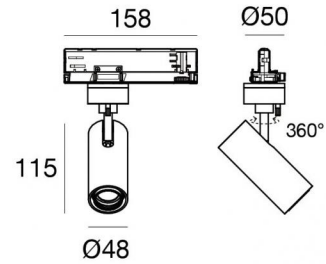




Proyectores | 198-264 V
1 arrayLED 13 W DC - 15.5 W AC | CRI 90
82228M60



Datos técnicos

| | |
|---|-------------------|
| Tipo | Carril |
| Posición de instalación | Techo |
| Ambiente de instalación | Interiores |
| Fuente de luz | LED |
| Circuit structure | arrayLED |
| Óptica | Medium Wide Flood |
| Light emission direction | frontal |
| Potencia nominal | 13 W DC |
| Poder total | 15.5 W |
| Flujo luminoso (fuente) | 1487 lm |
| Tensión nominal de entrada | 220 - 240 V AC |
| Rango de voltaje de entrada | 198 - 264 V AC |
| Frequency | 50 - 60 Hz |
| CCT / Tone | 2700 K |
| Índice de rendimientos cromático | 90 Ra |
| C.C. / C.V. | AC |
| Clase de aislamiento | 2 |
| IP | IP20 |
| Test del hilo incandescente | 850° |
| Montaje directo sobre superficies normalmente inflamables | Sí |
| CE | Sí |
| Driver incluido. | driver |
| Artículo regulable | Dimming on Board |
| Orientabilidad | Orientabile |
| ángulo total (plano vertical) | 90 ° |
| ángulo total (plano horizontal) | 360 ° |
| Basculación | No |
| Practicabilidad | No |
| Transitabilidad | No |
| Cable incluido. | No |
| Resinado | No |
| Tipología de emisión luminosa | Una emisión |
| Peso neto | 0.39 Kg |
| Protección descargas electrostáticas | Sí |
| Protección contra sobretensiones | 2 KV |
| Tecnología óptica | Anti - Glare |

Acabado cuerpo

| | |
|-------------|--------------------------------|
| Material | Aluminio fundido EN AB - 46100 |
| Color | Negro |
| Elaboración | Recubrimiento en polvo |



Proyectores | 198-264 V | 1 arrayLED 13 W DC - 15.5 W AC | CRI 90
82228M60

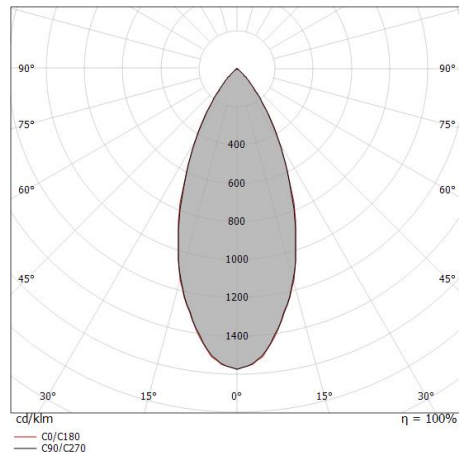
Single emission projectors for indoor application. The super warm white LED light source with a medium wide flood light distribution is composed of 1 arrayed LEDs with CCT of 2700 K and a CRI 90; the source luminous flux is 1487 lm, with a 114.4 lm/W nominal luminous efficacy.

The device body is made of die-cast aluminium en ab - 46100 and features a black finish, processed by means of powder coating. The ingress protection degree is IP20; the total weight is of 0.39 kg.

The total absorbed power is 15.5 W.

The device features protection class II and can be ceiling-mounted.

Compliant with the EN 60598-1 standard and its specific provisions.



| Distance [m] | Cone diameter [m] | illuminance [lx] |
|--------------|-------------------|---|
| 0.5 | 0.40 0.41 | E(0°) 5825 E(C90) 2335 E(C0) 2313 |
| 1.0 | 0.81 0.83 | E(0°) 1456 E(C90) 584 E(C0) 578 |
| 1.5 | 1.21 1.24 | E(0°) 647 E(C90) 259 E(C0) 257 |
| 2.0 | 1.62 1.66 | E(0°) 364 E(C90) 146 E(C0) 145 |
| 2.5 | 2.02 2.07 | E(0°) 233 E(C90) 93 E(C0) 93 |
| 3.0 | 2.42 2.49 | E(0°) 162 E(C90) 65 E(C0) 64 |

— C0/C180 (Half-peak divergence: 45.0°)
 — C90/C270 (Half-peak divergence: 44.0°)

Clase de eficiencia energética

Este producto contiene una fuente de luz de clase de eficiencia energética E.

Características Luminotécnicas

| | |
|---|----------------|
| Light Output Ratio (LOR) | 62 % |
| Flujo luminoso (fuente) | 1487 lm |
| Flujo luminoso de luminaria | 926 lm |
| Consumption | 15.5 W |
| Rendimiento luminoso de las luminarias | 59 lm/W |
| Temperatura de color | 2700 K |
| Standard Deviation of Colour Matching | 2 Step MacAdam |
| Índice de rendimientos cromático | 90 Ra |
| Colour Rendering Index | 60 R9 |
| Black Body Locus | On |
| Temperatura estándar del ambiente de servicio | -20 / +50°C |
| Temperatura típica sobre el vidrio | 40°C |

LED Life / Failure Ratio

L70 B10 C0 252000h (at Tj 65 Ta 25)

UGR

| | |
|-------------------|----------|
| UGR axial | 23.7 |
| UGR transversal | 23.6 |
| X=4H Y=8H | S=0.25H |
| Reflection factor | 70/50/20 |

OPTICAL

| | |
|----------------|-----|
| Óptica C0/C180 | 44° |
| Symmetrical | |





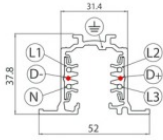
| | | |
|--|--|-------------------------------------|
| | <p>Óptica Distribución de la luz: spot,Material de revestimiento: policarbonato resistente a los rayos uv</p> | <p>Code <u>99805</u></p> |
| | <p>Óptica Distribución de la luz: medium flood,Material de revestimiento: ,policarbonato resistente a los rayos uv,policarbonato resistente a los rayos uv,policarbonato resistente a los rayos uv</p> | <p>Code <u>99806</u></p> |
| | <p>Óptica Distribución de la luz: flood,Material de revestimiento: ,policarbonato resistente a los rayos uv,policarbonato resistente a los rayos uv,policarbonato resistente a los rayos uv</p> | <p>Code <u>99807</u></p> |
| | <p>antideslumbramiento Tipo antideslumbrante: schermo cilindrico 45°. Material:Pom-C, color:Negro.</p> | <p>Code <u>99773</u></p> |
| | <p>antideslumbramiento Tipo antideslumbrante: schermo cilindrico. Material:Pom-C, color:Negro.</p> | <p>Code <u>99774</u></p> |
| | <p>Difusor Tipo de difusor: filtro ellittico. Material:Pom-C, color:Negro.</p> | <p>Code <u>99775</u></p> |
| | <p>antideslumbramiento Tipo antideslumbrante: louvre de nido de abeja. Material:Pom-C, color:Negro.</p> | <p>Code <u>99776</u></p> |
| | <p>antideslumbramiento Tipo antideslumbrante: frangiluce a croce. Material:Pom-C, color:Negro.</p> | <p>Code <u>99777</u></p> |



| | | | | |
|--|--|--|--------------------------------|------------------------------|
| | | <p>Carril Largo: 1000mm; Tipo carril: Standard. Material:aluminio, color:Blanco, elaboración :Pintura.</p> | <p>Finish White</p> | <p>Code 83336</p> |
| | | <p>Carril Largo: 2000mm; Tipo carril: Standard. Material:aluminio, color:Blanco, elaboración :Pintura.</p> | <p>Finish White</p> | <p>Code 83337</p> |
| | | <p>Carril Largo: 2000mm; Tipo carril: Standard. Material:aluminio, color:Blanco, elaboración :Pintura.</p> | <p>Finish White</p> | <p>Code 80991</p> |
| | | <p>Carril Largo: 2000mm; Tipo carril: Standard. Material:aluminio, color:Negro, elaboración :Pintura.</p> | <p>Finish Black</p> | <p>Code 83340</p> |
| | | <p>Carril Largo: 3000mm; Tipo carril: Standard. Material:aluminio, color:Negro, elaboración :Pintura.</p> | <p>Finish Black</p> | <p>Code 80995</p> |
| | | <p>Fuente de alimentación Material:PC, color:blanco.</p> | | <p>Code 81033</p> |
| | | <p>Fuente de alimentación Material:PC, color:negro.</p> | | <p>Code 81034</p> |
| | | <p>Carril Largo: 2000mm; Tipo carril: Standard. Material:aluminio, color:Negro, elaboración :Pintura.</p> | <p>Finish Black</p> | <p>Code 80994</p> |

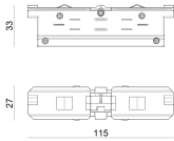


| | | <p>Carril Largo: 3000mm; Tipo carril: Standard. Material:aluminio, color:Blanco, elaboración :Pintura.</p> | <table border="1"> <thead> <tr> <th>Finish</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>White</td> <td>83338</td> </tr> </tbody> </table> | Finish | Code | White | 83338 |
|--------|-------|--|---|--------|-------|-------|-------|
| Finish | Code | | | | | | |
| White | 83338 | | | | | | |
| | | <p>Unión Tipo linear. Material:PC, color:negro.</p> | <table border="1"> <thead> <tr> <th>Finish</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Black</td> <td>81043</td> </tr> </tbody> </table> | Finish | Code | Black | 81043 |
| Finish | Code | | | | | | |
| Black | 81043 | | | | | | |
| | | <p>Unión Tipo linear. Material:PC, color:blanco.</p> | <table border="1"> <thead> <tr> <th>Finish</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>White</td> <td>81042</td> </tr> </tbody> </table> | Finish | Code | White | 81042 |
| Finish | Code | | | | | | |
| White | 81042 | | | | | | |
| | | <p>Unión Tipo linear. Material:PC, color:blanco.</p> | <table border="1"> <thead> <tr> <th>Finish</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>White</td> <td>81051</td> </tr> </tbody> </table> | Finish | Code | White | 81051 |
| Finish | Code | | | | | | |
| White | 81051 | | | | | | |
| | | <p>Unión Tipo linear. Material:PC, color:negro.</p> | <table border="1"> <thead> <tr> <th>Finish</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Black</td> <td>81052</td> </tr> </tbody> </table> | Finish | Code | Black | 81052 |
| Finish | Code | | | | | | |
| Black | 81052 | | | | | | |
| | | <p>Fuente de alimentación Material:PC, color:blanco.</p> | <table border="1"> <thead> <tr> <th>Code</th> </tr> </thead> <tbody> <tr> <td>81036</td> </tr> </tbody> </table> | Code | 81036 | | |
| Code | | | | | | | |
| 81036 | | | | | | | |
| | | <p>Unión Tipo flexible curve. Material:PC, color:blanco.</p> | <table border="1"> <thead> <tr> <th>Finish</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>White</td> <td>81066</td> </tr> </tbody> </table> | Finish | Code | White | 81066 |
| Finish | Code | | | | | | |
| White | 81066 | | | | | | |
| | | <p>Tapón Material:PC, color:blanco.</p> | <table border="1"> <thead> <tr> <th>Code</th> </tr> </thead> <tbody> <tr> <td>80999</td> </tr> </tbody> </table> | Code | 80999 | | |
| Code | | | | | | | |
| 80999 | | | | | | | |



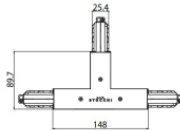
Carril
 Largo: 1000mm; Tipo carril: Standard.
 Material:aluminio, color:Blanco, elaboración :Pintura.

| Finish | Code |
|--------|-------|
| White | 80990 |



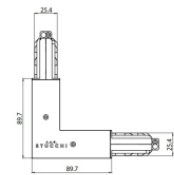
Unión
 Tipo linear.
 Material:PC, color:blanco.

| Finish | Code |
|--------|-------|
| White | 81039 |



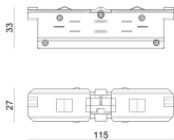
Unión
 Tipo linear.
 Material:PC, color:blanco.

| Finish | Code |
|--------|-------|
| White | 81054 |



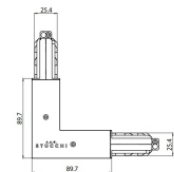
Unión
 Tipo linear.
 Material:PC, color:blanco.

| Finish | Code |
|--------|-------|
| White | 81045 |



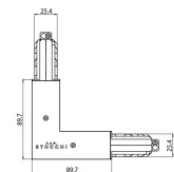
Unión
 Tipo linear.
 Material:PC, color:negro.

| Finish | Code |
|--------|-------|
| Black | 81040 |



Unión
 Tipo linear.
 Material:PC, color:blanco.

| Finish | Code |
|--------|-------|
| White | 81048 |



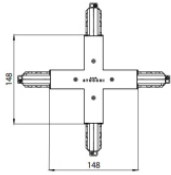
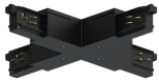
Unión
 Tipo linear.
 Material:PC, color:negro.

| Finish | Code |
|--------|-------|
| Black | 81049 |



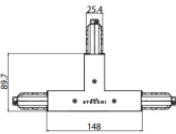
Tapón
 Material:PC, color:negro.

| Code |
|-------|
| 81000 |



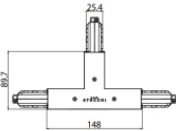
Unión
Tipo linear.
Material:PC, color:negro.

| Finish | Code |
|--------|-------|
| Black | 81064 |



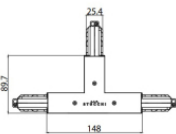
Unión
Tipo linear.
Material:PC, color:blanco.

| Finish | Code |
|--------|-------|
| White | 81057 |



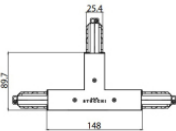
Unión
Tipo linear.
Material:PC, color:negro.

| Finish | Code |
|--------|-------|
| Black | 81058 |



Unión
Tipo linear.
Material:PC, color:blanco.

| Finish | Code |
|--------|-------|
| White | 81060 |



Unión
Tipo linear.
Material:PC, color:negro.

| Finish | Code |
|--------|-------|
| Black | 81061 |



Tapón
Material:PC, color:blanco.

| Code |
|-------|
| 81002 |



Tapón
Material:PC, color:negro.

| Code |
|-------|
| 81003 |

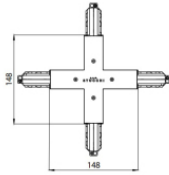


Rosetón
Material:plástico, color:blanco.

| Code |
|-------|
| 81012 |



| | | | |
|--|--|---|--|
| | | <p>Rosetón Material:plástico, color:negro.</p> | <p>Code 81014</p> |
| | | <p>Rosetón Material:plástico, color:blanco.</p> | <p>Code 81013</p> |
| | | <p>Unión Tipo linear. Material:PC, color:negro.</p> | <p>Finish Black Code 81046</p> |
| | | <p>Colgantes Material:plástico, color:blanco.</p> | <p>Code 81021</p> |
| | | <p>Colgantes Material:plástico, color:negro.</p> | <p>Code 81022</p> |
| | | <p>Soporte L=35mm, H=14mm, D=24mm. Material:aluminio, color:pulido.</p> | <p>Finish Anod. Al. Code 81086</p> |
| | | <p>Soporte L=35mm, H=14mm, D=24mm. Material:aluminio, color:blanco, elaboración :Pintura.</p> | <p>Finish White Code 81087</p> |
| | | <p>Soporte L=35mm, H=14mm, D=24mm. Material:aluminio, color:Negro, elaboración :Pintura.</p> | <p>Finish Black Code 81088</p> |



Unión
Tipo linear.
Material:PC, color:blanco.

| Finish | Code |
|--------|-------|
| White | 81063 |



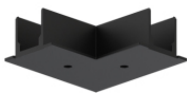
Rosetón
Material:plástico, color:negro.

| Code |
|-------|
| 81015 |



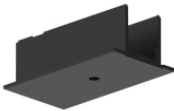
Cubierta de alambre
Material:PC, color:blanco.

| Code |
|-------|
| 81075 |



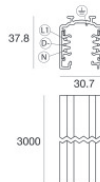
Cubierta de alambre
Material:PC, color:negro.

| Code |
|-------|
| 81076 |



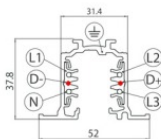
Cubierta de alambre
Material:PC, color:negro.

| Code |
|-------|
| 81070 |



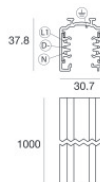
Carril
Largo: 3000mm; Tipo carril: Standard.
Material:aluminio, color:Negro, elaboración :Pintura.

| Finish | Code |
|--------|-------|
| Black | 83341 |



Carril
Largo: 3000mm; Tipo carril: Standard.
Material:aluminio, color:Blanco, elaboración :Pintura.

| Finish | Code |
|--------|-------|
| White | 80992 |



Carril
Largo: 1000mm; Tipo carril: Standard.
Material:aluminio, color:Negro, elaboración :Pintura.

| Finish | Code |
|--------|-------|
| Black | 83339 |



| | | | | |
|--|--------------------|---|----------------------|---------------------|
| | <p>Herramienta</p> | <p>Code</p> | | |
| | | <p><u>81005</u></p> | | |
| | | <p>Unión Tipo flexible curve. Material:PC, color:negro.</p> | <p>Finish</p> | <p>Code</p> |
| | | | <p>Black</p> | <p><u>81067</u></p> |
| | | <p>Cubierta de alambre Material:PC, color:blanco.</p> | <p>Code</p> | |
| | | | <p><u>81069</u></p> | |
| | | <p>Colgantes Material:plástico, color:blanco.</p> | <p>Code</p> | |
| | | | <p><u>81007</u></p> | |
| | | <p>Colgantes Material:plástico, color:negro.</p> | <p>Code</p> | |
| | | | <p><u>81009</u></p> | |
| | | <p>Colgantes Material:plástico, color:negro.</p> | <p>Code</p> | |
| | | | <p><u>81008</u></p> | |
| | | <p>Colgantes Material:plástico, color:negro.</p> | <p>Code</p> | |
| | | | <p><u>81019</u></p> | |
| | | <p>Cubierta de alambre Material:PC, color:blanco.</p> | <p>Code</p> | |
| | | | <p><u>81081</u></p> | |



| | | | |
|--|--|--|--|
| | | | <p>Code 81093</p> |
| | | <p>Soporte L=180mm, H=24mm, D=20mm. Material:aluminio, color:negro RAL 9005, elaboración :Pintura.</p> | <p>Finish Black Code 81026</p> |
| | | <p>Fuente de alimentación Material:PC, color:negro.</p> | <p>Code 81037</p> |
| | | <p>Carril Largo: 1000mm; Tipo carril: Standard. Material:aluminio, color:Negro, elaboración :Pintura.</p> | <p>Finish Black Code 80993</p> |
| | | <p>Cubierta de alambre Material:PC, color:negro.</p> | <p>Code 81082</p> |
| | | <p>Soporte L=180mm, H=24mm, D=20mm. Material:aluminio, color:blanco RAL 9010, elaboración :Pintura.</p> | <p>Finish White Code 81025</p> |
| | | <p>Cubierta de alambre Material:PC, color:blanco.</p> | <p>Code 81078</p> |
| | | <p>Colgantes Material:plástico, color:blanco.</p> | <p>Code 81018</p> |



Pound_T | Projectors | Accessories
82228M60

| | | | |
|--|--|--|--|
| | <p>Cubierta de alambre Material:negro, color:negro.</p> | <p>Code <u>83250</u></p> | |
| | <p>Cubierta de alambre Material:blanco.</p> | <p>Code <u>83249</u></p> | |
| | | <p>Unión Tipo linear. Material:PC, color:negro.</p> | <p>Finish Black Code <u>81055</u></p> |
| | | <p>Cubierta de alambre Material:PC, color:blanco.</p> | <p>Code <u>81072</u></p> |
| | | <p>Soporte L=180mm, H=24mm, D=26mm. Material:aluminio, color:Aluminio Anodizado, elaboración :Anodizado.</p> | <p>Finish Code <u>81024</u></p> |
| | | <p>Tapón Material:blanco.</p> | <p>Code <u>81084</u></p> |
| | | <p>Cubierta de alambre Material:PC, color:negro.</p> | <p>Code <u>81079</u></p> |
| | | <p>Cubierta de alambre Material:PC, color:negro.</p> | <p>Code <u>81073</u></p> |

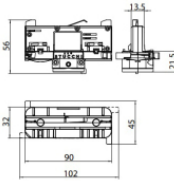


Pound_T | Projectors | Accessories
82228M60

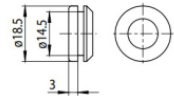


Colgantes
 Material:plástico, color:blanco.

Code
81006

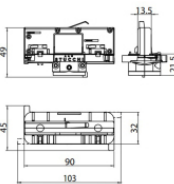


Code
81091

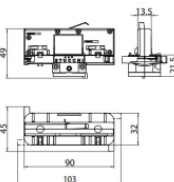


Tapón
 Material:negro, color:negro.

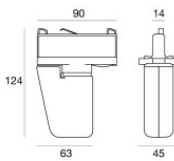
Code
81085



Code
81094



Code
81095



Accesorio electronico - Controlador TWIL-DALI para dispositivos con protocolo DALI instalados en carril trifásico.
 posición de instalación: techo L=90mm, H=124mm, D=45mm.
 Material:Plástico ABS, color:negro.

Code
C-E700008