

# LUXEON® I

## 20 & 26.5mm Range

“LUXEON® I, the original power LED, is the perfect solution for everyday purposes including automotive LED lighting, traffic signalling, signage, and a wide-range of general LED lighting applications. LUXEON® gives you total design freedom and unmatched brightness allowing you to create never before possible lighting solutions.” Reproduced from Future Lighting Solutions



Available from Future Lighting Solutions  
[www.futurelightingsolutions.com](http://www.futurelightingsolutions.com)



### Carclo Technical Plastics

111 Buckingham Avenue, Slough, Berkshire SL1 4PF ENGLAND / 600 Depot Street Latrobe PA. 15650 USA

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# LUXEON® I 20mm range

Part No.	Description	White			Red/Amber			Cyan/Green			Warm White		
		FWHM#	EFF	Cd/lm	FWHM#	EFF	Cd/lm	FWHM#	EFF	Cd/lm	FWHM#	EFF	Cd/lm
10003	Plain Tight	8.0	84%	20	10.4	81%	16	9.6	82%	13	9.0	80%	10
10138	Frosted Narrow	12	87%	12	15	83%	11	15	87%	8.3	14	84%	7.0
10003/15	Ripple Medium	19	81%	5.2	13	81%	7.2	15	88%	7.3	17	81%	4.6
10139	Frosted Medium	22	83%	3.4	20	77%	4.8	20	80%	3.7	22	76%	3.0
10003/25	Ripple Wide	34	81%	2.3	16	80%	3.4	28	86%	2.7	18	80%	3.0
10140	Frosted Wide	35	81%	2.6	43	74%	1.6	34	78%	2.1	44	72%	1.3
10170	Wide angle reflector	79	91%	1.0	77	85%	1.3	78	92%	1.1	64	93%	1.4
10003/L25	Elliptical	40 X 11	78%	5.1	38 X 12	80%	4.4	40 X 14	85%	4.2	54 X 13	79%	3.0
10192	Elliptical Orthogonal*	10.6 X 40	78	5.1	1.9 X 38.2	80	4.4	13.7 X 39	85	4.2	12.8 X 35.5	79	3.0
10034	Fibre	Optimised for coupling into 0.5NA fibre bundles of 8 - 12mm diameter											

\*Orthogonal is the elliptical beam turned through 90deg.  
#Full Width Half Maximum i.e. total viewing angle



Part No.	Colour	Description	Part No.	Colour	Description
10012	Black	Circular custom boards	10109	Black	Triple holder 50 mm dia
10024	Clear	Circular custom boards	10110	White	Triple holder 50 mm dia
10035	White	Circular custom boards	10270	White	50mm Triple holder long leg
10026	Black	Star boards	10280	White	50 mm Triple holder short leg
10036	Clear	Star boards	10290	Black	50 mm Triple holder Long leg
10037	White	Star boards	10300	Black	50 mm Triple holder short leg
10041	Black	Triple holder 45 mm dia			
10042	White	Triple holder 45 mm dia			

# LUXEON® III

## 20 & 26.5mm Range

“LUXEON® III LEDs, the industry's most widely used high-power LEDs, deliver leading performance and value that enable lighting designers and engineers to develop applications at significantly lower costs, speeding the migration from conventional lamps to solid-state technology. With its rugged package design, superior thermal management and zero-stress encapsulation system, LUXEON® III is a clear technical and performance leader.” Reproduced from Future Lighting Solutions web site



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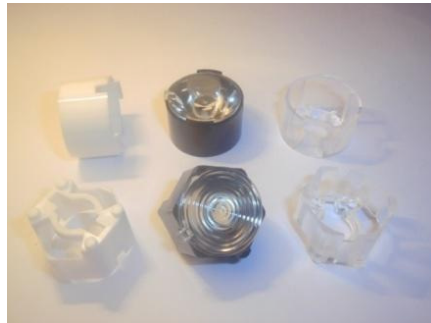
Tel UK: 0044 (0) 1753 575011 Tel USA 00 (1) 724 539 6982



# LUXEON® III 20mm range

Part No.	Description	White			Red			Blue			Green		
		FWHM	EFF	Cd/lm	FWHM	EFF	Cd/lm	FWHM	EFF	Cd/lm	FWHM	EFF	Cd/lm
10003	Plain Tight	6.9	82%	17	14	82%	8.1	9.0	87%	16	10	87%	19
10138	Frosted Narrow	14	88%	6.2	18	88%	6.5	14	87%	10	14	87%	10
10003/15	Ripple Medium	20	86%	4.7	22	88%	4.5	16	87%	6.0	16	87%	6.0
10139	Frosted Medium	20	85%	2.9	25	86%	3.5	19	84%	4.2	20	84%	4.3
10003/25	Ripple Wide	32	84%	2.2	26	87%	2.8	31	86%	2.8	27	85%	2.7
10140	Frosted Wide	35	80%	1.6	43	81%	1.5	37	80%	1.5	37	80%	1.5
10170	Wide Angle Reflector	72	91%	0.9	68	90%	1.2	75	93%	1.6	75	93%	1.6
10003/L25	Elliptical	40 x 11	83%	4.2	42 x 18	84%	3.5	39 x 12	85%	3.7	38 x 13	84%	3.8
10192	Elliptical Orthogonal	11 x 40	83%	4.2	17 x 44	87%	3.3	12 x 39	85%	3.9	13 x 38	84%	3.8
10034	Fibre	Optimised for coupling into 0.5NA fibre bundles of 8 - 12mm diameter											

\*Orthogonal is the elliptical beam turned through 90deg.  
#Full Width Half Maximum i.e. total viewing angle



Part No.	Colour	Description	Part No.	Colour	Description
10012	Black	Circular custom boards	10109	Black	Triple holder 50 mm dia
10024	Clear	Circular custom boards	10110	White	Triple holder 50 mm dia
10035	White	Circular custom boards	10270	White	50mm Triple holder long leg
10043	Black	Star boards	10280	White	50 mm Triple holder short leg
10045	Clear	Star boards	10290	Black	50 mm Triple holder Long leg
10044	White	Star boards	10300	Black	50 mm Triple holder short leg
10041	Black	Triple holder 45 mm dia			
10042	White	Triple holder 45 mm dia			

# LUXEON® V

## 20 & 26.5mm Range

“LUXEON® V LEDs offer extreme luminous density, providing lumens per package 4X that of a LUXEON® I LED or up to 50X that of an alternative solid state light source. LUXEON® V creates new opportunities for solid state lighting to displace conventional lighting technologies. LUXEON® V LEDs serve a wide range of applications. For example, LUXEON® V white LEDs are ideally suited for portable lighting applications.” Reproduced from Future Lighting Solutions web site



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# LUXEON® V 20mm range

Part No.	Description	White			Cyan/Green		
		FWHM#	EFF	Cd/lm	FWHM#	EFF	Cd/lm
10003	Plain Tight	17	83%	6.4	18	86%	10
10138	Frosted Narrow	19	88%	5.0	21	83%	8
10003/15	Ripple Medium	27	87%	3.3	27	87%	5.7
10139	Frosted Medium	25	85%	3.1	29	83%	4.6
10003/25	Ripple Wide	54	85%	1.8	34	84%	3.6
10140	Frosted Wide	42	80%	1.5	46	80%	2.5
10170	Wide angle reflector	77	92%	1.1	75	95%	2.9
10003/L25	Elliptical	39 X 19	84%	3.0	43 X 20	83%	4.6
10192	Elliptical Orthogonal*	19 X 39	84%	3.0	22 X 46	83%	4.4
10034	Fibre	Optimised for coupling into 0.5NA fibre bundles of 8 - 12mm diameter					

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#Full Width Half Maximum i.e. total viewing angle



Part No.	Colour	Description	Part No.	Colour	Description
10012	Black	Circular custom boards	10109	Black	Triple holder 50 mm dia
10024	Clear	Circular custom boards	10110	White	Triple holder 50 mm dia
10035	White	Circular custom boards	10270	White	50mm Triple holder long leg
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10045	Clear	Star boards	10290	Black	50 mm Triple holder Long leg
10044	White	Star boards	10300	Black	50 mm Triple holder short leg
10041	Black	Triple holder 45 mm dia			
10042	White	Triple holder 45 mm dia			