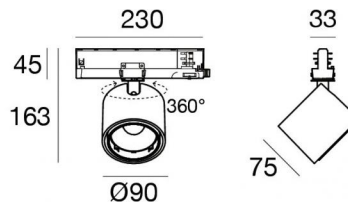


Scheinwerfer | 176-264 V  
1 arrayLED 24 W DC - 27 W AC | CRI 90  
**82235M60**



| Technische Daten                                    |                |
|-----------------------------------------------------|----------------|
| Typ                                                 | Schiene        |
| Installationsposition                               | Decke          |
| Installationsumgebung                               | Indoor         |
| Lichtquelle                                         | LED            |
| Circuit structure                                   | arrayLED       |
| Optik                                               | Wide Flood     |
| Light emission direction                            | frontal        |
| Lampe Nennleistung                                  | 24 W DC        |
| Gesamtleistung                                      | 27 W           |
| Lichtstrom (Lichtquelle)                            | 3829 lm        |
| Nominale Eingangsspannung                           | 220 - 240 V AC |
| Eingangsspannungsbereich                            | 176 - 264 V AC |
| Frequency                                           | 50 - 60 Hz     |
| Ähnlichste Farbtemperatur / Tone                    | 2700 K         |
| Farbwiedergabeindex                                 | 90 Ra          |
| Gleichstrom/Gleichspannung                          | AC             |
| Isolierklasse                                       | 2              |
| IP                                                  | IP20           |
| Glühdrahtprüfung                                    | 850°           |
| Direkte Montage auf normal entflammaren Oberflächen | Ja             |
| CE                                                  | Ja             |
| Einschließlich Driver                               | Driver         |
| Leuchte dimmbar                                     | Nein           |
| Schwenkbarkeit                                      | Orientabile    |
| Gesamtwinkel (vertikale Ebene)                      | 90 °           |
| Gesamtwinkel (horizontale Ebene)                    | 360 °          |
| Drehbarkeit                                         | Nein           |
| Begehrbarkeit                                       | Nein           |
| Überrollbarkeit                                     | Nein           |
| Einschließlich Kabel                                | Nein           |
| Harzbeschichtung                                    | Nein           |
| Typ Lichtabstrahlung                                | Einflammig     |
| Nettogewicht                                        | 0.625 Kg       |
| Schutz vor elektrostatischen Entladungen            | Ja             |
| Schutz vor Stoßspannungen                           | 2 KV           |

#### Oberfläche Oberfläche Gehäuse

|                 |                                                |
|-----------------|------------------------------------------------|
| Material        | Stranggepresstes Aluminium EN AB - 46100       |
| Farbe           | Text white RAL9003                             |
| Bearbeitungstyp | Pulverbeschichtung mit duroplastischen Pulvern |

Scheinwerfer | 176-264 V | 1 arrayLED 24 W DC - 27 W AC | CRI 90  
82235M60

Single emission projectors for indoor application. The super warm white LED light source with a wide flood light distribution is composed of 1 arrayled LEDs with CCT of 2700 K and a CRI 90; the source luminous flux is 3829 lm, with a 159.5 lm/W nominal luminous efficacy.

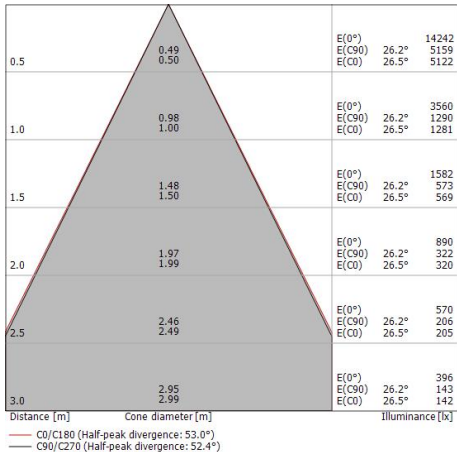
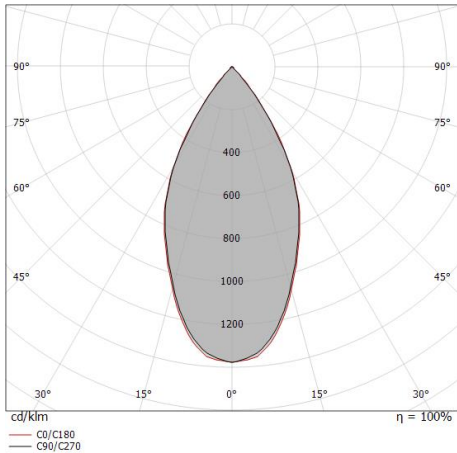
The device body is made of die-cast aluminium en ab - 46100 and features a text white ral9003 finish, processed by means of powder coating with thermosetting powders.

The ingress protection degree is IP20; the total weight is of 0.625 kg.

The total absorbed power is 27 W

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

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



Energieeffizienzklasse

Dieses Produkt enthält eine Lichtquelle der Energieeffizienzklasse D.

Illuminotechnical Eigenschaften

|                                       |                |
|---------------------------------------|----------------|
| Light Output Ratio (LOR)              | 67 %           |
| Lichtstrom (Lichtquelle)              | 3829 lm        |
| Leuchten Lichtstrom                   | 2584 lm        |
| Consumption                           | 27 W           |
| Leuchten Lichtausbeute                | 95 lm/W        |
| Farbtemperatur                        | 2700 K         |
| Standard Deviation of Colour Matching | 2 Step MacAdam |
| Farbwiedergabeindex                   | 90 Ra          |
| Colour Rendering Index                | 60 R9          |
| Black Body Locus                      | On             |
| Standardumgebungstemperatur           | -20 / +50°C    |
| Typische Temperatur am Glas           | 40°C           |

LED Life / Failure Ratio

L70 B10 C0 235315h (at Tj 65 Ta 25 )

L80 B10 C0 147343h (at Tj 65 Ta 25 )

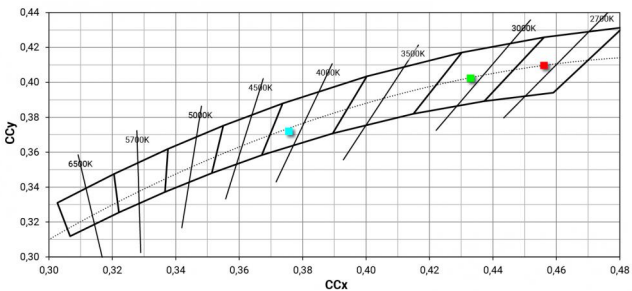
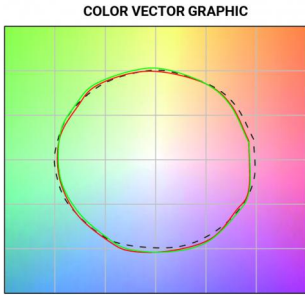
L90 B10 C0 69745h (at Tj 65 Ta 25 )

UGR

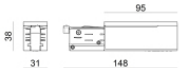
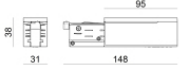
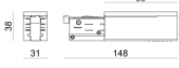
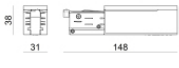
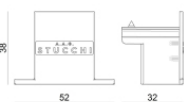
|                   |          |
|-------------------|----------|
| UGR axial         | 21.9     |
| UGR transversal   | 22       |
| X=4H   Y=8H       | S=0.25H  |
| Reflection factor | 70/50/20 |

OPTICAL

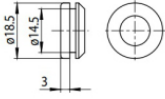
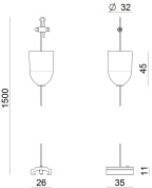
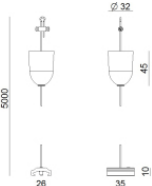
|                             |             |
|-----------------------------|-------------|
| Optik C0/C180               | 52°         |
| Light distribution simmetry | Symmetrical |



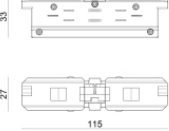
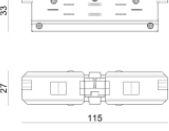
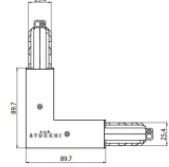
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|                                                                                                                                                                         |                                                      |                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------|
|       | <p>Stromversorgung<br/>Material:PC, farbe:Weiß.</p>  | <p><b>Code</b><br/><u>81033</u></p> |
|       | <p>Stromversorgung<br/>Material:PC, farbe:Weiß.</p>  | <p><b>Code</b><br/><u>81036</u></p> |
|       | <p>Stromversorgung<br/>Material:PC, farbe:Black.</p> | <p><b>Code</b><br/><u>81037</u></p> |
|   | <p>Stromversorgung<br/>Material:PC, farbe:Black.</p> | <p><b>Code</b><br/><u>81034</u></p> |
|                                                                                      | <p>Endkappe<br/>Material:PC, farbe:Weiß.</p>         | <p><b>Code</b><br/><u>80999</u></p> |
|                                                                                      | <p>Endkappe<br/>Material:PC, farbe:Black.</p>        | <p><b>Code</b><br/><u>81000</u></p> |
|                                                                                       | <p>Endkappe<br/>Material:PC, farbe:Weiß.</p>         | <p><b>Code</b><br/><u>81002</u></p> |
|   | <p>Endkappe<br/>Material:PC, farbe:Black.</p>        | <p><b>Code</b><br/><u>81003</u></p> |

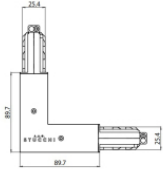
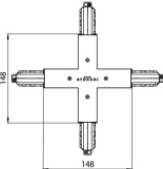
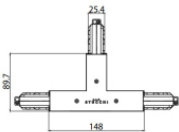
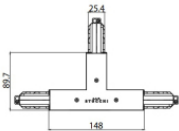
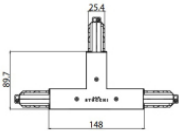
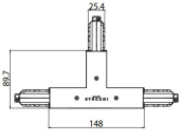
Optus\_T | Projectors | Accessories  
82235M60

|                                                                                     |                                                                                     |                                                                                                                                                   |                      |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
|    |    | Endkappe<br>Material:Weiß.                                                                                                                        | <b>Code</b><br>81084 |
|    |    | Endkappe<br>Material:Schwarz, farbe:Black.                                                                                                        | <b>Code</b><br>81085 |
|   |                                                                                     | Deckenrosette - Weißes Aufhängungsset 1,5 m + Halterung (9000-KIT5-1,5-W)<br>Einschließlich Driver: Nein.<br>Material:Kunststoff, farbe:Weiß.     | <b>Code</b><br>81012 |
|  |  | Deckenrosette - Schwarzes Aufhängungsset 1,5 m + Halterung (9000-KIT5-1,5-B)<br>Einschließlich Driver: Nein.<br>Material:Kunststoff, farbe:Black. | <b>Code</b><br>81014 |
|  |  | Deckenrosette - Weißes Aufhängungsset 5 m + Halterung (9000-KIT5-5-W)<br>Einschließlich Driver: Nein.<br>Material:Kunststoff, farbe:Weiß.         | <b>Code</b><br>81013 |
|  |                                                                                     | Deckenrosette - Schwarzes Aufhängungsset 5 m + Halterung (9000-KIT5-5-B)<br>Einschließlich Driver: Nein.<br>Material:Kunststoff, farbe:Black.     | <b>Code</b><br>81015 |
|  |  | Klammer<br>L=35mm, H=14mm, D=24mm.<br>Material:Aluminium, farbe:Polished aluminium.                                                               | <b>Code</b><br>81086 |
|  |  | Klammer<br>L=180mm, H=24mm, D=26mm.<br>Material:Aluminium, farbe:Anodised aluminium, bearbeitungstyp :Eloxierung.                                 | <b>Code</b><br>81024 |

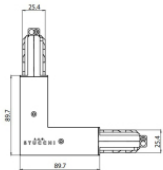
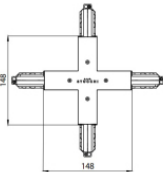
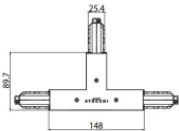
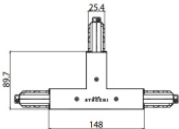
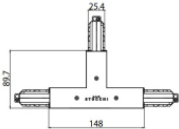
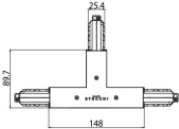
Optus\_T | Projectors | Accessories  
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|                                                                                     |                                                                                     |                                                                                                                                 |                                        |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
|    |    | <p>Klammer</p> <p>L=180mm, H=24mm, D=20mm.</p> <p>Material:Aluminium, farbe:Weiß RAL 9010, bearbeitungstyp :Lackierung.</p>     | <p><b>Code</b></p> <p><u>81025</u></p> |
|    |    | <p>Klammer</p> <p>L=180mm, H=24mm, D=20mm.</p> <p>Material:Aluminium, farbe:Schwarz RAL 9005, bearbeitungstyp :Lackierung.</p>  | <p><b>Code</b></p> <p><u>81026</u></p> |
|   |    | <p>Klammer</p> <p>L=35mm, H=14mm, D=24mm.</p> <p>Material:Aluminium, farbe:Weiß, bearbeitungstyp :Lackierung.</p>               | <p><b>Code</b></p> <p><u>81087</u></p> |
|  |  | <p>Klammer</p> <p>L=35mm, H=14mm, D=24mm.</p> <p>Material:Aluminium, farbe:Text black RAL9005, bearbeitungstyp :Lackierung.</p> | <p><b>Code</b></p> <p><u>81088</u></p> |
|  |  | <p>Kabelverbindung</p> <p>Typ linear.</p> <p>Material:PC, farbe:Weiß.</p>                                                       | <p><b>Code</b></p> <p><u>81039</u></p> |
|  |  | <p>Kabelverbindung</p> <p>Typ linear.</p> <p>Material:PC, farbe:Black.</p>                                                      | <p><b>Code</b></p> <p><u>81040</u></p> |
|   |  | <p>Kabelverbindung</p> <p>Typ linear.</p> <p>Material:PC, farbe:Weiß.</p>                                                       | <p><b>Code</b></p> <p><u>81042</u></p> |
|  |  | <p>Kabelverbindung</p> <p>Typ linear.</p> <p>Material:PC, farbe:Weiß.</p>                                                       | <p><b>Code</b></p> <p><u>81045</u></p> |

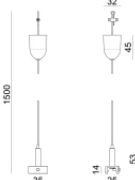
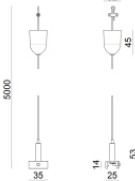
Optus\_T | Projectors | Accessories  
82235M60

|                                                                                     |                                                                                     |                                                                                   |                          |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------|
|    |    | <p>Kabelverbindung</p> <p>Typ linear.</p> <p>Material:PC, farbe:Weiß.</p>         | <p>Code</p> <p>81048</p> |
|     |    | <p>Kabelverbindung</p> <p>Typ flexible curve.</p> <p>Material:PC, farbe:Weiß.</p> | <p>Code</p> <p>81066</p> |
|    |   | <p>Kabelverbindung</p> <p>Typ linear.</p> <p>Material:PC, farbe:Weiß.</p>         | <p>Code</p> <p>81063</p> |
|   |  | <p>Kabelverbindung</p> <p>Typ linear.</p> <p>Material:PC, farbe:Weiß.</p>         | <p>Code</p> <p>81051</p> |
|   |  | <p>Kabelverbindung</p> <p>Typ linear.</p> <p>Material:PC, farbe:Weiß.</p>         | <p>Code</p> <p>81054</p> |
|   |  | <p>Kabelverbindung</p> <p>Typ linear.</p> <p>Material:PC, farbe:Weiß.</p>         | <p>Code</p> <p>81057</p> |
|   |  | <p>Kabelverbindung</p> <p>Typ linear.</p> <p>Material:PC, farbe:Weiß.</p>         | <p>Code</p> <p>81060</p> |
|  |  | <p>Kabelverbindung</p> <p>Typ linear.</p> <p>Material:PC, farbe:Black.</p>        | <p>Code</p> <p>81043</p> |

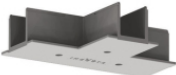
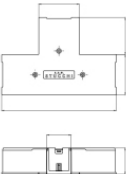
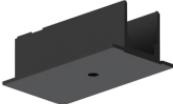
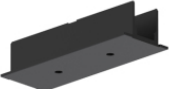
Optus\_T | Projectors | Accessories  
82235M60

|                                                                                     |                                                                                     |                                                                              |                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------|
|    |    | <p>Kabelverbindung<br/>Typ linear.<br/>Material:PC, farbe:Black.</p>         | <p><b>Code</b><br/><u>81046</u></p> |
|    |    | <p>Kabelverbindung<br/>Typ linear.<br/>Material:PC, farbe:Black.</p>         | <p><b>Code</b><br/><u>81049</u></p> |
|    |    | <p>Kabelverbindung<br/>Typ flexible curve.<br/>Material:PC, farbe:Black.</p> | <p><b>Code</b><br/><u>81067</u></p> |
|  |  | <p>Kabelverbindung<br/>Typ linear.<br/>Material:PC, farbe:Black.</p>         | <p><b>Code</b><br/><u>81064</u></p> |
|  |  | <p>Kabelverbindung<br/>Typ linear.<br/>Material:PC, farbe:Black.</p>         | <p><b>Code</b><br/><u>81052</u></p> |
|  |  | <p>Kabelverbindung<br/>Typ linear.<br/>Material:PC, farbe:Black.</p>         | <p><b>Code</b><br/><u>81055</u></p> |
|  |  | <p>Kabelverbindung<br/>Typ linear.<br/>Material:PC, farbe:Black.</p>         | <p><b>Code</b><br/><u>81058</u></p> |
|  |  | <p>Kabelverbindung<br/>Typ linear.<br/>Material:PC, farbe:Black.</p>         | <p><b>Code</b><br/><u>81061</u></p> |

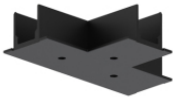
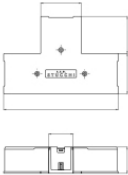
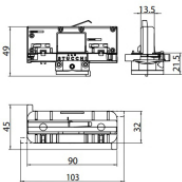
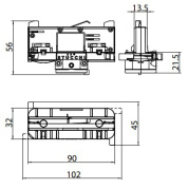
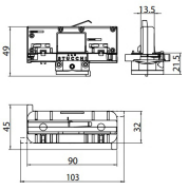
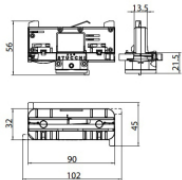
Optus\_T | Projectors | Accessories  
82235M60

|                                                                                                                                                                         |                                                            |                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----------------------|
|                                                                                        | <p>Hängeleuchten<br/>Material:Kunststoff, farbe:Weiß.</p>  | <p>Code<br/>81006</p> |
|                                                                                        | <p>Hängeleuchten<br/>Material:Kunststoff, farbe:Weiß.</p>  | <p>Code<br/>81007</p> |
|     | <p>Hängeleuchten<br/>Material:Kunststoff, farbe:Black.</p> | <p>Code<br/>81008</p> |
|   | <p>Hängeleuchten<br/>Material:Kunststoff, farbe:Black.</p> | <p>Code<br/>81009</p> |
|                                                                                      | <p>Hängeleuchten<br/>Material:Kunststoff, farbe:Weiß.</p>  | <p>Code<br/>81018</p> |
|                                                                                      | <p>Hängeleuchten<br/>Material:Kunststoff, farbe:Black.</p> | <p>Code<br/>81019</p> |
|                                                                                      | <p>Hängeleuchten<br/>Material:Kunststoff, farbe:Weiß.</p>  | <p>Code<br/>81021</p> |
|                                                                                      | <p>Hängeleuchten<br/>Material:Kunststoff, farbe:Black.</p> | <p>Code<br/>81022</p> |

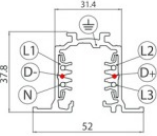
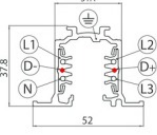
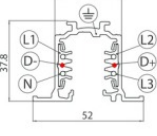
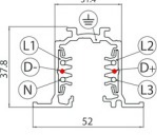
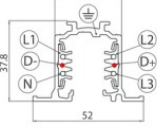
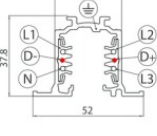
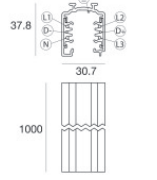
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|                                                                                     |                                                                                     |                                             |                             |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------|-----------------------------|
|    |    | Drahtabdeckung<br>Material:PC, farbe:Weiß.  | <b>Code</b><br><u>81069</u> |
|    |    | Drahtabdeckung<br>Material:PC, farbe:Weiß.  | <b>Code</b><br><u>81072</u> |
|    |   | Drahtabdeckung<br>Material:PC, farbe:Weiß.  | <b>Code</b><br><u>81075</u> |
|   |  | Drahtabdeckung<br>Material:PC, farbe:Weiß.  | <b>Code</b><br><u>81078</u> |
|   |  | Drahtabdeckung<br>Material:PC, farbe:Weiß.  | <b>Code</b><br><u>81081</u> |
|   |  | Drahtabdeckung<br>Material:PC, farbe:Black. | <b>Code</b><br><u>81070</u> |
|  |  | Drahtabdeckung<br>Material:PC, farbe:Black. | <b>Code</b><br><u>81073</u> |
|   |  | Drahtabdeckung<br>Material:PC, farbe:Black. | <b>Code</b><br><u>81076</u> |

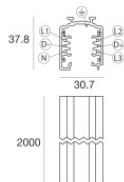
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|                                                                                    |                                                                                     |                                                  |                      |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------|----------------------|
|    |    | Drahtabdeckung<br>Material:PC, farbe:Black.      | <b>Code</b><br>81079 |
|    |    | Drahtabdeckung<br>Material:PC, farbe:Black.      | <b>Code</b><br>81082 |
|    |                                                                                     | Drahtabdeckung<br>Material:Weiß.                 | <b>Code</b><br>83249 |
|  |                                                                                     | Drahtabdeckung<br>Material:Schwarz, farbe:Black. | <b>Code</b><br>83250 |
|  |  |                                                  | <b>Code</b><br>81094 |
|  |  |                                                  | <b>Code</b><br>81091 |
|  |  |                                                  | <b>Code</b><br>81095 |
|  |  |                                                  | <b>Code</b><br>81093 |

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|                                                                                    |                                                                                     |                                                                                                                                |                      |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------|
|   |                                                                                     | Werkzeug - Schneidezange S?9000/T<br>Material:Gummi, farbe:Black.                                                              | <b>Code</b><br>81005 |
|    |    | Schiene<br>Länge: 1000mm; Typ Schiene: Standard.<br>Material:Aluminium, farbe:Text white RAL9003, bearbeitungstyp :Lackierung. | <b>Code</b><br>80990 |
|   |   | Schiene<br>Länge: 2000mm; Typ Schiene: Standard.<br>Material:Aluminium, farbe:Text white RAL9003, bearbeitungstyp :Lackierung. | <b>Code</b><br>80991 |
|  |  | Schiene<br>Länge: 3000mm; Typ Schiene: Standard.<br>Material:Aluminium, farbe:Text white RAL9003, bearbeitungstyp :Lackierung. | <b>Code</b><br>80992 |
|  |  | Schiene<br>Länge: 1000mm; Typ Schiene: Standard.<br>Material:Aluminium, farbe:Text black RAL9005, bearbeitungstyp :Lackierung. | <b>Code</b><br>80993 |
|  |  | Schiene<br>Länge: 2000mm; Typ Schiene: Standard.<br>Material:Aluminium, farbe:Text black RAL9005, bearbeitungstyp :Lackierung. | <b>Code</b><br>80994 |
|  |  | Schiene<br>Länge: 3000mm; Typ Schiene: Standard.<br>Material:Aluminium, farbe:Text black RAL9005, bearbeitungstyp :Lackierung. | <b>Code</b><br>80995 |
|  |  | Schiene<br>Länge: 1000mm; Typ Schiene: Standard.<br>Material:Aluminium, farbe:Text white RAL9003, bearbeitungstyp :Lackierung. | <b>Code</b><br>83336 |

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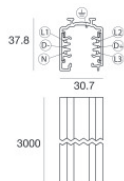
Schiene

Länge: 2000mm; Typ Schiene: Standard.

Material:Aluminium, farbe:Text white RAL9003, bearbeitungstyp :Lackierung.

Code

83337



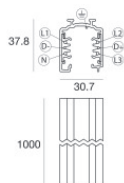
Schiene

Länge: 3000mm; Typ Schiene: Standard.

Material:Aluminium, farbe:Text white RAL9003, bearbeitungstyp :Lackierung.

Code

83338



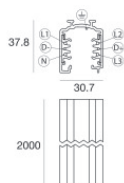
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Material:Aluminium, farbe:Text black RAL9005, bearbeitungstyp :Lackierung.

Code

83339



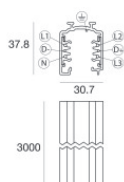
Schiene

Länge: 2000mm; Typ Schiene: Standard.

Material:Aluminium, farbe:Text black RAL9005, bearbeitungstyp :Lackierung.

Code

83340



Schiene

Länge: 3000mm; Typ Schiene: Standard.

Material:Aluminium, farbe:Text black RAL9005, bearbeitungstyp :Lackierung.

Code

83341



Diffusor

Diffusorart: filtro ellittico.

Material:Pom-C, farbe:Schwarz.

Code

99797



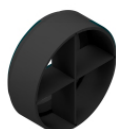
Blendschutz

Blendschutzart: wabenraster.

Material:Pom-C, farbe:Schwarz.

Code

99798



Blendschutz

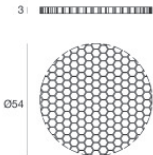
Blendschutzart: frangiluce a croce.

Material:Pom-C, farbe:Schwarz.

Code

99799

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|                                                                                                                                                                       |                                                                                                                                   |                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
|                                                                                      | <p>Blendschutz</p> <p>Blendschutzart: schermo cilindrico.</p> <p>Material:Pom-C, farbe:Schwarz.</p>                               | <p><b>Code</b></p> <p><u>99796</u></p> |
|                                                                                      | <p>Blendschutz</p> <p>Blendschutzart: schermo cilindrico 45°.</p> <p>Material:Pom-C, farbe:Schwarz.</p>                           | <p><b>Code</b></p> <p><u>99795</u></p> |
|   | <p>Blendschutz</p> <p>Blendschutzart: wabenraster.</p> <p>Material:Pom-C, farbe:Schwarz.</p>                                      | <p><b>Code</b></p> <p><u>99842</u></p> |
|                                                                                    | <p>Optik</p> <p>Lichtverteilung: spot,Material Verkleidung: uv beständiges polycarbonat</p>                                       | <p><b>Code</b></p> <p><u>99808</u></p> |
|                                                                                    | <p>Optik</p> <p>Lichtverteilung: medium flood,Material Verkleidung: uv beständiges polycarbonat</p>                               | <p><b>Code</b></p> <p><u>99809</u></p> |
|                                                                                    | <p>Optik</p> <p>Lichtverteilung: flood,Material Verkleidung: uv beständiges polycarbonat</p>                                      | <p><b>Code</b></p> <p><u>99810</u></p> |
|                                                                                    | <p>Optik - Fokus-Kit (min 16° max 42°)</p> <p>Lichtverteilung: einstellbar,Material Verkleidung: extra-helles glas - gehärtet</p> | <p><b>Code</b></p> <p><u>99843</u></p> |