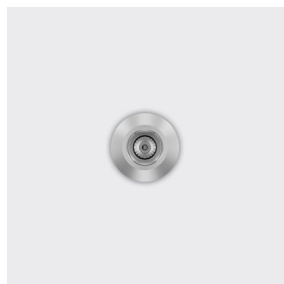


Last information update: November 2024

Product configuration: E070

E070: Floor recessed Orbit D=28mm - Spot optic

**Product code**

E070: Floor recessed Orbit D=28mm - Spot optic

Technical description

Recessed luminaire that can be installed in walls, ceilings and floors. It is designed to use white monochrome LED lamps, powered with a continuous current of Max 350mA per luminaire. The D = 28 mm round frame has hidden screws, and is made of AISI 304 stainless steel body and frame with 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 a metallized plastic reflector. 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)**
0.18**Mounting**

wall recessed|Floor recessed|ceiling recessed|ground recessed

Wiring

Ballasts available: 350mA 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 350mA 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.

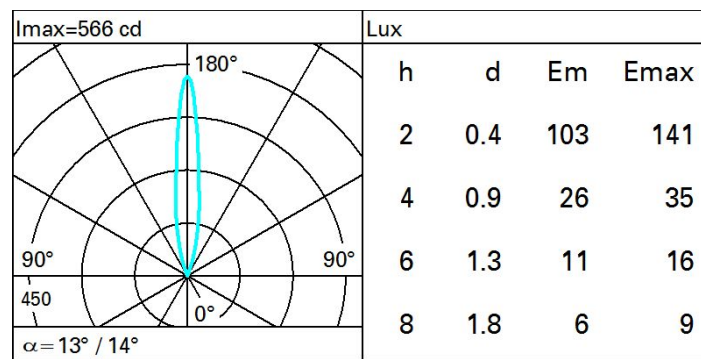


The lighting fixtures were designed and tested to withstand a static load of up to 20000 N and to resist drive-over stress by vehicles with tires. The fixtures cannot be used in lanes subjected to horizontal stresses due to acceleration, braking and / or changes of direction.

Technical data

Im system:	57	Colour temperature [K]:	4000
W system:	1	MacAdam Step:	2
Im source:	130	Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)
W source:	1	Lamp code:	LED
Luminous efficiency (Im/W, real value):	57.2	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	57	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	44	Intervallo temperatura ambiente:	from -25°C to 35°C.
Beam angle [°]:	14°	LED current [mA]:	350
CRI (minimum):	80		

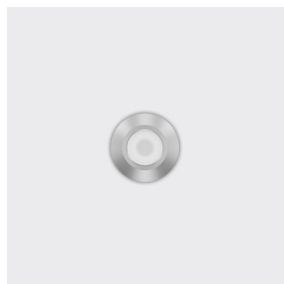
Polar



Last information update: November 2024

Product configuration: E073

E073: Floor recessed Orbit D=28mm - Diffuser optic

**Product code**

E073: Floor recessed Orbit D=28mm - Diffuser optic

Technical description

Recessed luminaire that can be installed in walls, ceilings and floors. It is designed to use white monochrome LED lamps, powered with a continuous current of Max 350mA per luminaire. The D = 28 mm round frame has hidden screws, and is made of AISI 304 stainless steel body and frame with an extra-clear, sodium - calcium tempered glass cover painted white on one side. 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 a metallized plastic reflector. 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)**
0.18**Mounting**

wall recessed|Floor recessed|ceiling recessed|ground recessed

Wiring

Ballasts available: 350mA 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 350mA 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.

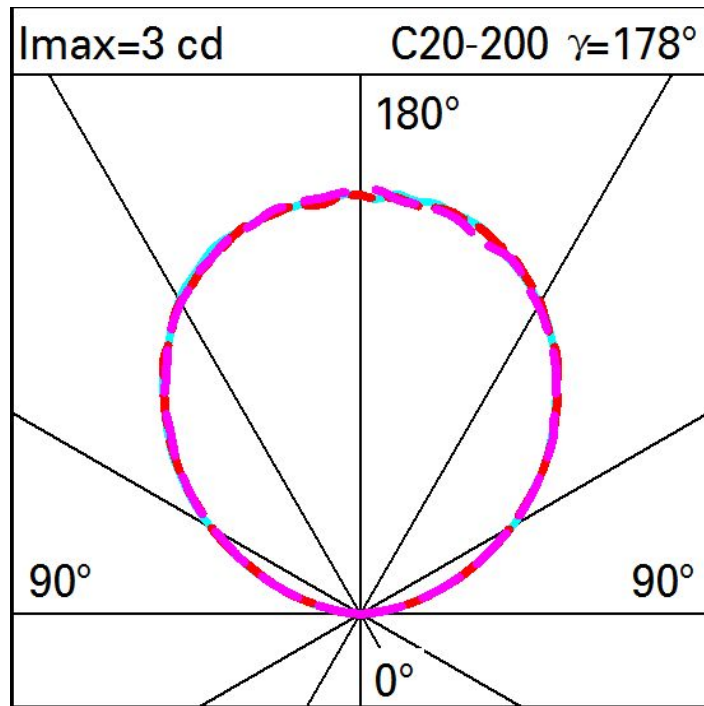


The lighting fixtures were designed and tested to withstand a static load of up to 20000 N and to resist drive-over stress by vehicles with tires. The fixtures cannot be used in lanes subjected to horizontal stresses due to acceleration, braking and / or changes of direction.

Technical data

Im system:	7	Colour temperature [K]:	3000
W system:	1	MacAdam Step:	2
Im source:	120	Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)
W source:	1	Lamp code:	LED
Luminous efficiency (Im/W, real value):	7.2	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	7	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	6	Intervallo temperatura ambiente:	from -25°C to 35°C.
CRI (minimum):	80	LED current [mA]:	350

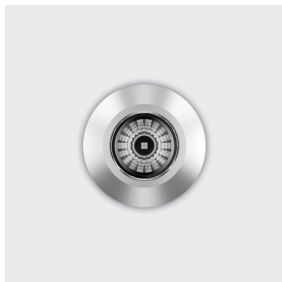
Polar



Last information update: November 2024

Product configuration: E076

E076: Floor recessed Orbit D=50mm - Medium optic

**Product code**

E076: Floor recessed Orbit D=50mm - Medium 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 Max 350mA 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 a metallized plastic OPTI BEAM reflector. 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: 350mA 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 350mA 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.

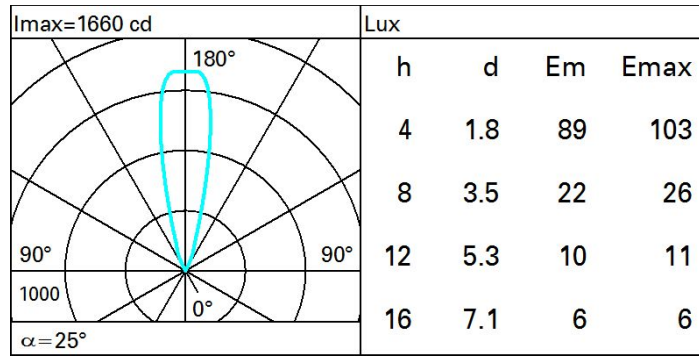


□ The lighting fixtures were designed and tested to withstand a static load of up to 20000 N and to resist drive-over stress by vehicles with tires. The fixtures cannot be used in lanes subjected to horizontal stresses due to acceleration, braking and / or changes of direction.

Technical data

Im system:	338	Colour temperature [K]:	2700
W system:	4	MacAdam Step:	2
Im source:	470	Life Time LED 1:	98,000h - L80 - B10 (Ta 25°C)
W source:	3.8	Life Time LED 2:	89,000h - L80 - B10 (Ta 40°C)
Luminous efficiency (Im/W, real value):	84.6	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]:	338	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	72	Number of optical assemblies:	1
Beam angle [°]:	24°	Intervallo temperatura ambiente:	from -25°C to 50°C.
CRI (minimum):	80	LED current [mA]:	350

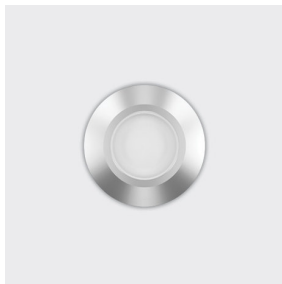
Polar



Last information update: November 2024

Product configuration: E089+350mA

E089: Floor recessed Orbit D=50mm - Diffuser optic

**Product code**

E089: Floor recessed Orbit D=50mm - Diffuser 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. 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.

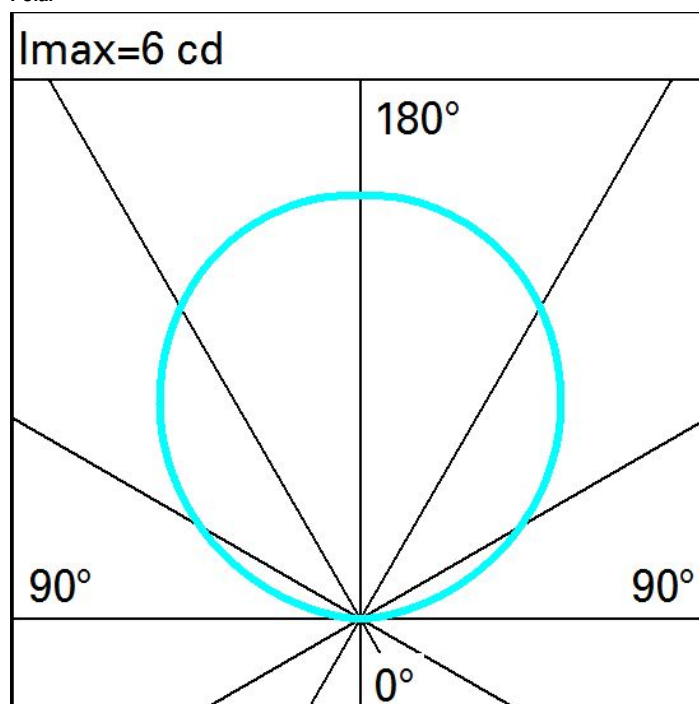


□ The lighting fixtures were designed and tested to withstand a static load of up to 20000 N and to resist drive-over stress by vehicles with tires. The fixtures cannot be used in lanes subjected to horizontal stresses due to acceleration, braking and / or changes of direction.

Technical data

Im system:	18	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	Lamp code:	LED
Luminous efficiency (Im/W, real value):	18.2	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	18	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	13	Intervallo temperatura ambiente:	from -25°C to 50°C.
CRI (minimum):	80	LED current [mA]:	350
Colour temperature [K]:	4000		

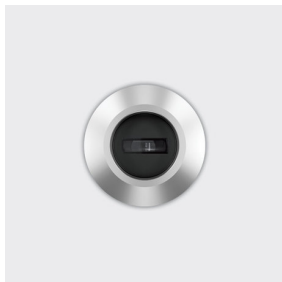
Polar



Last information update: November 2024

Product configuration: E092

E092: Floor recessed Orbit D=50mm - Blade optic

**Product code**

E092: Floor recessed Orbit D=50mm - Blade 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 Max 350mA 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. 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: 350mA 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 350mA 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.

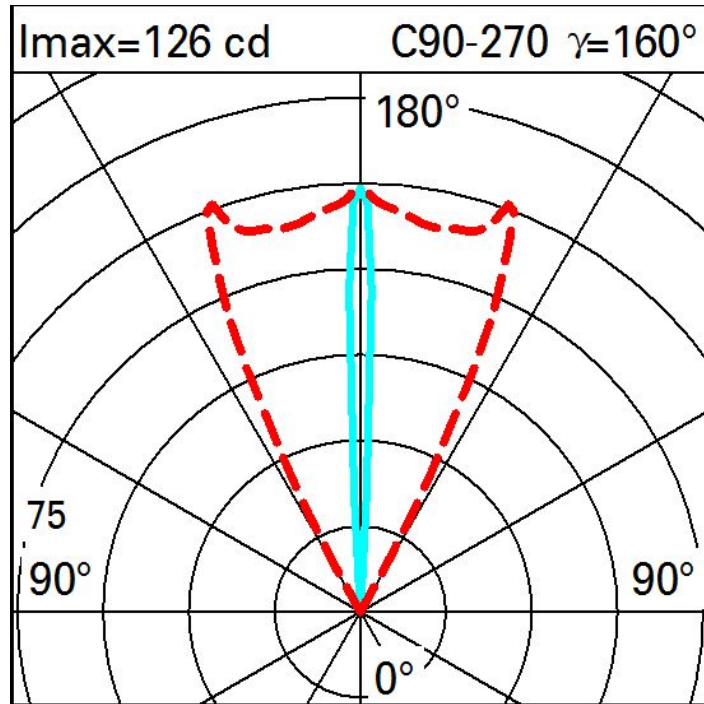


The lighting fixtures were designed and tested to withstand a static load of up to 20000 N and to resist drive-over stress by vehicles with tires. The fixtures cannot be used in lanes subjected to horizontal stresses due to acceleration, braking and / or changes of direction.

Technical data

Im system:	10	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	Lamp code:	LED
Luminous efficiency (Im/W, real value):	9.8	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	10	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	7	Intervallo temperatura ambiente:	from -25°C to 50°C.
CRI (minimum):	80	LED current [mA]:	350
Colour temperature [K]:	4000		

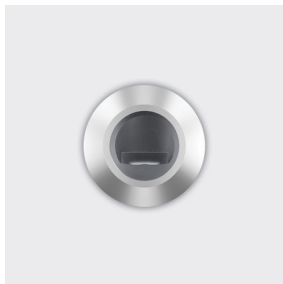
Polar



Last information update: November 2024

Product configuration: E086

E086: Floor recessed Orbit D=50mm - Wall Washer optic

**Product code**

E086: Floor recessed Orbit D=50mm - Wall Washer 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 Max 350mA 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 a plastic reflector. 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: 350mA 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 350mA 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.

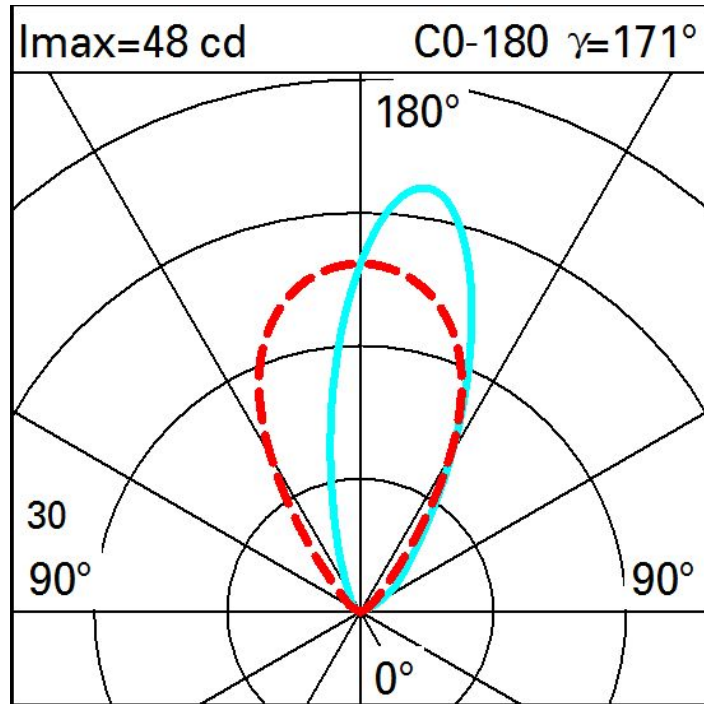


The lighting fixtures were designed and tested to withstand a static load of up to 20000 N and to resist drive-over stress by vehicles with tires. The fixtures cannot be used in lanes subjected to horizontal stresses due to acceleration, braking and / or changes of direction.

Technical data

Im system:	35	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	Lamp code:	LED
Luminous efficiency (Im/W, real value):	35	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	35	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	25	Intervallo temperatura ambiente:	from -25°C to 50°C.
CRI (minimum):	80	LED current [mA]:	350
Colour temperature [K]:	4000		

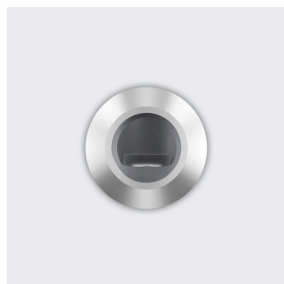
Polar



Last information update: November 2024

Product configuration: EI84

EI84: Floor recessed Orbit D=50mm - Wall Washer Super Comfort optic

**Product code**

EI84: Floor recessed Orbit D=50mm - Wall Washer Super Comfort 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 Max 350mA 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 a plastic reflector. The product's wiring system features an A2 stainless steel cable gland with a 1800 mm long H05RNLF 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. Inclusive of BY-PASS device that allows the series-connected system to work in case of faults.C.

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

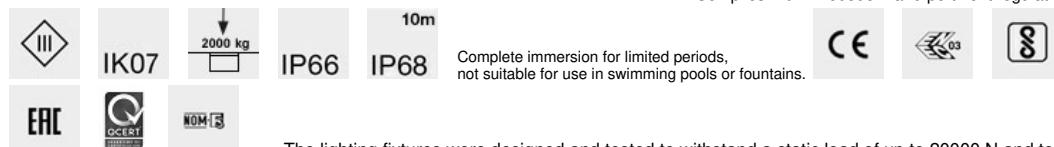
Wiring

Ballasts available: 350mA traditional and watertight IP67 versions. The product comes complete with a 1800 mm long H05RNLF type 2x1 mm² output power cable and an electronic plate with a 350mA 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

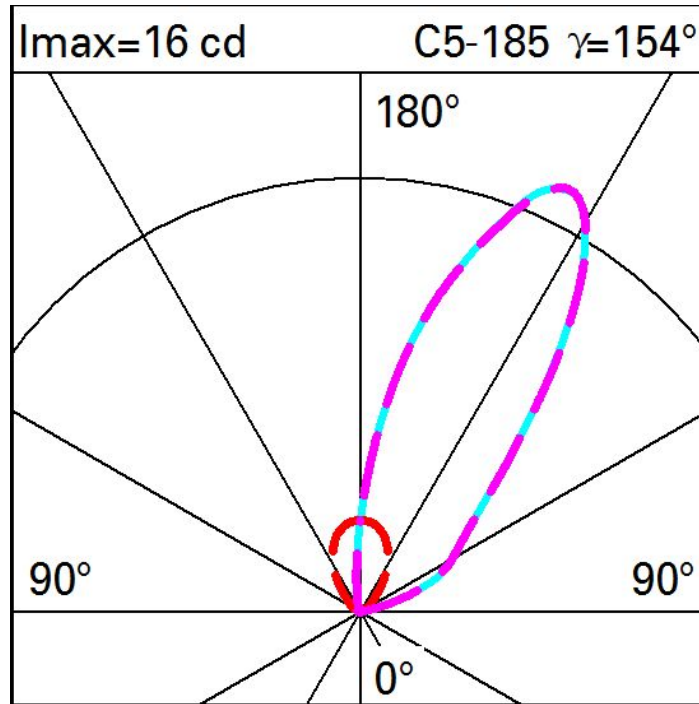
Complete immersion for limited periods,
not suitable for use in swimming pools or fountains.

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.

Technical data

Im system:	12	MacAdam Step:	2
W system:	1	Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)
Im source:	130	Life Time LED 2:	100,000h - L80 - B10 (Ta 40°C)
W source:	1	Lamp code:	LED
Luminous efficiency (Im/W, real value):	11.7	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	12	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	9	Intervallo temperatura ambiente:	from -25°C to 50°C.
CRI (minimum):	80	LED current [mA]:	350
Colour temperature [K]:	3000		

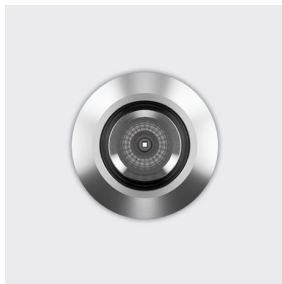
Polar



Last information update: November 2024

Product configuration: E097+350mA

E097: Floor recessed Orbit D=80mm - Flood optic

**Product code**

E097: Floor recessed Orbit D=80mm - Flood optic

Technical description

Recessed luminaire that can be installed in walls and floors. It is designed to use white monochrome LED lamps, powered with a continuous current of 350/500mA per luminaire. The D = 80 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 a metallized plastic OPTI BEAM reflector. 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 or walls using the outer casing for installation. It can also be installed in counter walls using special spring accessories to be ordered separately.

Colour
Steel (13)

Weight (Kg)
1.28

Mounting

wall recessed|Floor recessed|ceiling recessed|ground recessed

Wiring

Ballasts available: 350/500mA 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 350/500mA 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.

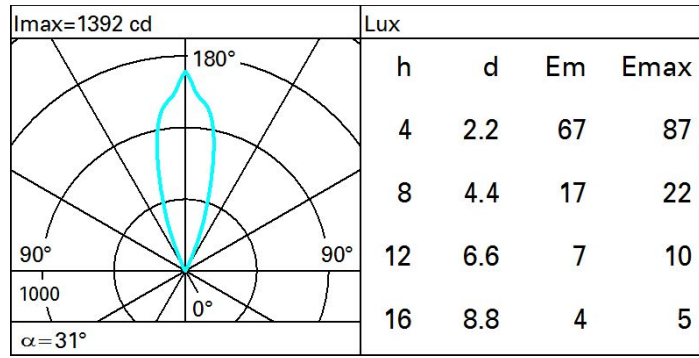


The lighting fixtures were designed and tested to withstand a static load of up to 20000 N and to resist drive-over stress by vehicles with tires. The fixtures cannot be used in lanes subjected to horizontal stresses due to acceleration, braking and / or changes of direction.

Technical data

Im system:	371	Colour temperature [K]:	3000
W system:	4	MacAdam Step:	2
Im source:	470	Life Time LED 1:	98,000h - L80 - B10 (Ta 25°C)
W source:	3.8	Life Time LED 2:	99,000h - L80 - B10 (Ta 40°C)
Luminous efficiency (Im/W, real value):	92.8	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]:	371	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	79	Number of optical assemblies:	1
Beam angle [°]:	30°	Intervallo temperatura ambiente:	from -25°C to 50°C.
CRI (minimum):	80	LED current [mA]:	350

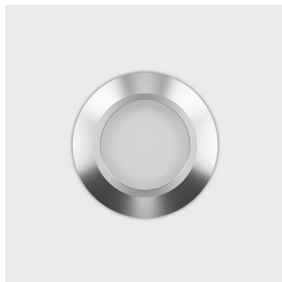
Polar



Last information update: November 2024

Product configuration: E106+350mA

E106: Floor recessed Orbit D=80mm - Diffuser optic

**Product code**

E106: Floor recessed Orbit D=80mm - Diffuser optic

Technical description

Recessed luminaire that can be installed in walls and floors. It is designed to use white monochrome LED lamps, powered with a continuous current of 350/500mA per luminaire. The D = 80 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. 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 or walls using the outer casing for installation. It can also be installed in counter walls using special spring accessories to be ordered separately.

Colour
Steel (13)**Weight (Kg)**
1.28**Mounting**

wall recessed|Floor recessed|ground recessed

Wiring

Ballasts available: 350/500mA 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 350/500mA 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

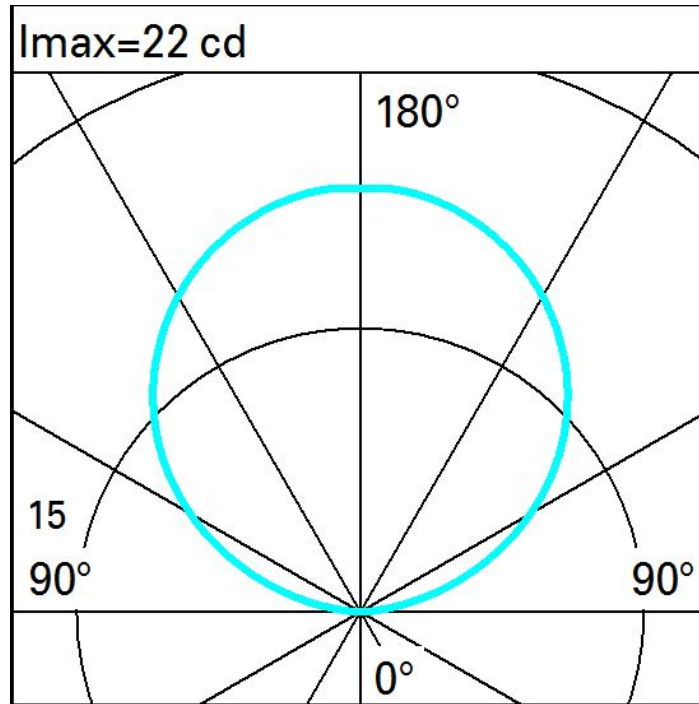
Complete immersion for limited periods,
not suitable for use in swimming pools or fountains.

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.

Technical data

Im system:	66	MacAdam Step:	2
W system:	4	Life Time LED 1:	99,000h - L80 - B10 (Ta 25°C)
Im source:	470	Life Time LED 2:	84,000h - L80 - B10 (Ta 40°C)
W source:	3.8	Lamp code:	LED
Luminous efficiency (Im/W, real value):	16.5	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	66	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	14	Intervallo temperatura ambiente:	from -25°C to 50°C.
CRI (minimum):	80	LED current [mA]:	350
Colour temperature [K]:	3000		

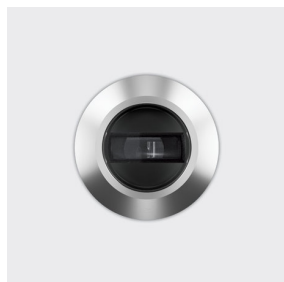
Polar



Last information update: November 2024

Product configuration: E110+500mA

E110: Floor recessed Orbit D=80mm - Blade optic

**Product code**

E110: Floor recessed Orbit D=80mm - Blade optic

Technical description

Recessed luminaire that can be installed in walls and floors. It is designed to use white monochrome LED lamps, powered with a continuous current of 350/500mA per luminaire. The D = 80 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. 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 or walls using the outer casing for installation. It can also be installed in counter walls using special spring accessories to be ordered separately.

Colour
Steel (13)

Weight (Kg)
1.28

Mounting

wall recessed|Floor recessed|ground recessed

Wiring

Ballasts available: 350/500mA 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 350/500mA 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.

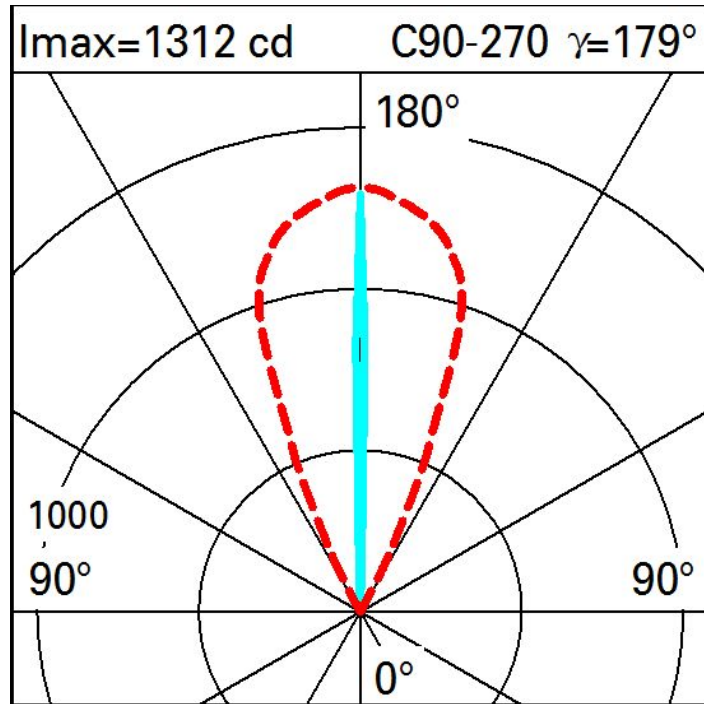


□ The lighting fixtures were designed and tested to withstand a static load of up to 20000 N and to resist drive-over stress by vehicles with tires. The fixtures cannot be used in lanes subjected to horizontal stresses due to acceleration, braking and / or changes of direction.

Technical data

Im system:	46	MacAdam Step:	2
W system:	4.5	Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)
Im source:	570	Life Time LED 2:	100,000h - L80 - B10 (Ta 40°C)
W source:	4.2	Lamp code:	LED
Luminous efficiency (Im/W, real value):	10.1	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	46	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	8	Intervallo temperatura ambiente:	from -25°C to 50°C.
CRI (minimum):	80	LED current [mA]:	500
Colour temperature [K]:	4000		

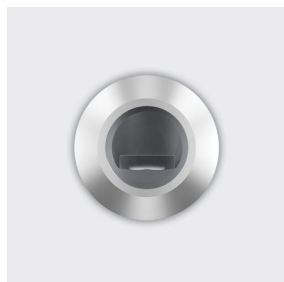
Polar



Last information update: November 2024

Product configuration: E104+350mA

E104: Floor recessed Orbit D=80mm - Wall Washer optic



Product code

E104: Floor recessed Orbit D=80mm - Wall Washer optic

Technical description

Recessed luminaire that can be installed in walls and floors. It is designed to use white monochrome LED lamps, powered with a continuous current of 350/500mA per luminaire. The D = 80 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. 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 or walls using the outer casing for installation. It can also be installed in counter walls using special spring accessories to be ordered separately.

Colour
Steel (13)

Weight (Kg)
1.28

Mounting

wall recessed|Floor recessed|ground recessed

Wiring

Ballasts available: 350/500mA 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 350/500mA 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.

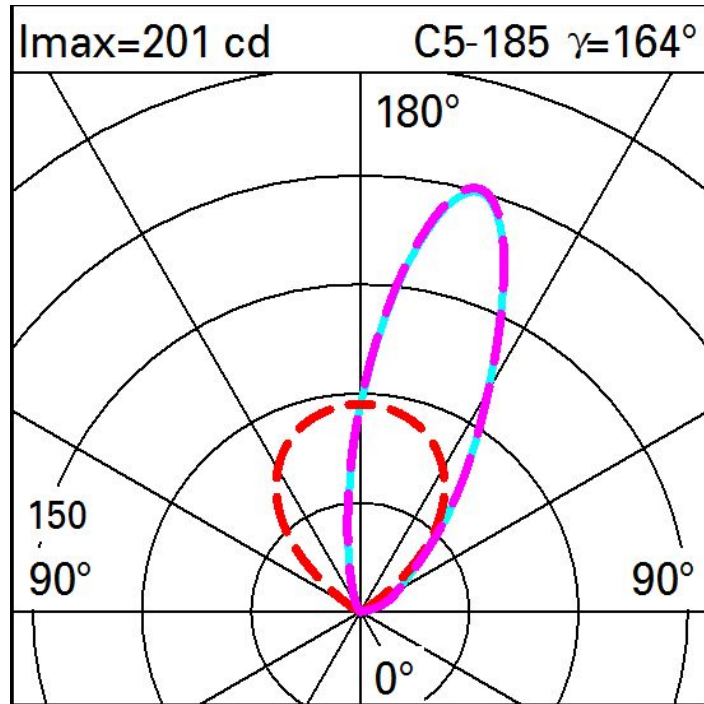


The lighting fixtures were designed and tested to withstand a static load of up to 20000 N and to resist drive-over stress by vehicles with tires. The fixtures cannot be used in lanes subjected to horizontal stresses due to acceleration, braking and / or changes of direction.

Technical data

Im system:	168	MacAdam Step:	2
W system:	3	Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)
Im source:	400	Life Time LED 2:	100,000h - L80 - B10 (Ta 40°C)
W source:	3	Lamp code:	LED
Luminous efficiency (Im/W, real value):	56	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	168	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	42	Intervallo temperatura ambiente:	from -25°C to 50°C.
CRI (minimum):	80	LED current [mA]:	350
Colour temperature [K]:	4000		

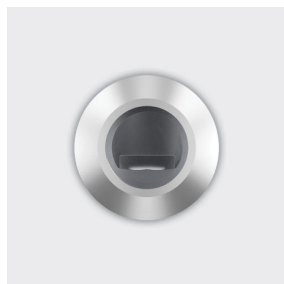
Polar



Last information update: November 2024

Product configuration: EI18+500mA

EI18: Floor recessed Orbit D=80mm - Wall Washer Super Comfort optic

**Product code**

EI18: Floor recessed Orbit D=80mm - Wall Washer Super Comfort optic

Technical description

Recessed luminaire that can be installed in walls and floors (only with a spring). It is designed to use white monochrome LED lamps, powered with a continuous current of 350/500mA per luminaire. The D = 80 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. 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. Inclusive of BY-PASS device that allows the series-connected system to work in case of faults.C.

Installation

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

Colour
Steel (13)

Weight (Kg)
1.28

Mounting

wall recessed|Floor recessed|ceiling recessed|ground recessed

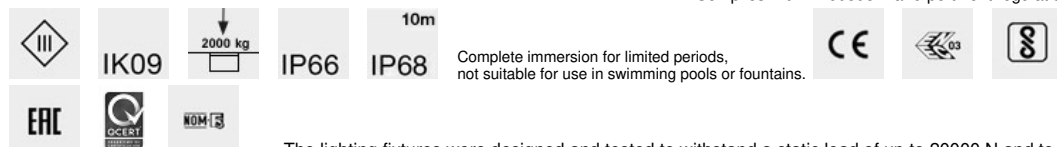
Wiring

Ballasts available: 350/500mA 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 350/500mA 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.

Technical data

Im system:	52	Colour temperature [K]:	3000
W system:	4.2	MacAdam Step:	2
Im source:	520	Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)
W source:	4.2	Lamp code:	LED
Luminous efficiency (Im/W, real value):	12.4	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	52	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	10	Intervallo temperatura ambiente:	from -25°C to 35°C.
CRI (minimum):	80	LED current [mA]:	500

Polar

