STRADA-IP-2X6-DWC

Universal road lighting (IESNA Type II medium) beam with excellent mixed illuminance and luminance uniformity.

SPECIFICATION:

- **Dimensions**: 173.0 x 71.4 mm
- **Height**: 9 mm
- **Fastening**: pin, screw
- **Ingress protection classes**: IP67
- **ROHS compliant**: yes

MATERIALS:

<table>
<thead>
<tr>
<th>Component</th>
<th>Type</th>
<th>Material</th>
<th>Colour</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>STRADA-IP-2X6-DWC</td>
<td>Multi-lens</td>
<td>PMMA</td>
<td>clear</td>
<td></td>
</tr>
<tr>
<td>2X6-SEAL25</td>
<td>Seal</td>
<td>Silicone</td>
<td>white</td>
<td></td>
</tr>
</tbody>
</table>

ORDERING INFORMATION:

<table>
<thead>
<tr>
<th>Component</th>
<th>Qty in box</th>
<th>MOQ</th>
<th>MPQ</th>
<th>Box weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS12862_STRADA-IP-2X6-DWC</td>
<td>120</td>
<td>40</td>
<td>40</td>
<td>6.8</td>
</tr>
</tbody>
</table>

» Box size: 476 x 273 x 247 mm
OPTICAL RESULTS (MEASURED):

**LED**: QUICK FLUX 2x6 LED XG xxx G7+
- **FWHM / FWTM**: Asymmetric
- **Efficiency**: 94%
- **Peak intensity**: 0.5 cd/lm
- **LEDs/each optic**: 1
- **Light colour**: White

**Required components:**

**LED**: QUICK FLUX 2x6 LED XT xxx G5
- **FWHM / FWTM**: Asymmetric
- **Efficiency**: 94%
- **Peak intensity**: 0.6 cd/lm
- **LEDs/each optic**: 1
- **Light colour**: White

**Required components:**

**LED**: XP-L2
- **FWHM / FWTM**: Asymmetric
- **Efficiency**: 94%
- **Peak intensity**: 0.4 cd/lm
- **LEDs/each optic**: 1
- **Light colour**: White

**Required components:**

**LED**: EHP-2x6-IP-3535
- **FWHM / FWTM**: Asymmetric
- **Efficiency**: 94%
- **Peak intensity**: 0.5 cd/lm
- **LEDs/each optic**: 1
- **Light colour**: White

**Required components:**
OPTICAL RESULTS (MEASURED):

**ELECTRID**

LED: EHP-2x6-IP-5050
- FWHM / FWTM: Asymmetric
- Efficiency: 96 %
- Peak intensity: 0.5 cd/lm
- LEDs/each optic: 1
- Light colour: White

**LUMILEDS**

LED: LUXEON 5050 Round LES
- FWHM / FWTM: Asymmetric
- Efficiency: 94 %
- Peak intensity: 0.5 cd/lm
- LEDs/each optic: 1
- Light colour: White

LED: LUXEON R
- FWHM / FWTM: Asymmetric
- Efficiency: 96 %
- Peak intensity: 0.6 cd/lm
- LEDs/each optic: 1
- Light colour: White

LED: LUXEON Rebel ES
- FWHM / FWTM: Asymmetric
- Efficiency: 96 %
- Peak intensity: 0.6 cd/lm
- LEDs/each optic: 1
- Light colour: White

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OPTICAL RESULTS (MEASURED):

**LUMILEDS**

- **LED**: LUXEON T
- **FWHM / FWTM**: Asymmetric
- **Efficiency**: 95%
- **Peak intensity**: 0.6 cd/lm
- **LEDs/each optic**: 1
- **Light colour**: White
- **Required components**:

**LUMILEDS**

- **LED**: LUXEON V
- **FWHM / FWTM**: Asymmetric
- **Efficiency**: 92%
- **Peak intensity**: 0.5 cd/lm
- **LEDs/each optic**: 1
- **Light colour**: White
- **Required components**:

**LUMILEDS**

- **LED**: LUXEON V2
- **FWHM / FWTM**: Asymmetric
- **Efficiency**: 94%
- **Peak intensity**: 0.5 cd/lm
- **LEDs/each optic**: 1
- **Light colour**: White
- **Required components**:

**NICHIA**

- **LED**: NVSW219D
- **FWHM / FWTM**: Asymmetric
- **Efficiency**: 94%
- **Peak intensity**: 0.5 cd/lm
- **LEDs/each optic**: 1
- **Light colour**: White
- **Required components**:

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## OPTICAL RESULTS (MEASURED):

<table>
<thead>
<tr>
<th>LED</th>
<th>NVSW219F</th>
<th>NVSW319B</th>
<th>NVSW3x9A</th>
<th>NVSW519A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FWHM / FWTM</strong></td>
<td>Asymmetric</td>
<td>Asymmetric</td>
<td>Asymmetric</td>
<td>Asymmetric</td>
</tr>
<tr>
<td><strong>Efficiency</strong></td>
<td>94 %</td>
<td>94 %</td>
<td>94 %</td>
<td>95 %</td>
</tr>
<tr>
<td><strong>Peak intensity</strong></td>
<td>0.5 cd/lm</td>
<td>0.5 cd/lm</td>
<td>0.5 cd/lm</td>
<td>0.4 cd/lm</td>
</tr>
<tr>
<td><strong>LEDs/each optic</strong></td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Light colour</strong></td>
<td>White</td>
<td>White</td>
<td>White</td>
<td>White</td>
</tr>
</tbody>
</table>

**LEDs/each optic:**

- **LED NVSW219F:**
  - FWHM / FWTM: Asymmetric
  - Efficiency: 94%
  - Peak intensity: 0.5 cd/lm
  - LEDS/each optic: 1
  - Light colour: White

- **LED NVSW319B:**
  - FWHM / FWTM: Asymmetric
  - Efficiency: 94%
  - Peak intensity: 0.5 cd/lm
  - LEDS/each optic: 1
  - Light colour: White

- **LED NVSW3x9A:**
  - FWHM / FWTM: Asymmetric
  - Efficiency: 94%
  - Peak intensity: 0.5 cd/lm
  - LEDS/each optic: 1
  - Light colour: White

- **LED NVSW519A:**
  - FWHM / FWTM: Asymmetric
  - Efficiency: 95%
  - Peak intensity: 0.4 cd/lm
  - LEDS/each optic: 1
  - Light colour: White
OPTICAL RESULTS (MEASURED):

**Nichia**

LED: NVSxx19B/NVSxx19C
FWHM / FWTM: Asymmetric
Efficiency: 94 %
Peak intensity: 0.6 cd/lm
LEDs/each optic: 1
Light colour: White
Required components:

**Osram**

LED: Duris S8
FWHM / FWTM: Asymmetric
Efficiency: 94 %
Peak intensity: 0.5 cd/lm
LEDs/each optic: 1
Light colour: White
Required components:

**Osram**

LED: OSLON Square PC
FWHM / FWTM: Asymmetric
Efficiency: 96 %
Peak intensity: 0.6 cd/lm
LEDs/each optic: 1
Light colour: White
Required components:

**Samsung**

LED: LH351Z
FWHM / FWTM: Asymmetric
Efficiency: 94 %
Peak intensity: 0.6 cd/lm
LEDs/each optic: 1
Light colour: White
Required components:
OPTICAL RESULTS (MEASURED):

LED: ROY-S26XPL2 (XP-L2)
- FWHM / FWTM: Asymmetric
- Efficiency: 94%
- Peak intensity: 0.4 cd/lm
- LEDs/each optic: 1
- Light colour: White

Required components:

LED: SMJQ-D36W12Mx
- FWHM / FWTM: Asymmetric
- Efficiency: 94%
- Peak intensity: 0.6 cd/lm
- LEDs/each optic: 1
- Light colour: White

Required components:

LED: SMJQ-D36W12Px
- FWHM / FWTM: Asymmetric
- Efficiency: 94%
- Peak intensity: 0.5 cd/lm
- LEDs/each optic: 1
- Light colour: White

Required components:

LED: Z5M3
- FWHM / FWTM: Asymmetric
- Efficiency: 94%
- Peak intensity: 0.5 cd/lm
- LEDs/each optic: 1
- Light colour: White

Required components:
OPTICAL RESULTS (MEASURED):

**LEDiL**

LED: Z8Y22  
FWHM / FWTM: Asymmetric  
Efficiency: 94%  
Peak intensity: 0.6 cd/lm  
LEDs/each optic: 1  
Light colour: White  
Required components:

**TOSHIBA**

LED: TL1L4  
FWHM / FWTM: Asymmetric  
Efficiency: 94%  
Peak intensity: 0.6 cd/lm  
LEDs/each optic: 1  
Light colour: White  
Required components:
OPTICAL RESULTS (SIMULATED):

**CREE LEDs**

**LED**
J Series 5050 Round LES

**FWHM / FWTM**
Asymmetric

**Efficiency**
94%

**Peak intensity**
0.4 cd/ lm

**LEDs/each optic**
1

**Light colour**
White

**Required components:**

**CREE LEDs**

**LED**
J Series 5050B 6V K Class

**FWHM / FWTM**
Asymmetric

**Efficiency**
98%

**Peak intensity**
0.4 cd/ lm

**LEDs/each optic**
1

**Light colour**
White

**Required components:**

**CREE LEDs**

**LED**
J Series 5050B 6V K Class

**FWHM / FWTM**
Asymmetric

**Efficiency**
82%

**Peak intensity**
0.4 cd/ lm

**LEDs/each optic**
1

**Light colour**
White

**Required components:**

**Protective plate, glass**

**CREE LEDs**

**LED**
XB-D

**FWHM / FWTM**
Asymmetric

**Efficiency**
%

**Peak intensity**
0.5 cd/ lm

**LEDs/each optic**
1

**Light colour**
White

**Required components:**

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## OPTICAL RESULTS (SIMULATED):

### LUMILEDS

**LED**
- **LUXEON 5050 Square LES**

**FWHM / FWTM**
- Asymmetric

**Efficiency**
- 94 %

**Peak intensity**
- 0.4 cd/ lm

**LEDs/each optic**
- 1

**Light colour**
- White

### LUMILEDS

**LED**
- **LUXEON H50-2**

**FWHM / FWTM**
- Asymmetric

**Efficiency**
- 90 %

**Peak intensity**
- 0.5 cd/ lm

**LEDs/each optic**
- 1

**Light colour**
- White

### LUMILEDS

**LED**
- **LUXEON TX**

**FWHM / FWTM**
- Asymmetric

**Efficiency**
- 89 %

**Peak intensity**
- 0.5 cd/ lm

**LEDs/each optic**
- 1

**Light colour**
- White

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OPTICAL RESULTS (SIMULATED):

**NICHIA**

- **LED**: NV4WB35AM
- **FWHM / FWTM**: Asymmetric
- **Efficiency**: 94 %
- **Peak intensity**: 0.4 cd/lm
- **LEDs/each optic**: 1
- **Light colour**: White

**Required components:**

**NICHIA**

- **LED**: NVsxE21A
- **FWHM / FWTM**: Asymmetric
- **Efficiency**: 93 %
- **Peak intensity**: 0.5 cd/lm
- **LEDs/each optic**: 4
- **Light colour**: White

**Required components:**

**NICHIA**

- **LED**: NVsxE21A
- **FWHM / FWTM**: Asymmetric
- **Efficiency**: 91 %
- **Peak intensity**: 0.6 cd/lm
- **LEDs/each optic**: 1
- **Light colour**: White

**Required components:**

**OSRAM**

- **LED**: PrevaLED Brick HP IP 2x6
- **FWHM / FWTM**: Asymmetric
- **Efficiency**: 93 %
- **Peak intensity**: 0.5 cd/lm
- **LEDs/each optic**: 1
- **Light colour**: White

**Required components:**
OPTICAL RESULTS (SIMULATED):

**OSRAM**

**LED**
OSCONIQ P 3737 (2W version)

**FWHM / FWTM**
Asymmetric

**Efficiency**
90 %

**Peak intensity**
0.5 cd/lm

**LEDs/each optic**
1

**Light colour**
White

**Required components:**

---

**OSRAM**

**LED**
OSCONIQ P 3737 (3W version)

**FWHM / FWTM**
Asymmetric

**Efficiency**
94 %

**Peak intensity**
0.4 cd/lm

**LEDs/each optic**
1

**Light colour**
White

**Required components:**

---

**OSRAM**

**LED**
OSCONIQ P 3737 (3W version)

**FWHM / FWTM**
Asymmetric

**Efficiency**
93 %

**Peak intensity**
0.5 cd/lm

**LEDs/each optic**
1

**Light colour**
White

**Required components:**

---

**OSRAM**

**LED**
OSLON Square CSSRM2/CSSRM3

**FWHM / FWTM**
Asymmetric

**Efficiency**
93 %

**Peak intensity**
0.5 cd/lm

**LEDs/each optic**
1

**Light colour**
White

**Required components:**
OPTICAL RESULTS (SIMULATED):

**OSRAM**

LED: OSLON Square CSSRM2/CSSRM3  
FWHM / FWTM: Asymmetric  
Efficiency: 93%  
Peak intensity: 0.5 cd/lm  
LEDs/each optic: 1  
Light colour: White  
Required components:

**SAMSUNG**

LED: LH181B  
FWHM / FWTM: Asymmetric  
Efficiency: 93%  
Peak intensity: 0.6 cd/lm  
LEDs/each optic: 1  
Light colour: White  
Required components:

**SAMSUNG**

LED: LH351B  
FWHM / FWTM: Asymmetric  
Efficiency: 93%  
Peak intensity: 0.5 cd/lm  
LEDs/each optic: 1  
Light colour: White  
Required components:

**SAMSUNG**

LED: LH351C  
FWHM / FWTM: Asymmetric  
Efficiency: 93%  
Peak intensity: 0.5 cd/lm  
LEDs/each optic: 1  
Light colour: White  
Required components:
OPTICAL RESULTS (SIMULATED):

**SAMSUNG**

LED | LH351D
FWHM / FWTM | Asymmetric
Efficiency | 92 %
Peak intensity | 0.4 cd/ lm
LEDs/each optic | 1
Light colour | White
Required components:

**SAMSUNG**

LED | LH502C
FWHM / FWTM | Asymmetric
Efficiency | 94 %
Peak intensity | 0.4 cd/ lm
LEDs/each optic | 1
Light colour | White
Required components:

**SAMSUNG**

LED | LH508B
FWHM / FWTM | Asymmetric
Efficiency | 94 %
Peak intensity | 0.4 cd/ lm
LEDs/each optic | 1
Light colour | White
Required components:

**SAMSUNG**

LED | 2x6 5050 module - SMJD-3625012F-XX
FWHM / FWTM | Asymmetric
Efficiency | 94 %
Peak intensity | 0.4 cd/ lm
LEDs/each optic | 1
Light colour | White
Required components:
OPTICAL RESULTS (SIMULATED):

- **LED**: SEOUL DC 5050 6V
  - **FWHM / FWTM**: Asymmetric
  - **Efficiency**: 94%
  - **Peak intensity**: 0.4 cd/lm
  - **LEDs/each optic**: 1
  - **Light colour**: White
  - **Required components:**

- **LED**: Z5M
  - **FWHM / FWTM**: Asymmetric
  - **Efficiency**: 89%
  - **Peak intensity**: 0.5 cd/lm
  - **LEDs/each optic**: 1
  - **Light colour**: White
  - **Required components:**

- **LED**: Z5M1/Z5M2
  - **FWHM / FWTM**: Asymmetric
  - **Efficiency**: 90%
  - **Peak intensity**: 0.6 cd/lm
  - **LEDs/each optic**: 1
  - **Light colour**: White
  - **Required components:**

- **LED**: Z5M4
  - **FWHM / FWTM**: Asymmetric
  - **Efficiency**: 98%
  - **Peak intensity**: 0.6 cd/lm
  - **LEDs/each optic**: 1
  - **Light colour**: White
  - **Required components:**

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OPTICAL RESULTS (SIMULATED):

**TOSHIBA**

- **LED**: TL1L2
- **FWHM / FWTM**: Asymmetric
- **Efficiency**: 88 %
- **Peak intensity**: 0.5 cd/lm
- **LEDs/each optic**: 1
- **Light colour**: White

Required components:

**TOSHIBA**

- **LED**: TL1L3
- **FWHM / FWTM**: Asymmetric
- **Efficiency**: 86 %
- **Peak intensity**: 0.3 cd/lm
- **LEDs/each optic**: 1
- **Light colour**: White

Required components:
GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

MATERIALS:

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