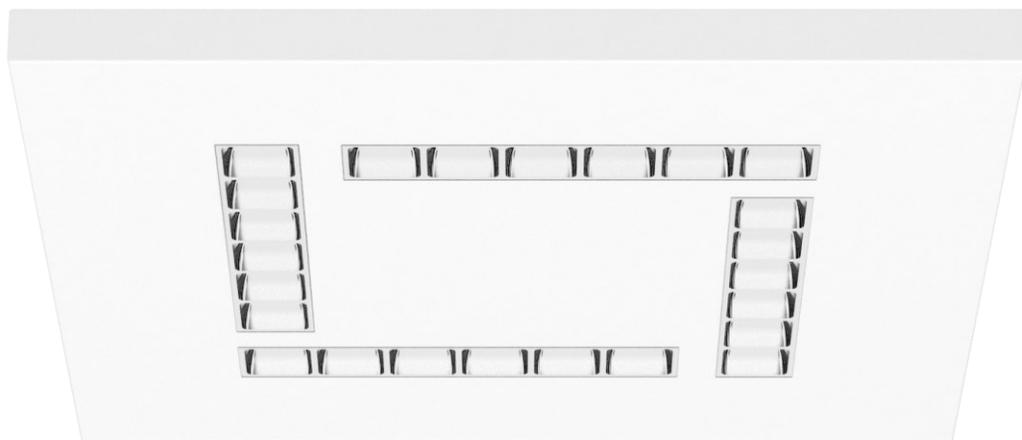


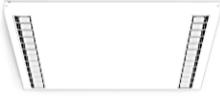
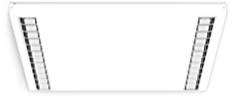
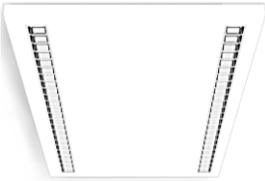
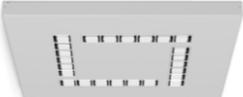
# MODUX P5



**LUXINTEC**

## Modular comfort

### MODELS

	<b>PQ5</b>	<b>PL5</b>	<b>PD5</b>	<b>PU5</b>
Model				
Dimensions	60x60 	120x60 	120x30 	
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



#### Classrooms



#### Corridors



#### Offices



#### Consultation room



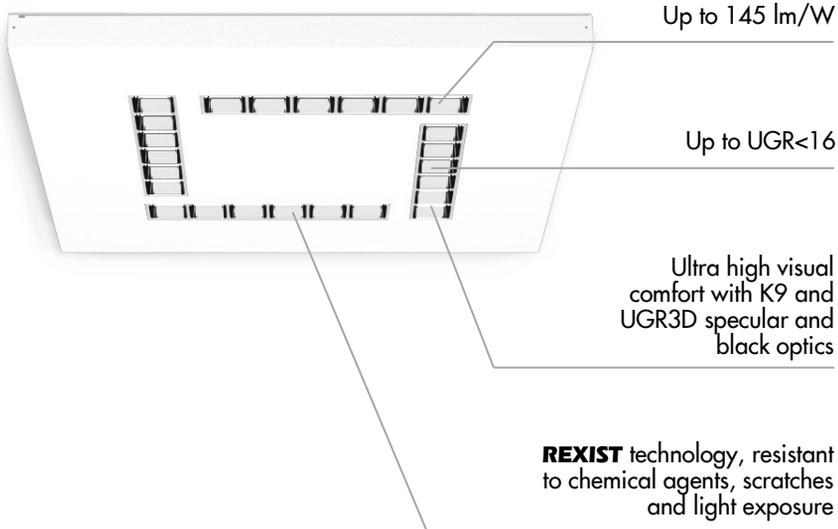
#### Meeting rooms



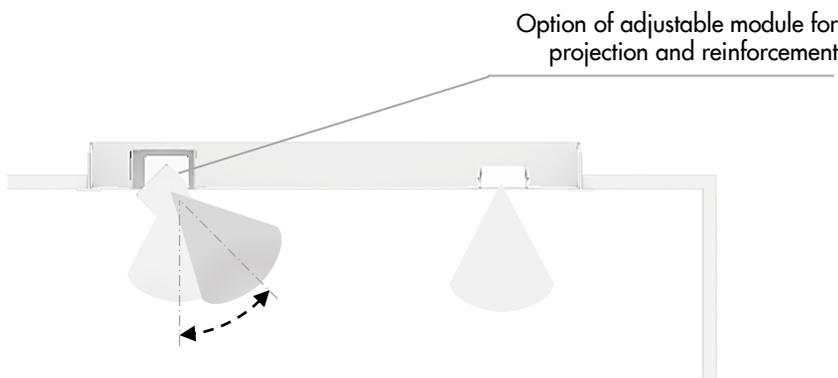
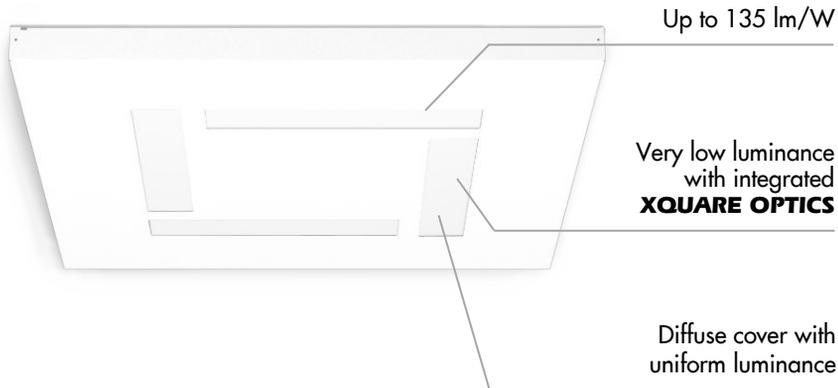


- **XQUARE OPTICS** to improve illuminance and light color uniformity
- Photobiological risk 0 in the visual field of work
- Perceivable flicker-free light emission, <3%
- **REFIXT**: replaceable light modules, power supply and sensors for maintenance and reuse of the rest of the structure indefinitely.
- More than 90% of the weight in aluminum and steel infinitely reusable.
- Less than 10% by weight in plastics
- Optional:
  - IP65 CR for clean rooms and operating rooms
  - 2700..6500K dynamic White
  - Light and presence detector
  - Wireless dimming
  - Emergency kit 1 or 3 hours of autonomy

**With reflector**



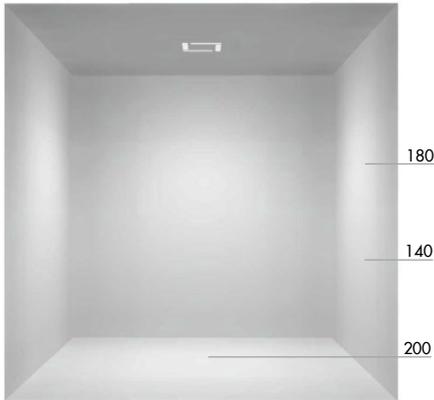
**With diffuse cover**



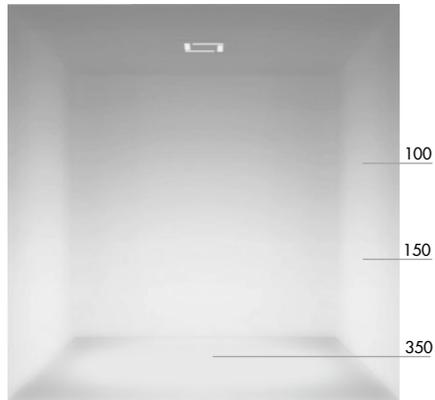
# MODUX P5

## LIGHTING COMPARISON

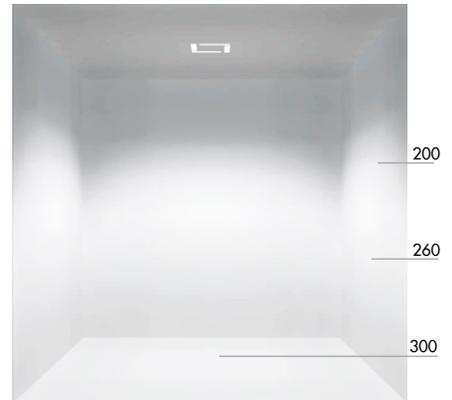
D optics



Q7 optics, white UGR3D reflector



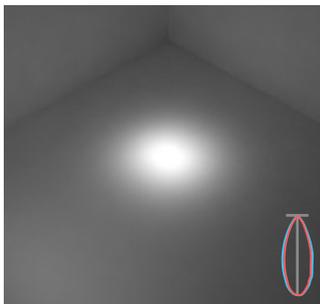
K9 optics, specular UGR3D reflector



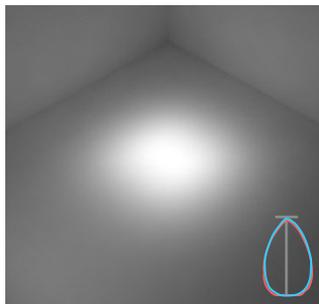
Values in lux at 3 metres height for MODUX PQ5 and PL5 60x60 35W 4000K essential CRI 80+.

## PHOTOMETRIES

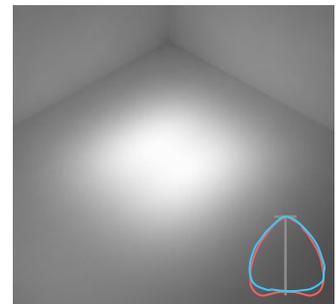
**XQUARE OPTICS S4 40°**



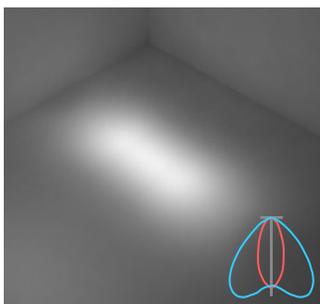
**XQUARE OPTICS Q7 70° x 70°**



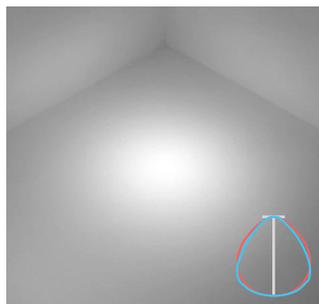
**XQUARE OPTICS Q9 90° x 90°**



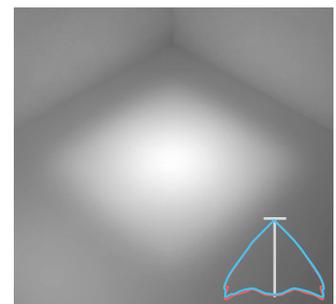
**XQUARE OPTICS R4L 40° x 90°**



**D 105°**



**K9 OPTICS K9 90° x 90°**



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

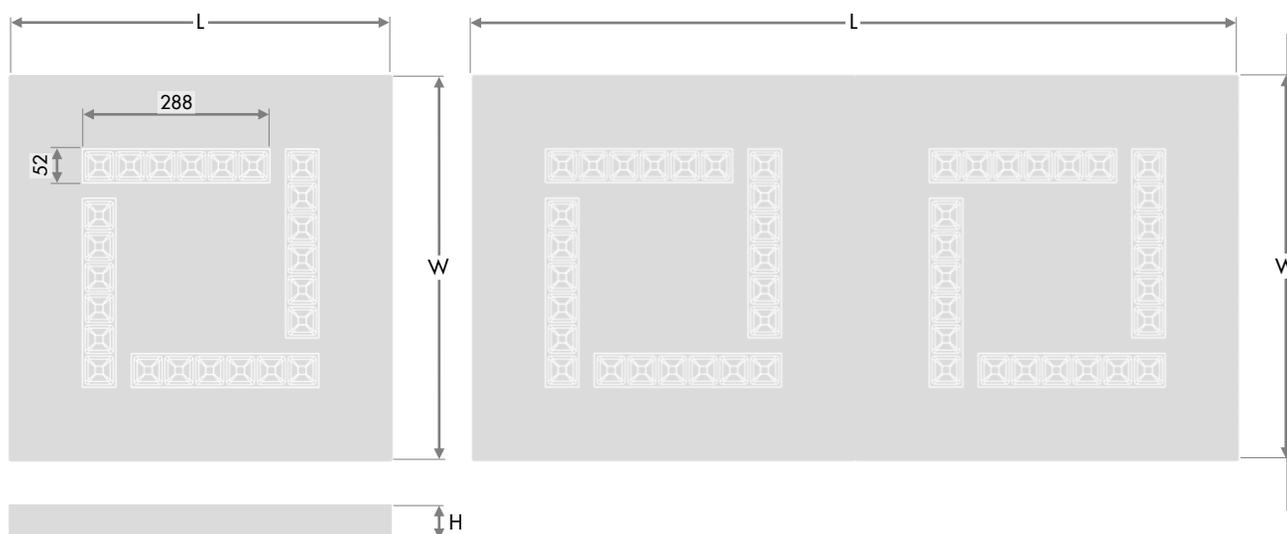
## FLUJOS LUMINOSOS

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)
<b>MODUX PQ5 y PL5 60x60</b> D optics	25	3251	130	3352	134	2548	102
	35	4604	132	4747	137	3608	103
<b>MODUX PQ5 y PL5 60x60</b> K9 optics Specular UGR3D reflector	25	3516	141	3625	145	2755	110
	35	4979	142	5134	147	3902	111
<b>MODUX PQ5 y PL5 60x60</b> Q7 optics White UGR3D reflector	25	3024	121	3118	125	2370	95
	35	4283	122	4416	126	3356	96

Typical values at 25°C ambient temperature. Total luminaire flux. Access [www.luxintec.com](http://www.luxintec.com) for photometric files of all versions.

DIMENSIONS mm

# MODUX P5

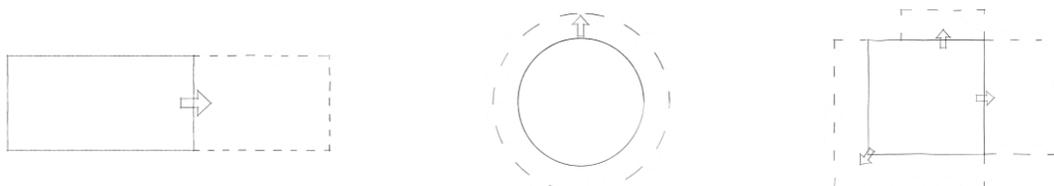


VERSION	L	W	H
60x60	590	590	33
120x30	1190	290	33
120x60	1190	590	33

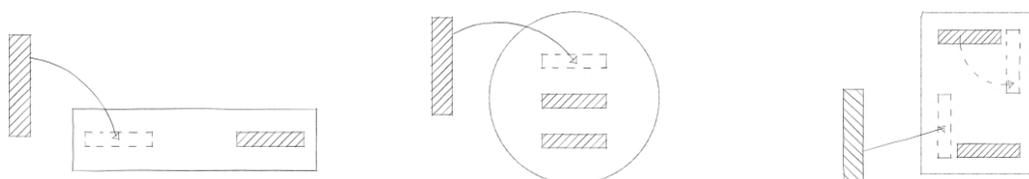
## DESIGN YOUR MODUX P

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

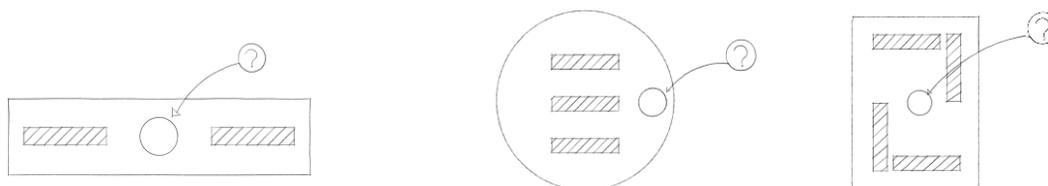
STEP 1. Design the housing of the luminaire to your measure.



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 P5 is a highly energy-efficient lighting solution that complies with the standards WELL, LEED, BREEAM, VERDE, PASSIVHAUS and MINERGIE.

MODUX P5 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		60x60, 120x30 y 120x60 cm					
MOUNTING		Recessed, on surface, suspended					
ROTATION		Without rotation, 1 or 2 modules asymmetric rotation					
POWER RATING		From 25W to 70W					
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		IRC 80+ to IRC 95+					
MELANOPIC COEFICIENT		From 0,44 to 0,61 essential and natural light colour temperatures					
COLOUR TOLERANCE		< 3 or <5 MacAdam Ellipses					
OPTICS		<b>XQUARE OPTICS</b> or diffuse. See sections MODELS and PHOTOMETRICS					
LIGHT DSTRIBUTION		Circular, square or rectangular					
LUMINOUS FLUX	EFFECTIVE between 0° and 60° over the vertical	Until 5.134 lm (until 100%) versions with specular or black UGR3D reflector	<table border="1"> <tr> <td>CONCENTRATED from 0° to 30° over the vertical</td> <td>Until 2.278 lm (until 44%)</td> </tr> <tr> <td>EXTENSIVE from 30° to 60° over the vertical</td> <td>Until 2.855 lm (until 56%)</td> </tr> </table>	CONCENTRATED from 0° to 30° over the vertical	Until 2.278 lm (until 44%)	EXTENSIVE from 30° to 60° over the vertical	Until 2.855 lm (until 56%)
	CONCENTRATED from 0° to 30° over the vertical	Until 2.278 lm (until 44%)					
	EXTENSIVE from 30° to 60° over the vertical	Until 2.855 lm (until 56%)					
INEFFECTIVE OR BLINDING from 60° to 90° over the vertical	Until 0 lm, ultra low glare (0%) , versions with specular or black UGR3D reflector						
TOTAL	Until 5134 lm						
LIGHTING EFFICIENCY		Until 151 lm/W					
LIGHT-EMITTING AREA	LENGHT	17.4, 24.5, y 50 cm					
	WIDTH	6, 12, 17.4 y 24.5 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 0 cd/m <sup>2</sup> ultra low glare up to 2.284 cd/m <sup>2</sup> versions with specular or black UGR3D reflector					
	At 75°	From 0 cd/m <sup>2</sup> ultra low glare up to 6 cd/m <sup>2</sup> versions with specular or black UGR3D reflector					
	At 85°	From 0 cd/m <sup>2</sup> ultra low glare versions with specular or black UGR3D reflector					
	At 90°	0 cd/m <sup>2</sup>					

Average values at 25°C ambient temperature.

# MODUX P5

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. Integrated power supply	
POWER FACTOR	> 0,95	
HARMONIC DISTORTION	< 15% or < 8%	
PEAK CURRENT AT START-UP	Until 35 A during 240 µs depending on version	
MAXIMUM WITHSTAND PEAK VOLTAGE	1 kV between L and N, 2kV between L or N and PE	
MAXIMUM WITHSTAND OVERVOLTAGE	320V AC from 1 to 48 h depending on version	
TYPE OF CONNECTION	Connectors for quick installation	
INTERCONNECTION	Optional in AC	
MATERIALS	Aluminum in housing and covers. Steel in fixings High quality engineering polymers in <b>XQUARE OPTICS</b> and covers <b>REXIST</b> 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	From 650°C to 850°C depending on version	
LUMINAIRE COLOUR	Textured white RAL9016, textured grey, RAL9006 and textured black RAL9005	
LIGHT ENGINE SERVICE LIFE	At 25°C ambient temperature	Until 120.000 hours L70B50, 62.000 hours L80B10, 28.500 hours L90B10.
	At 40°C ambient temperature	Until 97.000 hours L70B50, 48.500 hours L80B10, 22.600 hours L90B10.
DRIVER SERVICE LIFE	At 25°C ambient temperature	>100.000 o >50.000 hours depending on version
	At 40°C ambient temperature	>100.000 o >50.000 hours depending on version
AMBIENT OPERATING TEMPERATURE	From -20°C to 40°C	
CIRCULARITY	WEIGHT OF INFINITELY REUSABLE MATERIALS	98%
	PLASTIC WASTE	< 8 gr/year
	WASTE WEEE	< 15 gr/year
	REPLACEABLE COMPONENTS <b>REFIXT</b>	LED modules, reflectors, lenses, closures, drivers and detectors
WEIGHT	~5,7 Kg version 60x60	
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 P5 with 5,000 operating hours per year.

## ACCESORIES

	REF.	DESCRIPTION
	AFV0015_1	Frame to recessed in cut hole, with visible frame, MODUX P 60x60.
	AFV0016_1	Frame to recessed in cut hole, with visible frame, MODUX P 120x30.
	AFV0022_1	Frame to recessed in cut hole, with visible frame, MODUX P 120x60.
	AFV0017_1	Frame to recessed in cut hole, with hidden frame for plaster, MODUX P 60x60.
	AFV0018_1	Frame to recessed in cut hole, with hidden frame for plaster, MODUX P 120x30.
	AFV0023_1	Frame to recessed in cut hole, with hidden frame for plaster, MODUX P 120x60.
	AFV0019_1	Surface fixing support, MODUX P 60x60.
	AFV0020_1	Surface fixing support, MODUX P 120x30.
	AFV0024_1	Surface fixing support, MODUX P 120x60.
	AFV0021	Suspension kit, MODUX P 60x60 or 120x30.
	AFV0025	Suspension kit, MODUX P 120x60.

<sup>1</sup> Add C for textured white, H for textured grey or O for textured black.

Accessories are available for the MODUX P5 version with recessed mounting in modular ceiling. The luminaires whose mounting is recessed in a cut hole with an exposed frame or with a hidden frame to be plastered, on a screwed fixing surface or suspended by cable, incorporate the necessary fixing elements.