



Bus & Coach Division



UNECE

UNECE R10



TEKNOWARE OMNI

LED spotlights for the automotive industry.

Versatile spotlight solutions improve travel safety and comfort, day and night. Teknoware Omni spotlights can be used to implement main, spot, night and reading lights or emergency lighting. By using different colour tones and dimming, you create the right mood for travel: premium interior lighting adds to the experience of comfort and relaxation. Dimming also has many other benefits, for example, reducing glare, increasing the lifetime of the light units and lowering energy consumption.

Teknoware Omni is a family of LED spotlights specially designed for use in the automotive industry. Omni's wide range of body colours and mounting options offer multiple choices for a variety of applications and systems. The whole product range is available with different supply voltages and colour temperatures.

FACTS IN BRIEF



FOR AUTOMOTIVES



VERSATILE



STYLISH



COMPACT



EASY TO INSTALL

Teknoware Omni Recessed



12-24 VDC Non-dimmable LED spot options

Black RAL9005		Grey RAL7046		White RAL9003	
Product ID	Colour temperature	Product ID	Colour temperature	Product ID	Colour temperature
TVP7711WB	3000 K	TVP7711WG	3000 K	TVP7711WW	3000 K
TVP7711NB	4000 K	TVP7711NG	4000 K	TVP7711NW	4000 K
TVP7711CB	5000 K	TVP7711CG	5000 K	TVP7711CW	5000 K

24 VDC Dimmable LED spot options

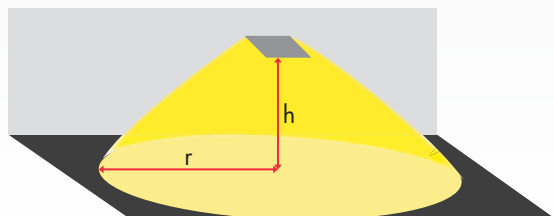
Black RAL9005		Grey RAL7046		White RAL9003	
Product ID	Colour temperature	Product ID	Colour temperature	Product ID	Colour temperature
TVP7701WB	3000 K	TVP7701WG	3000 K	TVP7701WW	3000 K
TVP7701NB	4000 K	TVP7701NG	4000 K	TVP7701NW	4000 K
TVP7701CB	5000 K	TVP7701CG	5000 K	TVP7701CW	5000 K

Product information

Diameter	Ø 50 mm
Installation hole	Ø 42 mm
Depth	20 mm

Electrical characteristics

Light input voltage	12-24 VDC (9-32 VDC) 24 VDC (18-32 VDC)
Input current	12 VDC
Nominal	105 mA
Min max	35 – 155 mA
Input current	24 VDC
Nominal	52 mA
Min max	10 – 85 mA
Dimming (only 24 VDC models)	PWM
Light output	~150 lumens h=1.0 m, r=0.5 m Peak: >230 lux, >150 lux @ 0.5 m radius



LED information

Colour temperature	3000 K, 4000 K, 5000 K
Colour rendering index	>80
Lumen maintenance	>50 000 h L70

Material characteristics

Material of the circuit board	FR-4
Material of the frame and lens	Polycarbonate

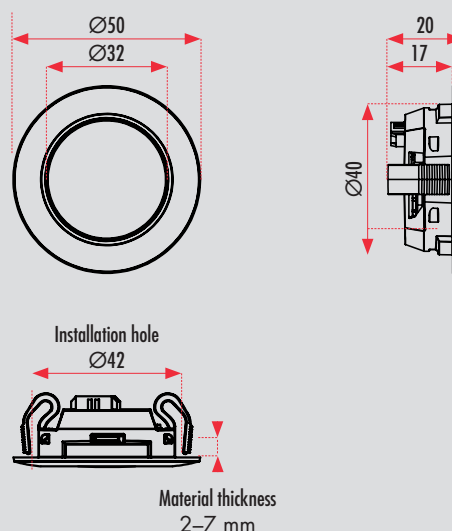
Environmental conditions

Operating temperature	-25 °C ... +70 °C
Storage	-40 °C ... +70 °C

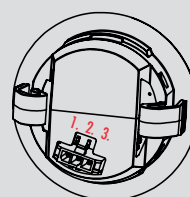
Product features

- Electromagnetic compatibility UNECE R10
- Frame and lens materials UNECE R118 approved
- Protected against reverse input voltage polarity

Dimensions [mm]

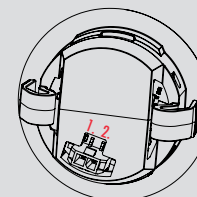


Counter connector
Cvilux CP35 (CP3503S001S)



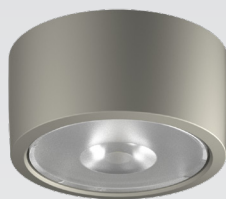
1. PWM dimming: 100 % (+24 VDC)
2. +24 VDC
3. -

Counter connector
Cvilux CP35 (CP3502S001S)



1. 12-24 VDC
2. -

Teknoware Omni Surface



12-24 VDC Non-dimmable LED spot options

Black RAL9005		Grey RAL7046		White RAL9003	
Product ID	Colour temperature	Product ID	Colour temperature	Product ID	Colour temperature
TVP7712WB	3000 K	TVP7712WG	3000 K	TVP7712WW	3000 K
TVP7712NB	4000 K	TVP7712NG	4000 K	TVP7712NW	4000 K
TVP7712CB	5000 K	TVP7712CG	5000 K	TVP7712CW	5000 K

24 VDC Dimmable LED spot options

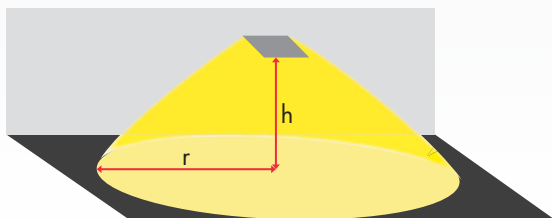
Black RAL9005		Grey RAL7046		White RAL9003	
Product ID	Colour temperature	Product ID	Colour temperature	Product ID	Colour temperature
TVP7702WB	3000 K	TVP7702WG	3000 K	TVP7702WW	3000 K
TVP7702NB	4000 K	TVP7702NG	4000 K	TVP7702NW	4000 K
TVP7702CB	5000 K	TVP7702CG	5000 K	TVP7702CW	5000 K

Product information

Diameter	40 mm
Depth	20 mm

Electrical characteristics

Light input voltage	12-24 VDC (9-32 VDC) 24 VDC (18-32 VDC)
Input current	12 VDC
Nominal	105 mA
Min max	35 – 155 mA
Input current	24 VDC
Nominal	52 mA
Min max	10 – 85 mA
Dimming (only 24 VDC models)	PWM
Light output	~150 lumens h=1.0 m, r=0.5 m Peak: >230 lux, >150 lux @ 0.5 m radius



LED information

Colour temperature	3000 K, 4000 K, 5000 K
Colour rendering index	>80
Lumen maintenance	>50 000 h L70

Material characteristics

Material of the circuit board	FR-4
Material of the frame	Zinc alloy
Material of the lens	Polycarbonate

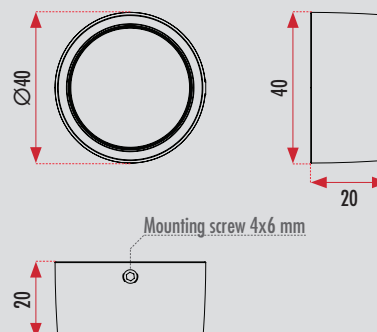
Environmental conditions

Operating temperature	-25 °C ... +70 °C
Storage	-40 °C ... +70 °C

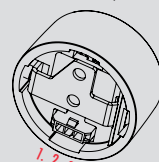
Product features

- Electromagnetic compatibility UNECE R10
- Frame and lens materials UNECE R118 approved
- Protected against reverse input voltage polarity

Dimensions [mm]

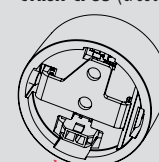


Counter connector Cvilux CP35 (CP3503S001S)



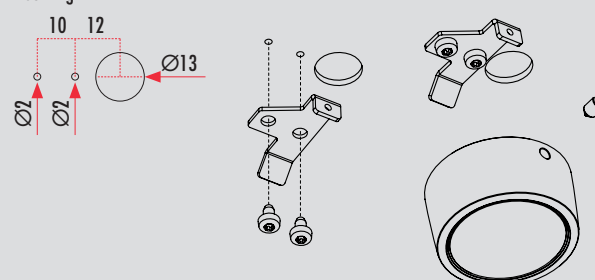
1. PWM dimming: 100 % (+24 VDC)
2. +24 VDC
3. -

Counter connector Cvilux CP35 (CP3502S001S)



1. 12-24 VDC
2. -

Mounting



Teknoware Omni Stair



12-24 VDC Non-dimmable LED spot options

Black RAL9005		Grey RAL7046		White RAL9003	
Product ID	Colour temperature	Product ID	Colour temperature	Product ID	Colour temperature
TVP7713WB	3000 K	TVP7713WG	3000 K	TVP7713WW	3000 K
TVP7713NB	4000 K	TVP7713NG	4000 K	TVP7713NW	4000 K
TVP7713CB	5000 K	TVP7713CG	5000 K	TVP7713CW	5000 K

24 VDC Dimmable LED spot options

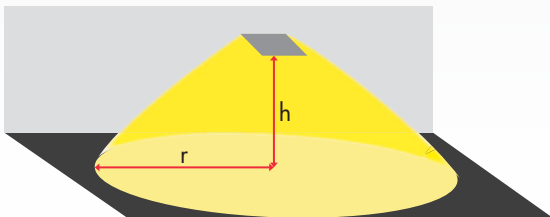
Black RAL9005		Grey RAL7046		White RAL9003	
Product ID	Colour temperature	Product ID	Colour temperature	Product ID	Colour temperature
TVP7703WB	3000 K	TVP7703WG	3000 K	TVP7703WW	3000 K
TVP7703NB	4000 K	TVP7703NG	4000 K	TVP7703NW	4000 K
TVP7703CB	5000 K	TVP7703CG	5000 K	TVP7703CW	5000 K

Product information

Diameter	Ø 62 mm
Installation hole	Ø 51–52 mm
Depth	35 mm

Electrical characteristics

Light input voltage	12-24 VDC (9–32 VDC) 24 VDC (18–32 VDC)
Input current	12 VDC
Nominal	105 mA
Min max	35 – 155 mA
Input current	24 VDC
Nominal	52 mA
Min max	10 – 85 mA
Dimming (only 24 VDC models)	PWM
Light output	~150 lumens h=1.0 m, r=0.5 m Peak: >230 lux, >150 lux @ 0.5 m radius



LED information

Colour temperature	3000 K, 4000 K, 5000 K
Colour rendering index	>80
Lumen maintenance	>50 000 h L70

Material characteristics

Material of the circuit board	FR-4
Material of the frame and lens	Polycarbonate

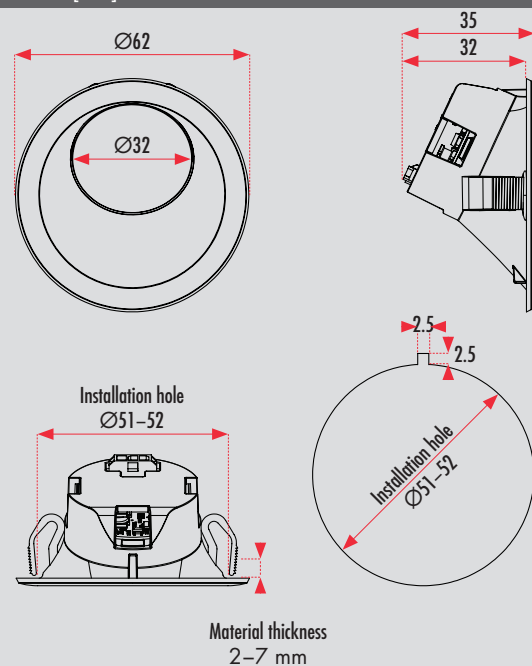
Environmental conditions

Operating temperature	-25 °C ... +70 °C
Storage	-40 °C ... +70 °C

Product features

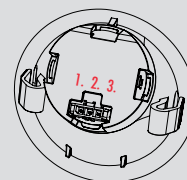
- Electromagnetic compatibility UNECE R10
- Frame and lens materials UNECE R118 approved
- Protected against reverse input voltage polarity

Dimensions [mm]

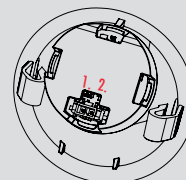


Counter connector
Cvilux CP35 (CP3503S001S)

Counter connector
Cvilux CP35 (CP3502S001S)



1. PWM dimming: 100 % (+24 VDC)
2. +24 VDC
3. -



1. 12-24 VDC
2. -

Teknoware Omni Adjustable



12-24 VDC Non-dimmable LED spot options

Black RAL9005		Grey RAL7046		White RAL9003	
Product ID	Colour temperature	Product ID	Colour temperature	Product ID	Colour temperature
TVP7714WB	3000 K	TVP7714WG	3000 K	TVP7714WW	3000 K
TVP7714NB	4000 K	TVP7714NG	4000 K	TVP7714NW	4000 K
TVP7714CB	5000 K	TVP7714CG	5000 K	TVP7714CW	5000 K

24 VDC Dimmable LED spot options

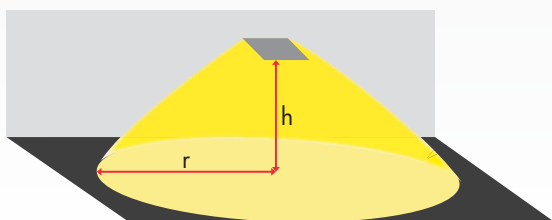
Black RAL9005		Grey RAL7046		White RAL9003	
Product ID	Colour temperature	Product ID	Colour temperature	Product ID	Colour temperature
TVP7704WB	3000 K	TVP7704WG	3000 K	TVP7704WW	3000 K
TVP7704NB	4000 K	TVP7704NG	4000 K	TVP7704NW	4000 K
TVP7704CB	5000 K	TVP7704CG	5000 K	TVP7704CW	5000 K

Product information

Diameter	ø 72 mm
Installation hole	ø 65 mm
Depth	30 mm

Electrical characteristics

Light input voltage	12-24 VDC (9-32 VDC) 24 VDC (18-32 VDC)
Input current	12 VDC
Nominal	105 mA
Min max	35 – 155 mA
Input current	24 VDC
Nominal	52 mA
Min max	10 – 85 mA
Dimming (only 24 VDC models)	PWM
Light output	~150 lumens h=1.0 m, r=0.5 m Peak: >230 lux, >150 lux @ 0.5 m radius



LED information

Colour temperature	3000 K, 4000 K, 5000 K
Colour rendering index	>80
Lumen maintenance	>50 000 h L70

Material characteristics

Material of the circuit board	FR-4
Material of the frame and lens	Polycarbonate

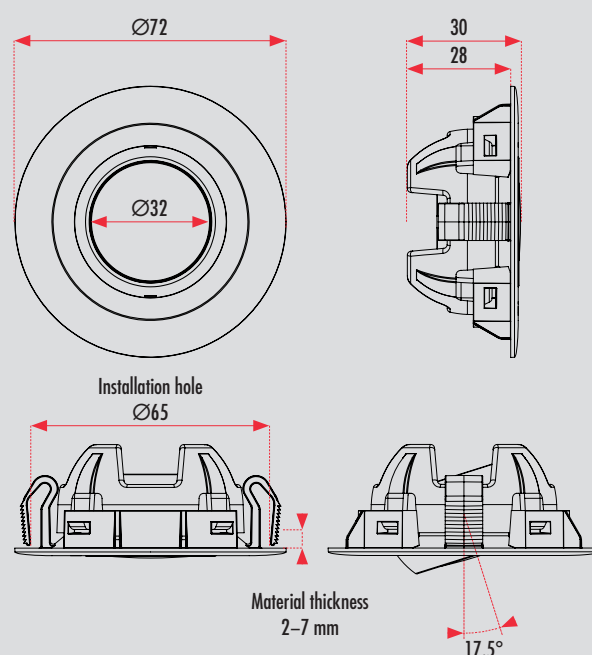
Environmental conditions

Operating temperature	-25 °C ... +70 °C
Storage	-40 °C ... +70 °C

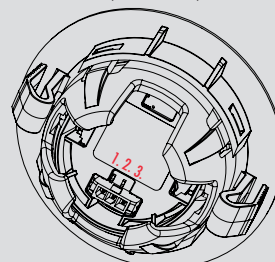
Product features

- Electromagnetic compatibility UNECE R10T
- Frame and lens materials UNECE R118 approved
- Protected against reverse input voltage polarity

Dimensions [mm]

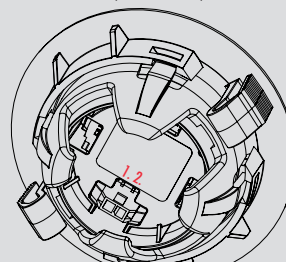


Counter connector
Cvilux CP35 (CP3503S001S)



1. PWM dimming: 100 % (+24 VDC)
2. +24 VDC
3. -

Counter connector
Cvilux CP35 (CP3502S001S)



1. 12-24 VDC
2. -

Teknoware Omni Swan



12-24 VDC Non-dimmable LED spot options

Black RAL9005	
Product ID	Colour temperature
TVP7715WB	3000 K
TVP7715NB	4000 K
TVP7715CB	5000 K

24 VDC Dimmable LED spot options

Black RAL9005	
Product ID	Colour temperature
TVP7705WB	3000 K
TVP7705NB	4000 K
TVP7705CB	5000 K

Product information

Length 359 mm

Electrical characteristics

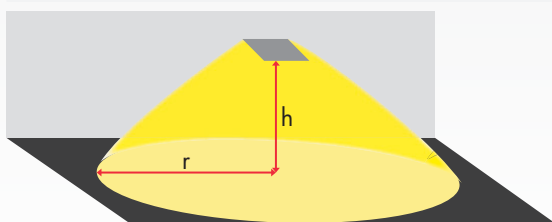
Light input voltage 12-24 VDC (9-32 VDC)
24 VDC (18-32 VDC)

Input current **12 VDC**
Nominal 105 mA
Min max 35 – 155 mA

Input current **24 VDC**
Nominal 52 mA
Min max 10 – 85 mA

Dimming (only 24 VDC models) PWM

Light output ~150 lumens
h=1.0 m, r=0.5 m
Peak: >230 lux,
>150 lux @ 0.5 m radius



LED information

Colour temperature 3000 K, 4000 K, 5000 K

Colour rendering index >80

Lumen maintenance >50 000 h L70

Material characteristics

Material of the circuit board FR-4

Material of the frame Aluminium

Material of the lens Polycarbonate

Environmental conditions

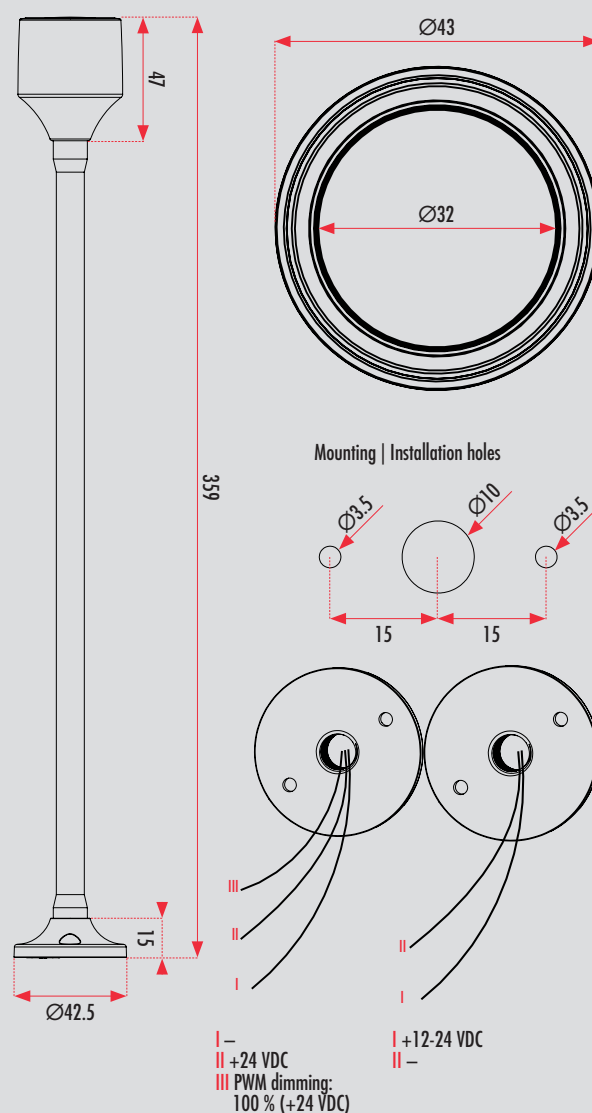
Operating temperature -25 °C ... +70 °C

Storage -40 °C ... +70 °C

Product features

- Electromagnetic compatibility UNECE R10
- Frame and lens materials UNECE R118 approved
- Protected against reverse input voltage polarity

Dimensions [mm]



LET THERE BE CONFIDENCE.

People tend to take the presence of light for granted. We take it seriously. Our passion for finding the best interior solution or lighting for our customers' needs is the foundation which unites our three businesses. The Bus & Coach and Rail Divisions aim to increase our customer vehicles' comfort, safety and functionality. The Emergency Lighting Division is innovating new means and measures to improve the safety and usability of buildings and cruise ships.

Teknoware is your local partner. We employ over 450 experts in 8 countries, and our sales network serves customers in over 50 countries. Our head office and largest production facilities are located in Finland, and our other world-class production units are located in the UK, Malaysia, Poland and the US.

Teknoware is part of the Teknopower Group.

Teknoware – Designed in Finland.