

Kingbright



Optoelectronic Components

2025-2027

Through-Hole LED

Kingbright through-hole LEDs are available with a variety of sizes, shapes, viewing angles, color combinations, lens types and brightness. Our extensive selection fulfills virtually any need in through-hole LED applications.



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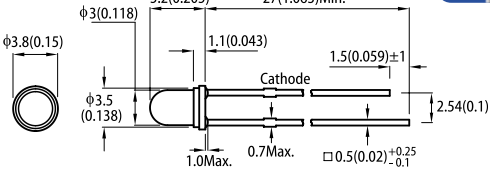

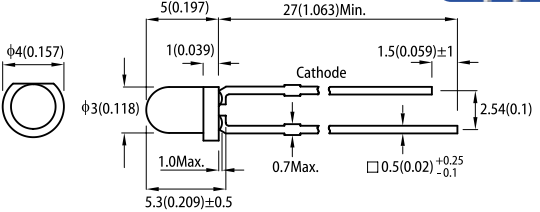

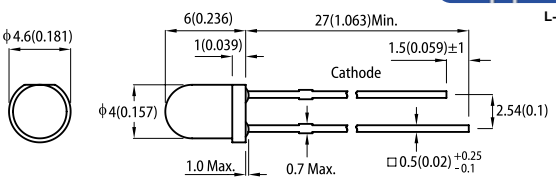

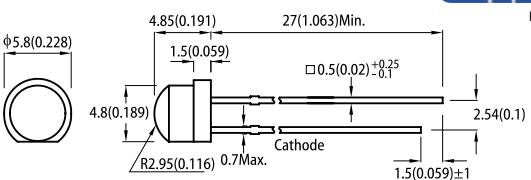
ROUND LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
L-908A8SURDK	AlGaInP	630	red diffused	120	200	60°	<p>T-1 (3mm) Round</p> <p>L-908A8</p>
L-908A8CGDK	AlGaInP	570	green diffused	60	120	60°	
L-1154SURDK	AlGaInP	630	red diffused	120	200	60°	<p>T-1 (3mm) Round</p> <p>L-1154</p>
L-1154CGDK	AlGaInP	570	green diffused	80	120	60°	
L-7104SRD-J4	AlGaInP	640	red diffused	500	1000	50°	<p>T-1 (3mm) Round</p> <p>L-7104</p>
L-7104SRC-J4	AlGaInP	640	water clear	1400	2500	30°	
L-7104SURDK	AlGaInP	630	red diffused	200	400	50°	
L-7104SURCK	AlGaInP	630	water clear	400	900	30°	
L-7104SURC-E	AlGaInP	630	water clear	500	1100	30°	
L-7104SECK-J3	AlGaInP	625	water clear	2300	3600	30°	
L-7104SECK	AlGaInP	605	water clear	700	1400	30°	
L-7104SECK-J4	AlGaInP	605	water clear	3600	6000	30°	
L-7104SYD	AlGaInP	590	yellow diffused	480	900	50°	
L-7104SYDK	AlGaInP	590	yellow diffused	400	800	50°	
L-7104SYCK	AlGaInP	590	water clear	700	1500	30°	
L-7104SYCK-J3	AlGaInP	590	water clear	1900	3000	30°	
L-7104CGDK	AlGaInP	570	green diffused	80	250	50°	
L-7104CGCK	AlGaInP	570	water clear	300	600	30°	
L-7104ZGCK	InGaIn	525	water clear	8000	14000	30°	
L-7104ZGC-G	InGaIn	525	water clear	10500	16500	30°	
L-7104VBC-D	InGaIn	470	water clear	3600	5000	30°	
L-7104QBC-D	InGaIn	465	water clear	1300	2300	30°	

NOTES:

- All dimensions are in millimeters(inches).
- Tolerance is $\pm 0.25\text{mm}(0.01")$ unless otherwise noted.
- Luminous intensity value is traceable to CIE127-2007 standards.


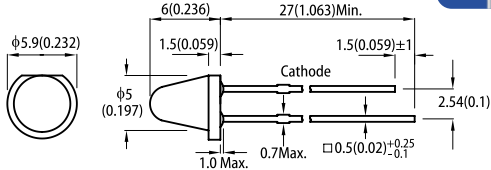

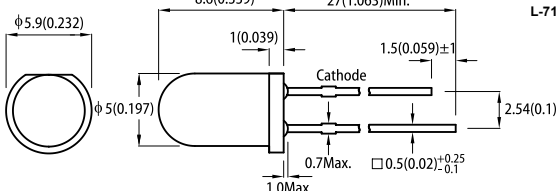

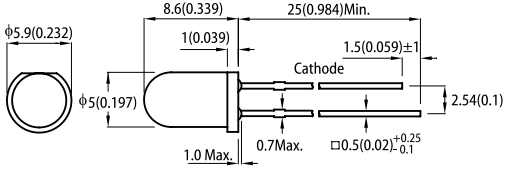

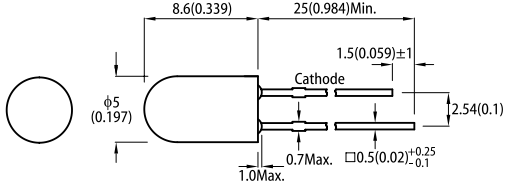
ROUND LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA *10mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
L-132XSURDK	AlGaInP	630	red diffused	180	360	60°	T-1 (3mm) Round  
L-132XSURTK	AlGaInP	630	red transparent	230	430	50°	
L-132XSYDK	AlGaInP	590	yellow diffused	300	600	60°	
L-132XYT	GaAsP/GaP	588	yellow transparent	*10	*20	50°	
L-132XCGDK	AlGaInP	570	green diffused	60	140	60°	
L-34SURDK	AlGaInP	630	red diffused	100	250	60°	T-1 (3mm) Round  
L-34SYDK	AlGaInP	590	yellow diffused	300	500	60°	
L-34CGDK	AlGaInP	570	green diffused	80	150	60°	
L-34CGCK	AlGaInP	570	water clear	150	400	50°	
L-34ZGC	InGaN	525	water clear	4200	6500	30°	
L-34QBC-D	InGaN	465	water clear	800	1500	30°	
L-43ID	GaAsP/GaP	617	red diffused	*4	*10	80°	4mm Round  
L-43YD	GaAsP/GaP	588	yellow diffused	*5	*10	80°	
L-43GD	GaP	568	green diffused	*8	*16	80°	
L-9294SURCK	AlGaInP	630	water clear	100	180	70°	5mm Round  
L-9294VBC-D	InGaN	470	water clear	500	1100	70°	

NOTES:

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3. Luminous intensity value is traceable to CIE127-2007 standards.


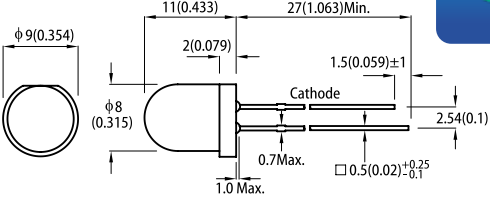

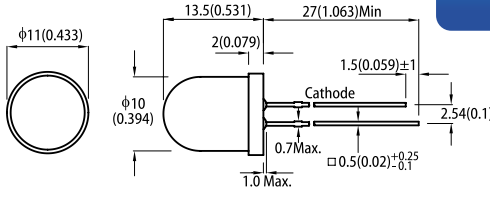
ROUND LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA *10mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
L-63ID	GaAsP/GaP	617	red diffused	*8	*12	60°	T-1 3/4 (5mm) Round  
L-63IT	GaAsP/GaP	617	red transparent	*10	*30	30°	
L-63GD	GaP	568	green diffused	*8	*16	60°	
L-7113SRD-J4	AlGaInP	640	red diffused	550	900	30°	T-1 3/4 (5mm) Round  
L-7113SRC-J4	AlGaInP	640	water clear	2300	3700	20°	
L-7113SURDK	AlGaInP	630	red diffused	400	750	30°	
L-7113SURCK	AlGaInP	630	water clear	1000	1900	20°	
L-7113SEC-J3	AlGaInP	625	water clear	5300	9000	20°	
L-7113SECK	AlGaInP	605	water clear	1300	2100	20°	
L-7113SYDK	AlGaInP	590	yellow diffused	500	1000	30°	
L-7113SYCK	AlGaInP	590	water clear	1800	3000	20°	
L-7113SYCK-J3	AlGaInP	590	water clear	5000	7800	20°	
L-7113SYC-J3	AlGaInP	590	water clear	5100	8000	20°	
L-7113CGDK	AlGaInP	570	green diffused	50	140	30°	
L-7113CGCK	AlGaInP	570	water clear	700	1400	20°	
L-7113ZGCK	InGaIn	525	water clear	14000	26000	20°	
L-7113ZGC	InGaIn	525	water clear	15000	27000	20°	
L-7113ZGC-G	InGaIn	525	water clear	18000	30000	20°	
L-7113VBC-D	InGaIn	470	water clear	4300	7000	20°	
L-7113QBC-D	InGaIn	465	water clear	3100	4500	20°	
L-7143SURCK	AlGaInP	630	water clear	650	1000	30°	T-1 3/4 (5mm) Round  
L-7143VBC-D	InGaIn	470	water clear	1900	3100	30°	
L-7143QBC-D	InGaIn	465	water clear	1600	2700	30°	
L-1503SRC-J4	AlGaInP	640	water clear	3100	5200	20°	T-1 3/4 (5mm) Round  
L-1503SURDK	AlGaInP	630	red diffused	600	1000	30°	
L-1503ID	GaAsP/GaP	617	red diffused	*30	*70	30°	
L-1503YD	GaAsP/GaP	588	yellow diffused	*15	*30	30°	
L-1503CGDK	AlGaInP	570	green diffused	100	200	30°	
L-1503GD	GaP	568	green diffused	*15	*30	30°	


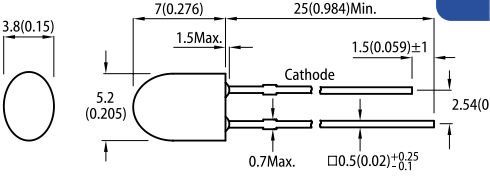
NOTES:

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- Luminous intensity value is traceable to CIE127-2007 standards.


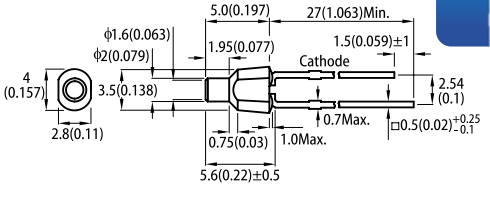
ROUND LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
L-793SRD-J4	AlGaInP	640	red diffused	900	1400	30°	8mm Round  
L-793ID	GaAsP/GaP	617	red diffused	30	60	30°	
L-793GD	GaP	568	green diffused	30	60	30°	
L-813SRD-J4	AlGaInP	640	red diffused	400	800	30°	10mm Round  
L-813SRC-J4	AlGaInP	640	water clear	3600	7500	15°	
L-813SURDK	AlGaInP	630	red diffused	300	650	30°	
L-813YD	GaAsP/GaP	588	yellow diffused	18	50	30°	
L-813CGDK	AlGaInP	570	green diffused	55	100	30°	

OVAL LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
L-5603SURCK	AlGaInP	630	water clear	400	800	70°(H) 30°(V)	5.2mm Oval  
L-5603SIDL/SD-J3	AlGaInP	625	red semi diffused	800	1400	80°(H) 40°(V)	
L-5603SYCK	AlGaInP	590	water clear	1000	1600	70°(H) 30°(V)	
L-5603ZGT	InGaN	525	green transparent	4200	7000	50°(H) 30°(V)	
L-5603QBC-D	InGaN	465	water clear	700	1400	50°(H) 30°(V)	

FLAT TOP LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @10mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
L-1034IDT	GaAsP/GaP	617	red diffused	2	4	140°	2mm Flat Top  
L-1034GDT	GaP	568	green diffused	2	5	140°	

NOTES:

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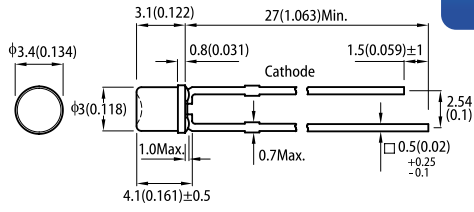

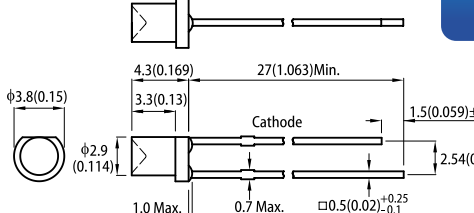

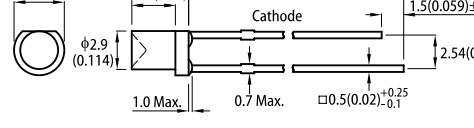
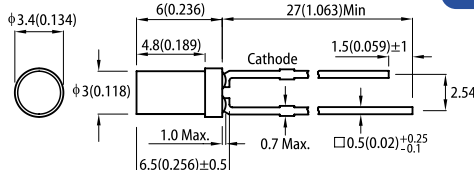

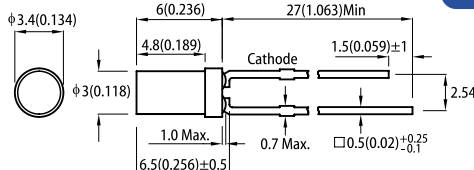
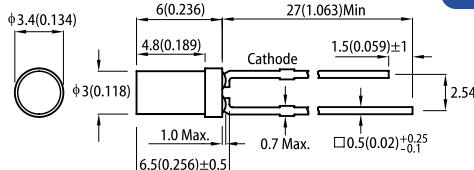
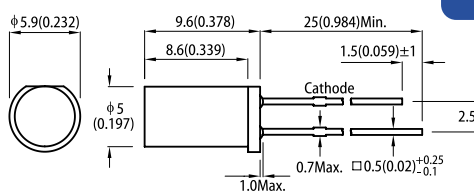

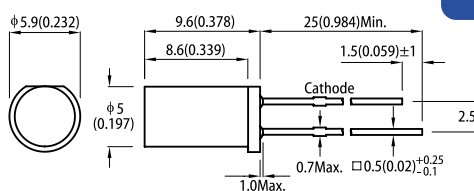
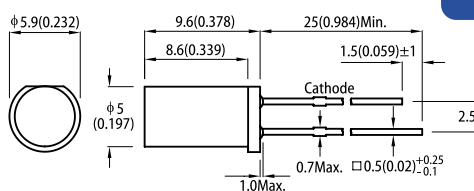
RECTANGULAR LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @10mA *20mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
L-144SURDTK	AlGaInP	630	red diffused	*25	*50	140°	1.9mm x 3.9mm Rectangular
L-144GDT	GaP	568	green diffused	2	6	140°	
L-914SURDTK	AlGaInP	630	red diffused	*25	*60	140°	2mm x 3mm Rectangular
L-914GDT	GaP	568	green diffused	3	6	140°	
L-169XID	GaAsP/GaP	617	red diffused	8	14	60°	2mm x 3mm Rectangular
L-113SURDTK	AlGaInP	630	red diffused	*25	*50	140°	
L-113SYDTK	AlGaInP	590	yellow diffused	*70	*120	140°	2mm x 5mm Rectangular
L-113CGDTK	AlGaInP	570	green diffused	*10	*30	140°	
L-1553IDT	GaAsP/GaP	617	red diffused	2	5	140°	5mm x 5mm Square
L-1553SYDTK	AlGaInP	590	yellow diffused	*80	*180	140°	
L-1553YDT	GaAsP/GaP	588	yellow diffused	1.5	5	140°	
L-1553GDT	GaP	568	green diffused	3	6	140°	

NOTES:

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- Luminous intensity value is traceable to CIE127-2007 standards.

CYLINDRICAL LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @10mA *20mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
L-1334SURDK	AlGaInP	630	red diffused	*30	*70	130°	T-1 (3mm) Cylindrical  
L-47XEC	GaAsP/GaP	617	water clear	4	8	100°	T-1 (3mm) Cylindrical  
L-47XYT	GaAsP/GaP	588	yellow transparent	2	4	100°	T-1 (3mm) Cylindrical 
L-424SURDTK	AlGaInP	630	red diffused	*40	*80	140°	T-1 (3mm) Cylindrical  
L-424SYDTK	AlGaInP	590	yellow diffused	*55	*120	140°	T-1 (3mm) Cylindrical 
L-424CGDTK	AlGaInP	570	green diffused	*15	*30	140°	T-1 (3mm) Cylindrical 
L-483SURDTK	AlGaInP	630	red diffused	*30	*70	140°	T-1 3/4 (5mm) Cylindrical  
L-483YDT	GaAsP/GaP	588	yellow diffused	1.2	3	140°	T-1 3/4 (5mm) Cylindrical 
L-483GDT	GaP	568	green diffused	1.2	3	140°	T-1 3/4 (5mm) Cylindrical 

NOTES:

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3. Luminous intensity value is traceable to CIE127-2007 standards.

MULTI-COLOR LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 θ 1/2	Dimensions	
				Min.	Typ.			
L-937SURKCGKW	AlGaInP	630	white diffused	55	110	60°	<p>T-1 (3mm) Round</p>	
	AlGaInP	570		40	80			
L-937IID	GaAsP/GaP	617	red diffused	2	4	60°		
	GaAsP/GaP	617		2	4			
L-937EGW	GaAsP/GaP	617	white diffused	4	10	60°		
	GaP	568		6	14			
L-937YYD	GaAsP/GaP	588	yellow diffused	3	9	60°		
	GaAsP/GaP	588		3	9			
L-937CGKSYKW	AlGaInP	570	white diffused	40	80	60°		
	AlGaInP	590		80	230			
L-937GYW	GaP	568	white diffused	6	14	60°		
	GaAsP/GaP	588		4	8			
L-937GGD	GaP	568	green diffused	4	10	60°		
	GaP	568		4	10			
L-93WSURKCGKC	AlGaInP	630	water clear	350	800	30°	<p>T-1 (3mm) Round</p>	
	AlGaInP	570		300	500			
L-115VEYW	GaAsP/GaP	617	white diffused	8	20	60°		
	GaAsP/GaP	588		10	24			
L-115VEGW	GaAsP/GaP	617	white diffused	8	20	60°		
	GaP	568		10	30			
L-115VGYW	GaP	568	white diffused	10	30	60°		
	GaAsP/GaP	588		10	24			
L-3VSURKCGKW	AlGaInP	630	white diffused	120	250	60°		<p>T-1 (3mm) Round</p>
	AlGaInP	570		40	100			
L-3VSURKCGKC	AlGaInP	630	water clear	100	400	30°		
	AlGaInP	570		200	400			
L-3VCGKSYKW	AlGaInP	570	white diffused	55	100	60°		
	AlGaInP	590		120	250			

NOTES:

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MULTI-COLOR LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle	Dimensions
				Min.	Typ.		
L-3WSURKCGKW	AlGaInP	630	white diffused	80	160	60°	T-1 (3mm) Round
	AlGaInP	570		60	160		
L-3WCGKSYKW	AlGaInP	570	white diffused	40	120	60°	
	AlGaInP	590		120	300		
L-57SURKCGKW	AlGaInP	630	white diffused	120	330	30°	T-1 3/4 (5mm) Round
	AlGaInP	570		60	120		
L-57SURKSGW	AlGaInP	630	white diffused	120	330	30°	
	GaP	568		12	30		
L-57CGKSYKW	AlGaInP	570	white diffused	60	120	30°	
	AlGaInP	590		80	180		
L-59SURKCGKW	AlGaInP	630	white diffused	200	400	30°	T-1 3/4 (5mm) Round
	AlGaInP	570		80	180		
L-59SURKCGKW-CA	AlGaInP	630	white diffused	18	40	60°	
	AlGaInP	570		8	20		
L-59SURKCGKC	AlGaInP	630	water clear	700	1500	20°	
	AlGaInP	570		450	900		
L-59SURKSGW	AlGaInP	630	white diffused	200	400	30°	
	GaP	568		20	60		
L-59SURKSGC	AlGaInP	630	water clear	700	1500	20°	
	GaP	568		50	120		
L-154A4SURKQBDCGKW	AlGaInP	630	white diffused	120	270	60°	T-1 3/4 (5mm) Full color
	InGaN	465		120	300		
	AlGaInP	570		80	150		
L-154A4SUREQBFZGC	AlGaInP	630	water clear	200	400	50°	
	InGaN	465		400	900		
	InGaN	525		1900	3600		
L-154A4SURKQBZDZGW	AlGaInP	630	white diffused	120	270	60°	
	InGaN	465		120	300		
	InGaN	525		1000	2000		
L-154A4SUREQBFZGEW	AlGaInP	630	white diffused	200	430	60°	
	InGaN	465		300	500		
	InGaN	525		1900	3300		

NOTES:

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MULTI-COLOR LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
L-119SURKCGKWT	AlGaInP	630	white diffused	30	55	140°	2mm x 5mm Rectangular
	AlGaInP	570		15	30		
L-119EGWT	GaAsP/GaP	617	white diffused	4	10	140°	
	GaP	568		3	9		

RESISTOR LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) V=5V *V=12V		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
L-7104ID-5V	GaAsP/GaP	617	red diffused	12	30	50°	T-1 (3mm) Round
L-7104GD-12V	GaP	568	green diffused	6*	*15	50°	
L-7113ID-5V	GaAsP/GaP	617	red diffused	12	25	30°	T-1 3/4 (5mm) Round
L-7113GD-12V	GaP	568	green diffused	*8	*20	30°	

LOW CURRENT LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @2mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
L-7104LSURDK	AlGaInP	630	red diffused	10	20	50°	T-1 (3mm) Round
L-7104LSYDK	AlGaInP	590	yellow diffused	25	50	50°	
L-7104LCGDK	AlGaInP	570	green diffused	4	8	50°	
L-7113LSURDK	AlGaInP	630	red diffused	40	70	30°	T-1 3/4 (5mm) Round
L-7113LVSECK-J3	AlGaInP	625	water clear	400	1000	20°	
L-7113LSYDK	AlGaInP	590	yellow diffused	20	70	30°	
L-7113LVSYCK-J3	AlGaInP	590	water clear	320	800	20°	
L-7113LCGDK	AlGaInP	570	green diffused	6	12	30°	
L-7113LVZGCK	InGaN	525	water clear	2200	4300	20°	

NOTES:

- All dimensions are in millimeters (inches).
- Tolerance is $\pm 0.25\text{mm}$ ($0.01''$) unless otherwise noted.
- Luminous intensity value is traceable to CIE127-2007 standards.