



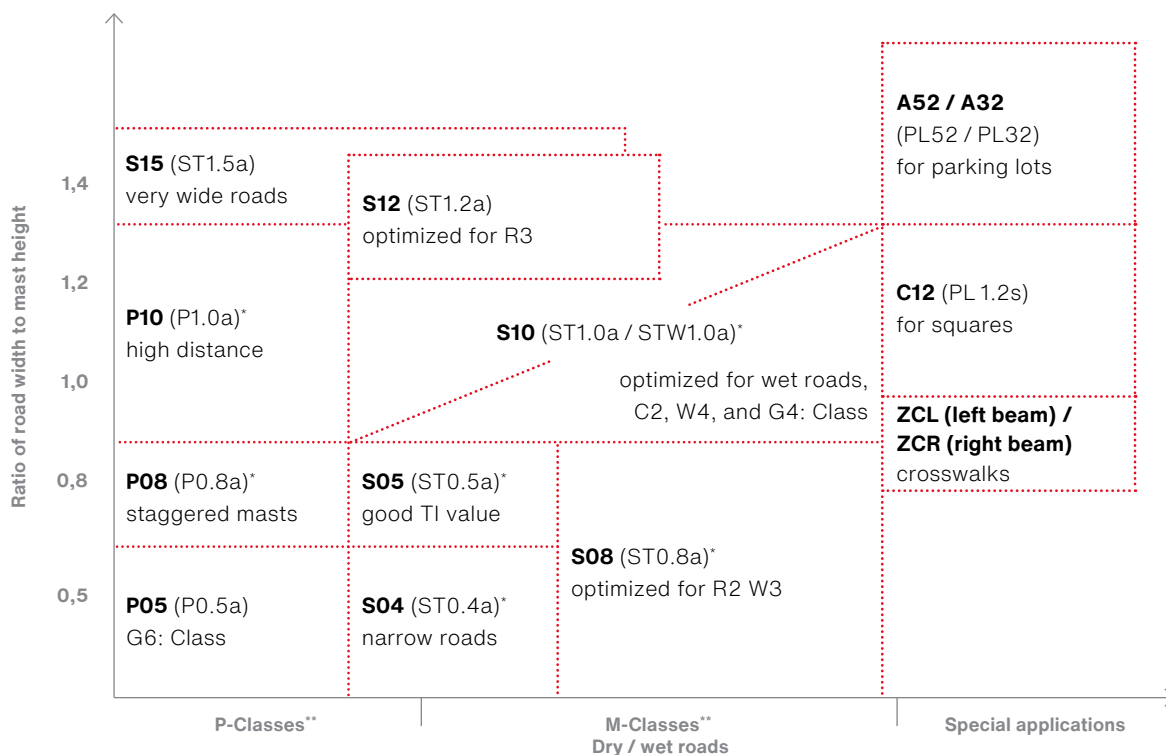
Planning guide for outdoor lighting-optics.

Precise light distributions for every application.

Streets & urban zones.

Overview of standard light distributions.

New optics designations: in bold
Former designations: in brackets



* also available with symmetrical light distribution
 ** according to EN13201 classification

Note: For easier reference, this overview shows only the short optics designations, which outline the application and the ratio of road width to mast height. The available optics variants available for the individual product families can be found in our electronic product catalog.

Optics

New designation	Old designation	Optimized for	Radiation characteristics	Reflector / Lens	EN13201 Recommended lighting class	IES Classification Light intensity classes (at 0° inclination)	Type	Back-light control (BLC)	Light distribution
S04	ST0.4a	very narrow roads, cycle paths	asymmetrical wide distribution	lens	M, P	G2	II		
S04B	ST0.4a BLC	very narrow roads, cycle paths	asymmetrical wide distribution	lens	M, P	G1	II		
S040005	ST0.4s	very narrow roads	symmetrical wide distribution	lens	M	G2	V		
S05	ST0.5a	narrow roads, (cycle) paths	asymmetrical wide distribution	reflector / lens	M, P	G3	II		

Optics

					EN13201		IES Classification			
New designation	Old designation	Optimized for	Radiation characteristics	Reflector / Lens	Recommended lighting class	Light intensity classes (at 0° inclination)	Type	Back-light control (BLC)	Light distribution	
S05B	ST0.5a BLC	narrow roads, (cycle) paths	asymmetrical wide distribution	lens	M, P	G3	II, III	●		
S050002	ST0.5ST0.5	standard roads with whip mast	asymmetrical wide distribution	reflector	M	G4	II			
S050004	ST0.5s	very narrow roads	symmetrical wide distribution	lens	M	G6	V			
S08	ST0.8a	narrow and standard roads	asymmetrical wide distribution	lens	M	G3	II			
S08B	ST0.8a BLC	narrow and standard roads	asymmetrical wide distribution	lens	M	G3	II	●		
S080001	ST0.8s	narrow roads	symmetrical wide distribution	lens	M	G4	V			
S10	ST1.0a	standard roads	asymmetrical wide distribution	reflector / lens	M	G3	III			
S100004	ST1.0s	standard roads	symmetrical wide distribution	lens	M	G4	V			
S100006	STW1.0a	standard wet roads	asymmetrical wide distribution	lens	M	G3	II			
S100007	ST1.0P1.0	standard roads with a sidewalk or cycle path on the opposite side	asymmetrical wide distribution	reflector	M	G1	III			
S100008	ST1.0ST0.5	standard roads with narrow roads behind them / residential roads or cycle paths	asymmetrical wide distribution	reflector	M	G2	III			
S10B	ST1.0a BLC	standard roads	asymmetrical wide distribution	reflector / lens	M	G3	III	●		
S10B006	STW1.0a BLC	standard wet roads	asymmetrical wide distribution	lens	M	G3	II	●		
S12	ST1.2a	standard and wide roads	asymmetrical wide distribution	reflector	M	G3	III			
S120006	ST1.2c	intersection areas	asymmetrical wide distribution	reflector	M, CE	G4	---			
S120007	ST1.2P1.0	standard and wide roads with reverse pedestrian or cycle path	asymmetrical wide distribution	reflector	M	G1	III			
S13	ST1.3a	wide roads	asymmetrical wide distribution	lens	M	G4	III			
S15	ST1.5a	wide and very wide roads	asymmetrical wide distribution	lens	M	G-	II			

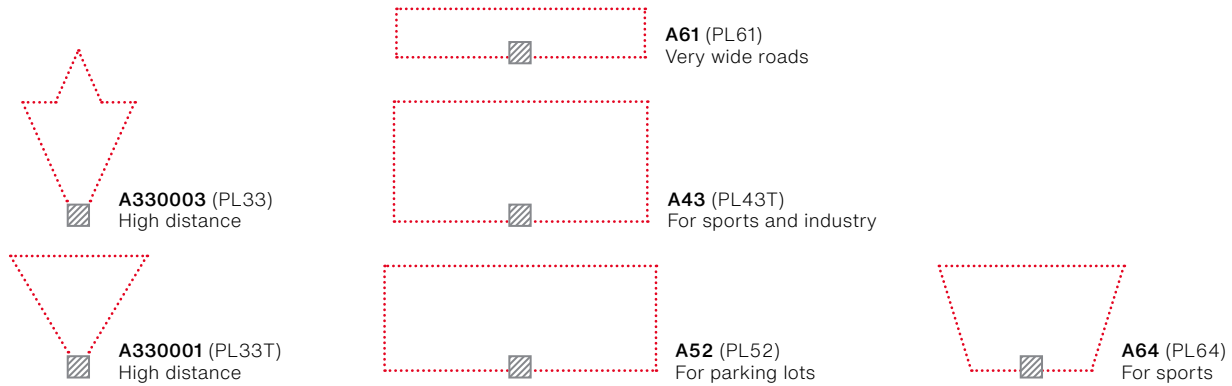
Streets & urban zones.

Optics

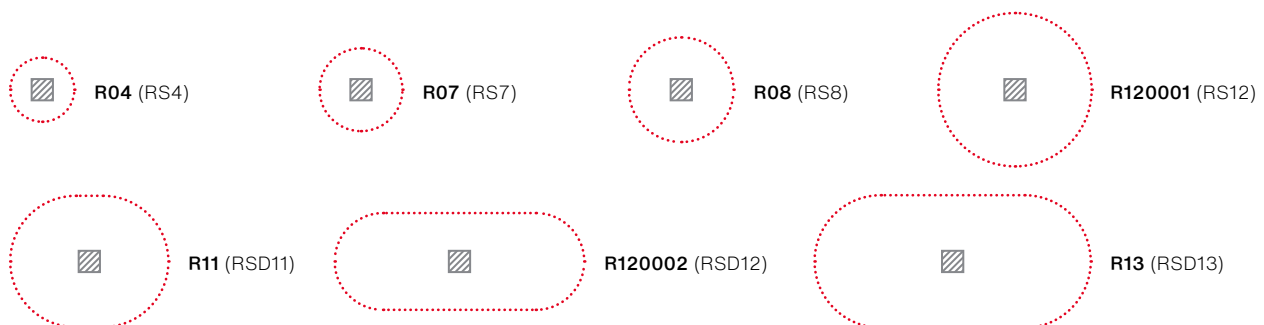
					EN13201		IES Classification			
New designation	Old designation	Optimized for	Radiation characteristics	Reflector / Lens	Recommended lighting class	Light intensity classes (at 0° inclination)	Type	Back-light control (BLC)	Light distribution	
S15B	ST1.5a BLC	wide and very wide roads	asymmetrical wide distribution	lens	M	G-	II	●		
P05	P0.5a	very narrow roads, cycle paths	asymmetrical wide distribution	lens	P	G6	III			
P08	P0.8a	narrow roads, (cycle) paths	asymmetrical wide distribution	lens	P	G3	III			
P08B	P0.8a BLC	narrow roads, (cycle) paths	asymmetrical wide distribution	lens	P	G3	III	●		
P10	P1.0a	narrow roads, (cycle) paths	asymmetrical extremely wide distribution	reflector / lens	P	G-	I, III			
P10B	P1.0a BLC	narrow roads, (cycle) paths	asymmetrical extremely wide distribution	lens	P	G-	III, V	●		
P100013	P1.0s	narrow roads	symmetrical wide distribution	lens	M	G-	II			
A32	PL32	parking lots	asymmetrical distribution	lens	P	G3	III			
A52	PL52	parking lots	asymmetrical distribution	lens	P	G3	III			
C12	PL1.2s	squares	symmetrical wide distribution	reflector	P	G6	V			
ZCL	PC-L	crosswalks	asymmetrical wide left distribution	reflector / lens	M	G3				
ZCR	PC-R	crosswalks	asymmetrical wide right distribution	reflector / lens	M	G3				

(Open) spaces & sports facilities.

Overview of standard light distributions for area lighting.



Overview of standard light distributions for stadium & sports field lighting.



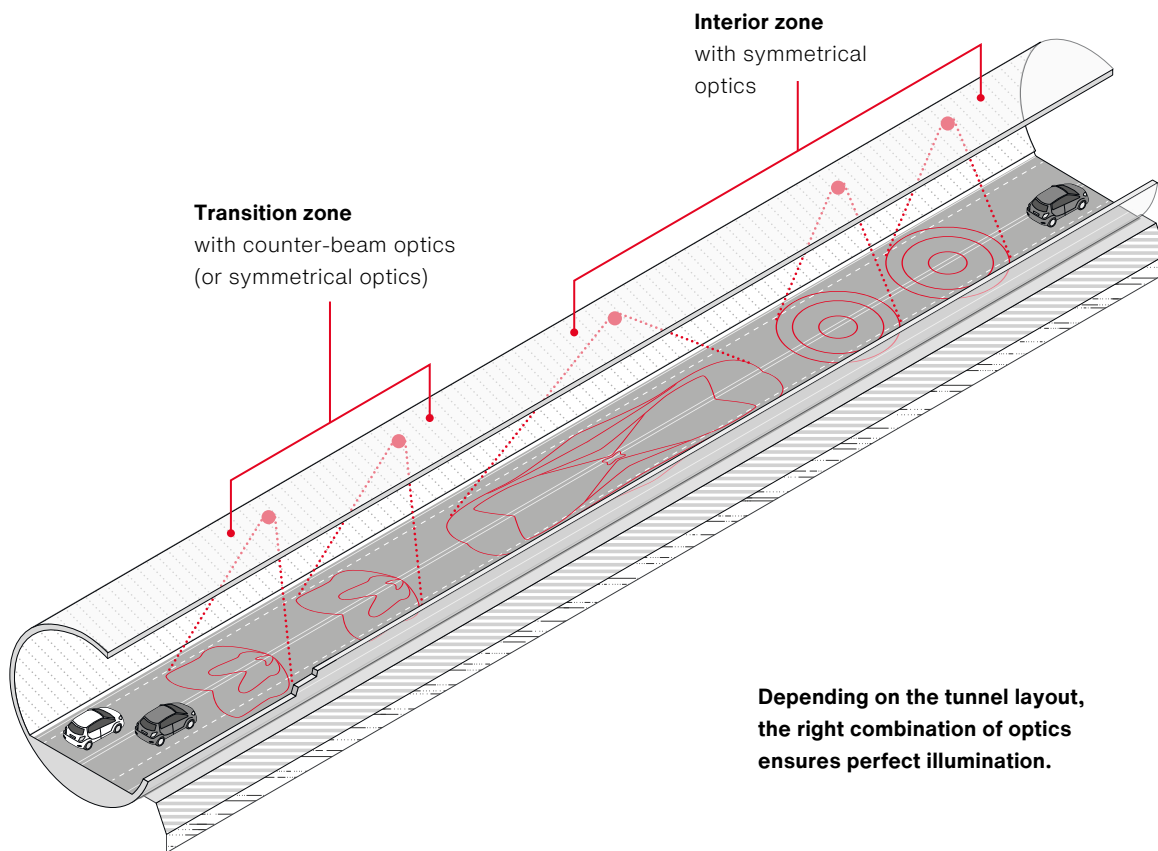
(Open) spaces & sports facilities.

Optics

New designation	Old designation	Optimized for	Radiation characteristics	Backlight control (BLC)	Light distribution	
A32	PL32	parking lots, areas	asymmetrical deep & wide distribution			
A330001	PL33T	sports fields	asymmetrical deep distribution			
A330003	PL33	sports fields	asymmetrical deep distribution			
A33B	PL33TBLC	sports fields	asymmetrical deep distribution			
A43	PL43	sports fields, areas	asymmetrical deep & wide distribution			
A52	PL52	parking lots, areas	asymmetrical wide distribution			
A61	PL61	roads	asymmetrical extremely wide distribution			
A64	PL64	sports fields, areas	asymmetrical deep & wide distribution			
A64B	PL64BLC	sports fields, areas	asymmetrical deep & wide distribution			
R04	RS04	stadiums	rotational symmetric, narrow distribution			
R05	RS05	Mirrortec systems for indoors	rotational symmetric bundling			
R07	RS07	stadiums	rotational symmetric bundling			
R08	RS08	stadiums	rotational symmetric bundling			
R11	RSD11	stadiums	symmetrical elliptical bundling			
R120001	RS12	stadiums	rotational symmetric bundling			
R120002	RSD12	stadiums	symmetrical elliptical bundling			
R13	RSD13	stadiums	symmetrical elliptical bundling			
R17	RS17	interior lighting	rotational symmetric scattering			

Tunnel.

Overview of standard light distributions.

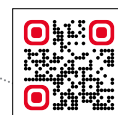


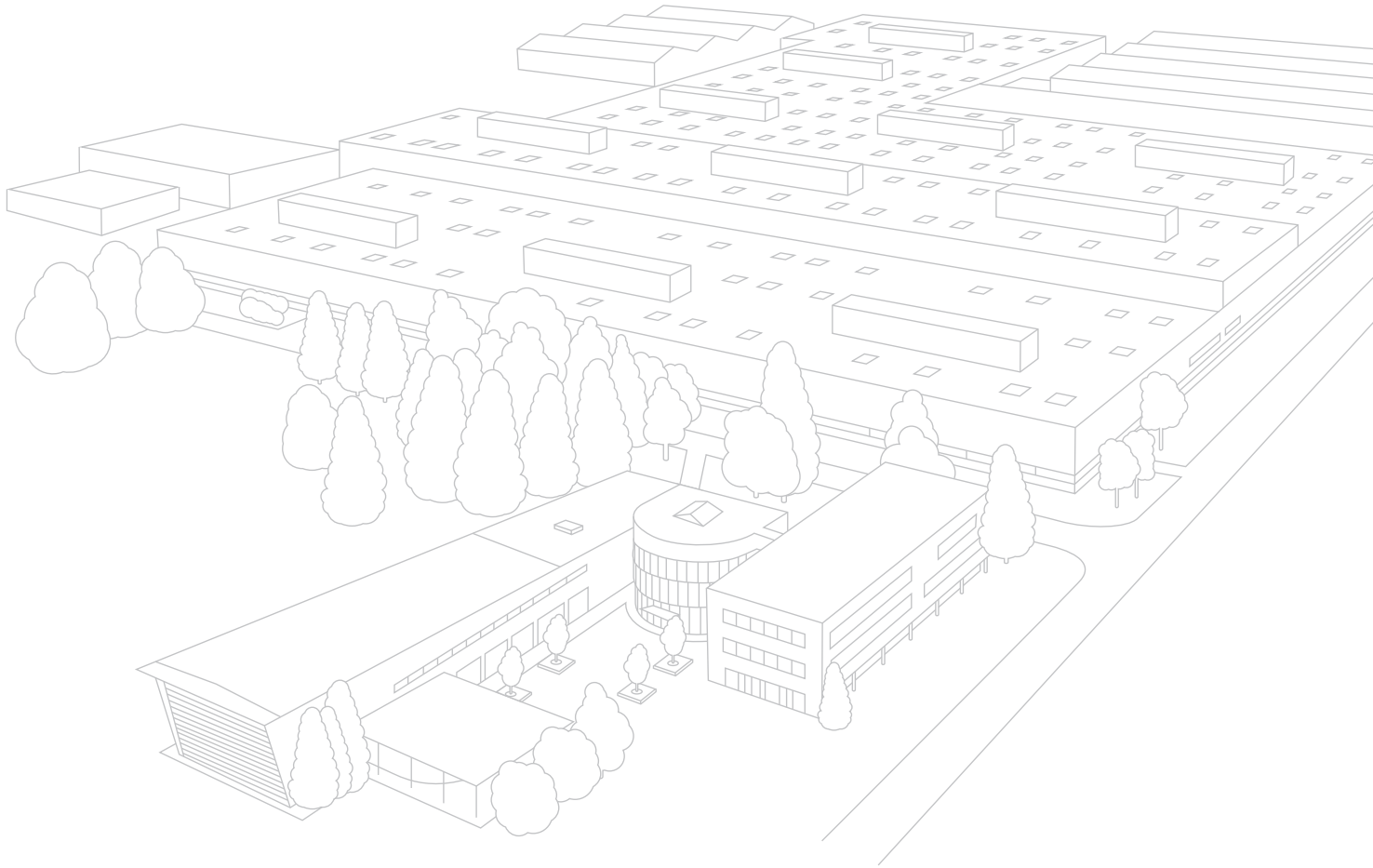
Optics				
New designation	Old designation	Optimized for	Radiation characteristics	Light distribution
TLC	TL33C	adaption zone	asymmetrical; counter-beam optics	
TLS	TL33S	interior zone or adaption of two-way traffic tunnel	symmetrical	

Standard road geometry or unique layout?
We have the perfect solution for every situation.
Get in touch:



Which optic fits your luminaire?
Learn more in our electronic product catalog.
View our outdoor lighting portfolio:





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