



# The Perfect LED Spot solution

## LED MR16

Philips LED MR-16 lamps with single optic technology provide the look and color quality of traditional halogens while using a fraction of the energy. A perfect fit for spot lighting, they are compatible with most existing fixtures with MR16 GU5.3 holders and are designed as a retrofit replacement for halogen or incandescent spots.

### Benefits

- Up to 80% energy saving compared with halogen lamps and lower maintenance costs
- Easy to replace/retro-fit. Broad compatibility with transformers
- “Perfect fit” in most current Halogen fixtures

### Features

- Ranging between 15,000 to 40,000 hour LED Lifetime
- Easy to replace/retro-fit- “Perfect fit” in most current Halogen fixtures. Title 20 & Title 24 JA8 compliant versions options are available
- Optimized look and feel of product
- Compatible with most commonly available halogen transformers
- Ranging between 3-year to 5-year limited component warranty depending upon operating hours

### Application

- Hotels, restaurants, bars, cafés, museums, shops
- Lobbies, corridors, stairwells, washrooms, reception areas , exhibitions, display cabinets

## Light to go

Compatible configurations

Lamps

7.3MR16/LED/827/F35/DIM 12V 10/1FB  
7.3MR16/LED/830/F35/DIM 12V 10/1FB  
7.3MR16/LED/830/F25/DIM 12V 10/1FB  
7.3MR16/LED/827/F25/DIM 12V 10/1FB

every  
job matters

# LED MR16

## Versions



GU5.3 MR16



GU5.3 MR16



GU5.3 MR16



GU5.3 MR16



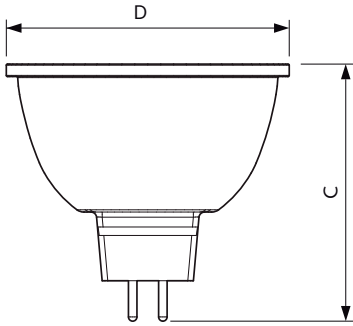
GU5.3 MR16



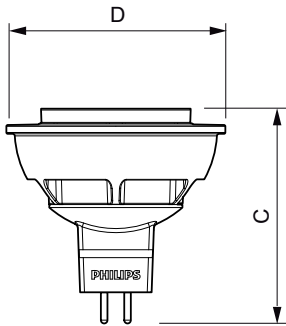
GU5.3 MR16

# LED MR16

## Dimensional drawing



| Product                                 | D       | C       |
|---|---------|---------|
| 6.5MR16/LED/F25/930/D/EC/12V T20 10/1FB | 50.5 mm | 46 mm   |
| 6.5MR16/LED/F35/927/D/EC/12V T20 10/1FB | 50.5 mm | 46 mm   |
| 6.5MR16/LED/F25/927/D/EC/12V T20 10/1FB | 50.5 mm | 46 mm   |
| 8.5MR16/LED/830/F35/DIM 12V 10/1FB      | 50.5 mm | 46.5 mm |
| 8.5MR16/LED/827/F35/DIM 12V 10/1FB      | 50.5 mm | 46.5 mm |
| 8.5MR16/LED/840/F35/DIM 12V 10/1FB      | 50.5 mm | 46.5 mm |
| 7.3MR16/LED/827/F35/DIM 12V 10/1FB      | 50.5 mm | 46.5 mm |
| 7.3MR16/LED/830/F35/DIM 12V 10/1FB      | 50.5 mm | 46.5 mm |
| 8.5MR16/LED/840/F25/DIM 12V 10/1FB      | 50.5 mm | 46.5 mm |
| 7.3MR16/LED/827/F25/DIM 12V 10/1FB      | 50.5 mm | 46.5 mm |
| 8.5MR16/LED/827/F25/DIM 12V 10/1FB      | 50.5 mm | 46.5 mm |
| 8.5MR16/LED/830/F25/DIM 12V 10/1FB      | 50.5 mm | 46.5 mm |
| 7.3MR16/LED/830/F25/DIM 12V 10/1FB      | 50.5 mm | 46.5 mm |
| 7MR16 ExpertColor Retail S10 930 10/1   | 51 mm   | 46 mm   |
| 7MR16 ExpertColor Retail F35 930 10/1   | 51 mm   | 46 mm   |
| 7.8MR16/PER/927/F35/Dim/EC/12V 10/1FB   | 51 mm   | 46 mm   |
| 7.8MR16/PER/940/F35/Dim/EC/12V 10/1FB   | 51 mm   | 46 mm   |
| 7.8MR16/PER/930/F35/Dim/EC/12V 10/1FB   | 51 mm   | 46 mm   |
| 7.8MR16/PER/927/F25/Dim/EC/12V 10/1FB   | 51 mm   | 46 mm   |
| 7.8MR16/PER/940/F25/Dim/EC/12V 10/1FB   | 51 mm   | 46 mm   |
| 7.8MR16/PER/930/F25/Dim/EC/12V 10/1FB   | 51 mm   | 46 mm   |
| 7.8MR16/PER/940/S10/Dim/EC/12V 10/1FB   | 51 mm   | 46 mm   |
| 7.8MR16/PER/930/S10/Dim/EC/12V 10/1FB   | 51 mm   | 46 mm   |
| 7.8MR16/PER/927/S10/Dim/EC/12V 10/1FB   | 51 mm   | 46 mm   |
| 6.5MR16/LED/F35/930/D/EC/12V T20 10/1FB | 50.5 mm | 46 mm   |



| Product                       | D     | C     |
|-------------------------------|-------|-------|
| 6.4MR16/F35/3000 DIM 12V      | 51 mm | 51 mm |
| 6.4MR16/F25/3000 DIM 12V      | 51 mm | 51 mm |
| 6.5MR16/F35/2700-2200 DIM 12V | 51 mm | 50 mm |
| 6.5MR16/F25/2700-2200 DIM 12V | 51 mm | 50 mm |

### General Information

|                 |        |
|-----------------|--------|
| Cap-Base        | GU5.3  |
| Switching Cycle | 50000X |

### Light Technical

|                                       |      |
|---------------------------------------|------|
| Llmf At End Of Nominal Lifetime (Nom) | 70 % |
|---------------------------------------|------|

### Mechanical and Housing

|            |      |
|------------|------|
| Bulb Shape | MR16 |
|------------|------|

## Approval and Application

## LED MR16

| Order Code | Full Product Name                       | Energy Consumption kWh/1000 h | Energy Efficiency Label (EEL) |
|------------|---|-------------------------------|-------------------------------|
| 454538     | 6.5MR16/F25/2700-2200 DIM 12V 10/1      | - kWh                         | Not applicable                |
| 454546     | 6.5MR16/F35/2700-2200 DIM 12V 10/1      | 7 kWh                         | Not applicable                |
| 470336     | 6.4MR16/F25/3000 DIM 12V 10/1           | -                             | Not applicable                |
| 470344     | 6.4MR16/F35/3000 DIM 12V 10/1           | -                             | Not applicable                |
| 470229     | 7MR16 ExpertColor Retail S10 930 10/1   | -                             | -                             |
| 479139     | 6.5MR16/LED/F25/927/D/EC/12V T20 10/1FB | -                             | -                             |
| 479147     | 6.5MR16/LED/F25/930/D/EC/12V T20 10/1FB | -                             | -                             |
| 479162     | 6.5MR16/LED/F35/927/D/EC/12V T20 10/1FB | -                             | -                             |
| 479170     | 6.5MR16/LED/F35/930/D/EC/12V T20 10/1FB | -                             | -                             |
| 470138     | 7.8MR16/PER/927/S10/Dim/EC/12V 10/1FB   | -                             | -                             |
| 470146     | 7.8MR16/PER/930/S10/Dim/EC/12V 10/1FB   | -                             | -                             |
| 470153     | 7.8MR16/PER/940/S10/Dim/EC/12V 10/1FB   | -                             | -                             |
| 470161     | 7.8MR16/PER/927/F25/Dim/EC/12V 10/1FB   | -                             | -                             |

| Order Code | Full Product Name                     | Energy Consumption kWh/1000 h | Energy Efficiency Label (EEL) |
|------------|---------------------------------------|-------------------------------|-------------------------------|
| 470179     | 7.8MR16/PER/930/F25/Dim/EC/12V 10/1FB | -                             | -                             |
| 470187     | 7.8MR16/PER/940/F25/Dim/EC/12V 10/1FB | -                             | -                             |
| 470195     | 7.8MR16/PER/927/F35/Dim/EC/12V 10/1FB | -                             | -                             |
| 470203     | 7.8MR16/PER/930/F35/Dim/EC/12V 10/1FB | -                             | -                             |
| 470211     | 7.8MR16/PER/940/F35/Dim/EC/12V 10/1FB | -                             | -                             |
| 470245     | 7MR16 ExpertColor Retail F35 930 10/1 | -                             | -                             |
| 533117     | 7.3MR16/LED/827/F25/DIM 12V 10/1FB    | -                             | -                             |
| 533125     | 7.3MR16/LED/830/F25/DIM 12V 10/1FB    | -                             | -                             |
| 533141     | 7.3MR16/LED/827/F35/DIM 12V 10/1FB    | -                             | -                             |
| 533158     | 7.3MR16/LED/830/F35/DIM 12V 10/1FB    | -                             | -                             |
| 533182     | 8.5MR16/LED/827/F35/DIM 12V 10/1FB    | -                             | -                             |
| 533190     | 8.5MR16/LED/830/F35/DIM 12V 10/1FB    | -                             | -                             |
| 533331     | 8.5MR16/LED/840/F35/DIM 12V 10/1FB    | -                             | -                             |
| 533513     | 8.5MR16/LED/827/F25/DIM 12V 10/1FB    | -                             | -                             |
| 533174     | 8.5MR16/LED/830/F25/DIM 12V 10/1FB    | -                             | -                             |
| 533521     | 8.5MR16/LED/840/F25/DIM 12V 10/1FB    | -                             | -                             |

### Controls and Dimming

| Order Code | Full Product Name                       | Dimmable |
|------------|---|----------|
| 454538     | 6.5MR16/F25/2700-2200 DIM 12V 10/1      | Yes      |
| 454546     | 6.5MR16/F35/2700-2200 DIM 12V 10/1      | Yes      |
| 470336     | 6.4MR16/F25/3000 DIM 12V 10/1           | Yes      |
| 470344     | 6.4MR16/F35/3000 DIM 12V 10/1           | Yes      |
| 470229     | 7MR16 ExpertColor Retail S10 930 10/1   | No       |
| 479139     | 6.5MR16/LED/F25/927/D/EC/12V T20 10/1FB | Yes      |
| 479147     | 6.5MR16/LED/F25/930/D/EC/12V T20 10/1FB | Yes      |
| 479162     | 6.5MR16/LED/F35/927/D/EC/12V T20 10/1FB | Yes      |
| 479170     | 6.5MR16/LED/F35/930/D/EC/12V T20 10/1FB | Yes      |
| 470138     | 7.8MR16/PER/927/S10/Dim/EC/12V 10/1FB   | Yes      |
| 470146     | 7.8MR16/PER/930/S10/Dim/EC/12V 10/1FB   | Yes      |
| 470153     | 7.8MR16/PER/940/S10/Dim/EC/12V 10/1FB   | Yes      |
| 470161     | 7.8MR16/PER/927/F25/Dim/EC/12V 10/1FB   | Yes      |
| 470179     | 7.8MR16/PER/930/F25/Dim/EC/12V 10/1FB   | Yes      |
| 470187     | 7.8MR16/PER/940/F25/Dim/EC/12V 10/1FB   | Yes      |

| Order Code | Full Product Name                     | Dimmable |
|------------|---------------------------------------|----------|
| 470195     | 7.8MR16/PER/927/F35/Dim/EC/12V 10/1FB | Yes      |
| 470203     | 7.8MR16/PER/930/F35/Dim/EC/12V 10/1FB | Yes      |
| 470211     | 7.8MR16/PER/940/F35/Dim/EC/12V 10/1FB | Yes      |
| 470245     | 7MR16 ExpertColor Retail F35 930 10/1 | No       |
| 533117     | 7.3MR16/LED/827/F25/DIM 12V 10/1FB    | Yes      |
| 533125     | 7.3MR16/LED/830/F25/DIM 12V 10/1FB    | Yes      |
| 533141     | 7.3MR16/LED/827/F35/DIM 12V 10/1FB    | Yes      |
| 533158     | 7.3MR16/LED/830/F35/DIM 12V 10/1FB    | Yes      |
| 533182     | 8.5MR16/LED/827/F35/DIM 12V 10/1FB    | Yes      |
| 533190     | 8.5MR16/LED/830/F35/DIM 12V 10/1FB    | Yes      |
| 533331     | 8.5MR16/LED/840/F35/DIM 12V 10/1FB    | Yes      |
| 533513     | 8.5MR16/LED/827/F25/DIM 12V 10/1FB    | Yes      |
| 533174     | 8.5MR16/LED/830/F25/DIM 12V 10/1FB    | Yes      |
| 533521     | 8.5MR16/LED/840/F25/DIM 12V 10/1FB    | Yes      |

### Operating and Electrical

| Order Code | Full Product Name                     | Input Frequency | Voltage (Nom) | Wattage Equivalent | Power (Rated) (Nom) | Starting Time (Nom) |
|------------|---------------------------------------|-----------------|---------------|--------------------|---------------------|---------------------|
| 454538     | 6.5MR16/F25/2700-2200 DIM 12V 10/1    | 50 to 60 Hz     | 12 V          | -                  | 6.5 W               | 0.5 s               |
| 454546     | 6.5MR16/F35/2700-2200 DIM 12V 10/1    | 50 to 60 Hz     | 12 V          | -                  | 6.5 W               | 0.5 s               |
| 470336     | 6.4MR16/F25/3000 DIM 12V 10/1         | -               | 12 V          | 35 W               | 6.4 W               | 0.5 s               |
| 470344     | 6.4MR16/F35/3000 DIM 12V 10/1         | -               | 12 V          | 35 W               | 6.4 W               | 0.6 s               |
| 470229     | 7MR16 ExpertColor Retail S10 930 10/1 | -               | 12 V          | 30 W               | 7 W                 | 0.5 s               |

## LED MR16

| Order Code | Full Product Name                       | Input Frequency | Voltage (Nom)      | Wattage Equivalent | Power (Rated) (Nom) | Starting Time (Nom) |
|------------|---|-----------------|--------------------|--------------------|---------------------|---------------------|
| 479139     | 6.5MR16/LED/F25/927/D/EC/12V T20 10/1FB | -               | ac electronic 12 V | 42 W               | 6.5 W               | 0.5 s               |
| 479147     | 6.5MR16/LED/F25/930/D/EC/12V T20 10/1FB | -               | ac electronic 12 V | 42 W               | 6.5 W               | 0.5 s               |
| 479162     | 6.5MR16/LED/F35/927/D/EC/12V T20 10/1FB | -               | ac electronic 12 V | 42 W               | 6.5 W               | 0.5 s               |
| 479170     | 6.5MR16/LED/F35/930/D/EC/12V T20 10/1FB | -               | ac electronic 12 V | 42 W               | 6.5 W               | 0.5 s               |
| 470138     | 7.8MR16/PER/927/S10/Dim/EC/12V 10/1FB   | -               | ac electronic 12 V | 35 W               | 7.8 W               | 0.5 s               |
| 470146     | 7.8MR16/PER/930/S10/Dim/EC/12V 10/1FB   | -               | ac electronic 12 V | 35 W               | 7.8 W               | 0.5 s               |
| 470153     | 7.8MR16/PER/940/S10/Dim/EC/12V 10/1FB   | -               | ac electronic 12 V | 35 W               | 7.8 W               | 0.5 s               |
| 470161     | 7.8MR16/PER/927/F25/Dim/EC/12V 10/1FB   | -               | ac electronic 12 V | 50 W               | 7.8 W               | 0.5 s               |
| 470179     | 7.8MR16/PER/930/F25/Dim/EC/12V 10/1FB   | -               | ac electronic 12 V | 50 W               | 7.8 W               | 0.5 s               |
| 470187     | 7.8MR16/PER/940/F25/Dim/EC/12V 10/1FB   | -               | ac electronic 12 V | 50 W               | 7.8 W               | 0.5 s               |
| 470195     | 7.8MR16/PER/927/F35/Dim/EC/12V 10/1FB   | -               | ac electronic 12 V | 50 W               | 7.8 W               | 0.5 s               |
| 470203     | 7.8MR16/PER/930/F35/Dim/EC/12V 10/1FB   | -               | ac electronic 12 V | 50 W               | 7.8 W               | 0.5 s               |
| 470211     | 7.8MR16/PER/940/F35/Dim/EC/12V 10/1FB   | -               | ac electronic 12 V | 50 W               | 7.8 W               | 0.5 s               |
| 470245     | 7MR16 ExpertColor Retail F35 930 10/1   | -               | 12 V               | 42 W               | 7 W                 | 0.5 s               |
| 533117     | 7.3MR16/LED/827/F25/DIM 12V 10/1FB      | -               | ac electronic 12 V | 50 W               | 7.3 W               | 0.5 s               |
| 533125     | 7.3MR16/LED/830/F25/DIM 12V 10/1FB      | -               | ac electronic 12 V | 50 W               | 7.3 W               | 0.5 s               |
| 533141     | 7.3MR16/LED/827/F35/DIM 12V 10/1FB      | -               | ac electronic 12 V | 50 W               | 7.3 W               | 0.5 s               |
| 533158     | 7.3MR16/LED/830/F35/DIM 12V 10/1FB      | -               | ac electronic 12 V | 50 W               | 7.3 W               | 0.5 s               |
| 533182     | 8.5MR16/LED/827/F35/DIM 12V 10/1FB      | -               | ac electronic 12 V | 75 W               | 8.5 W               | 0.5 s               |
| 533190     | 8.5MR16/LED/830/F35/DIM 12V 10/1FB      | -               | ac electronic 12 V | 75 W               | 8.5 W               | 0.5 s               |
| 533331     | 8.5MR16/LED/840/F35/DIM 12V 10/1FB      | -               | ac electronic 12 V | 75 W               | 8.5 W               | 0.5 s               |
| 533513     | 8.5MR16/LED/827/F25/DIM 12V 10/1FB      | -               | ac electronic 12 V | 75 W               | 8.5 W               | 0.5 s               |
| 533174     | 8.5MR16/LED/830/F25/DIM 12V 10/1FB      | -               | ac electronic 12 V | 75 W               | 8.5 W               | 0.5 s               |
| 533521     | 8.5MR16/LED/840/F25/DIM 12V 10/1FB      | -               | ac electronic 12 V | 75 W               | 8.5 W               | 0.5 s               |

### General Information

| Order Code | Full Product Name                       | Nominal Lifetime (Nom) | Order Code | Full Product Name                     | Nominal Lifetime (Nom) |
|------------|---|------------------------|------------|---------------------------------------|------------------------|
| 454538     | 6.5MR16/F25/2700-2200 DIM 12V 10/1      | 25000 h                | 470195     | 7.8MR16/PER/927/F35/Dim/EC/12V 10/1FB | 25000 h                |
| 454546     | 6.5MR16/F35/2700-2200 DIM 12V 10/1      | 25000 h                | 470203     | 7.8MR16/PER/930/F35/Dim/EC/12V 10/1FB | 25000 h                |
| 470336     | 6.4MR16/F25/3000 DIM 12V 10/1           | 25000 h                | 470211     | 7.8MR16/PER/940/F35/Dim/EC/12V 10/1FB | 25000 h                |
| 470344     | 6.4MR16/F35/3000 DIM 12V 10/1           | 25000 h                | 470245     | 7MR16 ExpertColor Retail F35 930 10/1 | 40000 h                |
| 470229     | 7MR16 ExpertColor Retail S10 930 10/1   | 40000 h                | 533117     | 7.3MR16/LED/827/F25/DIM 12V 10/1FB    | 25000 h                |
| 479139     | 6.5MR16/LED/F25/927/D/EC/12V T20 10/1FB | 25000 h                | 533125     | 7.3MR16/LED/830/F25/DIM 12V 10/1FB    | 25000 h                |
| 479147     | 6.5MR16/LED/F25/930/D/EC/12V T20 10/1FB | 25000 h                | 533141     | 7.3MR16/LED/827/F35/DIM 12V 10/1FB    | 25000 h                |
| 479162     | 6.5MR16/LED/F35/927/D/EC/12V T20 10/1FB | 25000 h                | 533158     | 7.3MR16/LED/830/F35/DIM 12V 10/1FB    | 25000 h                |
| 479170     | 6.5MR16/LED/F35/930/D/EC/12V T20 10/1FB | 25000 h                | 533182     | 8.5MR16/LED/827/F35/DIM 12V 10/1FB    | 25000 h                |
| 470138     | 7.8MR16/PER/927/S10/Dim/EC/12V 10/1FB   | 25000 h                | 533190     | 8.5MR16/LED/830/F35/DIM 12V 10/1FB    | 25000 h                |
| 470146     | 7.8MR16/PER/930/S10/Dim/EC/12V 10/1FB   | 25000 h                | 533331     | 8.5MR16/LED/840/F35/DIM 12V 10/1FB    | 25000 h                |
| 470153     | 7.8MR16/PER/940/S10/Dim/EC/12V 10/1FB   | 25000 h                | 533513     | 8.5MR16/LED/827/F25/DIM 12V 10/1FB    | 25000 h                |
| 470161     | 7.8MR16/PER/927/F25/Dim/EC/12V 10/1FB   | 25000 h                | 533174     | 8.5MR16/LED/830/F25/DIM 12V 10/1FB    | 25000 h                |
| 470179     | 7.8MR16/PER/930/F25/Dim/EC/12V 10/1FB   | 25000 h                | 533521     | 8.5MR16/LED/840/F25/DIM 12V 10/1FB    | 25000 h                |
| 470187     | 7.8MR16/PER/940/F25/Dim/EC/12V 10/1FB   | 25000 h                |            |                                       |                        |

### Light Technical

| Order Code | Full Product Name                  | Beam Angle | Correlated Color |                   | Color Rendering |                     | Luminous Intensity |
|------------|------------------------------------|------------|------------------|-------------------|-----------------|---------------------|--------------------|
|            |                                    | (Nom)      | Color Code       | Temperature (Nom) | Index (Nom)     | Luminous Flux (Nom) | (Nom)              |
| 454538     | 6.5MR16/F25/2700-2200 DIM 12V 10/1 | 25 °       | 822-827          | 2200-2700 K       | 80              | 410 lm              | 1800 cd            |
| 454546     | 6.5MR16/F35/2700-2200 DIM 12V 10/1 | 35 °       | 822-827          | 2200-2700 K       | 80              | 410 lm              | 900 cd             |
| 470336     | 6.4MR16/F25/3000 DIM 12V 10/1      | 25 °       | 830              | 3000 K            | 80              | 450 lm              | 1800 cd            |

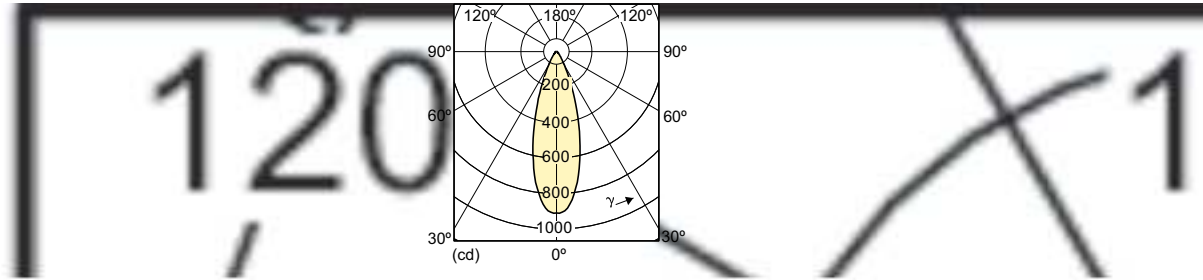
## LED MR16

| Order Code | Full Product Name                       | Beam Angle | Correlated Color |                   | Color Rendering |                     | Luminous Intensity |
|------------|---|------------|------------------|-------------------|-----------------|---------------------|--------------------|
|            |   | (Nom)      | Color Code       | Temperature (Nom) | Index (Nom)     | Luminous Flux (Nom) | (Nom)              |
| 470344     | 6.4MR16/F35/3000 DIM 12V 10/1           | 35 °       | 830              | 3000 K            | 80              | 450 lm              | 1000 cd            |
| 470229     | 7MR16 ExpertColor Retail S10 930 10/1   | 10 °       | 930              | 3000 K            | 90              | 430 lm              | 4600 cd            |
| 479139     | 6.5MR16/LED/F25/927/D/EC/12V T20 10/1FB | 25 °       | 927              | 2700 K            | 91              | 485 lm              | 1960 cd            |
| 479147     | 6.5MR16/LED/F25/930/D/EC/12V T20 10/1FB | 25 °       | 930              | 3000 K            | 91              | 485 lm              | 1960 cd            |
| 479162     | 6.5MR16/LED/F35/927/D/EC/12V T20 10/1FB | 35 °       | 927              | 2700 K            | 91              | 485 lm              | 1110 cd            |
| 479170     | 6.5MR16/LED/F35/930/D/EC/12V T20 10/1FB | 35 °       | 930              | 3000 K            | 91              | 485 lm              | 1110 cd            |
| 470138     | 7.8MR16/PER/927/S10/Dim/EC/12V 10/1FB   | 10 °       | 927              | 2700 K            | 95              | 480 lm              | 5300 cd            |
| 470146     | 7.8MR16/PER/930/S10/Dim/EC/12V 10/1FB   | 10 °       | 930              | 3000 K            | 95              | 480 lm              | 5300 cd            |
| 470153     | 7.8MR16/PER/940/S10/Dim/EC/12V 10/1FB   | 10 °       | 940              | 4000 K            | 95              | 540 lm              | 5900 cd            |
| 470161     | 7.8MR16/PER/927/F25/Dim/EC/12V 10/1FB   | 25 °       | 927              | 2700 K            | 95              | 480 lm              | 2330 cd            |
| 470179     | 7.8MR16/PER/930/F25/Dim/EC/12V 10/1FB   | 25 °       | 930              | 3000 K            | 95              | 480 lm              | 2330 cd            |
| 470187     | 7.8MR16/PER/940/F25/Dim/EC/12V 10/1FB   | 25 °       | 940              | 4000 K            | 95              | 540 lm              | 2600 cd            |
| 470195     | 7.8MR16/PER/927/F35/Dim/EC/12V 10/1FB   | 35 °       | 927              | 2700 K            | 95              | 480 lm              | 1320 cd            |
| 470203     | 7.8MR16/PER/930/F35/Dim/EC/12V 10/1FB   | 35 °       | 930              | 3000 K            | 95              | 480 lm              | 1320 cd            |
| 470211     | 7.8MR16/PER/940/F35/Dim/EC/12V 10/1FB   | 35 °       | 940              | 4000 K            | 95              | 540 lm              | 1450 cd            |
| 470245     | 7MR16 ExpertColor Retail F35 930 10/1   | 35 °       | 930              | 3000 K            | 90              | 430 lm              | 1300 cd            |
| 533117     | 7.3MR16/LED/827/F25/DIM 12V 10/1FB      | 25 °       | 827              | 2700 K            | 80              | 515 lm              | 2400 cd            |
| 533125     | 7.3MR16/LED/830/F25/DIM 12V 10/1FB      | 25 °       | 830              | 3000 K            | 80              | 515 lm              | 2500 cd            |
| 533141     | 7.3MR16/LED/827/F35/DIM 12V 10/1FB      | 35 °       | 827              | 2700 K            | 80              | 515 lm              | 1350 cd            |
| 533158     | 7.3MR16/LED/830/F35/DIM 12V 10/1FB      | 35 °       | 830              | 3000 K            | 80              | 515 lm              | 1350 cd            |
| 533182     | 8.5MR16/LED/827/F35/DIM 12V 10/1FB      | 35 °       | 827              | 2700 K            | 80              | 600 lm              | 1700 cd            |
| 533190     | 8.5MR16/LED/830/F35/DIM 12V 10/1FB      | 35 °       | 830              | 3000 K            | 80              | 620 lm              | 1700 cd            |
| 533331     | 8.5MR16/LED/840/F35/DIM 12V 10/1FB      | 35 °       | 841              | 4000 K            | 80              | 660 lm              | 1800 cd            |
| 533513     | 8.5MR16/LED/827/F25/DIM 12V 10/1FB      | 25 °       | 827              | 2700 K            | 80              | 600 lm              | 3100 cd            |
| 533174     | 8.5MR16/LED/830/F25/DIM 12V 10/1FB      | 25 °       | 830              | 3000 K            | 80              | 620 lm              | 3250 cd            |
| 533521     | 8.5MR16/LED/840/F25/DIM 12V 10/1FB      | 25 °       | 841              | 4000 K            | 80              | 660 lm              | 3350 cd            |

### Temperature

| Order Code | Full Product Name                       | T-Case Maximum (Nom) | Order Code | Full Product Name                  | T-Case Maximum (Nom) |
|------------|---|----------------------|------------|------------------------------------|----------------------|
| 454538     | 6.5MR16/F25/2700-2200 DIM 12V 10/1      | -                    | 533141     | 7.3MR16/LED/827/F35/DIM 12V 10/1FB | 90 °C                |
| 454546     | 6.5MR16/F35/2700-2200 DIM 12V 10/1      | -                    | 533158     | 7.3MR16/LED/830/F35/DIM 12V 10/1FB | 90 °C                |
| 470336     | 6.4MR16/F25/3000 DIM 12V 10/1           | 100 °C               | 533182     | 8.5MR16/LED/827/F35/DIM 12V 10/1FB | 100 °C               |
| 470344     | 6.4MR16/F35/3000 DIM 12V 10/1           | 100 °C               | 533190     | 8.5MR16/LED/830/F35/DIM 12V 10/1FB | 100 °C               |
| 470229     | 7MR16 ExpertColor Retail S10 930 10/1   | 90 °C                | 533331     | 8.5MR16/LED/840/F35/DIM 12V 10/1FB | 100 °C               |
| 479139     | 6.5MR16/LED/F25/927/D/EC/12V T20 10/1FB | 92 °C                | 533513     | 8.5MR16/LED/827/F25/DIM 12V 10/1FB | 100 °C               |
| 479147     | 6.5MR16/LED/F25/930/D/EC/12V T20 10/1FB | 92 °C                | 533174     | 8.5MR16/LED/830/F25/DIM 12V 10/1FB | 100 °C               |
| 479162     | 6.5MR16/LED/F35/927/D/EC/12V T20 10/1FB | 92 °C                | 533521     | 8.5MR16/LED/840/F25/DIM 12V 10/1FB | 100 °C               |
| 479170     | 6.5MR16/LED/F35/930/D/EC/12V T20 10/1FB | 92 °C                |            |                                    |                      |
| 470138     | 7.8MR16/PER/927/S10/Dim/EC/12V 10/1FB   | 105 °C               |            |                                    |                      |
| 470146     | 7.8MR16/PER/930/S10/Dim/EC/12V 10/1FB   | 105 °C               |            |                                    |                      |
| 470153     | 7.8MR16/PER/940/S10/Dim/EC/12V 10/1FB   | 105 °C               |            |                                    |                      |
| 470161     | 7.8MR16/PER/927/F25/Dim/EC/12V 10/1FB   | 105 °C               |            |                                    |                      |
| 470179     | 7.8MR16/PER/930/F25/Dim/EC/12V 10/1FB   | 105 °C               |            |                                    |                      |
| 470187     | 7.8MR16/PER/940/F25/Dim/EC/12V 10/1FB   | 105 °C               |            |                                    |                      |
| 470195     | 7.8MR16/PER/927/F35/Dim/EC/12V 10/1FB   | 105 °C               |            |                                    |                      |
| 470203     | 7.8MR16/PER/930/F35/Dim/EC/12V 10/1FB   | 105 °C               |            |                                    |                      |
| 470211     | 7.8MR16/PER/940/F35/Dim/EC/12V 10/1FB   | 105 °C               |            |                                    |                      |
| 470245     | 7MR16 ExpertColor Retail F35 930 10/1   | 90 °C                |            |                                    |                      |
| 533117     | 7.3MR16/LED/827/F25/DIM 12V 10/1FB      | 90 °C                |            |                                    |                      |
| 533125     | 7.3MR16/LED/830/F25/DIM 12V 10/1FB      | 90 °C                |            |                                    |                      |

# LED MR16

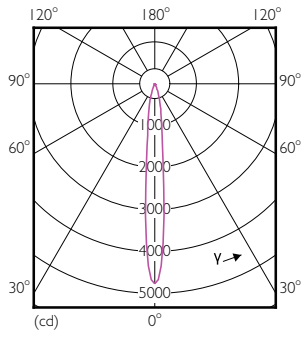


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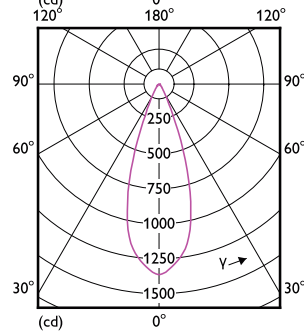
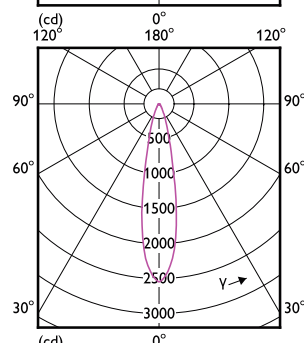
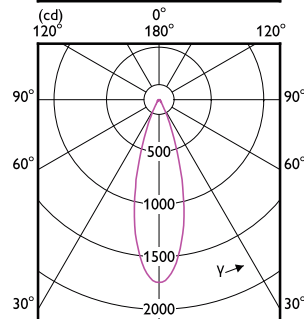
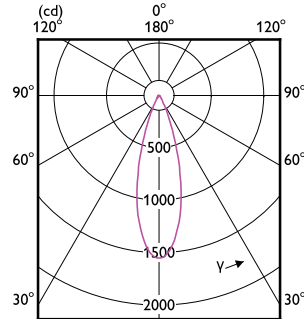
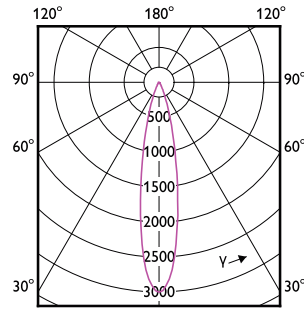
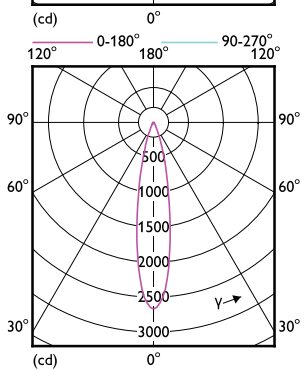
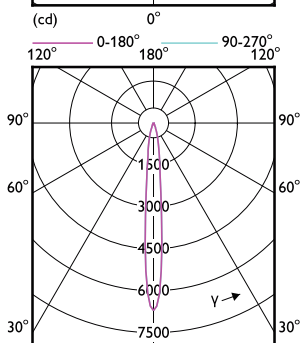
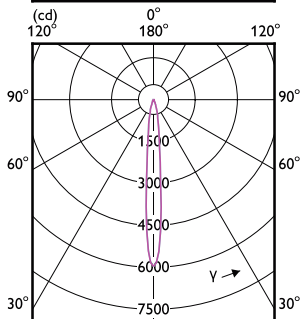
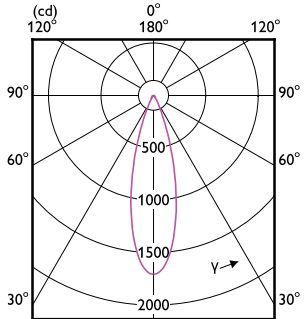
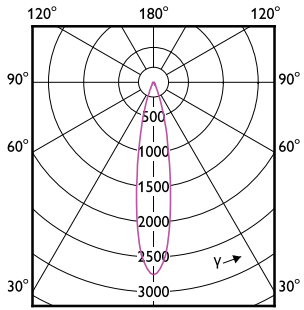
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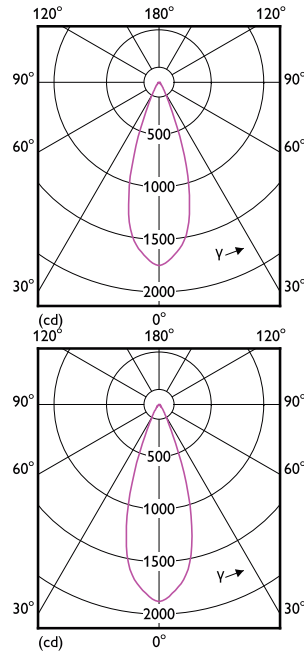
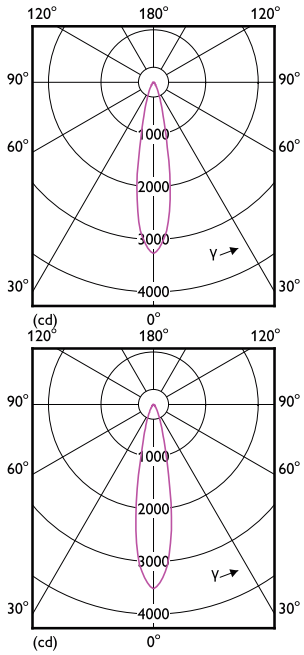
# LED MR16



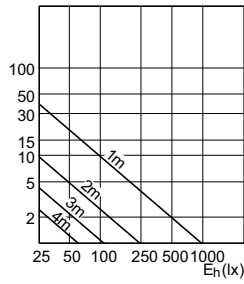
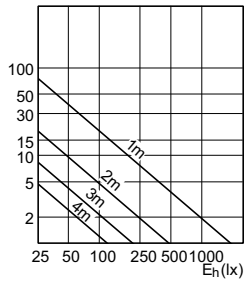
# LED MR16



# LED MR16



## Accent Diagrams

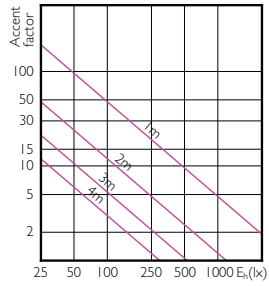


SDAC\_LEDspotL\_0109-Accent diagram

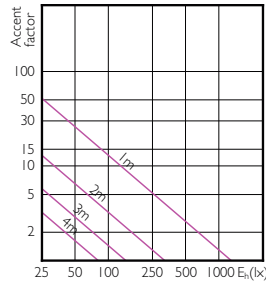


# LED MR16

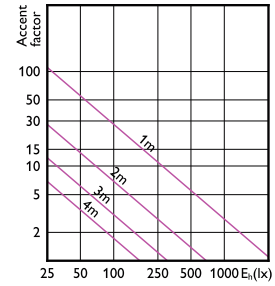
## Accent Diagrams



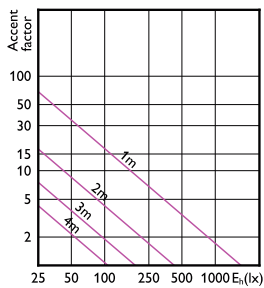
LEDSpots MR16 7W 930 430lm 10D



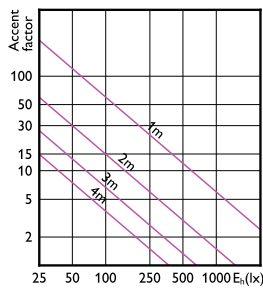
LEDSpots MR16 7W 930 430lm 35D



LEDspot 6.5W GU5.3 MR16 927 25D DIM



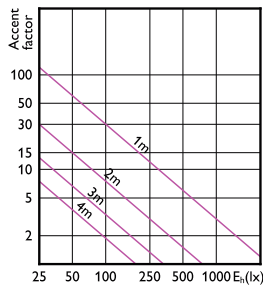
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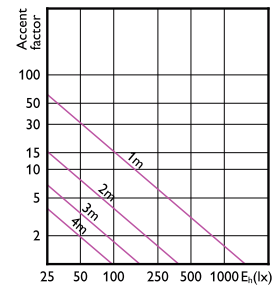
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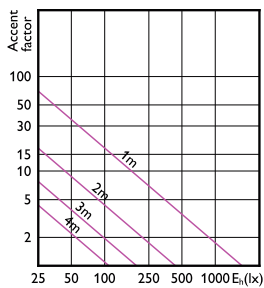
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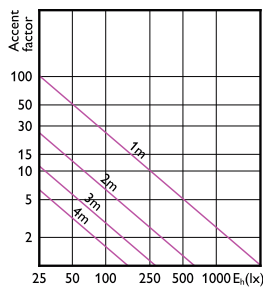
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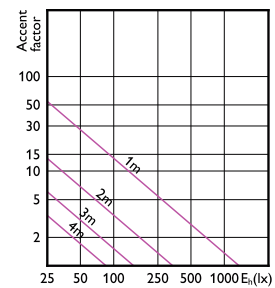
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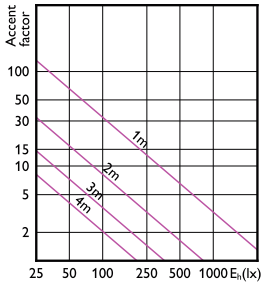
LEDspot 7.3W GU5.3 MR16 827 25D DIM



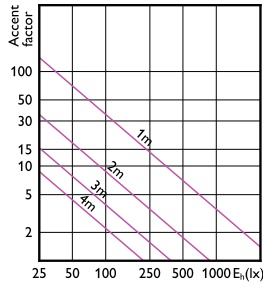
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# LED MR16

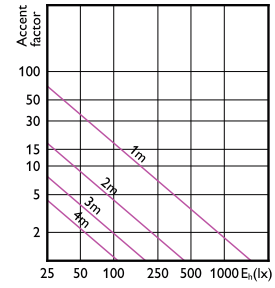
## Accent Diagrams



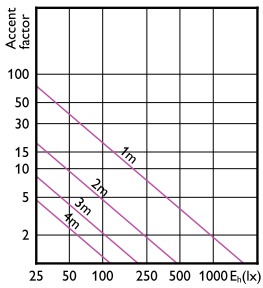
8-50W GU5-3 MR16 24D 827 2700K



LEDspot MAS 8-50W GU5,3 MR16 840 24D DIM

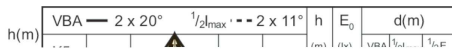


8-50W GU5-3 MR16 36D 827 2700K



8-50W GU5-3 MR16 36D 840 4000K

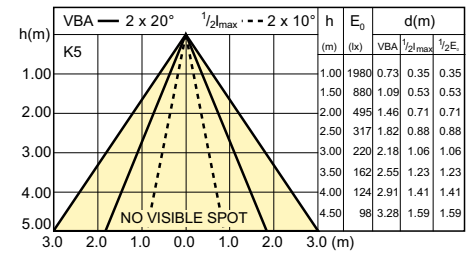
## Beam Diagrams



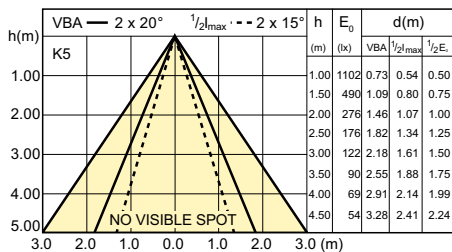
SDBE\_LEDspotL\_0108-Beam diagram



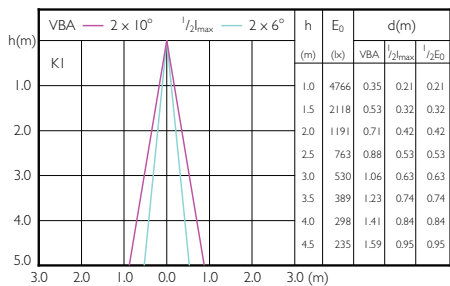
SDBE\_LEDspotL\_0109-Beam diagram



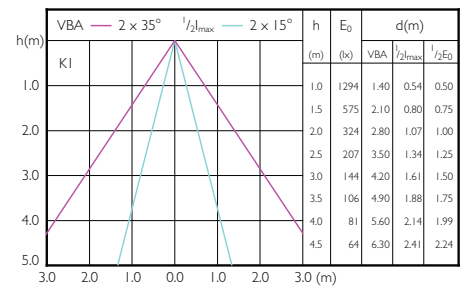
SDBE\_LEDspotL\_0127-Beam diagram



SDBE\_LEDspotL\_0130-Beam diagram



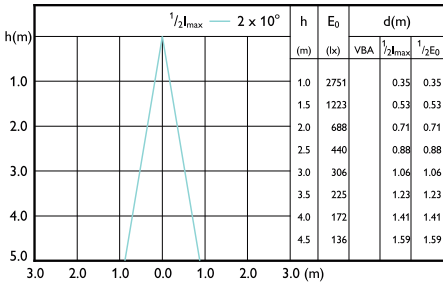
LEDspots MR16 7W 930 430lm 10D



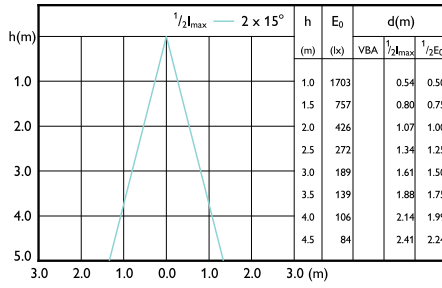
LEDspots MR16 7W 930 430lm 35D

# LED MR16

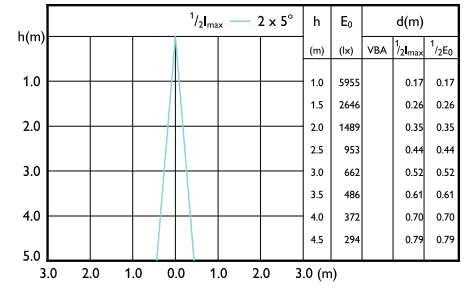
## Beam Diagrams



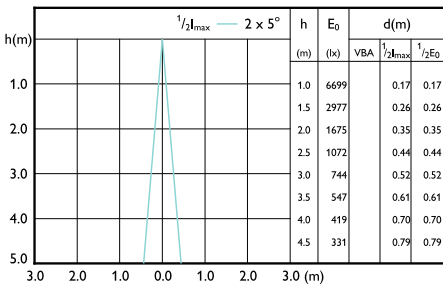
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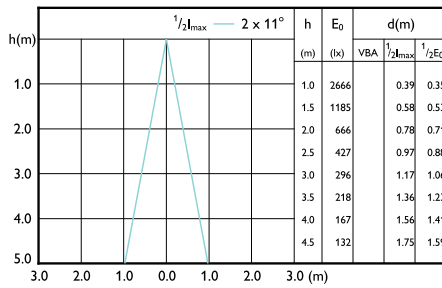
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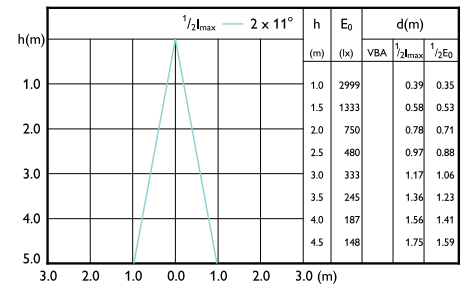
LEDspot 7.8W GU5.3 MR16 927 10D DIM



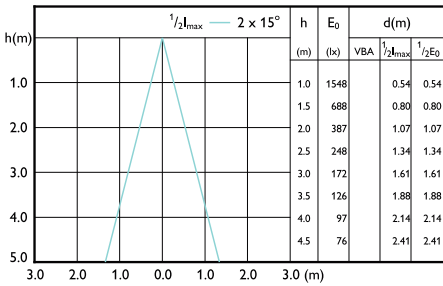
LEDspot 7.8W GU5.3 MR16 940 10D DIM



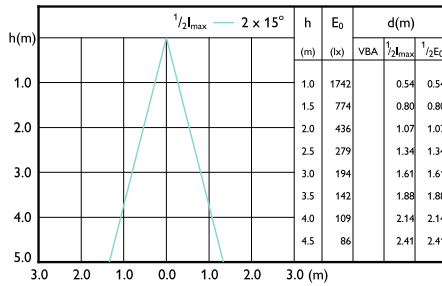
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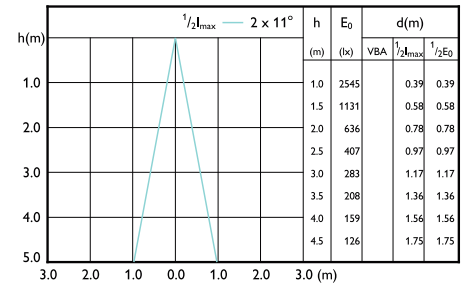
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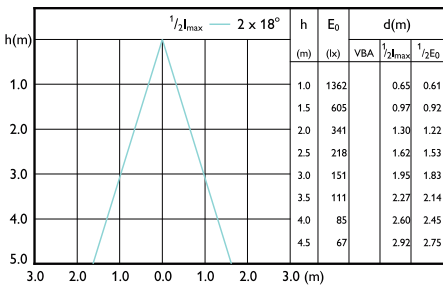
LEDspot 7.8W GU5.3 MR16 927 35D DIM



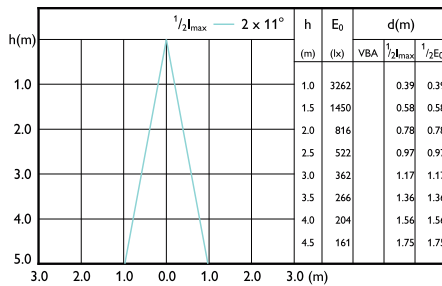
LEDspot 7.8W GU5.3 MR16 940 35D DIM



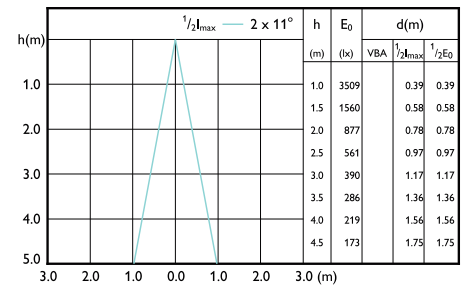
LEDspot 7.3W GU5.3 MR16 827 25D DIM



LEDspot 7.3W GU5.3 MR16 827 35D DIM



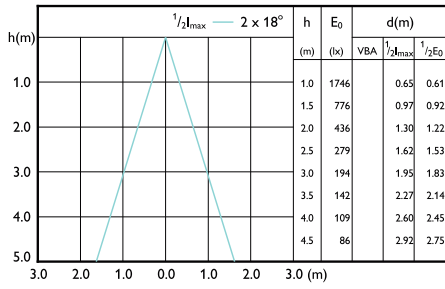
8-50W GU5-3 MR16 24D 827 2700K



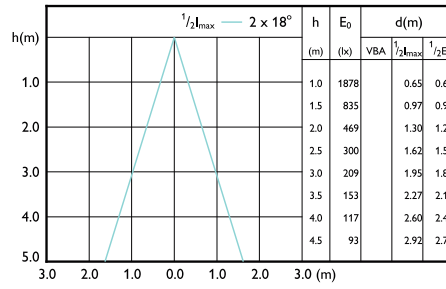
LEDspot MAS 8-50W GU5.3 MR16 840 24D DIM

# LED MR16

## Beam Diagrams



8-50W GU5-3 MR16 36D 827 2700K



8-50W GU5-3 MR16 36D 840 4000K

