











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 MINIMUM CCT R9 [3]			LUMINOUS FLUX ^[2] (lm)		TYPICAL LUMINOUS	
			MINIMUM	TYPICAL	EFFICACY (lm/W)	PART NUMBER
				700mA		
2700K	-40	70	300	320	163	L1HX-27702D0000000
3000K	-40	70	310	329	168	L1HX-30702D0000000
3500K	-40	70	310	335	171	L1HX-35702D0000000
4000K	-40	70	320	343	175	L1HX-40702D0000000
5000K	-40	70	320	343	175	L1HX-50702D0000000
5700K	-40	70	320	343	175	L1HX-57702D0000000
6500K	-40	70	320	343	175	L1HX-65702D0000000
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-27702P0000000
3000K	-40	70	300	321	164	L1HX-30702P0000000
3500K	-40	70	310	330	168	L1HX-35702P0000000
4000K	-40	70	310	338	173	L1HX-40702P0000000
5000K	-40	70	310	338	173	L1HX-50702P0000000
5700K	-40	70	310	338	173	L1HX-57702P0000000
6500K	-40	70	310	338	173	L1HX-65702P0000000
2700K	-40	70	290	310	156	L1HX-2770200000000
3000K	-40	70	300	318	161	L1HX-3070200000000
3500K	-40	70	300	325	164	L1HX-3570200000000
4000K	-40	70	310	333	168	L1HX-4070200000000
5000K	-40	70	310	333	168	L1HX-5070200000000
5700K	-40	70	310	333	168	L1HX-5770200000000
6500K	-40	70	310	333	168	L1HX-6570200000000
1800K	0	80	180	200	102	L1HX-18802D0000000
3000K	0	80	270	290	148	L1HX-30802D0000000
4000K	0	80	290	317	162	L1HX-40802D0000000
5000K	0	80	300	320	163	L1HX-50802D0000000
5700K	0	80	300	320	163	L1HX-57802D0000000
3000K	0	80	250	287	146	L1HX-30802P0000000
4000K	0	80	290	313	160	L1HX-40802P0000000
5000K	0	80	290	313	160	L1HX-50802P0000000
5700K	0	80	290	313	160	L1HX-57802P0000000
2700K	0	80	250	270	136	L1HX-2780200000000
3000K	0	80	260	280	141	L1HX-3080200000000
3500K	0	80	270	290	146	L1HX-3580200000000
4000K	0	80	290	307	155	L1HX-4080200000000
5000K	0	80	290	310	156	L1HX-5080200000000
5700K	0	80	290	310	156	L1HX-5780200000000

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.

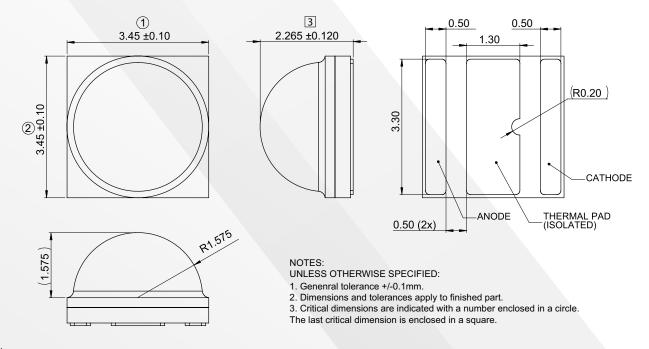
3. Lumileds maintains a tester tolerance of ±6.5 on R9 measurements.

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

			LUMINOUS FLUX [2] (lm)		TYPICAL	
NOMINAL CCT	MINIMUM R9 ^[3]	MINIMUM CRI ^[1]	MINIMUM	TYPICAL	LUMINOUS EFFICACY (lm/W)	PART NUMBER
				700mA		
3000K	50	90	220	242	123	L1HX-30902D0000000
4000K	50	90	250	265	135	L1HX-40902D0000000
5700K	50	90	250	272	139	L1HX-57902D0000000
3000K	50	90	210	231	118	L1HX-30902P0000000
4000K	50	90	240	261	133	L1HX-40902P0000000
5700K	50	90	245	267	136	L1HX-57902P0000000
2700K	50	90	200	220	111	L1HX-2790200000000
3000K	50	90	220	233	118	L1HX-3090200000000
3500K	50	90	220	240	121	L1HX-3590200000000
4000K	50	90	240	257	130	L1HX-4090200000000
5000K	50	90	240	257	130	L1HX-5090200000000
5700K	50	90	240	264	133	L1HX-5790200000000

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

Mechanical Dimensions.



- Drawings are not to scale.
- 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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