



LUXEON 3D LED

On the road with striking signature design for front and rear



LUXEON 3D LED helps you bring to life the versatile shapes of your 3D lighting design for all exterior signaling functions.

The excellent homogeneity of the light source in all viewing directions simplifies optical design.

The compact size fits into extremely small spaces and its mechanical flexibility allows never-seen-before geometries.

FEATURES AND BENEFITS

- Extremely compact form enables integration into previously inaccessible areas of the car body
- Light emission up to the very end of the light source allows smallest gap between luminaires
- Segmented animation provides a simple solution for dynamic lighting scenarios
- Easy handling and assembly due to integrated thermal, mechanical, and optical design
- Robust architecture allows minimal protection of the light source
- Soft materials help meet pedestrian-protection requirements

PRIMARY APPLICATIONS

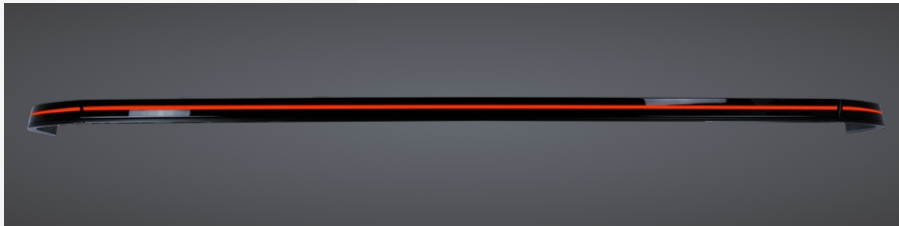
- Decorative car-body lighting
- Grille illumination
- Animated welcome-scenario lighting
- Position light, daytime running light (DRL)
- Front turn, rear turn
- Tail, stop, center high-mounted stop light (CHMSL)

LUXEON 3D LED hits the road

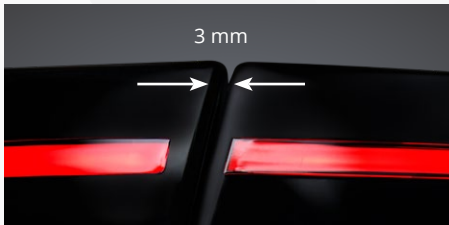
Easing customers' design integration

Hyundai Grandeur rear lamp

- 200 cm of light source
- 5 strips (1 in each body lamp, 3 in trunk lamp)
- Red-orange
- Both static and dynamic versions to offer base and up version of lamp



Elongated slimline design with homogeneous lit appearance from different angles: • Seamless connection of strips • Light source features perfect Lambertian emission



Minimum distance between luminaires: Light until end of light source



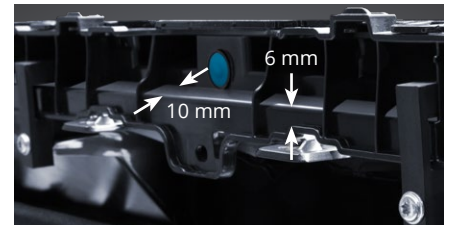
Light to the very end of the luminaire: Light source customizable to shape of luminaire

Audi Q8 e-tron grille illumination

- 78 cm of light source
- 2 strips of same length
- Cool white



Smooth, hidden surface illumination of grille area: Homogeneous light source allows perfect light mixing



Small build-in depth: Highly compact homogeneous light source

Product portfolio¹

| Color | Lum. flux | Illuminance | Homogeneity | Static version | | Dynamic version ² | |
|---------------------------------------|-----------|-------------|-------------|----------------|--------|------------------------------|--------|
| | | | | V_f | I | V_f | I |
| Cool White | 900 lm | 285 cd | > 92% | 9 V | 900 mA | 27 V | 300 mA |
| Cool White Lite ³ | 400 lm | 125 cd | > 92% | 9 V | 450 mA | 27 V | 150 mA |
| PC Cyan ³ | 475 lm | 150 cd | > 92% | 9 V | 900 mA | 27 V | 300 mA |
| Direct Cyan ³ (490-505 nm) | 500 lm | 155 cd | > 92% | 7.5 V | 900 mA | 22.5 V | 300 mA |
| PC Amber | 540 lm | 170 cd | > 92% | 9 V | 900 mA | 27 V | 300 mA |
| Red Orange (615 nm) | 320 lm | 100 cd | > 92% | 7.5 V | 900 mA | 22.5 V | 300 mA |
| Red (623 nm) | 265 lm | 85 cd | > 92% | 7.5 V | 900 mA | 22.5 V | 300 mA |
| Long Red (630 nm) | 225 lm | 70 cd | > 92% | 7.5 V | 900 mA | 22.5 V | 300 mA |
| Super Red (635 nm) | 155 lm | 59 cd | > 92% | 7.5 V | 900 mA | 22.5 V | 300 mA |

¹ Valid for 450 mm string. | ² For 5-segmented version. | ³ Under development. Optical performance specifications subject to change.

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