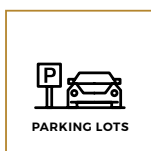


BURAN

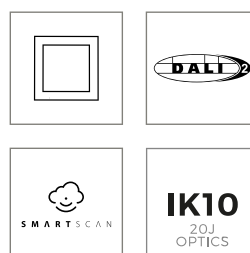


With the BURAN series, you can lend an entire residential area cohesion. The elegant, architectural design establishes the BURAN as a luminaire with class. It combines design with functionality. Because the BURAN is equipped to a high level as standard, you can exploit its energy-saving potential directly without incurring costs for optional extras. The luminaire is suitable for many applications: residential areas, cycle paths, roundabouts and suburb access roads.

STANDARD



OPTION





BENEFITS

- ▶ Choice of multiple light bundles and optics
- ▶ Long lifespan and light intensity retention
- ▶ Lighting solutions for better lighting comfort
- ▶ Uniform street scene thanks to the large lumen coverage
- ▶ Available in multiple colours

SMART LIGHTING



Zhaga-D4i light management system

SmartScan for independent applications like for post heights up to 4 metres.



Want to speak to a specialist?
Click on / scan the QR-code!

GENERAL INFORMATION

Recommended installation height	What is the recommended installation height?	Up to 8 metres
Post diameter	What is the post diameter?	Slide on: 48/60 mm Pole top: 48/60 or 76 mm
Light control system	Which system is the luminaire suitable for?	Zhaga-D4i light management system SmartScan
CE Marking	Does the product comply with the legal requirements for safety, health and the environment (CE marking)?	Yes
RoHS certified	Does the product comply with the requirements as stated in the RoHS guidelines? RoHS stands for Restriction of Hazardous Substances.	Yes
ENEC certified	Does the product comply with European safety standards ENEC?	Yes
ENEC+ certified	Does the product comply with European safety standards ENEC+?	Yes
Zhaga-D4i certified	Is the luminaire Zhaga-D4i certified?	Yes

HOUSING AND FINISH

Housing material	From what material is the luminaire's housing made?	Aluminium
Light cover	From what material is the light cover made?	Toughened safety glass Polycarbonate (Optica model)
Colours	In which RAL colours is the product available?	DB703 (Anthracite Grey) RAL 9007 (Grey Aluminium colour) RAL 9005 (Black) Uncoated
Dust and humidity tightness	Classification of resistance to dust and humidity?	IP66
Impact resistant	What is the impact resistance of the luminaire?	Housing: IK10 (20J) Glass: IK09 (10J) Optics: IK10 (20J)
Cable	Which cable is supplied as standard?	H05BQ-F 3 x 1 mm²
Cable access	Where is the cable access located?	Via the post adapter

OPERATING CONDITIONS

Operating temperature range	What is the operating temperature range?	- 40 °C to + 35 °C Protected from high temperatures
Luminous flux tolerance	What is the LED module's luminous flux tolerance?	+/- 5%
Power tolerance	What is the tolerance for the system power?	+/- 10%

OPERATING CONDITIONS - continued

Lifespan luminaire	What is the specified number of burning hours?	At least 100,000 hours at Ta 25 °C 25 years at 4,000 burning hours per year
Light intensity retention LED module	After the number of burning hours, L(x) indicates the percentage of light retention and B(x) the percentage number of LEDs that have deteriorated by more than the specified percentage.	L96/B10
Failure classification luminaire	What is the maximum failure rate for the specified lifespan?	F10 (90% survivors)

ELECTRICAL INFORMATION

Insulation class	With which electrical safety class I does the luminaire comply?	I II (option)
Rated voltage	What is the rated voltage in volts?	230-240V AC
Inrush current overview	How many luminaires can be run on an MCB 16A B-type fuse?	<6,000 lm Number Non dimming 32 max. DALI dimming 30 max. D4i 30 max.
		6,000 - 9,720 lm Number Non dimming 10 max. DALI dimming 10 max. D4i 17 max.
Surge	To what level is the luminaire protected from surge as standard?	10kV
Active surge protection	What is the optional protection for surge?	15kV/7.5kA (Phase-Zero) (option) 10kV/5kA (F/N-Earth) (option)
Optional Sensor	Is there an optional (presence) sensor?	Via Zhaga book-18 SmartScan
Control protocols	With which control protocol is the luminaire compatible?	Zhaga-D4i (expansion of DALI-2)

OPTICAL INFORMATION

Lumen range (LED board)	Various LED boards and with Lumen range (lumen dependent on optics) (power and lumen for each colour/CRI in annex)	800 - 9,720 lm
LED colour temperature	In which colour temperatures is the luminaire available?	1,700K (amber) 2,200K (candlelight) 2,700K (very warm white) 3,000K (warm white) 4,000K (neutral white)

OPTICAL INFORMATION- continued		
Colour rendering index (CRI)	To what extent does the light source faithfully reproduce the colours of the objects (scale 0-100)?	>70 >80 (option)
LED module	With which light technology is the luminaire available?	LED2WELL Core LED2WELL Pro LED2WELL Max LED2WELL Flex
Optics	Which light bundles are possible?	See page 15
Dark-sky possible?	Is there a maximum for stray light that shines upwards?	Yes, for specific light distribution and 3,000K or lower

TILT ANGLE POLE TOP

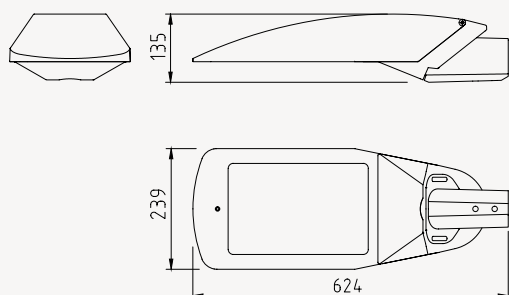


TILT ANGLE SLIDE ON

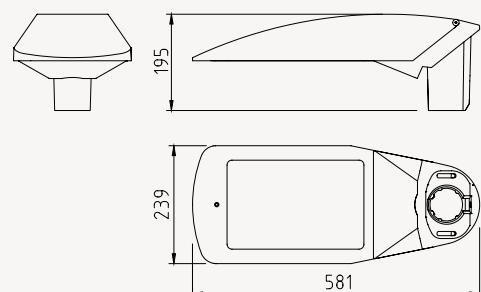


DIMENSIONS WITH POLE SECTION

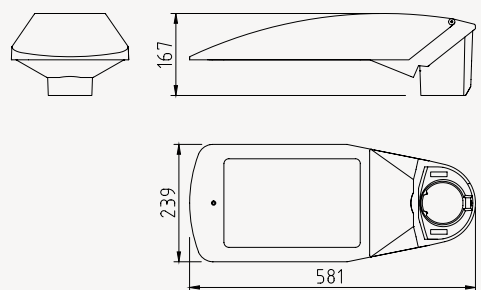
48/60 slide on



48/60 pole top



76 pole top



DIMENSIONS AND MOUNTING

L x W x H in mm	624 x 239 x 135 (slide on 48/60)
	581 x 239 x 195 (pole top 48/60)
	581 x 239 x 167 (pole top 76)
Weight in kg (basic model)	+/- 6 kg (depending on model)
Mounting possibilities	Pole top: 60 mm / 76 mm
	Slide on: 48 mm / 60 mm
	Tilt: pole top (60 mm) adjustable 0-15 degrees in 3 steps.
	Tilt: pole top (76 mm) adjustable 0-10 degrees in 2 steps.
	Tilt: pole top (48/ 60 mm) adjustable 0 to -15 degrees in 3 steps.

MODEL



FLAT GLASS

The BURAN is supplied as standard with a clear light cover made from safety glass providing a uniform light scene.

OPTICA

The OPTICA version of the BURAN is supplied with a polycarbonate light cover for a diffused light scene that is very easy on the eyes.



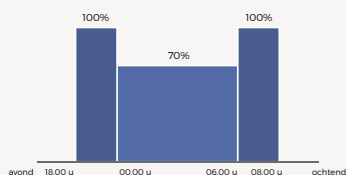
SPHERICAL GLASS

For functional lighting with extra visual orientation a spherical glass is a good option.

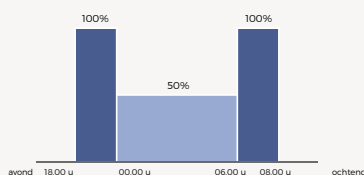




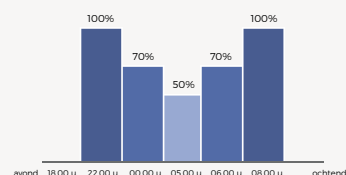
In addition to using LED, even more energy can be saved or light pollution avoided employing BURAN luminaires supplied with a factory-set dimming schedule (1A, 2A, 3A, 4A or 5A). The BURAN luminaire will autonomously dim when appropriate once the night rhythm has been established and return to 100% in the morning.



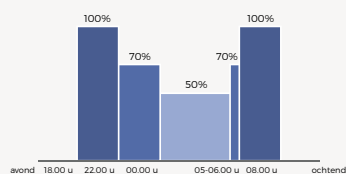
1A - 15% ENERGY SAVING



2A - 23% ENERGY SAVING

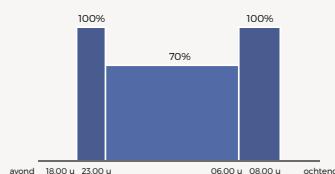


3A - 28% ENERGY SAVING



4A - 34% ENERGY SAVING

Most energy-saving dimming schedule



5A - 20% ENERGY SAVING

Disclaimer: whether the percentages of the relevant dimming regime are actually achieved depends in part on the chosen configuration of the luminaire.



All BURAN luminaires support the CLO facility, in other words the typical light degradation of about 10% over the lifespan can be continually compensated over the lifespan through gradually increasing the power to ensure the light intensity remains at L100.



BURAN luminaires are Zhaga-D4i Certified. This certificate guarantees that any Zhaga-D4i Light Management System recognises these luminaires - with their characteristics and can incorporate them in the system. BURAN luminaires can be supplied with one or two Zhaga-book 18 connectors so that, apart from a node, a sensor can also be connected. Thanks to this, BURAN luminaires are suitable for the latest developments in the fields of smart lighting and connectivity.



Employing SmartScan sensors, movement and lighting levels can be detected and via mutual communication and smart software luminaires can be harmonised to ensure optimum lighting levels. SmartScan can typically be employed for short pole distances (bicycle paths, car parking sites) or where the exterior lighting is combined with interior lighting. Additionally, the SmartScan monitor feature can ensure that the maintenance costs are kept in check.

LED²WELL CORE Our **energy-saving** lighting solutions

Number of LEDs	Lumen	STANDARD AMBER System capacity (W)	CRI 70 (Option: CRI 80)				STANDARD 4000K System capacity (W)
			STANDARD 2200K System capacity (W)	STANDARD 2700K System capacity (W)	STANDARD 3000K System capacity (W)	STANDARD 3500K System capacity (W)	
8	800	-	7,4	6,0	5,7		5,5
	1050	-	9,6	7,8	7,4		7,2
	1200	-	10,9	8,9	8,3		8,0
	1350	-	12,4	9,9	9,2		8,9
	1500	-	12,7	10,6	9,7		9,7
	1600	-	13,5	11,5	10,4		10,4
	1800	-	15,2	12,8	11,7		11,6
	2000	-	16,8	14,2	13,1		12,9
	2150	-	18,1	15,3	14,2		14,2
	2300	-	19,4	16,6	15,3		15,4
	2500	-	21,2	18,5	16,8		16,9
	2750	-	23,3	20,8	18,9		19,0
	3000	-	-	23,2	20,9		20,8
	3240	-	-	-	22,8		22,9
	3500	-	-	-	25,2		25,1

LED²WELL CORE Our **energy-saving** lighting solutions

			CRI 70 (Option: CRI 80)			
Number of LEDs	Lumen	STANDARD AMBER System capacity (W)	STANDARD 2200K System capacity (W)	STANDARD 2700K System capacity (W)	STANDARD 3000K System capacity (W)	STANDARD 4000K System capacity (W)
12	1050	-	8,1	7,4	7,1	6,8
	1200	-	9,1	8,4	8,0	7,6
	1350	-	10,2	9,5	8,9	8,4
	1500	-	11,5	10,5	9,7	9,0
	1600	-	12,3	11,2	10,2	9,5
	1800	-	13,9	12,5	11,6	10,6
	2000	-	15,5	13,9	12,9	11,8
	2150	-	16,3	15,0	14,2	12,5
	2300	-	16,6	16,0	15,1	13,4
	2500	-	18,3	17,5	16,5	14,6
	2750	-	20,5	19,3	18,3	16,0
	3000	-	23,0	21,1	19,9	17,5
	3240	-	25,1	23,2	21,8	19,4
	3500	-	27,5	24,0	23,0	21,2
	3600	-	28,4	24,7	23,9	22,0
	3780	-	29,8	26,0	25,3	23,3
	4000	-	32,2	27,5	27,1	24,9
	4200	-	-	28,9	28,7	26,3
	4320	-	-	29,7	29,7	27,2
	4860	-	-	-	34,2	31,1

LED²WELL CORE Our **energy-saving lighting solutions**

Number of LEDs	Lumen	CRI 70 (Option: CRI 80)				
		STANDARD AMBER System capacity (W)	STANDARD 2200K System capacity (W)	STANDARD 2700K System capacity (W)	STANDARD 3000K System capacity (W)	STANDARD 4000K System capacity (W)
16	1200	12,4	9,0	8,1	8,2	8,3
	1350	-	10,3	9,0	9,0	9,1
	1500	-	11,4	9,9	9,8	9,9
	1600	16,3	11,5	10,4	10,3	10,4
	1800	-	12,7	11,5	11,4	11,4
	2000	-	14,4	12,9	11,9	11,8
	2150	-	15,4	13,8	12,8	12,6
	2300	-	16,5	14,8	13,7	13,5
	2500	-	17,9	16,3	14,9	14,7
	2750	-	20,3	18,0	16,5	16,2
	3000	-	23,0	19,6	17,8	17,9
	3240	-	25,4	21,5	19,5	19,6
	3500	-	28,0	23,6	21,2	21,2
	3750	-	30,5	25,4	23,0	23,1
	4000	-	33,1	27,0	24,5	24,5
	4200	-	35,3	28,5	27,2	25,7
	4320	-	-	30,1	27,9	26,6
	4500	-	-	32,3	29,6	28,1
	4860	-	-	34,51	32,0	30,1
	5000	-	-	35,73	33,1	31,1
	5200	-	-	37,3	34,6	32,4
	5670	-	-	-	38,1	35,7
	6000	-	-	-	40,6	38,0

LED²WELL CORE Our **energy-saving** lighting solutions

			CRI 70 (Option: CRI 80)			
Number of LEDs	Lumen	STANDARD AMBER System capacity (W)	STANDARD 2200K System capacity (W)	STANDARD 2700K System capacity (W)	STANDARD 3000K System capacity (W)	STANDARD 4000K System capacity (W)
24	2000	-	14,6	13,5	12,3	12,8
	2350	-	17,0	15,5	14,1	14,8
	2500	-	18,0	16,4	14,8	15,6
	2750	-	18,7	17,9	15,9	17,0
	3000	-	20,6	19,4	17,3	18,4
	3240	-	22,5	20,8	18,6	19,8
	3500	-	24,5	22,3	19,8	21,2
	3750	-	26,5	23,1	21,3	22,8
	4000	-	28,8	25,1	21,8	24,4
	4320	-	31,0	27,3	23,5	26,3
	4500	-	32,5	28,6	24,8	27,6
	4860	-	35,5	30,3	26,6	30,1
	5000	-	36,6	31,9	27,4	30,8
	5200	-	39,0	33,5	28,6	32,0
	5670	-	43,1	37,0	31,5	35,4
	6000	-	46,2	39,2	33,3	38,1
	6480	-	-	46,8	37,9	40,9
	6840	-	-	50,2	40,2	43,6
	7290	-	-	55,0	43,5	42,6
	7560	-	-	58,0	45,3	48,6

LED²WELL CORE Our **energy-saving** lighting solutions

			CRI 70 (Option: CRI 80)			
Number of LEDs	Lumen	STANDARD AMBER System capacity (W)	STANDARD 2200K System capacity (W)	STANDARD 2700K System capacity (W)	STANDARD 3000K System capacity (W)	STANDARD 4000K System capacity (W)
32	2750	-	19,3	17,2	17,2	16,0
	3000	28,6	21,1	18,9	18,7	17,5
	3240	-	22,8	20,3	20,1	18,8
	3500	-	24,7	21,9	21,6	20,2
	3780	-	26,8	23,6	23,3	21,8
	4000	-	28,4	25,1	24,6	23,1
	4320	-	30,7	27,1	26,5	24,9
	4860	-	34,8	30,6	29,8	28,0
	5200	-	37,3	32,8	31,9	29,9
	5670	-	40,8	35,8	34,8	32,4
	6000	-	43,3	37,9	36,9	34,2
	6480	-	47,2	41,1	39,9	37,0
	6840	-	50,4	43,7	41,8	39,1
	7290	-	54,4	47,0	44,7	41,7
	7560	-	56,8	48,9	47,1	43,8
	7800	-	58,9	50,6	48,9	45,4
	8000	-	60,6	52,1	50,3	46,6
	8100	-	-	52,8	51,0	47,2
	8640	-	-	56,8	55,1	50,8
	9720	-	-	-	63,2	58,6

LED²WELLPRO Our energy-saving solutions for **ultimate lighting comfort**

Number of LEDs	Lumen	CRI 80		
		STANDARD 2200K System capacity (W)	STANDARD 2700K System capacity (W)	STANDARD 3000K System capacity (W)
16	650	5,0	-	-
	800	5,9	5,6	5,4
	1050	7,6	7,1	6,9
	1200	8,5	8,0	7,8
	1350	9,4	8,8	8,5
	1500	10,4	9,7	9,4
	1600	11,1	10,4	10,1
	1800	-	-	11,2
32	1050	7,5	7,0	6,7
	1200	8,3	7,8	7,6
	1350	9,1	8,6	8,4
	1500	10,1	9,5	9,2
	1600	10,6	10,1	9,7
	1800	11,8	11,2	10,8
	2000	13,0	12,3	11,9
	2150	13,9	13,2	12,7
	2200	14,2	13,5	13,0
	2300	15,0	14,0	13,5
	2500	16,3	15,3	14,7
	2750	18,1	16,9	16,3
	3000	19,8	18,6	17,9
	3240	-	20,2	19,4
	3500	-	-	19,8

LED²WELLPRO Our energy-saving solutions for **ultimate lighting comfort**

Number of LEDs	Lumen	CRI 80		
		STANDARD 2200K System capacity (W)	STANDARD 2700K System capacity (W)	STANDARD 3000K System capacity (W)
64	1600	11,1	11,0	11,2
	1800	12,4	11,9	12,1
	2000	13,7	13,1	13,2
	2150	14,4	13,8	14,0
	2200	14,7	14,0	14,1
	2300	15,3	14,5	14,7
	2500	16,7	15,5	15,8
	3000	19,6	18,4	18,2
	3240	21,1	19,7	19,5
	3500	22,1	21,2	20,8
	3780	24,3	22,7	22,2
	4000	25,6	24,0	23,4
	4200	26,9	25,1	24,4
	4320	27,6	25,8	25,0
	4860	31,5	39,2	28,3
	5200	33,9	31,5	30,4
	5670	37,1	34,6	33,3
	6000	39,4	36,8	35,3
	6480	-	39,7	38,3
	6840	-	-	40,0

LED²WELL MAX Maximum energy savings

Number of LEDs	Lumen	CRI 70	
		STANDARD 3000K System capacity (W)	STANDARD 4000K System capacity (W)
8	800	5,4	5,3
	1050	6,8	6,7
	1200	7,6	7,5
	1350	8,5	8,3
	1500	9,3	9,1
	1600	9,8	9,6
	1800	10,9	10,7
	2000	12,1	11,8
	2150	13,1	12,7
	2300	14,0	13,5
	2500	15,3	14,8
	2750	17,0	16,4
	3000	18,7	17,9
	3240	20,4	19,5
	3500	22,3	21,3

LED²WELL MAX Maximum energy savings

Number of LEDs	Lumen	CRI 70	
		STANDARD 3000K System capacity (W)	STANDARD 4000K System capacity (W)
12	1050	6,7	6,5
	1200	7,6	7,3
	1350	8,4	8,1
	1500	9,1	8,8
	1600	9,7	9,3
	1800	10,8	10,3
	2000	11,9	11,3
	2150	12,7	12,1
	2300	13,6	12,9
	2500	14,7	14,0
	2750	16,2	15,3
	3000	17,6	16,8
	3240	19,1	18,1
	3500	20,7	19,7
	3600	21,3	20,3
	3780	22,5	21,4
	4000	24,5	23,1
	4200	26,0	24,3
	4320	26,9	25,1
	4860	30,9	28,6

LED²WELL MAX Maximum energy savings

Number of LEDs	Lumen	CRI 70	
		STANDARD 3000K System capacity (W)	STANDARD 4000K System capacity (W)
16	1200	7,7	7,6
	1350	8,4	8,4
	1500	9,3	9,2
	1600	9,8	9,7
	1800	10,9	10,8
	2000	12,0	11,9
	2150	12,7	12,7
	2300	13,9	13,8
	2500	14,7	14,6
	2750	16,1	16,0
	3000	17,5	17,4
	3240	18,9	18,8
	3500	20,3	20,3
	3750	22,7	22,3
	4000	24,2	23,7
	4200	25,5	25,0
	4320	26,3	25,8
	4500	27,5	27,0
	4860	29,9	29,3
	5000	30,9	30,3
	5200	32,2	31,6
	5670	35,6	34,8
	6000	37,9	37,2

LED²WELL MAX Maximum energy savings

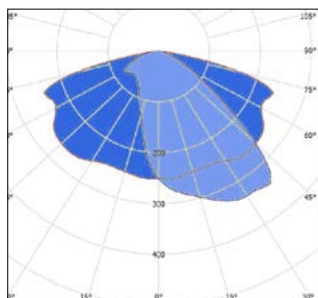
Number of LEDs	Lumen	CRI 70	
		STANDARD 3000K System capacity (W)	STANDARD 4000K System capacity (W)
24	2000	11,9	11,5
	2350	14,0	13,2
	2500	14,7	14,0
	2750	16,0	15,3
	3000	17,3	16,6
	3240	18,6	17,8
	3500	20,0	19,1
	3750	21,6	20,6
	4000	22,8	21,8
	4320	24,5	23,4
	4500	25,5	24,5
	4860	27,7	26,6
	5000	28,6	27,4
	5200	29,8	28,6
	5670	32,6	31,5
	6000	34,6	33,5
	6480	37,5	36,4
	6840	39,7	38,7
	7290	42,3	41,5
	7560	44,0	43,1

LED²WELL MAX Maximum energy savings

Number of LEDs	Lumen	CRI 70	
		STANDARD 3000K System capacity (W)	STANDARD 4000K System capacity (W)
32	2750	16,5	15,5
	3000	17,8	16,8
	3240	19,0	18,1
	3500	20,3	19,6
	3780	21,7	21,0
	4000	22,9	22,2
	4320	24,6	23,8
	4860	27,5	26,6
	5200	29,3	28,4
	5670	31,8	31,0
	6000	33,6	32,8
	6480	36,2	35,4
	6840	38,2	37,4
	7290	40,7	39,9
	7560	42,5	41,6
	7800	43,9	43,0
	8000	45,1	44,1
	8100	45,7	44,7
	8640	48,9	47,8
	9720	55,6	54,2

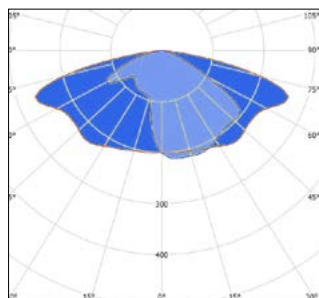
LED²WELL CORE A selection of the possibilities

BURAN CA01 (LC-N)



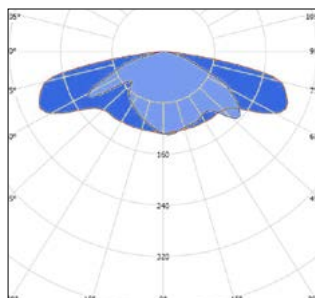
A-SYMMETRIC
Average wide road

BURAN CA02 (LC-R)



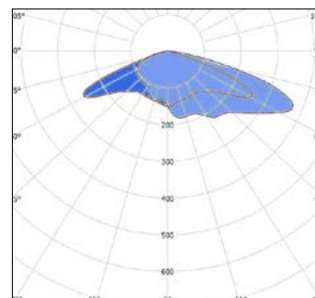
WIDE BEAM
Stray light

BURAN CA07 (LC-A3)



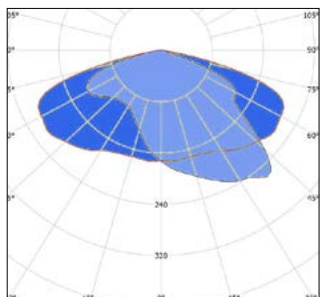
WIDE BEAM
High uniformity

BURAN CA10 (LC-O3)



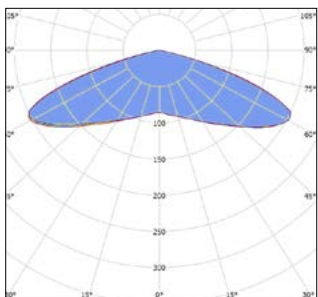
A-SYMMETRIC
Deep-beaming large terrain

BURAN CA04 (LC-M)



STRAY LIGHT
Wide beam,
High uniformity

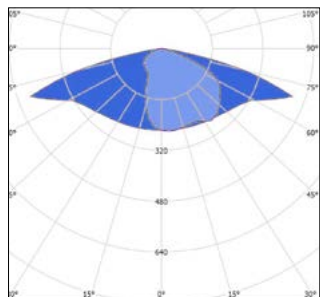
BURAN CR01 (LC-S)



CIRCULAR BEAM
High uniformity, Glare
reduction

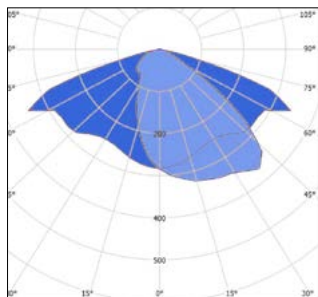
LED²WELLPRO A selection of the possibilities

BURAN PA01



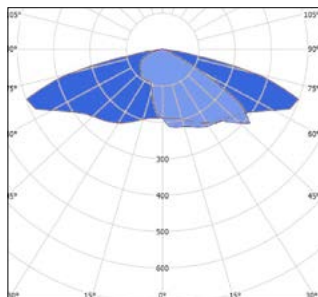
A-SYMMETRIC
Average wide road

BURAN PA02



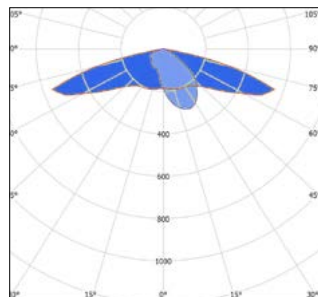
WIDE BEAM
Stray light

BURAN PA03



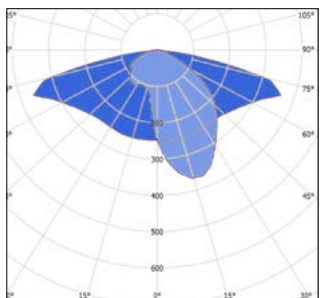
WIDE BEAM
High uniformity

BURAN PA04



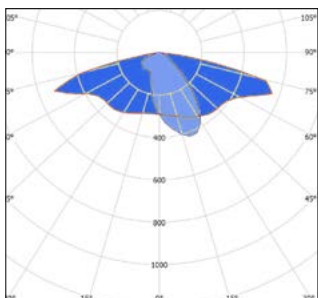
A-SYMMETRIC
Narrow profile

BURAN PA05



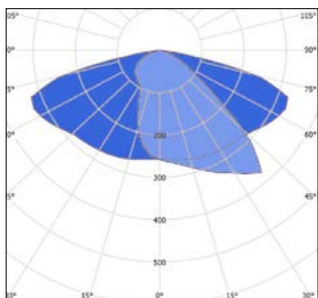
A-SYMMETRIC
Narrow profile

BURAN PA06



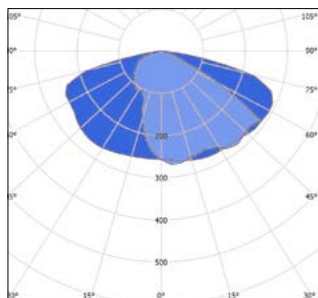
A-SYMMETRIC
Narrow profile

BURAN PA07



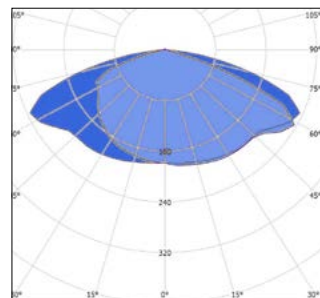
STRAY LIGHT
Wide beam, medium
traffic road

BURAN PA08



CIRCULAR BEAM
High uniformity, Glare
reduction

BURAN PA09



A-SYMMETRIC
High uniformity, Glare
reduction