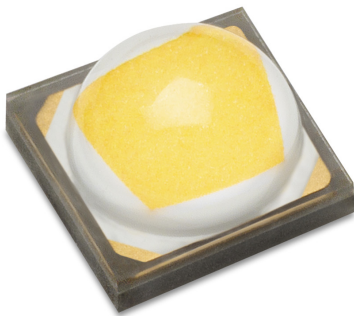




LUXEON HL2X

Higher performance, color stability, lumen maintenance, and longevity.



LUXEON HL2X is a high-power domed emitter designed specifically for outdoor and industrial applications like streetlights and high bay luminaires. The package is designed to deliver superior output, efficacy, color stability and longevity regardless of application or environment.

LUXEON HL2X utilizes an industry standard 3535 package with 3-stripe footprint. This compatibility allows for efficient and simpler conversion to the better performing LUXEON HL2X from any other similar platform.

FEATURES AND BENEFITS

Most usable light in application with a design emphasis on Beam Angle, Field Angle, Color Over Angle, and Optical Efficiency performance
CSP die technology enables high efficacy and high driving current capability in unique applications

Industry standard 3535 package with 3-stripe footprint and radiation pattern matched to LUXEON TX for ease of design

DLC R9 enabled to offer best-in-class color quality for luminaires

Offered in three different Luminous Flux Performance categories for customer flexibility in design and application

PRIMARY APPLICATIONS

High Mast

Floodlights

Spotlights

High Bay

Low Bay

Torch

[More...](#)

LUXEON HL2X product performance at 700mA, T_j=85°C.

| NOMINAL CCT | MINIMUM R9 ^[3] | MINIMUM CRI ^[1] | LUMINOUS FLUX ^[2] (lm) | | TYPICAL LUMINOUS EFFICACY (lm/W) | PART NUMBER |
|-------------|---------------------------|----------------------------|-----------------------------------|---------|----------------------------------|--------------------|
| | | | MINIMUM | TYPICAL | | |
| | | | 700mA | | | |
| 2200K | -40 | 70 | 270 | 300 | 153 | L1HX-22702E0000000 |
| 2700K | -40 | 70 | 300 | 332 | 169 | L1HX-27702E0000000 |
| 3000K | -40 | 70 | 320 | 345 | 176 | L1HX-30702E0000000 |
| 3500K | -40 | 70 | 320 | 352 | 180 | L1HX-35702E0000000 |
| 4000K | -40 | 70 | 340 | 362 | 185 | L1HX-40702E0000000 |
| 5000K | -40 | 70 | 335 | 365 | 186 | L1HX-50702E0000000 |
| 5700K | -40 | 70 | 335 | 365 | 186 | L1HX-57702E0000000 |
| 6500K | -40 | 70 | 335 | 372 | 190 | L1HX-65702E0000000 |
| 2700K | -40 | 70 | 290 | 311 | 159 | L1HX-27702D0000000 |
| 3000K | -40 | 70 | 310 | 325 | 166 | L1HX-30702D0000000 |
| 3500K | -40 | 70 | 310 | 330 | 168 | L1HX-35702D0000000 |
| 4000K | -40 | 70 | 320 | 343 | 175 | L1HX-40702D0000000 |
| 5000K | -40 | 70 | 310 | 337 | 172 | L1HX-50702D0000000 |
| 5700K | -40 | 70 | 320 | 343 | 175 | L1HX-57702D0000000 |
| 6500K | -40 | 70 | 310 | 343 | 175 | L1HX-65702D0000000 |
| 3000K | -40 | 70 | 320 | n/a | n/a | L1HX-30702D0000320 |
| 4000K | -40 | 70 | 340 | n/a | n/a | L1HX-40702D0000340 |
| 5700K | -40 | 70 | 340 | n/a | n/a | L1HX-57702D0000340 |
| 6500K | -40 | 70 | 340 | n/a | n/a | L1HX-65702D0000340 |
| 3000K | -40 | 70 | 300 | 318 | 162 | L1HX-30702P0000000 |
| 4000K | -40 | 70 | 320 | 338 | 173 | L1HX-40702P0000000 |
| 5700K | -40 | 70 | 310 | 330 | 168 | L1HX-57702P0000000 |
| 6500K | -40 | 70 | 310 | 330 | 168 | L1HX-65702P0000000 |
| 2700K | -40 | 70 | 280 | 300 | 153 | L1HX-2770200000000 |
| 3000K | -40 | 70 | 300 | 313 | 160 | L1HX-3070200000000 |
| 3500K | -40 | 70 | 310 | 322 | 164 | L1HX-3570200000000 |
| 4000K | -40 | 70 | 310 | 330 | 168 | L1HX-4070200000000 |
| 5000K | -40 | 70 | 310 | 330 | 168 | L1HX-5070200000000 |
| 5700K | -40 | 70 | 310 | 330 | 168 | L1HX-5770200000000 |
| 6500K | -40 | 70 | 310 | 330 | 168 | L1HX-6570200000000 |
| 2200K | 0 | 80 | 226 | 247 | 126 | L1HX-22802E0000000 |
| 2700K | 0 | 80 | 264 | 285 | 145 | L1HX-27802E0000000 |
| 3000K | 0 | 80 | 280 | 309 | 158 | L1HX-30802E0000000 |
| 4000K | 0 | 80 | 300 | 328 | 167 | L1HX-40802E0000000 |
| 5000K | 0 | 80 | 300 | 334 | 170 | L1HX-50802E0000000 |
| 5700K | 0 | 80 | 310 | 339 | 173 | L1HX-57802E0000000 |
| 1800K | 0 | 80 | 180 | 190 | 97 | L1HX-18802D0000000 |
| 3000K | 0 | 80 | 270 | 290 | 148 | L1HX-30802D0000000 |
| 4000K | 0 | 80 | 290 | 311 | 159 | L1HX-40802D0000000 |
| 5000K | 0 | 80 | 290 | 320 | 163 | L1HX-50802D0000000 |
| 5700K | 0 | 80 | 300 | 320 | 163 | L1HX-57802D0000000 |

Table continued on next page:

1. Lumileds maintains a tolerance of ±2 on CRI.
2. Lumileds maintains a tester tolerance of ±6.5% on luminous flux measurements.
3. Lumileds maintains a tester tolerance of ±6.5 on R9 measurements.

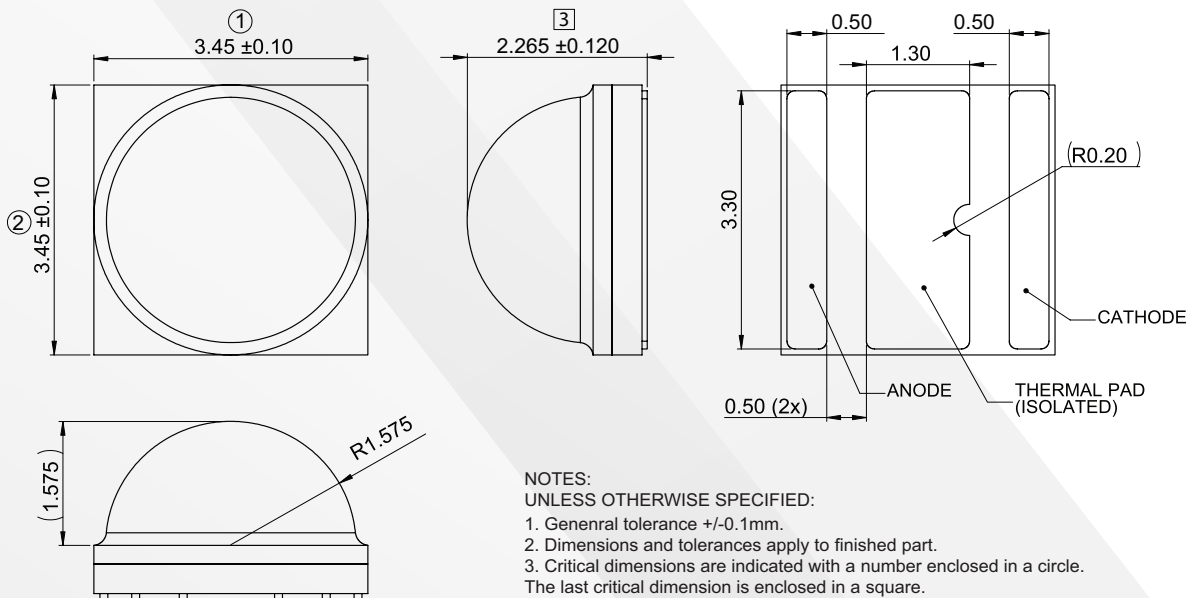
LUXEON HL2X product performance at 700mA, T_j=85°C, Continued.

| NOMINAL CCT | MINIMUM R9 ^[3] | MINIMUM CRI ^[1] | LUMINOUS FLUX ^[2] (lm) | | TYPICAL LUMINOUS EFFICACY (lm/W) | PART NUMBER |
|-------------|---------------------------|----------------------------|-----------------------------------|---------|----------------------------------|--------------------|
| | | | MINIMUM | TYPICAL | | |
| | | | 700mA | | | |
| 4000K | θ | 80 | 290 | 340 | 158 | L1HX-40802P0000000 |
| 3000K | θ | 80 | 260 | 280 | 143 | L1HX-3080200000000 |
| 4000K | θ | 80 | 290 | 305 | 156 | L1HX-4080200000000 |
| 5000K | θ | 80 | 290 | 305 | 156 | L1HX-5080200000000 |
| 5700K | θ | 80 | 290 | 305 | 156 | L1HX-5780200000000 |
| 2700K | 50 | 90 | 210 | 243 | 124 | L1HX-27902E0000000 |
| 3000K | 50 | 90 | 230 | 259 | 132 | L1HX-30902E0000000 |
| 3500K | 50 | 90 | 240 | 267 | 136 | L1HX-35902E0000000 |
| 4000K | 50 | 90 | 250 | 278 | 142 | L1HX-40902E0000000 |
| 5000K | 50 | 90 | 267 | 294 | 150 | L1HX-50902E0000000 |
| 5700K | 50 | 90 | 270 | 296 | 151 | L1HX-57902E0000000 |
| 3000K | 50 | 90 | 220 | 242 | 123 | L1HX-30902D0000000 |
| 4000K | 50 | 90 | 240 | 256 | 131 | L1HX-40902D0000000 |
| 5700K | 50 | 90 | 250 | 272 | 139 | L1HX-57902D0000000 |
| 3000K | 50 | 90 | 210 | 225 | 115 | L1HX-3090200000000 |
| 4000K | 50 | 90 | 240 | 255 | 130 | L1HX-4090200000000 |
| 5700K | 50 | 90 | 240 | 260 | 133 | L1HX-5790200000000 |

Notes:

1. Lumileds maintains a tolerance of ±2 on CRI.
2. Lumileds maintains a tester tolerance of ±6.5% on luminous flux measurements.
3. Lumileds maintains a tester tolerance of ±6.5 on R9 measurements.

Mechanical Dimensions.



- NOTES:
UNLESS OTHERWISE SPECIFIED:
1. General tolerance +/-0.1mm.
 2. Dimensions and tolerances apply to finished part.
 3. Critical dimensions are indicated with a number enclosed in a circle. The last critical dimension is enclosed in a square.

Notes:

1. Drawings are not to scale.
2. All dimensions are in millimeters.
3. Do not handle the device by the dome. Excessive force on the dome may damage the dome itself or the interior of the device.

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