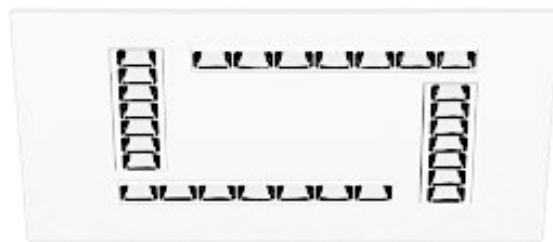


MODUX P2



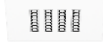









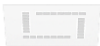

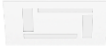





LUXINTEC

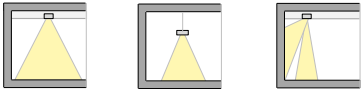
Confort modular

MODUX P2

MODELS

Model	PS2 	PQ2 	PL2 	PD2 
Dimensions	PS2, PQ2 y PL2 20x20 	60x60 	PD2 10x15 	
Mounting	Modular ceiling 	Recessed 	Surface 	Suspended 
Reflector or cover	Specular UGR3D reflector 	White UGR3D reflector 	Black UGR3D reflector 	Diffuse cover 
Colour	White 	Grey 	Black 	

TYPES OF LIGHTING



APPLICATION AREAS

Open space offices



Offices



Classrooms



Consultation room



Corridors



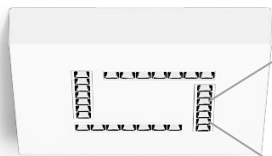
Meeting rooms





- **XQUARE OPTICS** to improve illuminance and light color uniformity
- Photobiological risk 0 in the visual field of work
- Perceivable flicker-free light emission, <3%
- **REFIXT**: replaceable light modules, power supply and sensors for maintenance and reuse of the rest of the structure indefinitely.
- More than 84% of the weight in aluminum and steel infinitely reusable.
- Less than 16% by weight in plastics
- Optional:
 - 2700..6500K dynamic White
 - Light and presence detector
 - Wireless dimming
 - Emergency kit 1 or 3 hours of autonomy

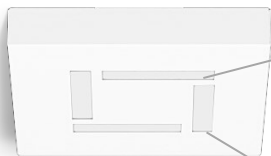
With reflector



High efficiency and very low glare UGR3D reflectors

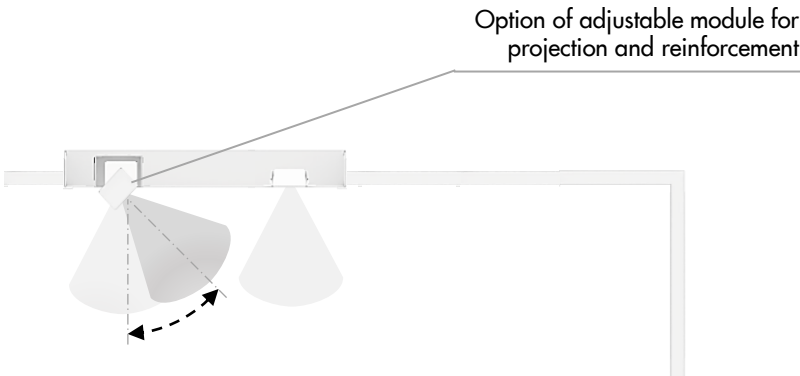
REXIST technology, resistant to chemical agents, scratches and light exposure

With diffuse cover

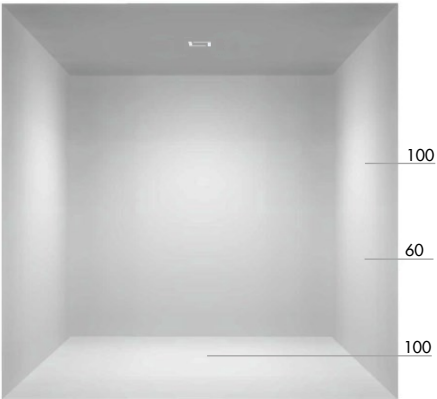


Diffuse cover with uniform luminance

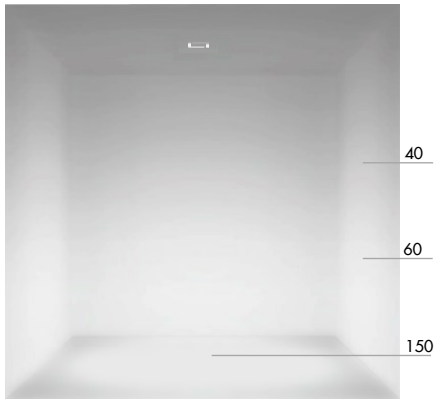
Integrated **XQUARE OPTICS**. Light control and low glare



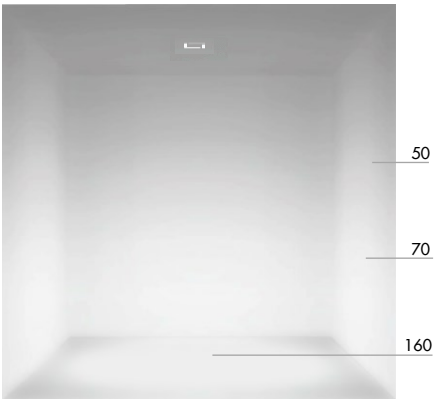
D optics



Q6 optics, white UGR3D reflector



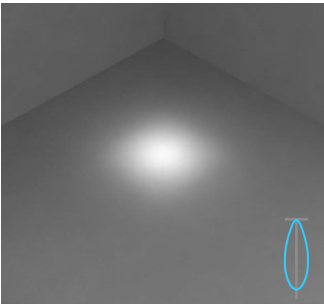
Q6 optics, specular UGR3D reflector



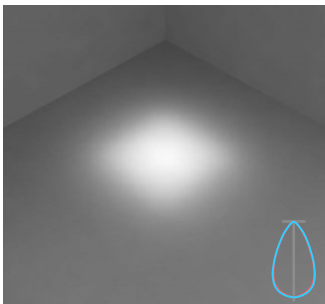
Values in lux at 3 metres height for MODUX PQ2 20x20 15W 4000K esencial IRC 80+.

PHOTOMETRIES

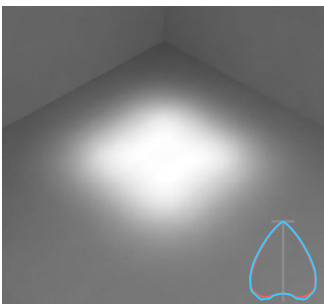
XQUARE OPTICS Q3 30° x 30°



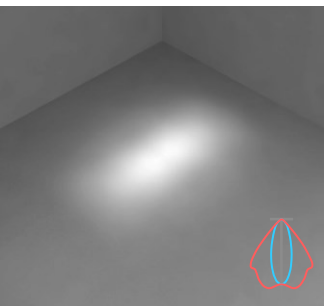
XQUARE OPTICS Q6 60° x 60°



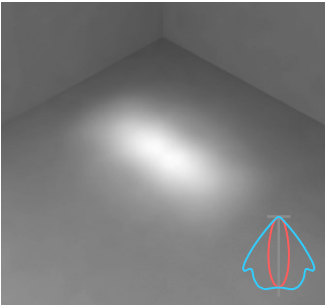
XQUARE OPTICS Q9 90° x 90°



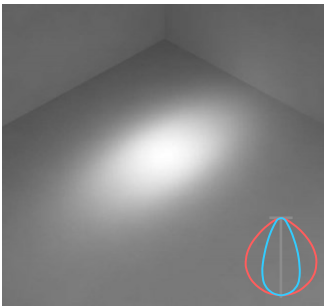
XQUARE OPTICS R3L 30° x 90°



XQUARE OPTICS R3T 90° x 30°



D 100°



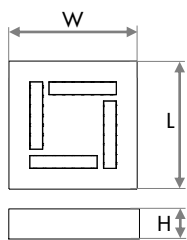
Isolux curves: — 0° - 180° — 90° - 270°

LUMINOUS FLUX

VERSION	POWER RATING (W)	3000K essential CRI 80+		4000K essential CRI 80+		4000K natural CRI 90+	
		LUMINOUS FLUX (lm)	LIGHTING EFFICIENCY (lm/W)	LUMINOUS FLUX (lm)	LIGHTING EFFICIENCY (lm/W)	LUMINOUS FLUX (lm)	LIGHTING EFFICIENCY (lm/W)
MODUX P2 20x20 D OPTICS White luminaire	15	1694	113	1770	118	1345	90
	25	2660	106	2779	111	2112	85
MODUX P2 20x20 Q6 OPTICS Diffuse cover	15	1694	113	1770	118	1345	90
	25	2660	106	2779	111	2112	86
MODUX P2 20x20 Q6 OPTICS Specular UGR3D reflector	15	1490	99	1511	101	1148	77
	25	2531	101	2566	103	1950	78
MODUX P2 20x20 Q6 OPTICS Black UGR3D reflector	15	1205	80	1222	81	929	62
	25	2047	82	2076	83	1578	63

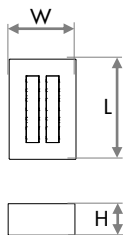
Typical values at 25°C ambient temperature. Total luminaire flux. Access www.luxintec.com for photometric files of all versions.

20x20



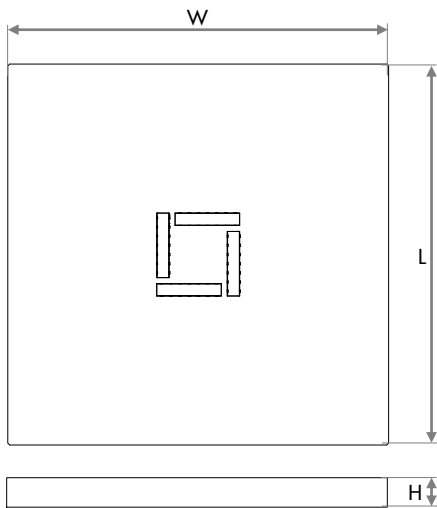
VERSION	L	W	H
Recessed	198	198	47
Surface	230	230	38

10x15



VERSION	L	W	H
Recessed	150	100	47
Surface	175	115	38

60x60

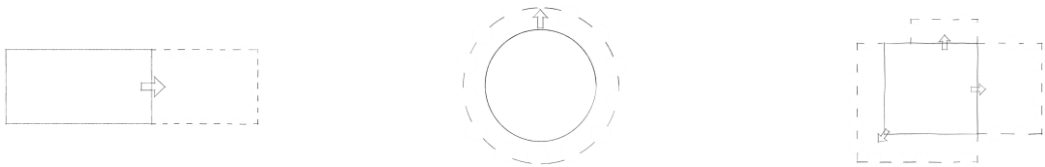


VERSION	L	W	H
Recessed	590	590	35
Suspended	590	590	35

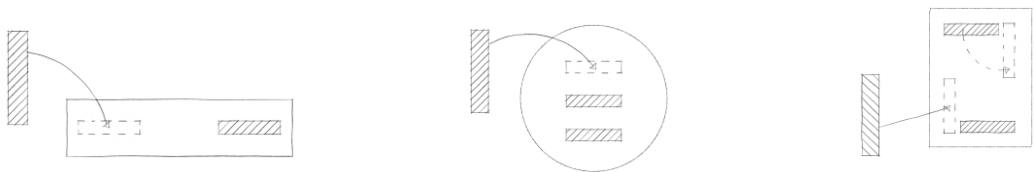
DESIGN YOUR MODUX P2

Use the MODUX light engines to create the luminaire that better adapts to your project.

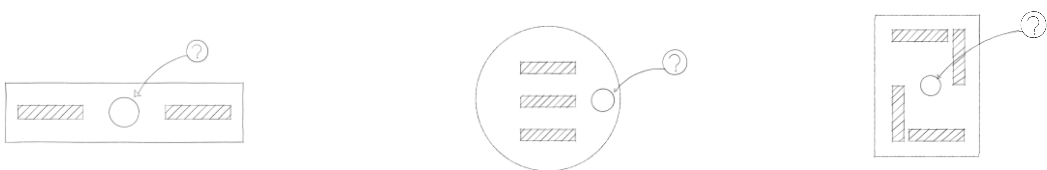
STEP 1. Design the housing of the luminaire to your measure.



STEP 2. Distribute the light engine modules in the housing.



STEP 3. Incorporate into your MODUX P housing items such as sensors, loudspeakers, emergency lighting or any another element that you need. Contact us to verify the viability.



STEP 4. Send us your design.

OTHER CHARACTERISTICS

MODUX P2

MODUX P2 is a highly energy-efficient lighting solution that complies with the standards WELL, LEED, BREEAM, VERDE, PASSIVHAUS and MINERGIE.

MODUX P2 has versions which comply with the regulations UNE 12464, UNE 12193, EN 60598 y EN 11925-2, manufactured under the regulations ISO 9001, ISO 14001 y UNE 166002.

DIMENSIONS		10x15, 20x20 y 60x60 cm	
MOUNTING		Recessed, on surface, suspended	
ROTATION		Without rotation, 1 or 2 modules asymmetric rotation	
POWER RATING		From 7W to 25W.	
ELECTRICAL EQUIPMENT		Non-dimmable, DALI2 dimmable, AppC bluetooth dimmable	
DIMMING RANGE		From 0% to 100%	
DIMMING MEANS		Wired, wireless bluetooth or radiofrequency	
OPTIONAL ELECTRICAL EQUIPMENT		Presence and luminosity detector Emergency kit	
LIGHT COLOUR TEMPERATURE		3000K to 4000K essential, 3000K to 4000K natural, 2700..6500K tunnable white	
COLOUR RENDERING INDEX		CRI 80+ to CRI 95+	
MELANOPIC COEFICIENT		From 0,44 to 0,61 essential and natural light colour temperatures	
COLOUR TOLERANCE		< 3 or <5 MacAdam Ellipses	
OPTICS		XQUARE OPTICS or diffuse. See sections MODELS and PHOTOMETRICS	
LIGHT DSTRIBUTION		Circular, square or rectangular	
LUMINOUS FLUX	EFFECTIVE between 0° and 60° over the vertical	Until 2555 lm (until 100%) versions with specular or black UGR3D reflector	<div>CONCENTRATED from 0° to 30° over the vertical</div> Until 1682 lm (until 66%)
	INEFFECTIVE OR BLINDING from 60° to 90° over the vertical	Until 12 lm, ultra low glare (0%) , versions with specular or black UGR3D reflector	<div>EXTENSIVE from 30° to 60° over the vertical</div> Until 873 lm (until 34%)
	TOTAL	Until 2899 lm	
LIGHTING EFFICIENCY		Until 116 lm/W	
LIGHT-EMITTING AREA	LENGHT	3.9, 8.8 y 10 cm	
	WIDTH	8.8, 10 y 11'7 cm	
	HEIGHT	0 cm	
LIGHT EMITTING SURFACE OF THE LED VISIBLE THROUGH LENSES OR CLOSURES	LED LUMINANCE	Not applicable, LED hidden for safety	
	LED PHOTOBIOLOGICAL RISK GROUP	Not applicable, LED hidden for safety	
	SHIELDING ANGLE	Not applicable, LED hidden for safety	
MAXIMUM LUMINANCE OF THE LUMINAIRE ON THE VERTICAL 0°.	At 65°	From 391 cd/m² very low glare up to 1.338 cd/m² versions with specular or black UGR3D reflector	
	At 75°	From 4 cd/m² ultra low glare up to 425 cd/m² versions with specular or black UGR3D reflector	
	At 85°	From 0 cd/m² ultra low glare up 18 cd/m² versions with specular or black UGR3D reflector	
	At 90°	0 cd/m²	

Average values at 25°C ambient temperature.

PHOTOBIOLOGICAL HAZARD GROUP IN THE VISUAL WORKING FIELD BETWEEN 65° and 90° OVER VERTICAL 0°.		0, risk-free
UGR		Up to <10, specular or black UGR3D reflector versions
FLICKERING		< 3%
ELECTRICAL ISOLATION CLASS		Class II
POWER SUPPLY		220..240V AC. Remote power supply
POWER FACTOR		> 0,89
HARMONIC DISTORTION		< 10% or < 6,5%.
PEAK CURRENT AT START-UP		Until 26 A during 151 µs depending on version
MAXIMUM WITHSTAND PEAK VOLTAGE		1 kV between L and N, 2kV between L or N y earth
MAXIMUM WITHSTAND OVERVOLTAGE		320 V AC from 1 to 48 h depending version
TYPE OF CONNECTION		Connectors for quick installation depending version
INTERCONNECTION		Optional in AC depending version
MATERIALS		Aluminum in housing and covers. Steel in fixings High quality engineering polymers in XQUARE OPTICS and covers REXIST in reflectors
COATINGS		High-strength and durable electrostatic paint on casing
REACTION TO FIRE		Fireproof housing. Self-extinguishing reflectors, diffusers and closures
GLOW WIRE TEMPERATURE		Desde 650°C hasta 850°C según versión
LUMINAIRE COLOUR		Blanco texturado RAL9016, gris texturado, RAL9006 y negro texturado RAL9005
LIGHT ENGINE SERVICE LIFE	At 25°C ambient temperature	Until 130.000 hours L70B50, 53.400 hours L80B10, 22.800 hours L90B10.
	At 40°C ambient temperature	Until 75.000 hours L70B50, 31.200 hours L80B10, 12.600 hours L90B10.
DRIVER SERVICE LIFE	At 25°C ambient temperature	>100.000 o >50.000 hours depending version
	At 40°C ambient temperature	>100.000 o >50.000 hours depending version
AMBIENT OPERATING TEMPERATURE		From -20°C to 40°C
CIRCULARITY	WEIGHT OF INFINITELY REUSABLE MATERIALS	84%
	PLASTIC WASTE	< 9 gr/year
	WASTE WEEE	< 13 gr/year
	REPLACEABLE COMPONENTS REFIXT	LED modules, reflectors, lenses, closures, drivers and detectors
WEIGHT		Until ~1.50 Kg
GUARANTEE		10 years in mechanical parts and optical systems 7 years on LED modules, enclosures, drivers and detectors 1 year on batteries

Average values at 25°C ambient temperature. Circularity data for MODUX P2 with 5,000 operating hours per year.