Lampada Sun Light

Lampada stradale LED per applicazioni a Energia Solare

	Sun Light XS	Sun Light S	Sun Light M
CARATTERISTICHE ILLUMINOTECNICHE			
Efficacia LED @ I_f=700mA, T_j=25°C*	124 [lm/W] -186 [lm/W]		
Temperatura di colore	2200K - 4000K		
Minimo CRI (color rendering index)	70		
IESNA TM-21 durata vita utile LED @ If=700mA *	> 60000 ore @ L90(10k) –Tsp=85°C		
Ottica	Asimmetrica per illuminazione stradale		
CARATTERISTICHE ELETTRICHE			
Alimentazione	10 ÷30 VDC Potenza da 12W a 130W		
Classe di isolamento elettrico	III (SELV)		
Connessione	3 poli (+VDC, -VDC, DIM) a leva Max. 4mm² Vano alimentatore separato da vano led Ingresso cavo con pressacavo PG9		
Riduzione di flusso luminoso	Automatica o comandata da un regolatore di carica FV Western CO		
Valore riduzione flusso luminoso	-30%		
Temperatura operativa	-20°C to 35°C (12V) / 45°C (24V)		
Temperatura di stoccaggio	-20°C / + 80°C		
CARATTERISTICHE GENERALI			
Grado di protezione	IP 66		
Grado di resistenza agli urti	IK09 (IEC - EN 62262)		
Dimensioni [mm]	479 x 225 x 77	576 x 255 x 87	628 x 300 x 93
Peso [kg]	2,8	4,55	5,60
Superficie laterale [m²]	0,037	0,048	0,058
Superficie pianta [m²]	0,11	0,15	0,19
Fissaggio	Braccio e testa-palo ∅60 mm		
Inclinazione	Si +/-20°		
Certificazioni	CE – EN60589-1; EN60589-2-3		
Garanzia	5 [anni]		
MATERIALI			
Corpo	Alluminio ADC12 pressofuso Verniciato a polvere colori: RAL 9006 - grigio chiaro RAL 7043 - grigio scuro		
Schermo	Vetro temperato spessore 5mm		
Ottica	PMMA (polimetilmetacrilato)		

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Versioni disponibili

MODELLI SUN LIGHT	CODICE		NUMERO LED	POTENZA LAMPADA @ Ta=25°C [W]	CORRENTE LED [mA]	FLUSSO NOMINALE LED @ Tj=85°C [lm]*	FLUSSO LAMPADA @ Ta=25°C [lm]**	EFFICIENZA LAMPADA @ Ta=25°C [lm/W]**
	SILVER (RAL 9006)	DARK GREY (RAL 7043)						
	TEMPERATURA DI COLORE 4000 K							
XS 12	020141	018972	16	12	261	2015	1850	154
XS 18	019218	018971	16	18	371	3121	2740	152
XS 24	018835	018850	16	24	500	4111	3502	146
XS 30	018968	018973	16	30	636	5096	4274	142
XS 36	018969	018974	16	38	797	6199	5075	134
XS 42	018970	018975	16	45	932	7061	5704	127
S 60	018976	-	32	60	636	10191	8422	140
S 72	018977	-	32	76	797	12399	10241	135
S 84	018978	-	32	90	932	14124	11666	130
M 110	018979	-	48	110	797	18470	15255	139
M 130	018981	-	48	130	932	21037	17377	134
XS PLUS	019848	019849	16	42	894	6913	5710	139
	TEMPERATURA DI COLORE 3000 K							
XS 12	020140	020138	16	12	261	1885	1557	136
XS 18	020139	020137	16	18	371	2913	2406	134
XS 24	019305	020136	16	24	500	3846	3177	132
XS 30	019306	019937	16	30	636	4754	3927	131
XS 36	019307	019936	16	38	797	5774	4768	125
XS 42	019308	020084	16	45	932	6569	5426	121
S 60	019556	-	32	60	636	9509	7855	131
S 72	019557	-	32	76	797	11547	9538	126
S 84	019558	-	32	90	932	13138	10852	121
XS PLUS	020154	020155	16	42	894	6432	5313	130
	TEMPERATURA DI COLORE 2700 K							
XS 12	-	020169	16	12	261	1858	1534	133
XS 18	-	020170	16	18	371	2870	2370	132
XS 24	020175	020171	16	24	500	3789	3130	130
XS 30	020176	020172	16	30	636	4684	3789	126
XS 36	020177	020173	16	38	797	5687	4698	124
XS 42	020178	020174	16	45	932	6472	5345	119
XS PLUS	020189	020191	16	42	894	6337	5234	128
	TEMPERATURA DI COLORE 2200 K							
XS 12	-	020183	16	12	261	1634	1350	118
XS 18	-	020184	16	18	371	2524	2085	116
XS 24	020179	020185	16	24	500	3333	2753	115
XS 30	020180	020186	16	30	636	4120	3402	113
XS 36	020181	020187	16	38	797	5002	4132	109
XS 42	020182	020188	16	45	932	5692	4701	105
XS PLUS	020190	020192	16	42	894	5573	4603	112

* Dati estrapolati da quelli rilasciati dal costruttore del LED
** Dati estrapolati da rilievi fotometrici eseguiti c/o laboratorio accreditato eseguiti in conformità allo standard UNI EN 13032-4
I valori indicati in questa scheda tecnica sono da considerarsi valori nominali con una tolleranza del +/-5%.
Al fine di favorire un costante aggiornamento dei propri prodotti, Western CO si riserva il diritto di apportare modifiche senza preavviso.

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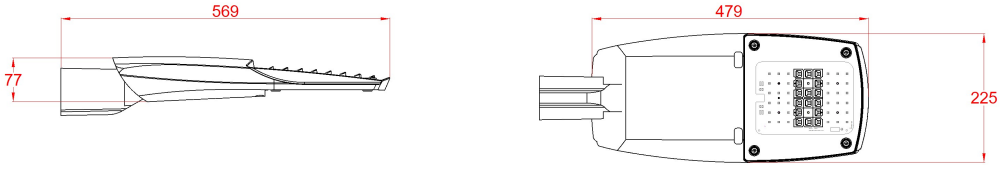
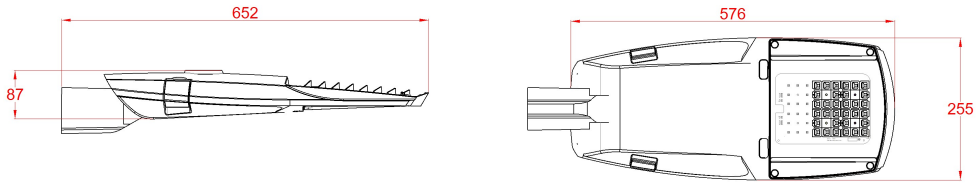
Dimensioni [mm]

SUN LIGHT XS / SUN LIGHT XS PLUS



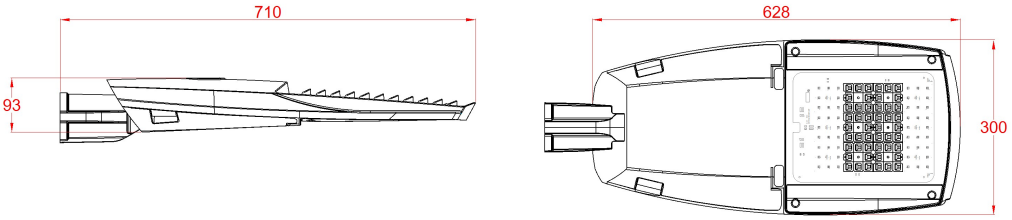
Aw = 0,1056 m^2
Peso = 3,5 Kg

SUN LIGHT S



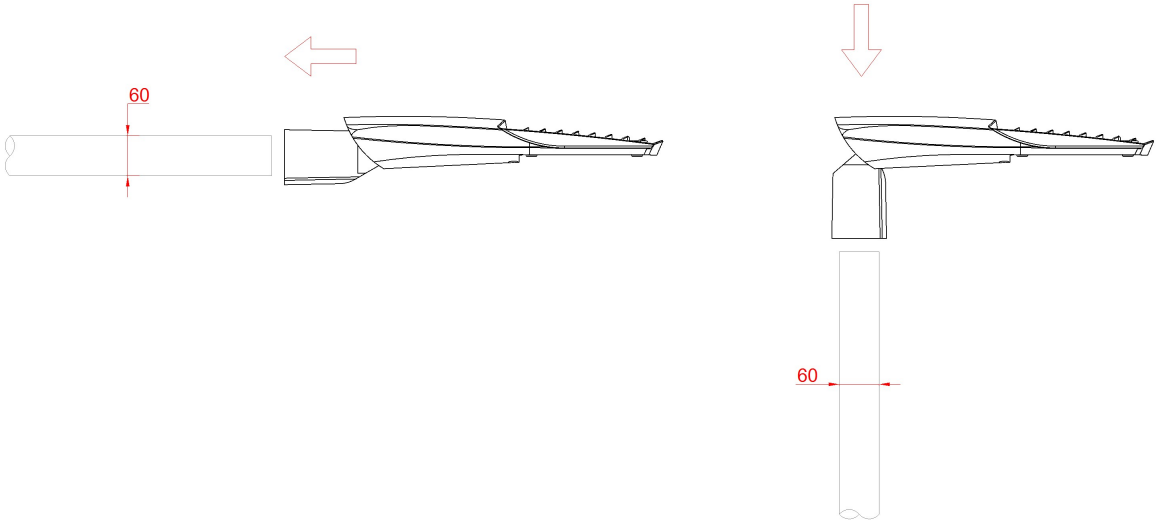
Aw = 0,1390 m^2
Peso = 4,8 Kg

SUN LIGHT M



Aw = 0,1890 m^2
Peso = 6,9 Kg

Installazione [mm]



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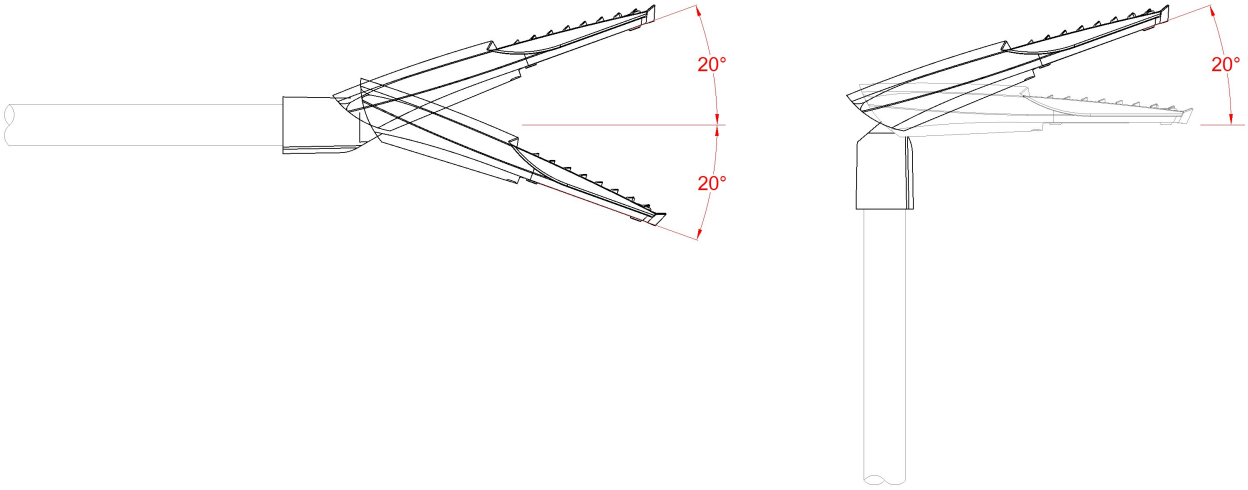
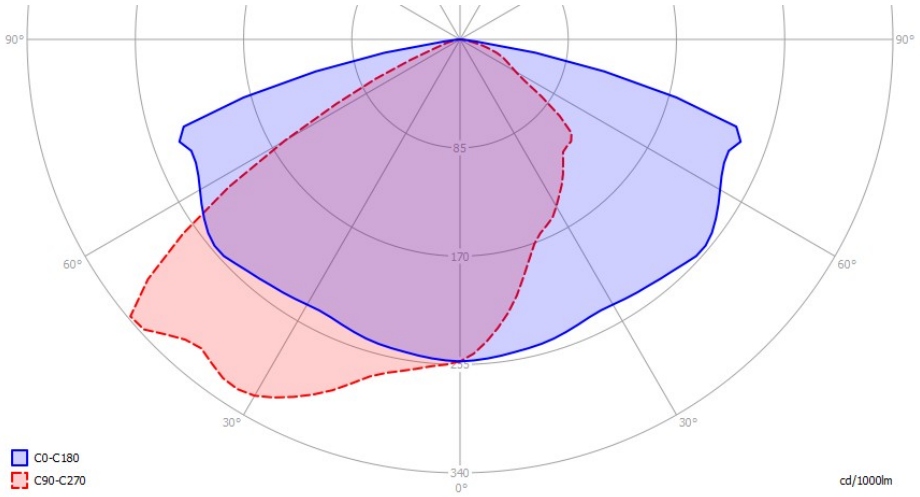
Regolazioni



Ottica stradale



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Sun Light Lamp

Street LED Luminaire for Solar Energy applications

	Sun Light XS	Sun Light S	Sun Light M
LIGHTING FEATURES			
LED source efficacy @ I_f=350mA, T_j=25°C*	124 [lm/W] -186 [lm/W]		
Color temperature	2200K - 4000K		
Minimum CRI (color rendering index)	70		
IESNA TM-21 LED useful lifetime @ I_f=700mA	> 60000 hours @ L90(10k) –Tsp=85°C		
Optic	Asymmetric for street lighting		
ELECTRICAL FEATURES			
Power supply	10 ÷ 30 VDC Power from 12W to 130W		
Electrical insulation class	III (SELV)		
Connection	3 poli (+VDC, -VDC, DIM) tool-free Max. 4mm² Power supply compartment separated from LED compartment. PG9 cable gland for wire connections		
Luminous flux reduction	Automatic or commanded from Western CO charge controller		
Luminous flux reduction value	-30%		
Operating temperature	-20°C to 35°C (12V) / 45°C (24V)		
Storage temperature	-20°C / + 80°C		
GENERAL FEATURES			
Protection degree	IP 66		
Impact resistance degree	IK09 (IEC - EN 62262)		
Dimensions [mm]	479 x 225 x 77	576 x 255 x 87	628 x 300 x 93
Weight [kg]	2.8	4.55	5.60
Side surface [m²]	0.037	0.048	0.058
Top surface [m²]	0.11	0.15	0.19
Fixing	Horizontal bracket or top of pole; diameter Ø60 mm		
Tilt angle	Si +/-20°		
Certifications	CE – EN60589-1; EN60589-2-3		
Warranty [years]	5		
MATERIALS			
Body	ADC12 die casting aluminum powder coated in colors: RAL 9006 - light gray RAL 7043 - dark gray		
Optical cover	Tempered Grass (5mm)		
Optical material	PMMA		

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WESTERN CO. ELECTRONIC EQUIPMENTS - SOLAR SYSTEMS	**Scheda tecnica | *Datasheet*** **Lampada fotovoltaica | *Photovoltaic lamp*** **Sun Light XS / S / M**		**Rev 1.6** **27-01-2026**

Available versions

SUN LIGHT MODELS	Code		LEDs Number	LUMINAIRE POWER @ Ta=25°C [W]	LED CURRENT [mA]	NOMINAL LED FLUX @ Tj=85°C [lm]*	LUMINAIRE FLUX @ Ta=25°C [lm]**	LUMINAIRE EFFICIENCY @ Ta=25°C [lm/W]**
	SILVER (RAL 9006)	DARK GREY (RAL 7043)						
	COLOR TEMPERATURE 4000 K							
XS 12	020141	018972	16	12	261	2015	1850	154
XS 18	019218	018971	16	18	371	3121	2740	152
XS 24	018835	018850	16	24	500	4111	3502	146
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XS PLUS	019848	019849	16	42	894	6913	5710	139
	COLOR TEMPERATURE 3000 K							
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S 84	019558	-	32	90	932	13138	10852	121
XS PLUS	020154	020155	16	42	894	6432	5313	130
	COLOR TEMPERATURE 2700 K							
XS 12	-	020169	16	12	261	1858	1534	133
XS 18	-	020170	16	18	371	2870	2370	132
XS 24	020175	020171	16	24	500	3789	3130	130
XS 30	020176	020172	16	30	636	4684	3789	126
XS 36	020177	020173	16	38	797	5687	4698	124
XS 42	020178	020174	16	45	932	6472	5345	119
XS PLUS	020189	020191	16	42	894	6337	5234	128
	COLOR TEMPERATURE 2200 K							
XS 12	-	020183	16	12	261	1634	1350	118
XS 18	-	020184	16	18	371	2524	2085	116
XS 24	020179	020185	16	24	500	3333	2753	115
XS 30	020180	020186	16	30	636	4120	3402	113
XS 36	020181	020187	16	38	797	5002	4132	109
XS 42	020182	020188	16	45	932	5692	4701	105
XS PLUS	020190	020192	16	42	894	5573	4603	112

* Rated data extrapolated from LED manufacturer datasheet

** Rated data extrapolated from photometric measures executed in an accredited laboratory according to UNI EN 13032-4 rule

The indicated values on this technical sheet are to be considered rated values subjected to a tolerance of +/-5%.

The characteristics of the product listed above are subjected to change without notice.

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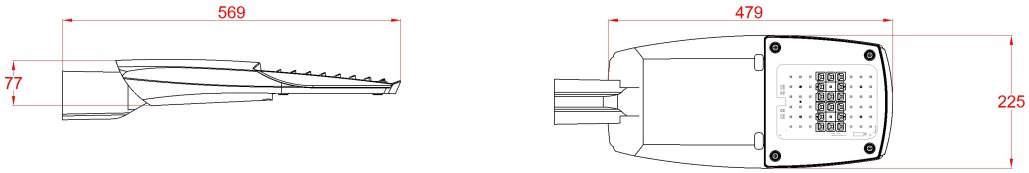
WESTERN CO.® ELECTRONIC EQUIPMENTS - SOLAR SYSTEMS	**Scheda tecnica | *Datasheet*** **Lampada fotovoltaica | *Photovoltaic lamp*** **Sun Light XS / S / M**		**Rev 1.6** **27-01-2026**

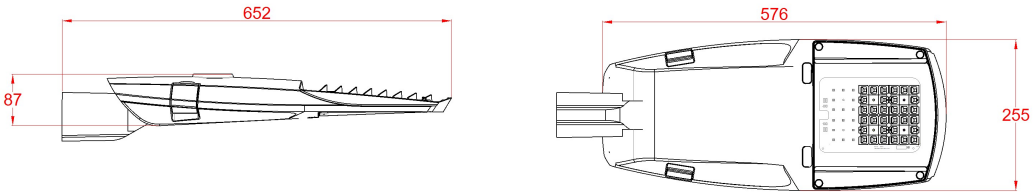
Dimensioni [mm]

SUN LIGHT XS



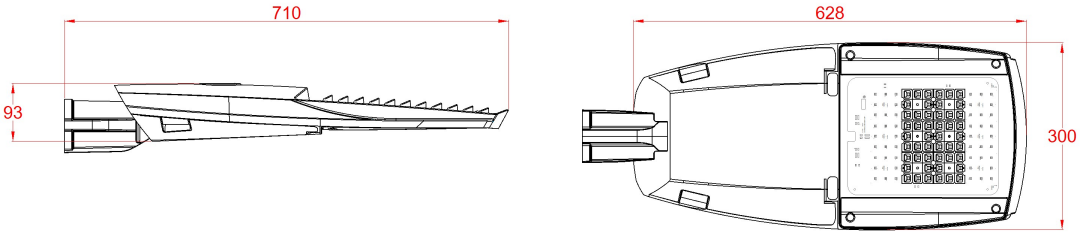
Aw = 0,1056 m^2
Weight = 3,5 Kg

SUN LIGHT S



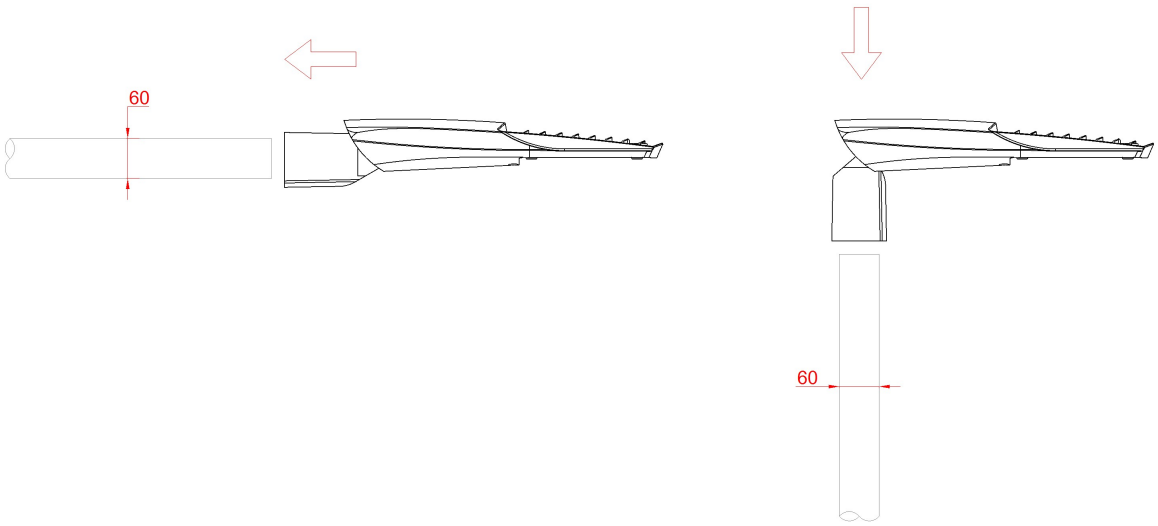
Aw = 0,1390 m^2
Weight = 4,8 Kg

SUN LIGHT M



Aw = 0,1890 m^2
Weight = 6,9 Kg

Installation [mm]



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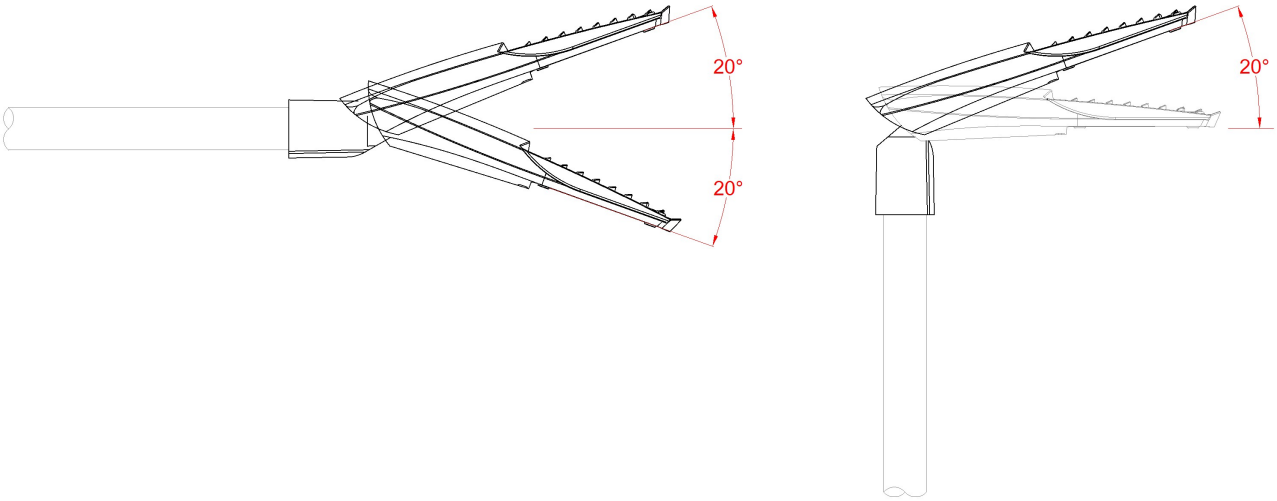
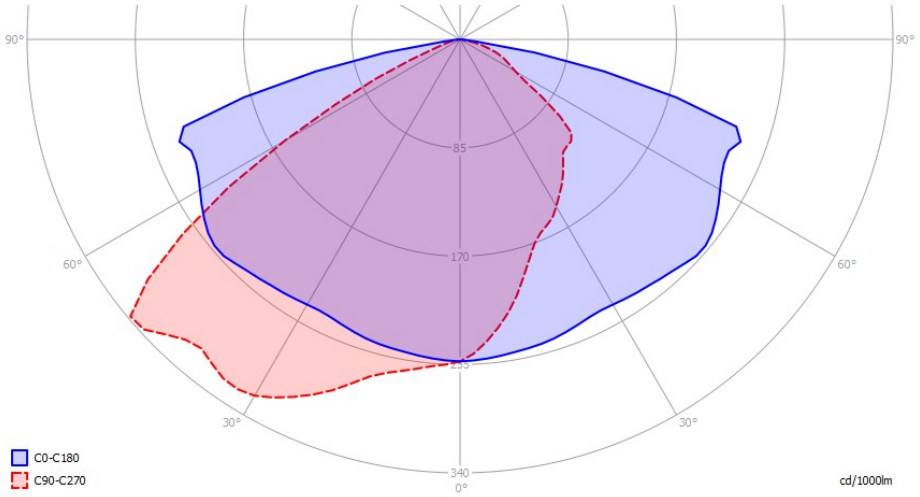
Adjustments



Street Optics



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