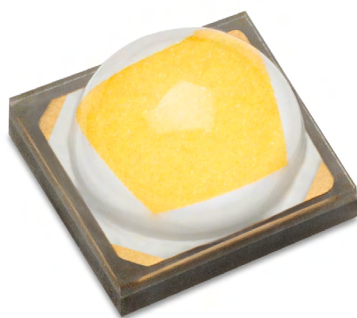




# LUXEON HL2X

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

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LUXEON HL2X product performance at 700mA, T<sub>j</sub>=85°C.

NOMINAL CCT	MINIMUM R9 <sup>[3]</sup>	MINIMUM CRI <sup>[1]</sup>	LUMINOUS FLUX <sup>[2]</sup> (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	PART NUMBER
			MINIMUM	TYPICAL		
			700mA			
2700K	-40	70	300	320	163	L1HX-27702D00000000
3000K	-40	70	310	329	168	L1HX-30702D00000000
3500K	-40	70	310	335	171	L1HX-35702D00000000
4000K	-40	70	320	343	175	L1HX-40702D00000000
5000K	-40	70	320	343	175	L1HX-50702D00000000
5700K	-40	70	320	343	175	L1HX-57702D00000000
6500K	-40	70	320	343	175	L1HX-65702D00000000
3000	-40	70	320	n/a	n/a	L1HX-30702D0000310
4000	-40	70	340	n/a	n/a	L1HX-40702D0000340
5700	-40	70	340	n/a	n/a	L1HX-57702D0000340
6500	-40	70	340	n/a	n/a	L1HX-65702D0000340
2700K	-40	70	280	308	157	L1HX-27702P00000000
3000K	-40	70	300	321	164	L1HX-30702P00000000
3500K	-40	70	310	330	168	L1HX-35702P00000000
4000K	-40	70	310	338	173	L1HX-40702P00000000
5000K	-40	70	310	338	173	L1HX-50702P00000000
5700K	-40	70	310	338	173	L1HX-57702P00000000
6500K	-40	70	310	338	173	L1HX-65702P00000000
2700K	-40	70	290	310	156	L1HX-27702000000000
3000K	-40	70	300	318	161	L1HX-30702000000000
3500K	-40	70	300	325	164	L1HX-35702000000000
4000K	-40	70	310	333	168	L1HX-40702000000000
5000K	-40	70	310	333	168	L1HX-50702000000000
5700K	-40	70	310	333	168	L1HX-57702000000000
6500K	-40	70	310	333	168	L1HX-65702000000000
1800K	0	80	180	200	102	L1HX-18802D00000000
3000K	0	80	270	290	148	L1HX-30802D00000000
4000K	0	80	290	317	162	L1HX-40802D00000000
5000K	0	80	300	320	163	L1HX-50802D00000000
5700K	0	80	300	320	163	L1HX-57802D00000000
3000K	0	80	250	287	146	L1HX-30802P00000000
4000K	0	80	290	313	160	L1HX-40802P00000000
5000K	0	80	290	313	160	L1HX-50802P00000000
5700K	0	80	290	313	160	L1HX-57802P00000000
2700K	0	80	250	270	136	L1HX-27802000000000
3000K	0	80	260	280	141	L1HX-30802000000000
3500K	0	80	270	290	146	L1HX-35802000000000
4000K	0	80	290	307	155	L1HX-40802000000000
5000K	0	80	290	310	156	L1HX-50802000000000
5700K	0	80	290	310	156	L1HX-57802000000000

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.

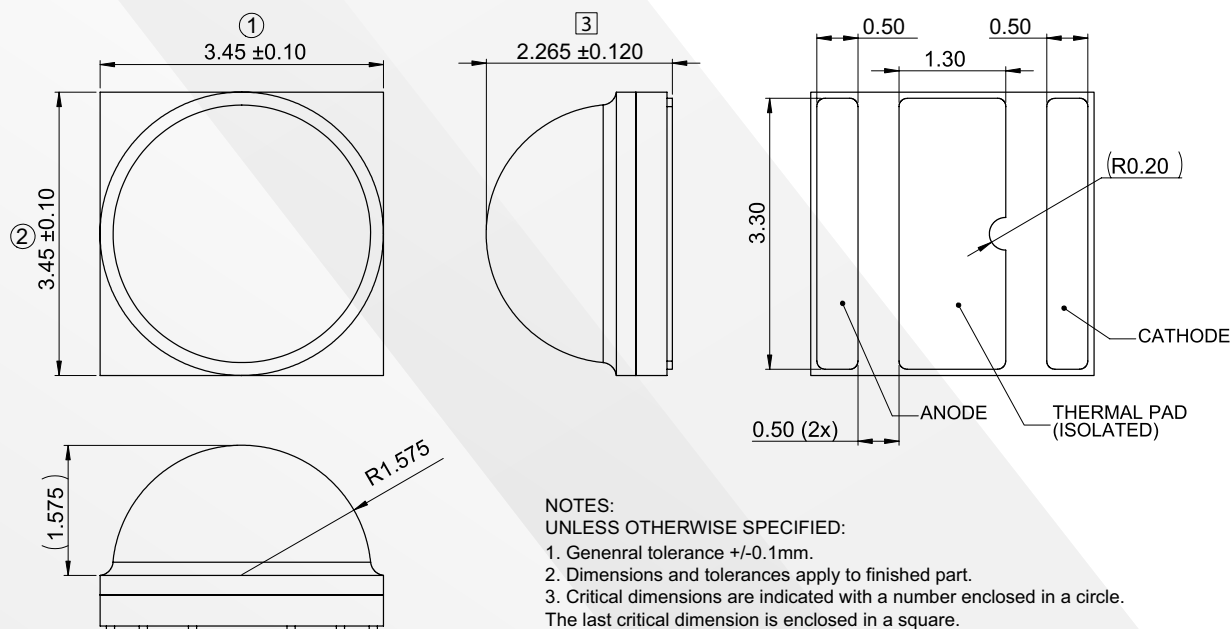
LUXEON HL2X product performance at 700mA, T<sub>j</sub>=85°C, Continued.

NOMINAL CCT	MINIMUM R9 <sup>[3]</sup>	MINIMUM CRI <sup>[1]</sup>	LUMINOUS FLUX <sup>[2]</sup> (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	PART NUMBER
			MINIMUM	TYPICAL		
			700mA			
3000K	50	90	220	242	123	L1HX-30902D00000000
4000K	50	90	250	265	135	L1HX-40902D00000000
5700K	50	90	250	272	139	L1HX-57902D00000000
3000K	50	90	210	231	118	L1HX-30902P00000000
4000K	50	90	240	261	133	L1HX-40902P00000000
5700K	50	90	245	267	136	L1HX-57902P00000000
2700K	50	90	200	220	111	L1HX-27902000000000
3000K	50	90	220	233	118	L1HX-30902000000000
3500K	50	90	220	240	121	L1HX-35902000000000
4000K	50	90	240	257	130	L1HX-40902000000000
5000K	50	90	240	257	130	L1HX-50902000000000
5700K	50	90	240	264	133	L1HX-57902000000000

Notes:

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

Mechanical Dimensions.



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.