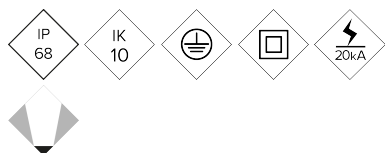


APIRO

Floodlight

# IRIS-O RGBW



Recessed adjustable ground-level projector with circular RGBW technology, featuring a closure of hardened tempered glass of 10mm and a resistance level of up to 2000kg according to EN 60598-2-13. The family includes three different sizes and a wide range of powers, ranging from 20W to 60W. Prepared for regulation using the DMX-512 protocol.

## MAIN FEATURES:

- High efficiency. Up to 100 lm / W real.
- 2 different sizes: 40W and 60W.
- Aluminum injection body.
- Highly robust 10mm hardened tempered glass.
- Dimming control through DMX-512 protocol.
- Waterproof silicone ring resistant to high temperatures, corrosion-resistant PP plastic.
- Stainless steel screws and frame.

## APPLICATIONS:

- Commercial and Tourist Streets
- Architectural; Buildings and Monuments
- Accent Lighting; Trees and Sculptures

## DETAILS:



Static weight resistance up to 5000kg



Optics with anti-glare effect.

[Project sheet](#) | [CAD](#) | [HD image](#)

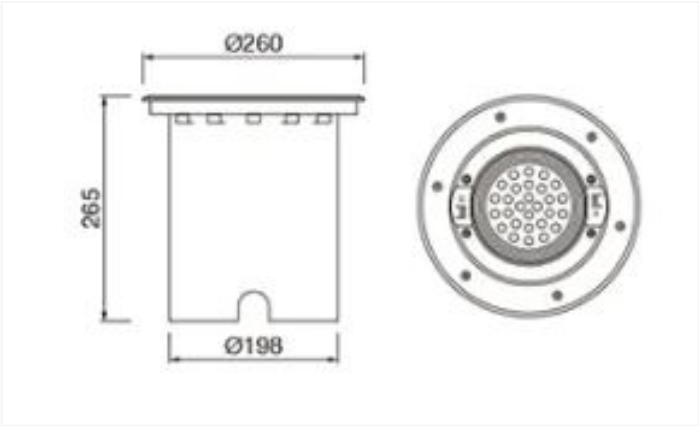
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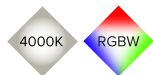
# SPECIFICATIONS :

Housing material:	High pressure die-cast aluminium EN AC-43000, EN AC-43100, EN AC-43400, EN AC-44100, EN AC-47100 according to the UNE EN 1706 standard
Diffuser (optic system enclosure):	Tempered 5 mm safety glass. UV filter
Fixing elements:	Stainless steel 18/8 - AISI 304
Housing:	Double compartment: driver / LED module
Sealing gaskets:	Silicone foam
IP rating (luminaire):	IP68
IP rating (optic system):	IP68
IK rating (impact resistance):	IK10
LEDs thermal dissipation:	Thermal dissipation through finless luminaire body, without conductive fluids. Passive convection dissipation ensuring thermal contact with the LED modules through a high-conductivity thermal transfer material
Anti-condensation valve:	Pressure-balancing valve to ensure moisture release, avoid condensation and maintain the luminaire IP tightness
Paint and finishes:	Resistant to corrosion
Colour:	Chrome
Mounting:	Flush through mounting base
Tilt range:	From +/- 15
Maintenance:	Modular concept for easy component replacement: LEDs, drivers, SPD
Recommended mounting height:	Up to 8m
Driver:	Constant current adjustable and programmable driver on different levels (0-10V, 1-10V, DALI2, NFC). Embedded in the luminaire, pre-wired on a galvanised steel plate.
Flow Reduction:	Double level with control line, autonomous multi-level dimming or virtual midnight, flow reduction at the head-end.
Ready4IOT - Connectivity:	Dimming control compatible with any DMX-512 system. Optionally, a controller with internal memories of lighting scenes can be supplied. Includes programming software.
Surge protection device (SPD):	Type T2+T3, 10kV and 20kA transient surge protector. Series connection with thermofuse, disconnection for a more effective protection at the end of the SPD service life. (Optional SPD Full Permanent Surge Protector >264Vac to <170Vac).

# DRAWING:



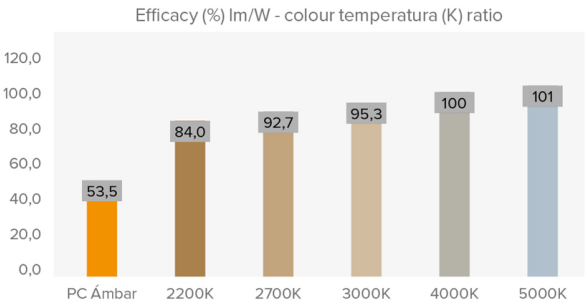
V. 2024-03-26 | The constant improvement and evolution of our products may result in some modifications of the technical specifications and characteristics of the products without prior notice.



TECHNICAL DATA:

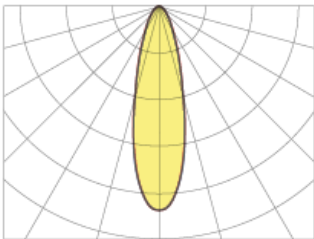
	REF.	N° LEDs	Power W	I Driver mA	Real luminous flux (T) =85°C		Initial luminous flux (T) =25°C	
					Flux lm	Efficacy lm/W	Flux lm	Efficacy lm/W
IRIS O 60 C5 RGBW	APIRO60C5	28	60	684	6600	110	7920	132

Luminous flux and efficiency at 4000°K and CRI>70.  
Luminous flux tolerance < +/-3%.  
Values may be subject to changes due to LED binning.

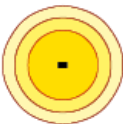
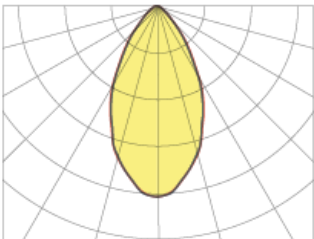


PHOTOMETRY:

30° Circular (C3)



50° Circular (C5)



\*Show 4 recommended lighting distributions. Refer to the 18 typologies.

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## LEDs MODULE:

LEDs module:	BENITO Zhaga standard with 8, 12 and 16 LEDs. Check colour temperatures, CRI and Luminous distributions (Optional NTC temperature probe).		
Replaceable module:	Yes		
LED:	LUXEON 3535		
Number of LEDs:	28		
PCBs format:	Circular arrangement. Optional Zhaga		
LED nominal efficacy:	132		
Colour temperature:	4000K, RGBW		
Colour rendering index CRI:			
Average LED useful time L90B10:	L90B10 >100,000 hours		

## OPTIC SPECIFICATIONS:

Optic system:	PMMA Circular		
Light distributions:	3 light distribution curves		
Upward light output ratio ULOR:	0%		
Downward light output ratio DLOR:	100%		
Glare index:	Between D5 and D6 (depending on the light distribution)		
Luminous intensity category:	Between G*4 and G*6 (depending on the light distribution)		
Luminous flux CIE n°3:	>95% (See 18 Light Distributions).		
Photobiological safety:	RG0 (exempt of risk)		
Initial luminous flux Tj=25°C (up to):	lm	6600	
Initial luminaire efficacy Tj=25°C (up to):	lm/W	110	
Real luminous flux Tj=85°C (UNE EN 13032-4) (up to):	lm	7920	
Real luminaire efficacy Tj=85°C (UNE EN 13032-4) (up to):	lm/W	132	

## ELECTRIC SPECIFICATIONS:

Nominal maximum power (LEDs):	W	56
Maximum power consumed (luminaire):	W	60
Power range:	W	20W - 60W
Maximum current of LED:	mA	<470 (LED Current = 50% Driver Current)
Power supply protection classes IEC:	Class I and II	
Surge protection device (SPD):	Type 2 and Type 3, 10kV and 20kA transient surge protector. Series connection with thermal fuse disconnector for a more effective protection at the end of its service life.	
Common and differential mode protection (SPD) Udc:	kV	10
Max current (8/20) (SPD):	kA	20
Thermal phase disconnection (SPD):	Yes	
Input voltage:	Vac	220-240
Input voltage (max rate):	Vac	198-264
Input frequency:	Hz	47-63
Starting current:	A	<65
Duration of the starting voltage peak:	ms	<0.3
Driver efficacy:	>90%	
Power factor 100% consumption:	>0.98	
Power factor 50% consumption:	>0.95	
Total harmonic distortion (THD):	<10	
Power consumption on standby mode:	W	<0.4
Energy class:	C (According to EU Regulation 2019/2015 EPREL) - A++ IPEA>1,15	

## OPERATING CONDITIONS:

Average LED useful time L90B10:	hours	>100,000
Average driver useful life to Tp <70°C:	hours	100,000
Average luminaire useful life L90B10 (TM-21):	hours	72,167
Ambient temperature (Ta):	°C	From -35°C to +50°C
Aerodynamic resistance (CxS):	m2	
Vibration test (15Hz 3 axis):		
Guarantee:	years	5 (extensible up to 10)

## PACKAGING DIMENSIONS:

Net weight	kg	9.8
Gross weight	kg	10.5
Luminaire dimensions (LxWxH)	mm	270x270x295
Packaging dimensions (LxWxH)	mm	300x300x325
Pieces per box		1
Quantity per container 20ft		1344
Quantity per container 40ft		2898

## CERTIFICATES:

Security certificates:	EN 60598-1 / EN 60598-2-5 / EN 62493 / IEC 62471
EMC certificates:	EN 55015 / EN 61547 / EN 61000-3-2 / EN 61000-3-3 / EN 61347-2-13 / EN 61347-1 / EN 62384
Other certifications:	IEC 62262 / EN 13032-4 / EN 62717 / EN 6272-1 / EN 6272-2-1 / EN 61643-11

Company Certifications



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