

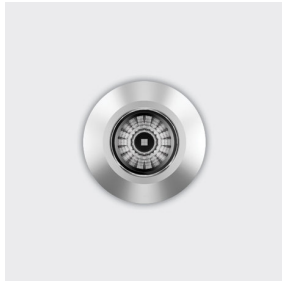
Last information update: July 2022

Product configuration: E081+X193.04+X194.04+350mA

E081: Floor recessed Orbit D=50mm - Spot optic

X193.04: Casing made of plastic material for ground, floor, wall and ceiling with closing cap - Black

X194.04: Springs for installation on plasterboard on walls and on floating floorboards - Black

**Product code**

E081: Floor recessed Orbit D=50mm - Spot optic

Technical description

Recessed luminaire that can be installed in walls, ceilings and floors (only with a spring). It is designed to use white monochrome LED lamps, powered with a continuous current of 350/500/700mA per luminaire. The D = 50 mm round frame has hidden screws, an AISI 304 stainless steel body and frame and an extra-clear, sodium - calcium tempered glass cover. The luminaire is fixed to the outer casing using special locking seals that hold it in place. The unit comes complete with LED circuit and metallized plastic lens. The product's wiring system features an A2 stainless steel cable gland with a 1800 mm long H05RNF type 2x1 mm² output power cable. The cable is equipped with an anti-transpiration device (IP68) that consists of a silicone-coated joint located on the power cable. Two types of outer casing are available for installation and both can be ordered separately from the plastic optic assembly. The glass unit, optical assembly and outer casing together guarantee a maximum static load resistance of 2000 kg. The maximum surface temperature of the glass is less than 40°. Luminaire protected against polarity inversion.

Installation

The product is fixed to the outer casing using special locking seals with toolfree installation. The unit can be recessed in floors, ceilings or walls using the outer casing for installation. It can also be installed in counter walls and false ceilings using special spring accessories to be ordered separately.

Colour

Steel (13)

Weight (Kg)

0.54

Mounting

wall recessed|Floor recessed|ceiling recessed|ground recessed

Wiring

Ballasts available: 350/500/700mA traditional and watertight IP67 versions. The product comes complete with a 1800 mm long H05RNF type 2x1 mm² output power cable and an electronic plate with a 350/500/700mA Max LED. Ballast to be ordered separately.

Notes

IP68 rating on both the product and the cable using IP68 connectors * The product is not suitable for installation in swimming pools and fountains.

Complies with EN60598-1 and pertinent regulations



Complete immersion for limited periods,
not suitable for use in swimming pools or fountains.



The lighting fixtures were designed and tested to withstand a static load of up to 20000 N and to resist drive-over stress by vehicles with tires. The fixtures cannot be used in lanes subjected to horizontal stresses due to acceleration, braking and / or changes of direction.

Accessory code

X193.04: Casing made of plastic material for ground, floor, wall and ceiling with closing cap - Black

Technical description

Made of plastic (polypropylene). Complete with front cap, cable extraction system and twin cable entrance.

Installation

Mounted on (concrete) walls, floors and ceilings using special brackets (anchors)

Colour

Black (04)

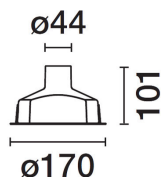
Weight (Kg)

0.1

Mounting

ground surface|Floor recessed|ground recessed

Complies with EN60598-1 and pertinent regulations





Accessory code

X194.04: Springs for installation on plasterboard on walls and on floating floorboards - Black

Technical description

An AISI 304 stainless steel spring is required to fasten a D= 50mm Light Up Orbit in false ceilings or counter walls

Installation

Installation requires a D=46mm hole in the false ceiling or counter wall.

Weight (Kg)

0.1

Mounting

wall surface|ceiling surface

Complies with EN60598-1 and pertinent regulations

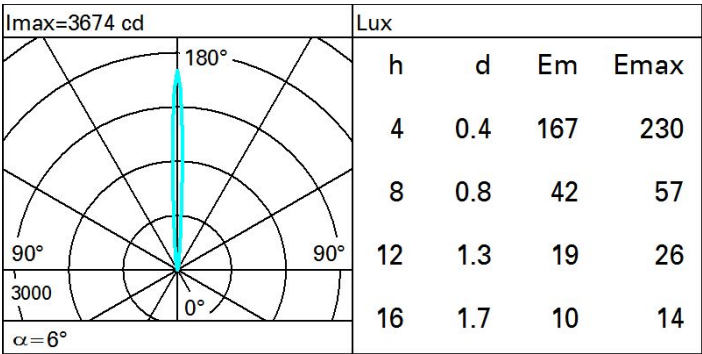
	10m
IP66	IP68

Technical data

Im system:	94	MacAdam Step:	2
W system:	1	Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)
Im source:	140	Life Time LED 2:	100,000h - L80 - B10 (Ta 40°C)
W source:	1	Ballast losses [W]:	0
Luminous efficiency (Im/W, real value):	93.8	Lamp code:	LED
Im in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	94	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	67	Number of optical assemblies:	1
Beam angle [°]:	6°	Ambient operating temperature range:	from -20°C to +35°C. (*)
CRI:	80	LED Current [mA]:	350
Colour temperature [K]:	4000		

* Preliminary data

Polar



UGR diagram

Corrected UGR values (at 140 lm bare lamp luminous flux)												
Reflect.: ceiling/cav walls work pl. Room dim x y		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30	0.30
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30	0.30
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
		viewed crosswise					viewed endwise					
2H	2H	11.1	13.0	11.4	13.3	13.6	11.1	13.0	11.4	13.3	13.6	13.6
	3H	12.8	13.9	13.1	14.2	14.6	11.5	12.7	11.9	13.0	13.3	13.3
	4H	13.3	14.1	13.6	14.5	14.8	11.8	12.7	12.1	13.0	13.3	13.3
	6H	13.6	14.1	13.9	14.5	14.8	11.9	12.5	12.3	12.8	13.2	13.2
	8H	13.5	14.3	13.9	14.6	14.9	11.9	12.6	12.3	12.9	13.3	13.3
	12H	13.5	14.4	13.9	14.7	15.1	11.8	12.7	12.2	13.0	13.4	13.4
4H	2H	11.8	12.7	12.1	13.0	13.3	13.3	14.1	13.6	14.5	14.8	14.8
	3H	13.6	14.4	14.0	14.8	15.2	13.8	14.7	14.2	15.1	15.4	15.4
	4H	14.0	15.2	14.4	15.6	16.0	14.0	15.2	14.4	15.6	16.0	16.0
	6H	14.0	15.8	14.5	16.2	16.7	13.9	15.6	14.4	16.1	16.6	16.6
	8H	14.0	15.9	14.5	16.3	16.8	13.9	15.7	14.4	16.2	16.7	16.7
	12H	14.0	15.8	14.5	16.3	16.8	13.8	15.6	14.3	16.1	16.6	16.6
8H	4H	13.9	15.7	14.4	16.2	16.7	14.0	15.9	14.5	16.3	16.8	16.8
	6H	14.3	15.8	14.8	16.3	16.8	14.3	15.8	14.8	16.3	16.8	16.8
	8H	14.5	15.6	15.0	16.1	16.6	14.5	15.6	15.0	16.1	16.6	16.6
	12H	14.7	15.3	15.2	15.8	16.3	14.7	15.3	15.2	15.8	16.3	16.3
12H	4H	13.8	15.6	14.3	16.1	16.6	14.0	15.8	14.5	16.3	16.8	16.8
	6H	14.4	15.5	14.9	16.0	16.5	14.4	15.6	14.9	16.1	16.6	16.6
	8H	14.7	15.3	15.2	15.8	16.3	14.7	15.3	15.2	15.8	16.3	16.3
Variations with the observer position at spacing:												
S =		1.0H	0.4 / -0.4				0.4 / -0.4					
		1.5H	0.8 / -0.7				0.8 / -0.7					
		2.0H	1.5 / -0.6				1.5 / -0.6					

Last information update: July 2022

Product configuration: E081+X193.04+X194.04+500mA

E081: Floor recessed Orbit D=50mm - Spot optic

X193.04: Casing made of plastic material for ground, floor, wall and ceiling with closing cap - Black

X194.04: Springs for installation on plasterboard on walls and on floating floorboards - Black

**Product code**

E081: Floor recessed Orbit D=50mm - Spot optic

Technical description

Recessed luminaire that can be installed in walls, ceilings and floors (only with a spring). It is designed to use white monochrome LED lamps, powered with a continuous current of 350/500/700mA per luminaire. The D = 50 mm round frame has hidden screws, an AISI 304 stainless steel body and frame and an extra-clear, sodium - calcium tempered glass cover. The luminaire is fixed to the outer casing using special locking seals that hold it in place. The unit comes complete with LED circuit and metallized plastic lens. The product's wiring system features an A2 stainless steel cable gland with a 1800 mm long H05RNF type 2x1 mm² output power cable. The cable is equipped with an anti-transpiration device (IP68) that consists of a silicone-coated joint located on the power cable. Two types of outer casing are available for installation and both can be ordered separately from the plastic optic assembly. The glass unit, optical assembly and outer casing together guarantee a maximum static load resistance of 2000 kg. The maximum surface temperature of the glass is less than 40°. Luminaire protected against polarity inversion.

Installation

The product is fixed to the outer casing using special locking seals with toolfree installation. The unit can be recessed in floors, ceilings or walls using the outer casing for installation. It can also be installed in counter walls and false ceilings using special spring accessories to be ordered separately.

Colour

Steel (13)

Weight (Kg)

0.54

Mounting

wall recessed|Floor recessed|ceiling recessed|ground recessed

Wiring

Ballasts available: 350/500/700mA traditional and watertight IP67 versions. The product comes complete with a 1800 mm long H05RNF type 2x1 mm² output power cable and an electronic plate with a 350/500/700mA Max LED. Ballast to be ordered separately.

Notes

IP68 rating on both the product and the cable using IP68 connectors * The product is not suitable for installation in swimming pools and fountains.

Complies with EN60598-1 and pertinent regulations



Complete immersion for limited periods,
not suitable for use in swimming pools or fountains.



The lighting fixtures were designed and tested to withstand a static load of up to 20000 N and to resist drive-over stress by vehicles with tires. The fixtures cannot be used in lanes subjected to horizontal stresses due to acceleration, braking and / or changes of direction.

Accessory code

X193.04: Casing made of plastic material for ground, floor, wall and ceiling with closing cap - Black

Technical description

Made of plastic (polypropylene). Complete with front cap, cable extraction system and twin cable entrance.

Installation

Mounted on (concrete) walls, floors and ceilings using special brackets (anchors)

Colour

Black (04)

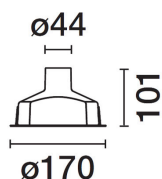
Weight (Kg)

0.1

Mounting

ground surface|Floor recessed|ground recessed

Complies with EN60598-1 and pertinent regulations





Accessory code

X194.04: Springs for installation on plasterboard on walls and on floating floorboards - Black

Technical description

An AISI 304 stainless steel spring is required to fasten a D= 50mm Light Up Orbit in false ceilings or counter walls

Installation

Installation requires a D=46mm hole in the false ceiling or counter wall.

Weight (Kg)

0.1

Mounting

wall surface|ceiling surface

Complies with EN60598-1 and pertinent regulations

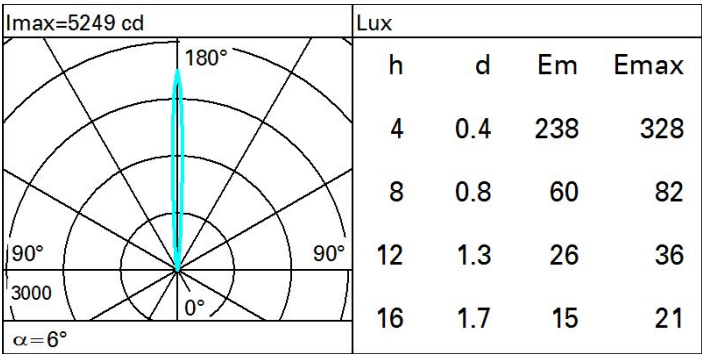
	10m
IP66	IP68

Technical data

Im system:	134	MacAdam Step:	2
W system:	1.5	Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)
Im source:	200	Life Time LED 2:	100,000h - L80 - B10 (Ta 40°C)
W source:	1.4	Ballast losses [W]:	0.1
Luminous efficiency (Im/W, real value):	89.3	Lamp code:	LED
Im in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	134	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	67	Number of optical assemblies:	1
Beam angle [°]:	6°	Ambient operating temperature range:	from -20°C to +35°C. (*)
CRI:	80	LED Current [mA]:	500
Colour temperature [K]:	4000		

* Preliminary data

Polar



UGR diagram

Corrected UGR values (at 200 lm bare lamp luminous flux)												
Reflect.: ceiling/cav walls work pl. Room dim x y		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30	0.30
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30	0.30
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
		viewed crosswise					viewed endwise					
2H	2H	12.3	14.2	12.7	14.5	14.9	12.3	14.2	12.7	14.5	14.9	
	3H	14.0	15.2	14.4	15.5	15.8	12.8	14.0	13.1	14.3	14.6	
	4H	14.5	15.4	14.9	15.7	16.0	13.0	13.9	13.4	14.2	14.5	
	6H	14.8	15.4	15.2	15.7	16.0	13.2	13.8	13.5	14.1	14.4	
	8H	14.8	15.5	15.2	15.8	16.2	13.1	13.8	13.5	14.2	14.5	
	12H	14.7	15.6	15.1	15.9	16.3	13.0	13.9	13.4	14.2	14.6	
4H	2H	13.0	13.9	13.4	14.2	14.5	14.5	15.4	14.9	15.7	16.0	
	3H	14.8	15.7	15.2	16.0	16.4	15.1	15.9	15.5	16.3	16.7	
	4H	15.2	16.4	15.6	16.8	17.3	15.2	16.4	15.6	16.8	17.3	
	6H	15.3	17.0	15.7	17.4	17.9	15.2	16.9	15.6	17.3	17.8	
	8H	15.3	17.1	15.7	17.6	18.1	15.1	17.0	15.6	17.4	17.9	
	12H	15.2	17.1	15.7	17.5	18.0	15.1	16.9	15.6	17.4	17.9	
8H	4H	15.1	17.0	15.6	17.4	17.9	15.3	17.1	15.7	17.6	18.1	
	6H	15.5	17.0	16.0	17.5	18.0	15.5	17.1	16.0	17.5	18.1	
	8H	15.7	16.8	16.2	17.3	17.9	15.7	16.8	16.2	17.3	17.9	
	12H	15.9	16.6	16.4	17.1	17.6	15.9	16.5	16.4	17.0	17.6	
12H	4H	15.1	16.9	15.6	17.4	17.9	15.2	17.1	15.7	17.5	18.0	
	6H	15.6	16.8	16.1	17.3	17.8	15.7	16.8	16.2	17.3	17.8	
	8H	15.9	16.5	16.4	17.0	17.6	15.9	16.6	16.4	17.1	17.6	
Variations with the observer position at spacing:												
S =		1.0H	0.4 / -0.4		0.4 / -0.4							
		1.5H	0.8 / -0.7		0.8 / -0.7							
		2.0H	1.5 / -0.6		1.5 / -0.6							

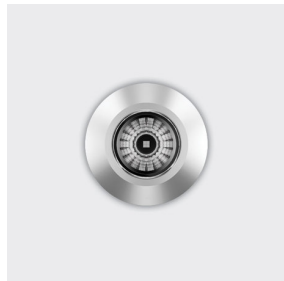
Last information update: July 2022

Product configuration: E081+X193.04+X194.04+700mA

E081: Floor recessed Orbit D=50mm - Spot optic

X193.04: Casing made of plastic material for ground, floor, wall and ceiling with closing cap - Black

X194.04: Springs for installation on plasterboard on walls and on floating floorboards - Black

**Product code**

E081: Floor recessed Orbit D=50mm - Spot optic

Technical description

Recessed luminaire that can be installed in walls, ceilings and floors (only with a spring). It is designed to use white monochrome LED lamps, powered with a continuous current of 350/500/700mA per luminaire. The D = 50 mm round frame has hidden screws, an AISI 304 stainless steel body and frame and an extra-clear, sodium - calcium tempered glass cover. The luminaire is fixed to the outer casing using special locking seals that hold it in place. The unit comes complete with LED circuit and metallized plastic lens. The product's wiring system features an A2 stainless steel cable gland with a 1800 mm long H05RNF type 2x1 mm² output power cable. The cable is equipped with an anti-transpiration device (IP68) that consists of a silicone-coated joint located on the power cable. Two types of outer casing are available for installation and both can be ordered separately from the plastic optic assembly. The glass unit, optical assembly and outer casing together guarantee a maximum static load resistance of 2000 kg. The maximum surface temperature of the glass is less than 40°. Luminaire protected against polarity inversion.

Installation

The product is fixed to the outer casing using special locking seals with toolfree installation. The unit can be recessed in floors, ceilings or walls using the outer casing for installation. It can also be installed in counter walls and false ceilings using special spring accessories to be ordered separately.

Colour

Steel (13)

Weight (Kg)

0.54

Mounting

wall recessed|Floor recessed|ceiling recessed|ground recessed

Wiring

Ballasts available: 350/500/700mA traditional and watertight IP67 versions. The product comes complete with a 1800 mm long H05RNF type 2x1 mm² output power cable and an electronic plate with a 350/500/700mA Max LED. Ballast to be ordered separately.

Notes

IP68 rating on both the product and the cable using IP68 connectors * The product is not suitable for installation in swimming pools and fountains.

Complies with EN60598-1 and pertinent regulations



Complete immersion for limited periods,
not suitable for use in swimming pools or fountains.



The lighting fixtures were designed and tested to withstand a static load of up to 20000 N and to resist drive-over stress by vehicles with tires. The fixtures cannot be used in lanes subjected to horizontal stresses due to acceleration, braking and / or changes of direction.

Accessory code

X193.04: Casing made of plastic material for ground, floor, wall and ceiling with closing cap - Black

Technical description

Made of plastic (polypropylene). Complete with front cap, cable extraction system and twin cable entrance.

Installation

Mounted on (concrete) walls, floors and ceilings using special brackets (anchors)

Colour

Black (04)

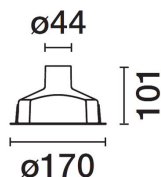
Weight (Kg)

0.1

Mounting

ground surface|Floor recessed|ground recessed

Complies with EN60598-1 and pertinent regulations





Accessory code

X194.04: Springs for installation on plasterboard on walls and on floating floorboards - Black

Technical description

An AISI 304 stainless steel spring is required to fasten a D= 50mm Light Up Orbit in false ceilings or counter walls

Installation

Installation requires a D=46mm hole in the false ceiling or counter wall.

Weight (Kg)

0.1

Mounting

wall surface|ceiling surface

Complies with EN60598-1 and pertinent regulations

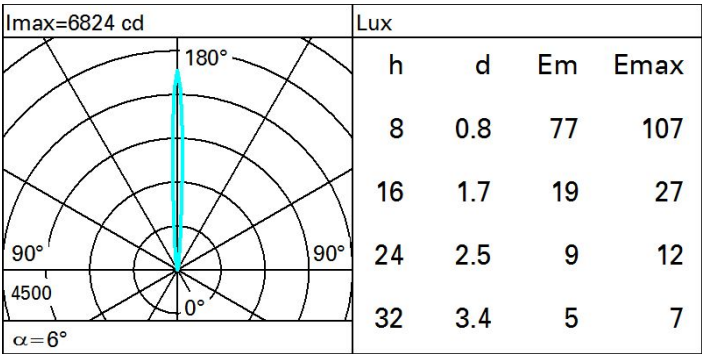
	10m
IP66	IP68

Technical data

Im system:	174	MacAdam Step:	2
W system:	2	Life Time LED 1:	69,000h - L80 - B10 (Ta 25°C)
Im source:	260	Life Time LED 2:	69,000h - L80 - B10 (Ta 40°C)
W source:	2	Ballast losses [W]:	0
Luminous efficiency (Im/W, real value):	87.1	Lamp code:	LED
Im in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	174	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	67	Number of optical assemblies:	1
Beam angle [°]:	6°	Ambient operating temperature range:	from -20°C to +35°C. (*)
CRI:	80	LED Current [mA]:	700
Colour temperature [K]:	4000		

* Preliminary data

Polar



UGR diagram

Corrected UGR values (at 200 lm bare lamp luminous flux)												
Reflect.: ceiling/cav walls work pl. Room dim x y		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30	0.30
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30	0.30
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
		viewed crosswise					viewed endwise					
2H	2H	13.2	15.1	13.6	15.5	15.8	13.2	15.1	13.6	15.5	15.8	
	3H	14.9	16.1	15.3	16.4	16.7	13.7	14.9	14.1	15.2	15.5	
	4H	15.4	16.3	15.8	16.6	16.9	13.9	14.8	14.3	15.1	15.4	
	6H	15.7	16.3	16.1	16.6	16.9	14.1	14.7	14.4	15.0	15.3	
	8H	15.7	16.4	16.1	16.7	17.1	14.0	14.7	14.4	15.1	15.4	
	12H	15.6	16.5	16.0	16.9	17.2	13.9	14.8	14.3	15.2	15.5	
4H	2H	13.9	14.8	14.3	15.1	15.4	15.4	16.3	15.8	16.6	16.9	
	3H	15.7	16.6	16.1	16.9	17.3	16.0	16.9	16.4	17.2	17.6	
	4H	16.1	17.3	16.5	17.7	18.2	16.1	17.3	16.5	17.7	18.2	
	6H	16.2	17.9	16.7	18.4	18.8	16.1	17.8	16.5	18.2	18.7	
	8H	16.2	18.0	16.7	18.5	19.0	16.0	17.9	16.5	18.3	18.8	
	12H	16.1	18.0	16.6	18.4	19.0	16.0	17.8	16.5	18.3	18.8	
8H	4H	16.0	17.9	16.5	18.3	18.8	16.2	18.0	16.7	18.5	19.0	
	6H	16.4	17.9	16.9	18.4	18.9	16.4	18.0	17.0	18.5	19.0	
	8H	16.6	17.8	17.1	18.2	18.8	16.6	17.8	17.1	18.2	18.8	
	12H	16.8	17.5	17.3	18.0	18.5	16.8	17.5	17.3	17.9	18.5	
12H	4H	16.0	17.8	16.5	18.3	18.8	16.1	18.0	16.6	18.4	19.0	
	6H	16.5	17.7	17.0	18.2	18.7	16.6	17.7	17.1	18.2	18.7	
	8H	16.8	17.5	17.3	17.9	18.5	16.8	17.5	17.3	18.0	18.5	
Variations with the observer position at spacing:												
S =		1.0H	0.4 / -0.4		0.4 / -0.4							
		1.5H	0.8 / -0.7		0.8 / -0.7							
		2.0H	1.5 / -0.6		1.5 / -0.6							