

Power LED's - continued

Luxeon® LED Emitters - continued

Luxeon V and Luxeon V Portable - continued

Colour	Lum. Intensity (lm)		Wavelength Typical (nm)	Forward Voltage (V)		Order Code (V)
	min.	Typ.		Typ.	Max.	
Lambertian						
White			5500K	3.7	4.47	110-6629
Green			530	3.7	4.47	110-6630
Cyan			505	3.7	4.47	110-6631
Blue			470	3.7	4.47	110-6632
Royal Blue	275mW	340mW	455	3.7	4.47	110-6633
Amber			590	2.95	3.51	110-9117
Red			627	2.95	3.51	110-9118
Red/Orange			617	3.7	4.47	110-9119
Side Emitting						
White			5500K	3.7	4.47	110-6634
Green			530	3.7	4.47	110-6649
Blue			470	3.7	4.47	110-6651
Amber			590	2.95	3.51	110-9120
Red			627	2.95	3.51	110-9122
Red/Orange			617	2.95	3.51	110-9123
Luxeon V Portable Emitter						
Lambert - White			5500K	6.84	8.31	110-6604
Emission latérale - White			5500K	6.84	8.31	110-6609

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Colour	Mfrs. List No.	Order Code	Price Each		
			1+	10+	50+
Lambertian Beam Pattern					
White	LXHL-PW09	SMD 110-6629	296.00	274.00	270.00
Green	LXHL-PM09	SMD 110-6630	246.00	227.00	211.00
Cyan	LXHL-PE09	SMD 110-6631	246.00	227.00	211.00
Blue	LXHL-PB09	SMD 110-6632	246.00	227.00	211.00
Royal Blue	LXHL-PR09	SMD 110-6633	246.00	227.00	211.00
Amber	LXHL-PL09	SMD 110-9117	348.00	320.00	298.00
Red	LXHL-PD09	SMD 110-9118	348.00	320.00	317.00
Red/Orange	LXHL-PH09	SMD 110-9119	348.00	320.00	317.00
Side Emitting Beam Pattern					
White	LXHL-DW09	SMD 110-6634	296.00	274.00	254.00
Green	LXHL-DM09	SMD 110-6649	246.00	227.00	211.00
Blue	LXHL-DB09	SMD 110-6651	246.00	227.00	211.00
Amber	LXHL-DL09	SMD 110-9120	348.00	320.00	298.00
Red	LXHL-DD09	SMD 110-9122	348.00	320.00	298.00
Red/Orange	LXHL-DH09	SMD 110-9123	348.00	320.00	298.00
Luxeon V Portable Emitter - White					
Lambert	LXHL-PW03	SMD 110-6604	1,591.00	1,460.00	1,314.00
Emission latérale	LXHL-DW03	SMD 110-6609	1,591.00	1,460.00	1,314.00

Luxeon™ V Star Light Source



Lambertian



Side Emitting



- Long operating life - up to 100k hours
- Energy efficient
- Low voltage DC operation
- Cool beam, safe to touch
- Instant light, less than 100 ns
- Fully dimmable
- No UV
- Superior ESD protection

LUXEON® V is a revolutionary, energy efficient and ultra compact light source, combining the lifetime and reliability advantages of Light Emitting Diodes with the brightness of conventional lighting. LUXEON® V offers extreme luminous density, up to 50 times that of alternative solid-state light sources creating new opportunities for solid-state lighting to displace conventional lighting technologies. These hexagonal modules can be connected and powered in a close packed hexagonal configuration for tight spacing and increased light output per unit area.

LUXEON® V Portable is designed for portable lighting products such as flashlights, "miner" head-mounted lights, emergency lighting and other battery-operated devices. This device offers ruggedness, low power consumption and lifetimes greater than 50 times that of flashlight sources - over 500 hours compared to the typical 20 hour life of an incandescent bulb.

Colour	Lum. Intensity (lm)		Wavelength Typical (nm)	Forward Voltage (V)		Order Code (V)
	min.	Typ.		Typ.	Max.	
Lambertian Beam Pattern						
Green			530	6.84	8.31	110-6616
Cyan			505	6.84	8.31	110-6617
Blue			470	6.84	8.31	110-6618
Royal Blue	275mW	700mW	455	6.84	8.31	110-6619
Side Emitting Beam Pattern						
Green			530	6.84	8.31	110-6621
Cyan			505	6.84	8.31	110-6622

Colour	Lum. Intensity (lm)		Wavelength Typical (nm)	Forward Voltage (V)		Order Code (V)
	min.	Typ.		Typ.	Max.	
Side Emitting Beam Pattern						
Blue			470	6.84	8.31	110-6623
Royal Blue	275mW	630mW	455	6.84	8.31	110-6626
LUXEON® V Portable						
White - Lambertian			5500K	6.84	8.31	110-6615
White - Side Emitting			5500K	6.84	8.31	110-6620

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Colour	Mfrs. List No.	Order Code	Price Each		
			1+	10+	50+
Lambertian Beam Pattern					
Green	LXHL-LM5C	SMD 110-6616	1,388.00	1,273.00	1,146.00
Cyan	LXHL-LE5C	SMD 110-6617	1,388.00	1,273.00	1,146.00
Blue	LXHL-LB5C	SMD 110-6618	1,388.00	1,273.00	1,146.00
Royal Blue	LXHL-LR5C	SMD 110-6619	1,388.00	1,273.00	1,146.00
Side Emitting Beam Pattern					
Green	LXHL-FM5C	SMD 110-6621	1,388.00	1,273.00	1,147.00
Cyan	LXHL-FE5C	SMD 110-6622	1,388.00	1,273.00	1,147.00
Blue	LXHL-FB5C	SMD 110-6623	1,388.00	1,273.00	1,147.00
Royal Blue	LXHL-FR5C	SMD 110-6626	1,388.00	1,273.00	1,147.00
LUXEON® V Portable - White					
Lambertian	LXHL-LW6C	SMD 110-6615	1,657.00	1,520.00	1,369.00
Side Emitting	LXHL-FW6C	SMD 110-6620	1,657.00	1,520.00	1,369.00

Superflux LEDs

QuadriLED 4-pin Square LEDs

High Performance - Flat and Domed Lens versions



Features:

- 7.6mm square body with flat or lensed options
- Flat lens QuadriLED has 115°C viewing angle in both planes
- Available in white, red, yellow, green, blue, RGB and bi-colour with 1-3 die variants
- Device construction is ideally suited to high current operation

- Manufactured with copper leadframes for enhanced thermal conductivity
- Ultra wide angle option ideal for backlighting and switch top illumination

QuadriLED 4-pin square rugged package construction makes these devices ideally suited to arduous environmental conditions. The two lens options add to the diversity of potential applications including displays, backlighting and illumination.

Mfrs. List No.	Colour	Wavelength Dom. (nm)	Lum Intensity (mcd)	If (mA)	No. of die	Viewing angle (Deg.)
Flat						
FNL-P115B11TWCCI	Blue	624	540	50	1	115
FCL-PH115Y1512WCCI	Yellow	589	540	50	1	115
FCL-PH115G16WCCI	Green	527	480	35	1	115
FCL-PH115G11WCCI	Green	505	480	35	1	115
FCL-PH115B17WCCI	Blue	470	220	35	1	115
FCL-PH115W15WCCI	White	0.31/0.32	375	35	1	115
FCL-P115R078G03WCCI	Red and Green	624/525	140/140	50/35	2	115
FCL-P115Y109B12WCCI	Yellow and Blue	585/470	180/100	50/35	2	115
FNL-P115R078TWCCI	Red	624	1030	45	3	115
FNL-P115Y048TWCCI	Yellow	589	1030	45	3	115
FNL-P115G16TWCCI	Green	527	1100	30	3	115
FNL-P115G11TWCCI	Green	505	840	30	3	115
FCL-PH115R2112WCCI	Red	624	540	50	3	115
FSL-P115W12TWCCI	White	0.31/0.32	1080	30	3	115
FCL-P115R078G03B12WCCI	Red, Green and Blue	624/525/470	140/140/140	50/35/35	3	115
Small Domed lens						
FCL-PH65R2112WCCI	Red	624	1980	50	1	65
FCL-PH65Y1512WCCI	Yellow	589	1980	50	1	65
FCL-PH65G16WCCI	Green	527	1800	35	1	65
FCL-PH65G11WCCI	Green	505	1800	35	1	65
FCL-PH65B17WCCI	Blue	470	850	35	1	65
FCL-PH65W15WCCI	White	0.31/0.32	1350	35	1	65
Large Domed lens						
FCL-P5DR078G03WCCI	Red/Green	624/525	400/400	50/35	2	115
FCL-P5DY109B12WCCI	Yellow and Blue	585/470	500/620	50/35	1/2	115
FNL-P5DR078TWCCI	Red/Yellow	624/589	3800	45	3	115
FNL-P5DY048TWCCI	Yellow	527	3800	45	3	115
FNL-P5DG16TWCCI	Green	527	4100	30	3	115
FNL-P5DG11TWCCI	Green	505	3100	30	3	115
FNL-P5DB11TWCCI	Blue	460	1600	30	3	115
FSL-P5DW12TWCCI	White	0.31/0.32	4000	30	3	115
FCL-P5DR078G03B12WCCI	Red, Green and Blue	624/525/470	400/400/260	50/35/35	3	115

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Mfrs. List No.	Order Code	Price Each			
		1+	10+	25+	50+
Flat					
FNL-P115B11TWCCI	873-8742	233.00	207.00	190.00	173.00
FCL-PH115Y1512WCCI	873-8840	36.00	32.00	29.00	27.00
FCL-PH115G16WCCI	873-8858	66.00	59.00	54.00	49.00
FCL-PH115G11WCCI	873-8866	66.00	59.00	54.00	49.00
FCL-PH115B17WCCI	873-8874	106.00	94.00	86.00	79.00
FCL-PH115W15WCCI	873-8939	113.00	100.00	92.00	84.00
FCL-P115R078G03WCCI	873-8785	98.00	88.00	81.00	74.00
FCL-P115Y109B12WCCI	873-8807	98.00	88.00	81.00	74.00
FNL-P115R078TWCCI	873-8688	52.00	46.00	42.00	38.00
FNL-P115Y048TWCCI	873-8700	52.00	46.00	42.00	38.00