 lm               | 17376 lm      | 18484 lm       | 18484 lm       |
| output               | 25° - 16275 lm               | 16628 lm      | 17690 lm       | 17690 lm       |
|                      | 40° - 14813 lm               | 15126 lm      | 16100 lm       | 16100 lm       |
|                      | 60° - 15535 lm               | 15870 lm      | 16882 lm       | 16886 lm       |
|                      | 15°x 55° - 15909 lm          | 16254 lm      | 17292 lm       | 17292 lm       |
| Luminaire efficiency | 83 to 94 lm/W                | 84 to 96 lm/W | 89 to 102 lm/W | 89 to 102 lm/W |
| Measures / Weight    | 310 x 497 x 118 mm / 10,3 kg |               |                |                |



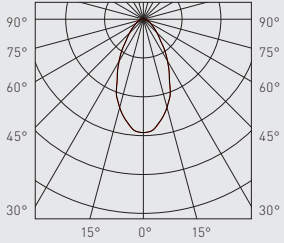
# SQUARE L & XL

## LIGHT DISTRIBUTION CURVES FOTOMETRÍAS

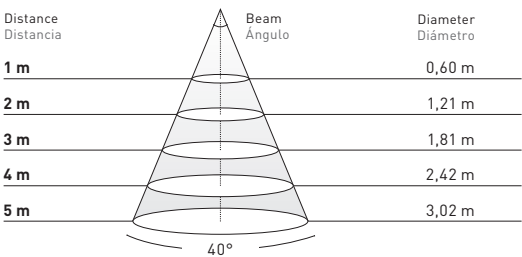
### Square L monocolor 90W



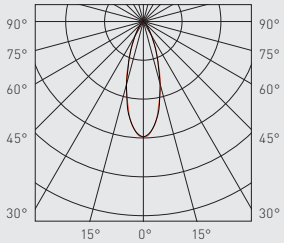
| 1800K    | 2700K    | 3000K     | 4000K     |
|----------|----------|-----------|-----------|
| 3881 lux | 4099 lux | 4.361 lux | 4.361 lux |
| 970 lux  | 1024 lux | 1.090 lux | 1.090 lux |
| 431 lux  | 455 lux  | 485 lux   | 485 lux   |
| 242 lux  | 256 lux  | 273 lux   | 273 lux   |
| 154 lux  | 163 lux  | 174 lux   | 174 lux   |



### Square L RGBW 70W



| RGBW      |
|-----------|
| 4.701 lux |
| 1.175 lux |
| 522 lux   |
| 294 lux   |
| 188 lux   |



Data calculated with **Square L (40°) (60°)**.  
Lumen measurement complies with **UNE-EN 13032 / IES LM-79-08** testing procedures.  
Light distribution curves are available at [www.grupo-mci.com](http://www.grupo-mci.com).  
Due to continuous improvements and innovations, specifications may change without notice.

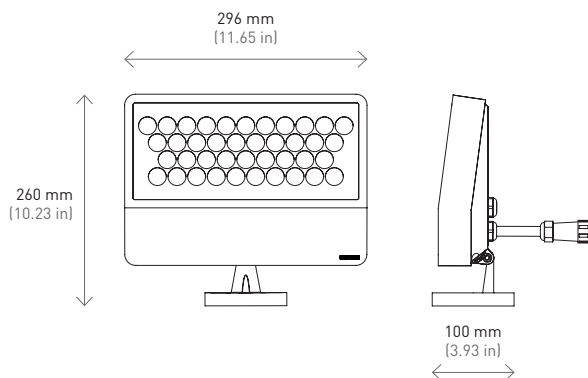
Datos calculados con **Square L (40°) (60°)**.  
Ensayado bajo las especificaciones de la norma **UNE-EN 13032 / IES LM-79-08**.  
Fotometrías disponibles en [www.grupo-mci.com](http://www.grupo-mci.com).  
Debido a las continuas mejoras e innovaciones, las especificaciones pueden cambiar sin previo aviso.



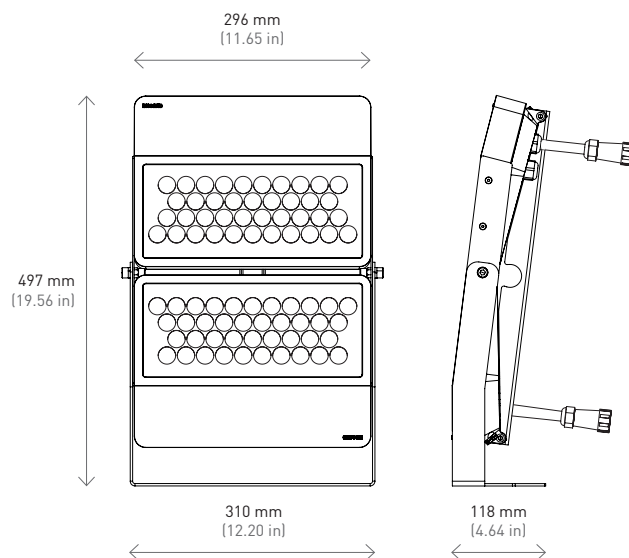
Underpasses,  
Tangier, Morocco

## MEASURES MEDIDAS

### Square L



### Square XL

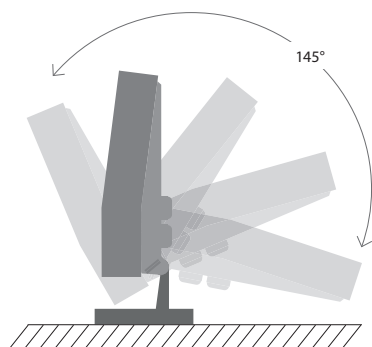


## ROTATION ROTACIÓN

Its elegant and sophisticated design allow us to illuminate to all directions with an exact precision, due to its tool head, movable in horizontal and vertical way. Su diseño elegante y sofisticado nos permite iluminar en todas direcciones con una precisión exacta, gracias a su cabezal orientable en horizontal y vertical.

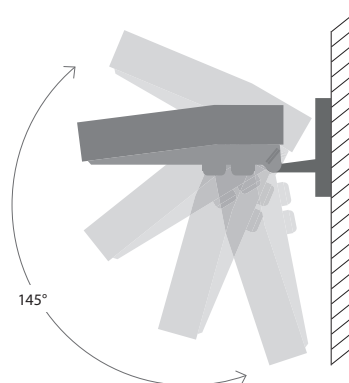
### Square L

Side view  
Vista lateral



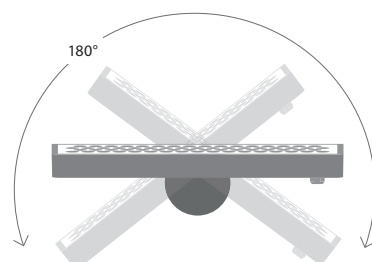
### Square L

Side view  
Vista lateral



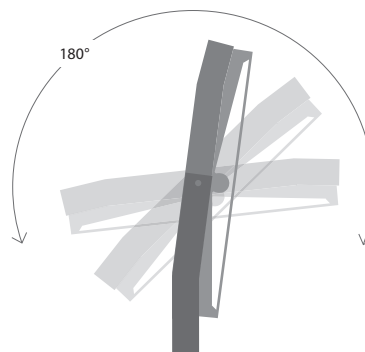
### Square L

Top view  
Planta



### Square XL

Side view  
Vista lateral





# SQUARE L & XL

## FINISHES ACABADOS

In order to satisfy all our customers, three different versions are available: silver, black and white.  
Con el fin de satisfacer las necesidades de nuestros clientes, está disponible en tres acabados: plata, negro y blanco.



Silver  
Plata (RAL 9006)



Black  
Negro (RAL 9011)



White  
Blanco (RAL 9003)



Qatar Handball Association Complex,  
Doha, Qatar

## DETAILS DETALLES



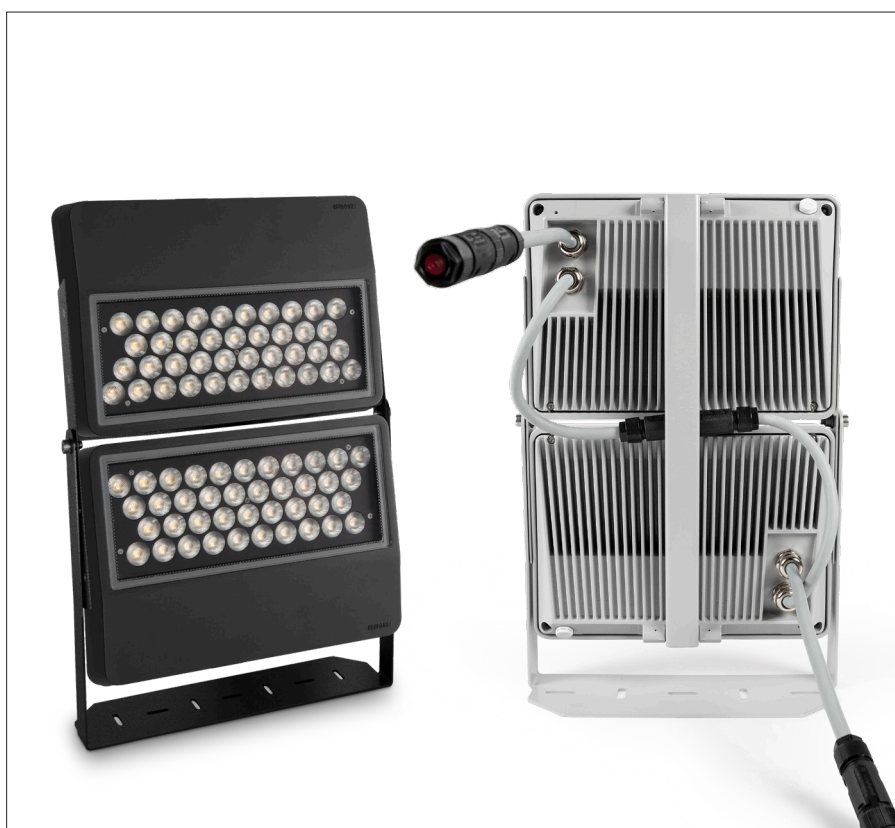
Passive heat sink.  
Disipador de calor pasivo.



Static load test: 5,4 kN  
Test carga estática: 5,4 kN



Black Visor anti-glare  
Visera antideslumbrante negra



Monolithic tempered glass ensures high security protection, stability and hardness.  
Cristal de seguridad monolítico templado que garantiza una alta protección, estabilidad y dureza.



GORE pressure equalize valve  
Válvula de control de presión atmosférica GORE

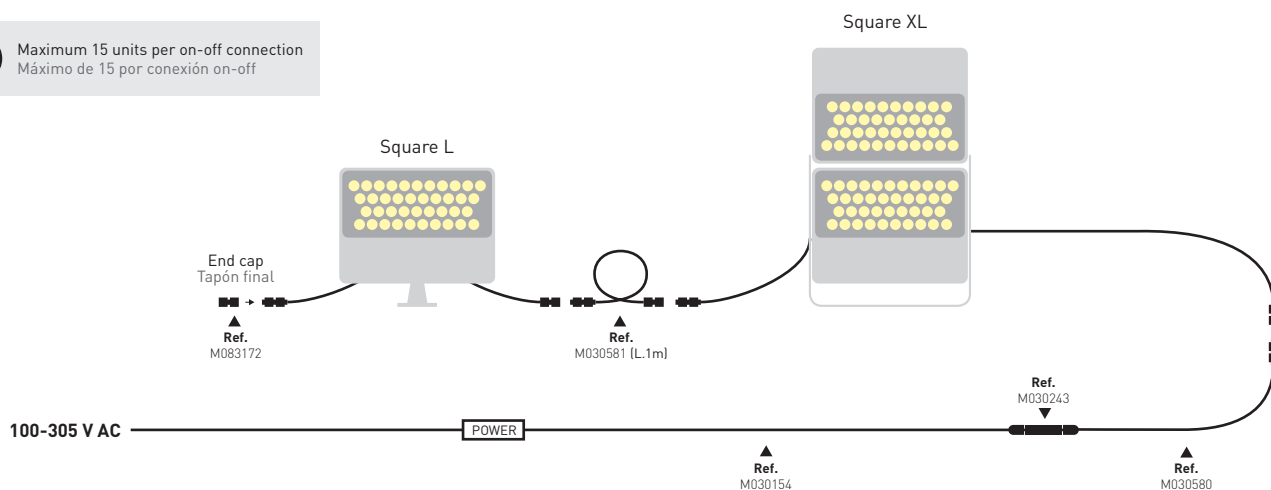


Black Visor anti-glare  
Visera antideslumbrante negra

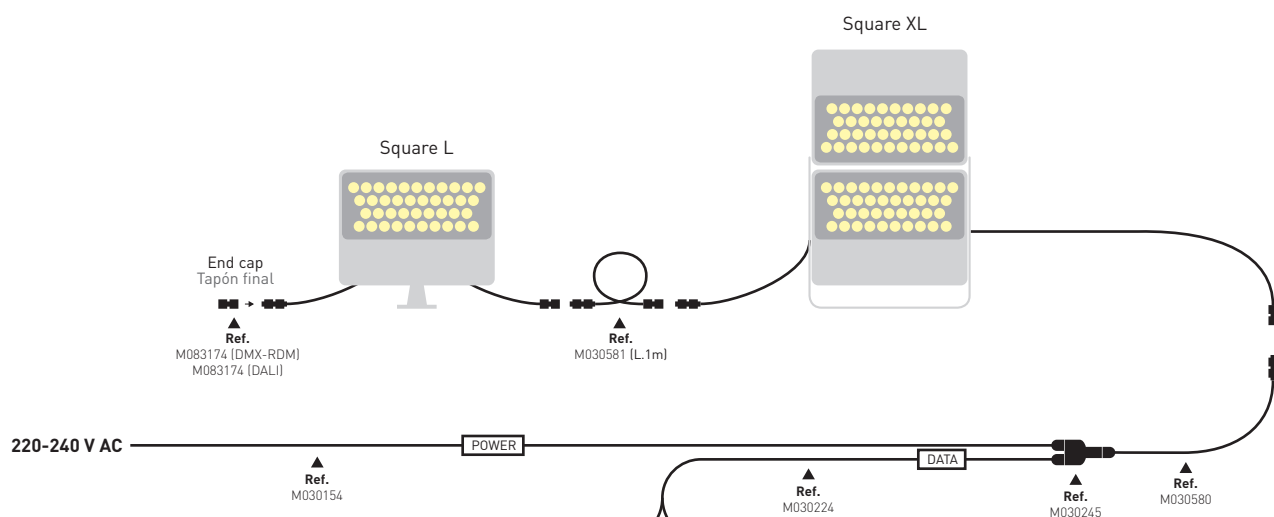
# SQUARE L & XL

## MONOCOLOR ON/OFF CONNECTIONS CONEXIONES ON/OFF MONOCOLOR

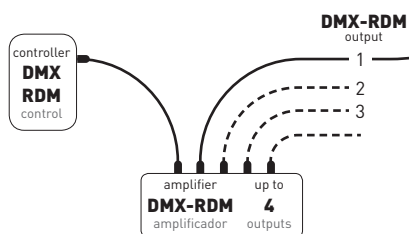
**!** Maximum 15 units per on-off connection  
Máximo de 15 por conexión on-off



## DMX-RDM & DALI CONNECTIONS CONEXIONES DMX-RDM & DALI



**MORE THAN 15 SQUARE GRAZER® WITH DMX-RDM.**  
**PARA MÁS DE 15 SQUARE GRAZER® CON DMX-RDM.**

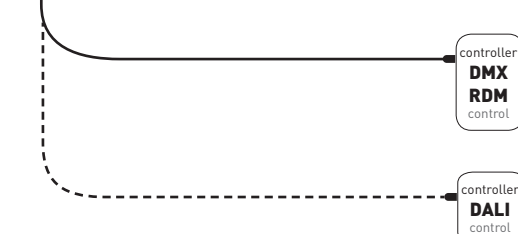


**MORE THAN 15 SQUARE GRAZER® WITH DMX-RDM.**  
**PARA MÁS DE 15 SQUARE GRAZER® CON DMX-RDM.**

Maximum 15 Square Grazer® per DMX-RDM output.  
Maximum 100 m from controller to the amplifier.  
Maximum 100 m from amplifier to last Square Grazer®.

Máximo 15 Square Grazer® por salida DMX-RDM.  
Máximo 100 m del controlador al amplificador.  
Máximo 100 m del amplificador al último Square Grazer®.

**UP TO 15 SQUARE GRAZER® WITH DMX-RDM & DALI.**  
**HASTA 15 SQUARE GRAZER® CON DMX-RDM & DALI.**



**UP TO 15 SQUARE GRAZER® WITH DMX-RDM & DALI.**  
**PARA MENOS DE 15 SQUARE GRAZER® CON DMX-RDM & DALI.**

Maximum 15 Square Grazer® per DMX-RDM controller.  
Maximum 100 m from controller to last Square Grazer®.  
Follow connection diagram type B for DALI installations.

Máximo 15 Square Grazer® por controlador DMX-RDM.  
Máximo 100 m del controlador al último Square Grazer®.  
Para instalación DALI seguir el conexionado tipo B.



## REFERENCES REFERENCIAS

75007 X X X /XX/XXX

### COLOUR COLOR

|         |                    |
|---------|--------------------|
| /70/1K8 | 1800K              |
| /80/2K7 | 2700K              |
| /80/3K  | 3000K              |
| /80/4K  | 4000K              |
| /11-4K  | RGBW (white 4000K) |

### TYPE MODELO

|   |                                     |
|---|-------------------------------------|
| 1 | Square L (45W)                      |
| 2 | Square L (66W)(Mo)   (70W)(RGBW)    |
| 3 | Square L (90W)                      |
| 4 | Square XL (134W)(Mo)   (140W)(RGBW) |
| 5 | Square XL (180W)                    |

### FINISHES ACABADOS

|   |        |        |            |
|---|--------|--------|------------|
| 0 | Silver | Plata  | (RAL 9006) |
| 2 | Black  | Negro  | (RAL 9011) |
| 3 | White  | Blanco | (RAL 9003) |

### CONTROL CONTROL

|   |                    |
|---|--------------------|
| 1 | On-Off (Monocolor) |
| 3 | DALI (Monocolor) * |
| 5 | DMX RDM (RGBW)**   |

\* DALI control can only be configured with type 3 and 5.

\* Control DALI solo se puede configurar con el modelo 3 y 5.

\*\* DMX RDM control can only be configured with type 2 and 4.

\*\* Control DMX-RDM solo se puede configurar con el modelo 2 y 4.

## OPTIONS OPCIONES

### BEAM ÁNGULO

|                |
|----------------|
| 10°            |
| 25° (Standard) |
| 40°            |
| 60°            |
| 15°x 55°       |

### HONEYCOMB PANEL DE ABEJA (IP20)

|                   |                               |
|-------------------|-------------------------------|
| Honeycomb         | Panel de abeja                |
| Without Honeycomb | Sin panel de abeja (Standard) |

The Honeycomb must be ordered together with the lighting fixture.  
El Panel de abeja debe pedirse junto con la luminaria.

## ACCESSORIES REFERENCES REFERENCIAS ACCESORIOS



|                              |                                                  |                                                  |   |
|------------------------------|--------------------------------------------------|--------------------------------------------------|---|
| M030580                      | 2 m power cable (5 poles-female)                 | Cable alimentación 2 m (5 polos-hembra)          | 1 |
| M030581                      | 1 m extension cable (5 poles)                    | Cable extensión 1 m (5 polos)                    | 2 |
| M083172                      | End cap (female) On-off   DALI                   | Tapón final (hembra) On-off   DALI               |   |
| M083174                      | 120 OHM end cap (5 poles-male) DMX RDM           | Tapón final 120 OHM (5 polos-macho) DMX RDM      | 3 |
| For electrical installation. |                                                  | Para instalación eléctrica.                      |   |
| M030243                      | IP68 "I" connection Ø6-13,5mm Tee Tube (3 poles) | Conexión "I" Ø6-13,5mm IP68 Tee Tube (3 polos)   | 4 |
| M030245                      | IP68 "Y" connection Ø6-17mm Tee Tube (5 poles)   | Conexión "Y" Ø6-17mm IP68 Tee Tube (5 polos)     | 5 |
| M030154                      | 3 x 1,5 mm² H07RN-F cable (m)                    | Cable 3 x 1,5 mm² H07RN-F (m)                    |   |
| PE003698                     | 3 x 1,5 mm² AFUMEX FIRS cable "Indoor use" (m)   | Cable 3 x 1,5 mm² AFUMEX FIRS "Uso interior" (m) |   |
| M030224                      | BELDEN 3105A cable (m)                           | Cable BELDEN 3105A (m)                           |   |
| 7150203                      | DMX Addresser Setup                              | DMX Addresser Setup                              | 6 |
| To do extensions cables      |                                                  | Para hacer extensiones de cables                 |   |
| M083166                      | IP68 connector (5 poles-male)                    | Conector aereo IP68 (5 polos-macho)              | 7 |
| M083173                      | End cap (male)                                   | Tapón final (macho)                              |   |
| M083167                      | IP68 connector (5 poles-female)                  | Conector aereo IP68 (5 polos-hembra)             | 8 |
| M083172                      | End cap (female) On-off   DALI                   | Tapón final (hembra) On-off   DALI               |   |
| M030400/C12                  | 2 x AWG22 + 3 x 1,5 mm² cable (m)                | Cable 2 x AWG22 + 3 x 1,5 mm² (m)                |   |
| 75007901/C13                 | L Visor                                          | Visera L                                         |   |
| 75007902/C13                 | XL Visor                                         | Visera XL                                        |   |

# SQUARE L & XL

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Due to continuous improvements and innovations, specifications may change without notice.  
Debido a continuas mejoras e innovaciones, las especificaciones pueden ser modificadas sin notificación.

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