# LUXEON 3535 Mid-Power Family

# Office and general illumination solutions













LUXEON 3535 mid-power family brings industry-leading performance and reliability to mid-power LEDs for the lighting market. Offered in the full CCT range from 2700K-6500K and with 70, 80 and 90 CRI, LUXEON 3535 and LUXEON 3535L enables designs for distributed light sources that meet the most demanding color quality requirements. The LUXEON 3535 family is engineered for both consumer and professional applications and incorporates the same Philips Lumileds technology that has made our high-power products legendary in the market.

#### **Features**

- High efficacy— up to 165 lm/W at 60 mA
- Full range of CCTs—2700K to 6500K
- Compact 3535 form factor
- Min 70 and 80 guaranteed and 90 CRI typical
- Philips Lumileds technology
- Supports ENERGY STAR® lumen maintenance certification requirements

#### **Benefits**

- Enables cost effective and highly efficient system
- Ability to achieve indoor color quality requirements
- High lumen density for unique designs

## **Key Applications**

- Lamps
- Indoor Area Lighting
- Downlight
- Outdoor
- Architecture
- High bay & Low bay

#### LUXEON 3535L Product Characteristics at 100 mA and 25°C

| Nominal | Part<br>Number | Color Rendering Index |         | Typical | Luminous Flux (lm) |         | Efficacy Typ. | Forward      |
|---------|----------------|-----------------------|---------|---------|--------------------|---------|---------------|--------------|
| CCT     |                | Minimum               | Typical | R9      | Minimum            | Typical | lm/W          | Voltage Typ. |
| 2700K   | MXA8-PW27-0000 | 80                    | 82      | R9>0    | 28                 | 36      | 118           | 3.05         |
| 2700K   | MXA9-PW27-0000 | 85                    | 92      | R9>50   | 26                 | 30      | 98            | 3.05         |
| 3000K   | MXA8-PW30-0000 | 80                    | 82      | R9>0    | 32                 | 37      | 121           | 3.05         |
| 3500K   | MXA8-PW35-0000 | 80                    | 82      | R9>0    | 32                 | 37      | 121           | 3.05         |
| 4000K   | MXA7-PW40-0000 | 70                    | 72      | NA      | 36                 | 42      | 137           | 3.05         |
| 4000K   | MXA8-PW40-0000 | 80                    | 82      | R9>0    | 32                 | 39      | 128           | 3.05         |
| 5000K   | MXA8-PW50-0000 | 80                    | 82      | R9>0    | 32                 | 39      | 128           | 3.05         |
| 5700K   | MXA8-PW57-0000 | 80                    | 82      | R9>0    | 32                 | 39      | 128           | 3.05         |
| 6500K   | MXA8-PW65-0000 | 80                    | 82      | R9>0    | 32                 | 39      | 128           | 3.05         |



#### **LUXEON 3535 2D Product Characteristics**

| Nominal | Part      | Color Rendering Index |         | Typical | Luminous Flux (lm) |         | Efficacy Typ. | Forward      |
|---------|-----------|-----------------------|---------|---------|--------------------|---------|---------------|--------------|
| ССТ     | Number    | Minimum               | Typical | R9      | Minimum            | Typical | lm/W          | Voltage Typ. |
| 2700K   | MXC8-PW27 | 80                    | 82      | >0      | 55                 | 65      | 107           | 6.1          |
| 3000K   | MXC8-PW30 | 80                    | 82      | >0      | 55                 | 66      | 108           | 6.1          |
| 3500K   | MXC8-PW35 | 80                    | 82      | >0      | 55                 | 66      | 108           | 6.1          |
| 4000K   | MXC8-PW40 | 80                    | 82      | >0      | 60                 | 70      | 115           | 6.1          |
| 5000K   | MXC8-PW50 | 80                    | 82      | >0      | 60                 | 70      | 115           | 6.1          |
| 5700K   | MXC8-PW57 | 80                    | 82      | >0      | 60                 | 70      | 115           | 6.1          |
| 6500K   | MXC8-PW65 | 80                    | 82      | >0      | 60                 | 70      | 115           | 6.1          |

#### LUXEON 3535 Product Characteristics at 100 mA and 25°C

| Nominal | Part Number    | Junction Temp. | Color Rendering Index | Luminous Flux (Im) |         | Efficacy Typ. | Forward Voltage |
|---------|----------------|----------------|-----------------------|--------------------|---------|---------------|-----------------|
| CCT (K) | Fart Number    | °C             | Ra (min)              | Minimum            | Typical | lm/W          | Тур.            |
| 2700K   | MXM8-PW27      | 25             | 80                    | 28                 | 32      | 103           | 3.1             |
| 3000K   | MXM8-PW30      | 25             | 80                    | 30                 | 33      | 107           | 3.1             |
| 3500K   | MXM8-PW35      | 25             | 80                    | 30                 | 34      | 110           | 3.1             |
| 4000K   | MXM8-PW40      | 25             | 80                    | 30                 | 36      | 116           | 3.1             |
| 5000K   | MXM8-PW50      | 25             | 80                    | 30                 | 36      | 116           | 3.1             |
| 5700K   | MXM8-PW57      | 25             | 80                    | 30                 | 36      | 116           | 3.1             |
| 6500K   | MXM8-PW65      | 25             | 80                    | 30                 | 36      | 116           | 3.1             |
| 4000K   | MXM7-PW40-0000 | 25             | 70                    | 32                 | 39      | 116           | 3.1             |
| 5000K   | MXM7-PW50-0000 | 25             | 70                    | 32                 | 39      | 116           | 3.1             |
| 5700K   | MXM7-PW57-0000 | 25             | 70                    | 32                 | 39      | 116           | 3.1             |
| 6500K   | MXM7-PW65-0000 | 25             | 70                    | 32                 | 39      | 116           | 3.1             |

### V, Bins for LUXEON 3535 and LUXEON 3535L

| Bin Code                               | Minimum Forward Voltage (V) | Maximum Forward Voltage (V) |  |  |  |
|--|-----------------------------|-----------------------------|--|--|--|
| Т                                      | 2.8                         | 2.9                         |  |  |  |
| V                                      | 2.9                         | 3.0                         |  |  |  |
| W                                      | 3.0                         | 3.1                         |  |  |  |
| ×                                      | 3.1                         | 3.2                         |  |  |  |
| Y                                      | 3.2                         | 3.3                         |  |  |  |
| Z                                      | 3.3                         | 3.4                         |  |  |  |
| V <sub>r</sub> Bins for LUXEON 3535 2D |                             |                             |  |  |  |
| F                                      | 5.6                         | 5.8                         |  |  |  |

| J | 6.2 | 6.4 |
|---|-----|-----|
| K | 6.4 | 6.6 |
|   | 66  | 6.8 |

5.8

6

Tested and binned at  $25^{\circ}$ C, If = 100 mA. Tester tolerance  $\pm 0.10$ V.

#### Flux Bins for LUXEON 3535 and LUXEON 3535L

| Bin Code | Min Photometric<br>Flux (lm) | Max Photometric<br>Flux (lm) |
|----------|------------------------------|------------------------------|
| J        | 24                           | 28                           |
| K        | 28                           | 32                           |
| L        | 32                           | 36                           |
| M        | 36                           | 40                           |
| Р        | 40                           | 44                           |
| Q        | 44                           | 48                           |
|          |                              |                              |

#### Flux Bins for LUXEON 3535 2D

| А | 55 | 60 |
|---|----|----|
| В | 60 | 65 |
| С | 65 | 70 |
| D | 70 | 75 |
| Е | 75 | 80 |
|   |    |    |

Tested and binned at  $25^{\circ}$ C, If = 100 mA. Tester tolerance  $\pm 7.5\%$ .





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