



LED SEKUNDÄR OPTIKEN - ÜBERBLICK SHOWIN TECHNOLOGY



PORTFOLIO 2017

SHOWIN TECHNOLOGY entwickelt und produziert hochwertigste Sekundär Optiken für Hochleistungs-LEDs der weltweit führenden Hersteller.

OSRAM OS



CREE



PHILIPS LUMILEDS



Das Produktportfolio umfasst ein umfangreiches Sortiment für Anwendungsbereiche in moderner Indoor und Outdoor Beleuchtung.

Typische Eigenschaften

- Einzel- oder Multi-Linse
- Array, Cluster
- Kompakte Bauform
- Spotlicht
- Weitstrahlend
- Asymmetrische Abstrahlcharakteristik
- Homogene Lichtverteilung
- Top Effizienz

Anwendungsbereiche

- Downlights
- Retrofits
- Fassadenbeleuchtung
- Industrieleuchten
- Notbeleuchtung
- Strassenbeleuchtung
- Strahler
- Flächenleuchten
- Taschenlampen
- Signalleuchten
- etc.

Neben Standardprodukten bietet SHOWIN kundenspezifische Lösungen gemäß Ihren speziellen Anwendungsanforderungen. Design, Werkzeugbau und Fertigung inklusive.

Wir freuen uns darauf Ihre Anfrage zu erhalten.

Bitte senden Sie diese an: showin@illuminnno.com

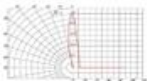
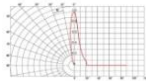
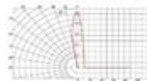
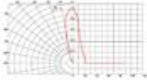
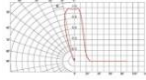
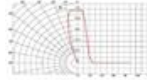
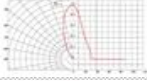
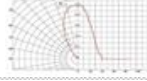
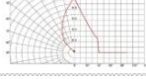
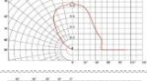
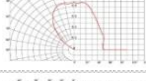
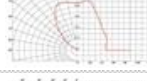
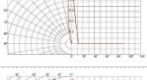
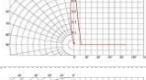
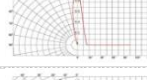
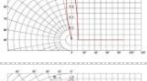
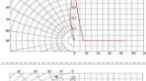
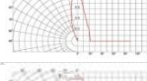
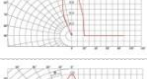
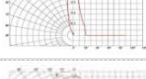
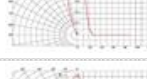
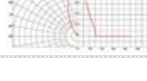
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				Oslon 80		Oslon 150		Oslon Square	
	LENS TYPE	DIAMETER / LAYOUT (mm)	HEIGHT (mm)	RADIATION PATTERN	BEAM ANGLE	RADIATION PATTERN	BEAM ANGLE	RADIATION PATTERN	BEAM ANGLE
	LA-11	11,3	7,4		15°		14°		20°
	LA-12	11,3	7,4		24°		30°		30°
	LA-13	11,3	7,4		48°		50°		50°
	AL-057-008	11,3	7,4		45°		50°		60°
	AL-049-008	11,3	7,4		68°		80°		80°
	FL-36	19,6	12,7		10°		13°		13°
	FL-37	19,6	12,7		15°		16°		18°
	FL-38	19,6	12,7		36°		23°		31°
	FL-34	19,6	12,7		48°		53°		40°

Datenblätter und Lichtverteilungskurven (.IES) auf Anfrage verfügbar: showin@illuminnno.com

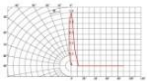
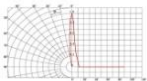
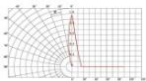
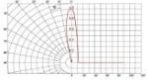
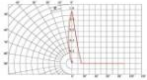
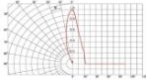
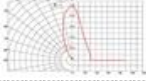
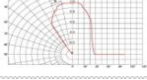
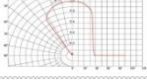
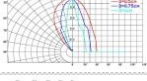
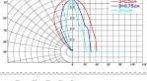
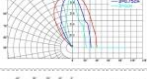
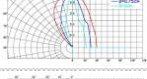
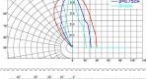
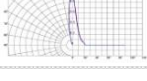
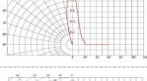
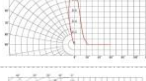
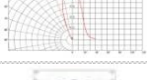
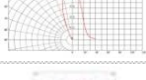
ÄNDERUNG TECHNISCHER DATEN VORBEHALTEN.

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	LENS TYPE	DIAMETER / LAYOUT (mm)	HEIGHT (mm)	RADIATION PATTERN	BEAM ANGLE	RADIATION PATTERN	BEAM ANGLE	RADIATION PATTERN	BEAM ANGLE
	FL-86	19,6	12		10°		13°		16°
	FL-87	19,6	12		15°		17°		21°
	FL-88	19,6	12	-	-	-	-		41°
	LK-02A	21,9	7,5		63°		65°		72°
	LK-02G	28,8	7,9		30° - 70°		30° - 70°	-	-
	LK-02S	28,8	7,9		30° - 70°		30° - 70°		30° - 70°
	FL-801	35	15		16°		20°		20°
	FL-804	34,8	9,6	-	-		40°		38°
	FL-201	17,4 x 10,7	4,4		136° x 40°		136° x 40°		158° x 49°

Datenblätter und Lichtverteilungskurven (.IES) auf Anfrage verfügbar: showin@illuminnno.com

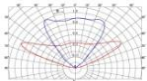
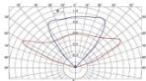
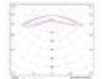
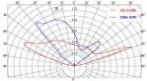
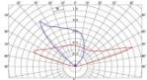
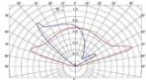
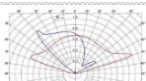
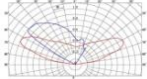
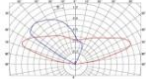
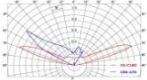
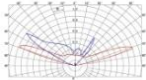
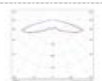
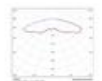
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				Oslon 80		Oslon 150		Oslon Square	
	LENS TYPE	DIAMETER / LAYOUT (mm)	HEIGHT (mm)	RADIATION PATTERN	BEAM ANGLE	RADIATION PATTERN	BEAM ANGLE	RADIATION PATTERN	BEAM ANGLE
	FL-68C	12,5	3,93	-	-		138° x 80°		132° x 82°
	FL-64	12,0 x 12,0	3,4		143°		147°		136°
	FL-81	14,9 x 8,4	3,7		143° x 50° x 38°	-	-	-	-
	FL-80	14,3 x 7,8	3,7	-	-		146° x 60° x 36°		146° x 64° x 40°
	FL-806	160 x 60	3,7	-	-		147° x 55°		146° x 64° x 40°
	FL-60	15,0 x 10,0	3,65	-	-		150° x 56° x 50°		157° x 70° x 50°
	FL-62	15,0 x 10,0	3,7	-	-		150° x 22° x 52°		153° x 54° x 56°
	FL-43	11,0 x 11,0	6,7		157°		156°		155°
	FL-53	11,0 x 11,0	6,7	-	-	-	-		157°

Datenblätter und Lichtverteilungskurven (.IES) auf Anfrage verfügbar: showin@illuminnno.com

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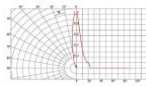
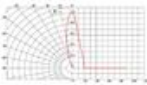
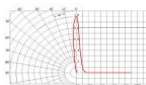
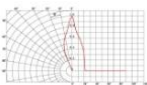
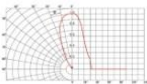
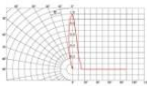
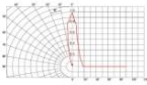
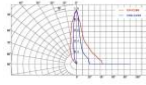
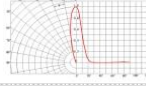
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Ostar Lighting Plus

Golden Dragon Plus

	LENS TYPE	DIAMETER / LAYOUT (mm)	HEIGHT (mm)	RADIATION PATTERN	BEAM ANGLE	RADIATION PATTERN	BEAM ANGLE
	FL-39	18,8	12,8	-	-		10°
	FL-35A	19,8	11,7		22°		12°
	FL-37	19,6	12,7		27°	-	-
	FL-38	19,6	12,7		38°	-	-
	FL-86	19,6	12,0		10°	-	-
	FL-87	19,6	12,0		20°	-	-
	FL-41	18,8	12,8	-	-		10° x 30°
	FL-90	8,5 x 8,5	8,8	-	-		15°
	FL-42	8,5 x 8,5	6,5	-	-		20°

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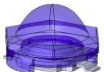
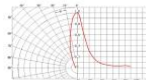
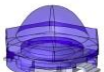
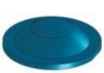
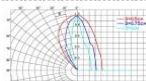
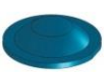
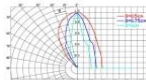
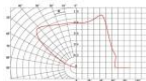
SHOWIN - OSRAM OS
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Ostar Lighting Plus

Golden Dragon Plus

	LENS TYPE	DIAMETER / LAYOUT (mm)	HEIGHT (mm)	RADIATION PATTERN	BEAM ANGLE	RADIATION PATTERN	BEAM ANGLE
	FL-46	8,5 x 8,5	6,5	-	-	DATA IN PROCESS	60°
	FL-63C	11,5	7,0	-	-		30°
	FL-63S	11,5	7,0	-	-		30°
	FL-66C	11,5	6,5	-	-		60°
	FL-66S	11,5	6,5	-	-		60°
	LK-02A	21,9	7,5	DATA IN PROCESS	75°		60°
	LK-02G	28,8	8,0	-	-		30° - 70°
	LK-02S	28,8	7,9	DATA IN PROCESS	60° - 80°		30° - 70°
	FL-70	12,5	4,8	-	-		110°

Datenblätter und Lichtverteilungskurven (.IES) auf Anfrage verfügbar: showin@illuminnno.com

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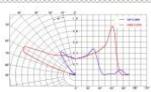
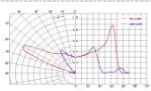
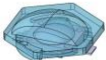
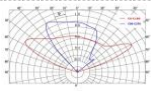
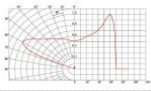
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Ostar Lighting Plus

Golden Dragon Plus

	LENS TYPE	DIAMETER / LAYOUT (mm)	HEIGHT (mm)	RADIATION PATTERN	BEAM ANGLE	RADIATION PATTERN	BEAM ANGLE
	FL-68D	12,5	4,8	-	-		60° x 120°
	FL-68S	12,5	4,8	-	-		120° x 60°
	FL-82	13,1	4,9	-	-		120° x 70°
	FL-54	10,0	4,8	-	-		138°
	FL-69S	12,5	4,8	-	-		145°

Datenblätter und Lichtverteilungskurven (.IES) auf Anfrage verfügbar: showin@illuminnno.com

ÄNDERUNG TECHNISCHER DATEN VORBEHALTEN.

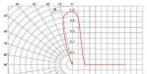
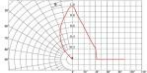
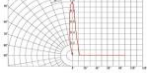
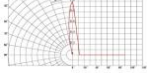
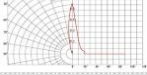
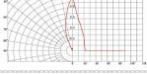
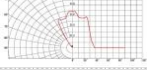
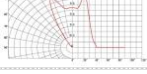
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SHOWIN

XP-E
XP-G
MX-6

	LENS TYPE	DIAMETER / LAYOUT (mm)	HEIGHT (mm)	RADIATION PATTERN	BEAM ANGLE	RADIATION PATTERN	BEAM ANGLE	RADIATION PATTERN	BEAM ANGLE
	AL-058-041	11,3	7,4		15°		20°	-	-
	AL-052-041	11,3	7,4		32°		36°	-	-
	AL-056-041	11,3	7,4		51°		56°	-	-
	AL-057-041	11,3	7,4		50°		70°	-	-
	AL-049-041	11,3	7,4		80°		82°	-	-
	FL-36	19,6	12,7		12°		16°	-	-
	FL-37	19,6	12,7		18°		21°	-	-
	FL-38	19,6	12,7		25°		30°	-	-
	FL-34	19,6	12,7		52°		57°	-	-

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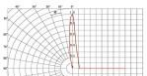
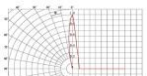
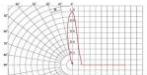
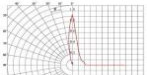
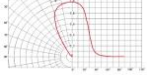
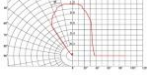
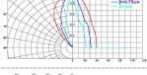
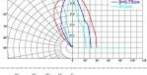
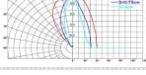
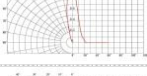
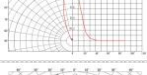
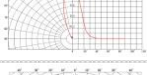
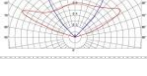
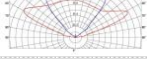
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SHOWIN

XP-E
XP-G
MX-6

	LENS TYPE	DIAMETER / LAYOUT (mm)	HEIGHT (mm)	RADIATION PATTERN	BEAM ANGLE	RADIATION PATTERN	BEAM ANGLE	RADIATION PATTERN	BEAM ANGLE
	FL-86	19,6	12		12°		16°	-	-
	FL-87	19,6	12		18°		21°	-	-
	FL-88	19,6	12		39°		41°	-	-
	LK-02A	21,9	7,5		65°		66°	-	-
	LK-02G	28,8	8		30° - 64°		30° - 70°		32° - 68°
	LK-02S	28,8	7,9		30° - 64°		33° - 66°		32° - 68°
	FL-801	35,0	15		20°		20°	-	-
	FL-804	34,8	9,6		38°		30°	-	-
	FL-68C	12,5	3,9		134° x 77°		140° x 84°	-	-

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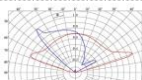
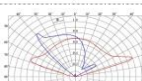
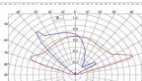
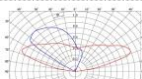
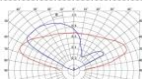
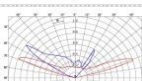
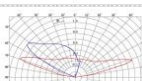
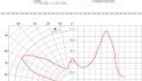
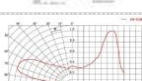
SHOWIN - CREE

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SHOWIN

XP-E
XP-G
MX-6

	LENS TYPE	DIAMETER / LAYOUT (mm)	HEIGHT (mm)	RADIATION PATTERN	BEAM ANGLE	RADIATION PATTERN	BEAM ANGLE	RADIATION PATTERN	BEAM ANGLE
	FL-201	14,7 x 10,7	4,4		137° x 50°		158° x 39°		
	FL-80	14,3 x 7,8	3,7		146° x 64° x 40°	-	-	-	-
	FL-806	160,0 x 60,0	3,7		146° x 64° x 40°		147° x 61° x 40°	-	-
	FL-60	15,0 x 10,0	3,7		152° x 57° x 44°		156° x 70° x 50°	-	-
	FL-62	15,0 x 10,0	3,7		148° x 24° x 54°		152° x 56° x 54°	-	-
	FL-64	12,0 x 12,0	3,4		148°		147°	-	-
	FL-53	11,0 x 11,0	6,7		155°		158°	-	-
	FL-202	16,0	5,2		169°		169°	-	-

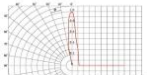
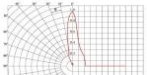
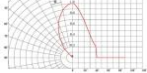
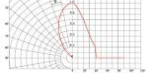
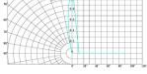
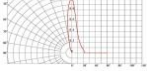
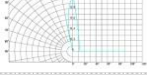
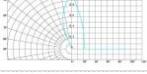
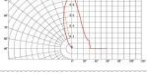
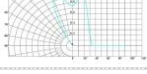
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SHOWIN
**PHILIPS
LUMILEDS**
Rebel
Rebel ES

	LENS TYPE	DIAMETER / LAYOUT (mm)	HEIGHT (mm)	RADIATION PATTERN	BEAM ANGLE	RADIATION PATTERN	BEAM ANGLE
	LA-09	11,3	7,4		14°		19°
	LA-03	11,3	7,4		28°		35°
	LA-05	11,3	7,4		42°		51°
	AL-057-004	11,3	7,4		52°		65°
	AL-049-004	11,3	7,4		76°		80°
	FL-36	19,6	12,7		12°		16°
	FL-37	19,6	12,7		15°		20°
	FL-38	19,6	12,7		30°		32°
	FL-34	19,6	12,7		54°		50°

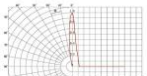
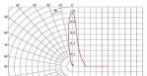
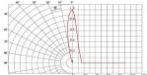
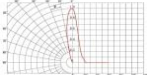
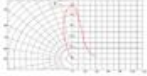
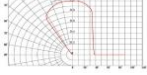
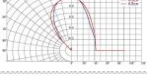
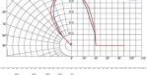
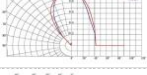
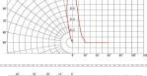
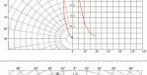
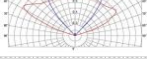
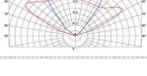
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SHOWIN
**PHILIPS
LUMILEDS**
Rebel
Rebel ES

	LENS TYPE	DIAMETER / LAYOUT (mm)	HEIGHT (mm)	RADIATION PATTERN	BEAM ANGLE	RADIATION PATTERN	BEAM ANGLE
	FL-86	19,6	12,0		12°		16°
	FL-87	19,6	12,0		15°		20°
	FL-88	19,6	12,0		31°		34°
	LK-02A	21,9	7,5		65°		70°
	LK-02G	28,8	7,9		30° - 70°		30° - 72°
	LK-02S	28,8	7,9		30° - 70°		30° - 72°
	FL-801	35,0	15,0		20°		20°
	FL-804	34,8	9,6	-	-		38°
	FL-68C	12,5	3,93		134° x 74°		136° x 78°

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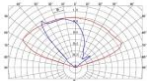
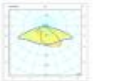
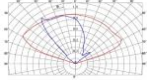
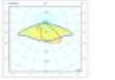
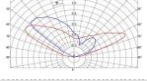
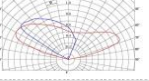
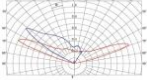
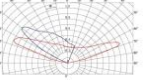
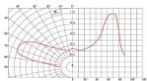
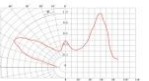
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Rebel

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	LENS TYPE	DIAMETER / LAYOUT (mm)	HEIGHT (mm)	RADIATION PATTERN	BEAM ANGLE	RADIATION PATTERN	BEAM ANGLE
	FL-80	14,3 x 7,8	3,7		134° x 58° x 34°		145° x 65° x 35°
	FL-806	160,0 x 60,0	3,7		134° x 58° x 34°		145° x 65° x 35°
	FL-60	15,0 x 10,0	3,65		138° x 50° x 50°		147° x 60° x 50°
	FL-62	15,0 x 10,0	3,7		142° x 34° x 52°		144° x 45° x 50°
	FL-201	14,7 x 10,7	4,4		147° x 50°		137° x 50°
	FL-203	10,0	3,3		135°		135°
	FL-64	12,0 x 12,0	3,4		147°		147°
	FL-43	11,0 x 11,0	6,7		157°		156°
	FL-53	11,0 x 11,0	6,7		160°		156°

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ÄNDERUNG TECHNISCHER DATEN VORBEHALTEN.

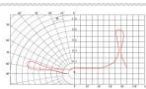
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	LENS TYPE	DIAMETER / LAYOUT (mm)	HEIGHT (mm)	RADIATION PATTERN	BEAM ANGLE	RADIATION PATTERN	BEAM ANGLE
	FL-202	16,0 x 5,2	6,7	-	-		168°

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