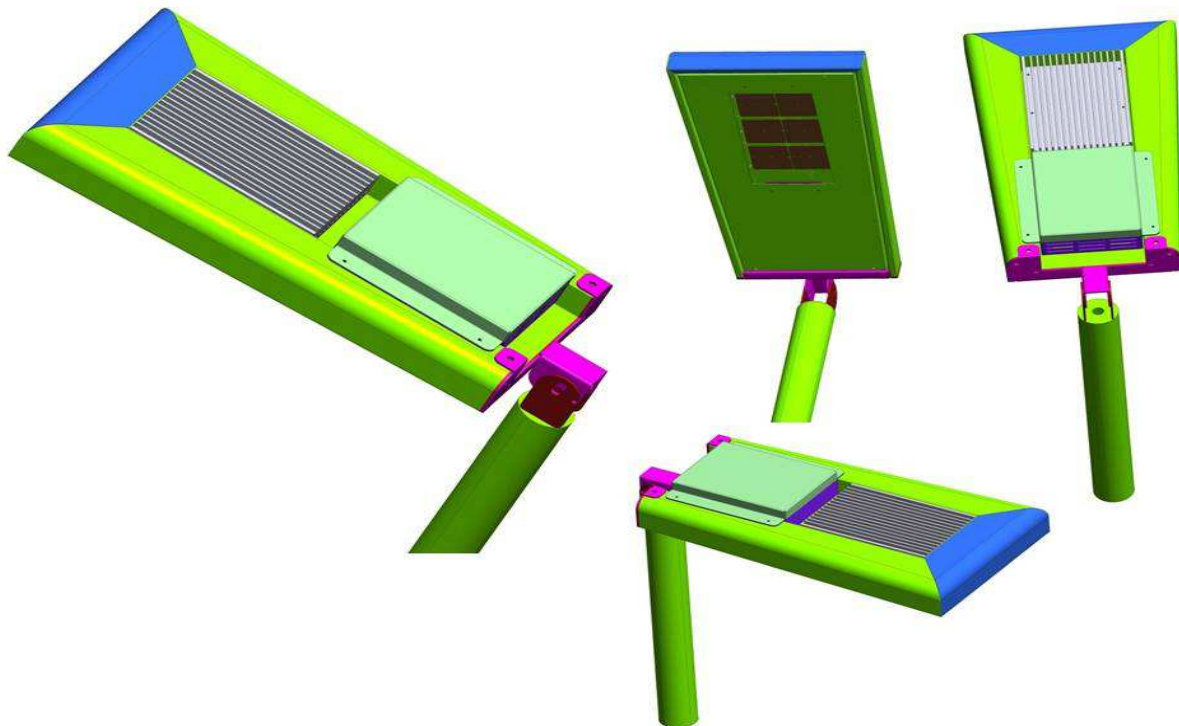
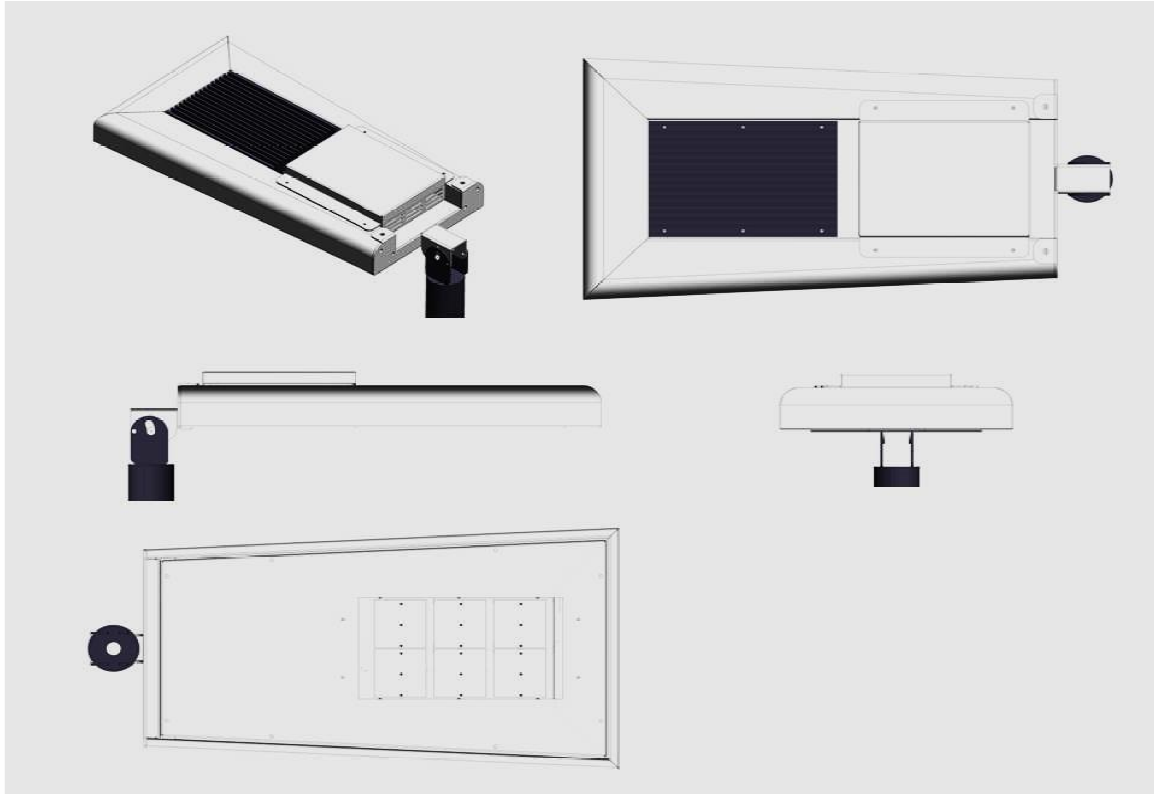


TECHNICAL SPECIFICATIONS STREET LIGHTINGS MOD. CAD



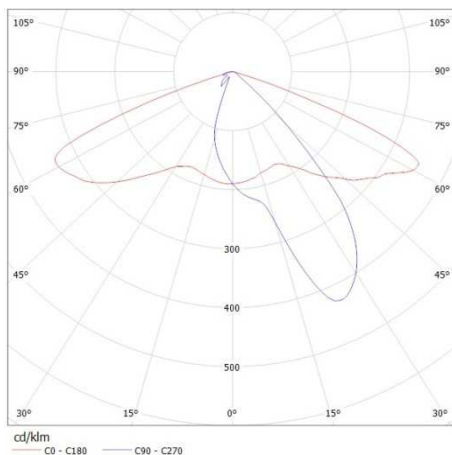
ENERGY CAD 1.24

TECHNICAL SPECIFICATIONS STREET LIGHTINGS

MOD CAD 24 LED

FIXTURE BODY TYPE: ALUMINIUM
OPERATING VOLTAGE: 230 Vac 50Hz annotation (1)
POWER SUPPLY TYPE: Switching constant current 1400mA (Input 90 ~ 264VAC ; 47 ~ 63Hz)
POWER SUPPLY: 2
LIGHT SOURCE: LED CREE XM-L
LED LIFE SPAN: 60,000 hours flow reduction of 20%
COLOR TEMPERATURE: COOL WHITE 5500°K
LED LUMINARY FLOW @700mA (test current):260 Lm minimum
LUMINARY EFFICACY : 111 Lm/W @25°C
NUMBER OF LED: 24
TOTAL SYSTEM POWER CONSUMPTION: 120W @ 25°C
TOTAL LUMINARY FLOW: 11232Lm
OPTIC GROUP: ASYMMETRIC OPTIC ANNOTATION (1)

OPTIC CHARACTERISTICS "T" VERSION ANNOTATION (1)



ASYMMETRIC OPTIC
STREET LIGHTING -SIDE
OPENING

ENERGY CAD 1.20

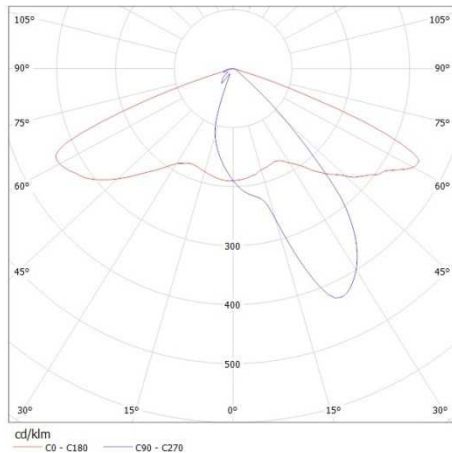
TECHNICAL SPECIFICATIONS STREET LIGHTINGS

MOD CAD 20 LED

FIXTURE BODY TYPE: ALUMINIUM
OPERATING VOLTAGE: 230 Vac 50Hz annotation (1)
POWER SUPPLY TYPE: Switching constant current 1400mA (Input 90 ~ 264VAC ; 47 ~ 63Hz)
POWER SUPPLY: 2
LIGHT SOURCE: LED CREE XM-L
LED LIFE SPAN: 60,000 hours flow reduction of 20%
COLOR TEMPERATURE: COOL WHITE 5500°K

LED LUMINARY FLOW @700mA (test current):260 Lm minimum
LUMINARY EFFICACY : 111 Lm/W @25°C
NUMBER OF LED: 20
TOTAL SYSTEM POWER CONSUMPTION: 100W @ 25°C
TOTAL LUMINARY FLOW: 9360Lm
OPTIC GROUP: ASYMMETRIC OPTIC ANNOTATION (1)

OPTIC CHARACTERISTICS "T" VERSION ANNOTATION (1)

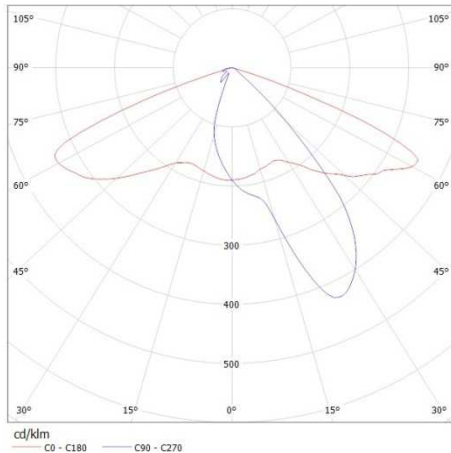


ASYMMETRIC OPTIC
STREET LIGHTING- SIDE
OPENING

ENERGY CAD 1.16 TECHNICAL SPECIFICATIONS STREET LIGHTINGS MOD CAD 16 LED

FIXTURE BODY TYPE: ALUMINIUM
OPERATING VOLTAGE: 230 Vac 50Hz ANNOTATION (1)
POWER SUPPLY TYPE: Switching constant current1400mA (Input 90 ~ 264VAC ; 47 ~ 63Hz)
POWER SUPPLY: 2
LIGHT SOURCE: LED CREE XM-L
LED LIFE SPAN: 60,000 hours flow reduction of 20%
COLOR TEMPERATURE: COOL WHITE 5500°K
LED LUMINARY FLOW @700mA (test current):260 Lm minimum
LUMINARY EFFICACY : 111 Lm/W @25°C
NUMBER OF LED: 16
TOTAL SYSTEM POWER CONSUMPTION: 80W @ 25°C
TOTAL LUMINARY FLOW: 7488Lm
OPTIC GROUP: ASYMMETRIC OPTIC ANNOTATION (1)

OPTIC CHARACTERISTICS "T" VERSION ANNOTATION (1)

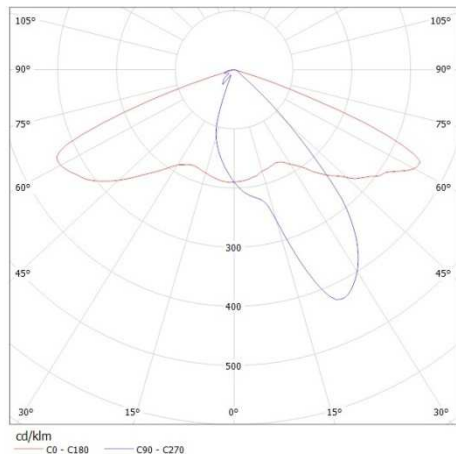


ASYMMETRIC OPTIC
STREET LIGHTING -
SIDE OPENING

ENERGY CAD 1.12 TECHNICAL SPECIFICATIONS STREET LIGHTINGS MOD CAD 12 LED

FIXTURE BODY TYPE: ALUMINIUM
OPERATING VOLTAGE: 230 Vac 50Hz ANNOTATION (1)
POWER SUPPLY TYPE: Switching constant current 1400mA (Input 90 ~ 264VAC ; 47 ~ 63Hz)
POWER SUPPLY: 1
LIGHT SOURCE: LED CREE XM-L
LED LIFE SPAN: 60,000 hours flow reduction of 20%
COLOR TEMPERATURE: COOL WHITE 5500°K
LED LUMINARY FLOW @700mA (test current): 260 Lm minimum
LUMINARY EFFICACY : 111 Lm/W @25°C
NUMBER OF LED: 12
TOTAL SYSTEM POWER CONSUMPTION: 60W @ 25°C
TOTAL LUMINARY FLOW: 5616Lm
OPTIC GROUP: ASYMMETRIC OPTIC ANNOTATION (1)

OPTIC CHARACTERISTICS "T" VERSION ANNOTATION (1)

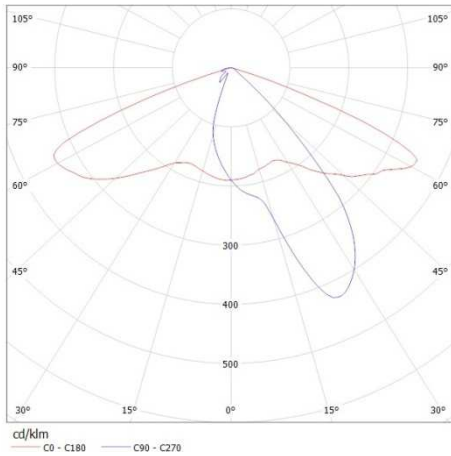


ASYMMETRIC OPTIC
STREET LIGHTING-SIDE
OPENING

ENERGY CAD 1.8 TECHNICAL SPECIFICATIONS STREET LIGHTINGS MOD CAD 8 LED

- FIXTURE BODY TYPE: ALUMINIUM
- OPERATING VOLTAGE: 230 Vac 50Hz ANNOTATION (1)
- POWER SUPPLY TYPE: Switching constant current 1400mA (Input 90 ~ 264VAC ; 47 ~ 63Hz)
- POWER SUPPLY: 1
- LIGHT SOURCE: LED CREE XM-L
- LED LIFE SPAN: 60,000 hours flow reduction of 20%
- COLOR TEMPERATURE: COOL WHITE 5500°K
- LED LUMINARY FLOW @700mA (test current): 260 Lm minimum
- LUMINARY EFFICACY : 111 Lm/W @25°C
- NUMBER OF LED: 8
- TOTAL SYSTEM POWER CONSUMPTION: 40W @ 25°C
- TOTAL LUMINARY FLOW: 3744Lm
- OPTIC GROUP: ASYMMETRIC OPTIC ANNOTATION (1)

OPTIC CHARACTERISTICS "T" VERSION ANNOTATION (1)



ASYMMETRIC OPTIC
STREET LIGHTING -
SIDE OPENING

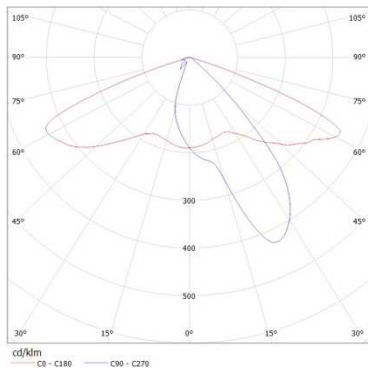
OPTIC CHARACTERISTICS

In addition, the asymmetric optical unit street is available in three versions:

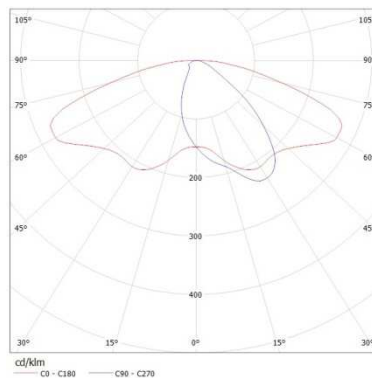
MODEL "T" indicated for the most narrow streets of the height of the pole and with spacing equal to 4 times the height of the pole

MODEL "DNW" indicated for streets where the pole height and width are similar road

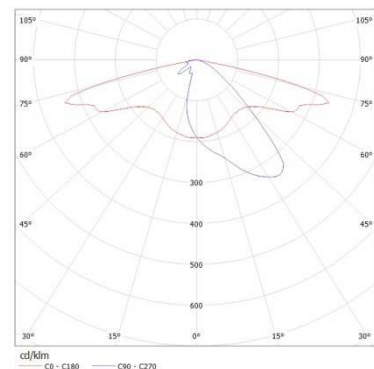
MODEL "DWC" indicated for streets where the spacing of the poles is very high, even 6 times the height of the pole



MODEL "T"



MODEL "DNW"



MODEL "DWC"

Summary of performance of fixture type

MODEL	ENERGY CAD 1.8	ENERGY CAD 1.12	ENERGY CAD 1.16	ENERGY CAD 1.20	ENERGY CAD 1.24
Consumption at 25°C	40W @ 25°C	60W @ 25°C	80W @ 25°C	100W @ 25°C	120W @ 25°C
Operatin voltage	Rete AC 90 ~ 264VAC	Rete AC 90 ~ 264VAC	Rete AC 90 ~ 264VAC	Rete AC 90 ~ 264VAC	Rete AC 90 ~ 264VAC
Frequency Range	50 ~ 60Hz	50 ~ 60Hz	50 ~ 60Hz	50 ~ 60Hz	50 ~ 60Hz
Power supply type	Switching a c.c.1400mA	Switching a c.c.1400mA	Switching a c.c.1400mA	Switching a c.c.1400mA	Switching a c.c.1400mA
Light source	LED CREE XM-L	LED CREE XM-L	LED CREE XM-L	LED CREE XM-L	LED CREE XM-L
Number of led	8 (2 x 4)	12 (3 x 4)	16 (4 x 4)	20 (5 x 4)	24 (6 x 4)
LED life span	60,000 hours flow reduction of 20%	60,000 hours flow reduction of 20%	60,000 hours flow reduction of 20%	60,000 hours flow reduction of 20%	60,000 hours flow reduction of 20%
Color temperature	Cool White 5500K	Cool White 5500K	Cool White 5500K	Cool White 5500K	Cool White 5500K
Luminary efficacy	111 Lm/W @25°C	111 Lm/W @25°C	111 Lm/W @25°C	111 Lm/W @25°C	111 Lm/W @25°C
Total Luminary Flow	3.744Lm	5.616Lm	7.488Lm	9.360Lm	11.232Lm
Optic Group	LEDIL Asymmetric street lighting optic annotation (1)	LEDIL Asymmetric street lighting optic annotation (1)	LEDIL Asymmetric street lighting optic annotation (1)	LEDIL Asymmetric street lighting optic annotation (1)	LEDIL Asymmetric street lighting optic annotation (1)
Fixture Body	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
Operating temperature	-35°C a +70°C	-35°C a +70°C	-35°C a +70°C	-35°C a +70°C	-35°C a +70°C
Protection level	IP63 (power supply IP67)	IP63 (power supply IP67)	IP63 (power supply. IP67)	IP63 power supply. IP67)	IP63 (power supply IP67)
Heat sink	Not necessary	Not necessary	Not necessary	drawn aluminum	drawn aluminum
Dimensions & weight	mm 600x350 x70 - kg 6	mm 600x350 x70 - kg 6	mm 600x350 x70 - kg 6	mm 600x350 x70 - kg 7,5	mm 600x350 x70 - kg 7,5