



PARLEDO

LAY-IN LUMINAIRES WITH HIGH PROTECTION TYPE IP65

PARLEDO

Recessed modular luminaires

A CLEAN SOLUTION WITH IP 65

The term “a clean model” has more than one meaning when used in connection with the new PARLEDO. The admiration does not only apply to the luminaire itself, which can undoubtedly serve as a model in terms of aesthetic reduction with a seemingly frameless appearance. The high degree of protection IP 65 on both sides of the luminaire and control gear predestines the easy-to-clean light surface with smooth opal or microprismatic PC diffuser for use with high hygienic requirements such as in the health care sector in treatment, examination and therapy rooms as well as in laboratories.

The versions with light colour 940 offer the highest quality of light and, thanks to the correct colour spectrum, CRI > 90 and a Cyanosis Observation Index (COI) of less than 3.3, enable reliable detection of the medical diagnosis “cyanosis” through clinical observation.

Thanks to its MultiLumen function and excellent glare control, PARLEDO is ideally suited for standard-compliant use at VDU workstations, even at high luminous flux levels. With PARLEDO you are well equipped in the future: The DALI versions are IoT-ready and can be regulated via TouchDIM.

ADVANTAGES

- ⊕ For high hygienic requirements.
- ⊕ Particularly suitable for use in healthcare and industry.
- ⊕ Model with light colour 940 suitable for medical applications in accordance with the Cyanosis Observation Index (COI < 3.3)
- ⊕ Diffuser made from resilient polycarbonate (PC) with smooth surface on room side for low sensitivity to dirt and easy cleaning.
- ⊕ Protection type IP 65 for luminaire and control gear on room and ceiling side.
- ⊕ Impact resistance IK06 for high impact resistance.
- ⊕ Frameless appearance in the modular ceiling thanks to the extra slim frame.
- ⊕ Diffuser microprismatic: ideal for office areas (UGR ≤ 19) and environments with computer screens in accordance with EN 12464-1.
- ⊕ Excellent glare control even with high luminous fluxes.
- ⊕ **MultiLumen:** 4 steps adjustable luminous flux.
- ⊕ Luminous efficiency up to 147 lm/W.
- ⊕ LED rated life 60000 h (L80).
- ⊕ Colour tolerance within 3-steps MacAdam (3 SDCM).
- ⊕ Flicker: DALI ≤ 1%, MultiLumen < 5%.
- ⊕ Easy to install thanks to extended connection cable (2 m).
- ⊕ Suitable for through wiring as standard.
- ⊕ DALI variants: IoT Ready and dimming via TouchDIM possible.
- ⊕ Qualified for use in the food and drink industry.





PARLEDO

Technology



Particularly suitable for the requirements of treatment rooms in healthcare facilities, in accordance with EN 12464 (UGR \leq 19, CRI $>$ 90).

IP65

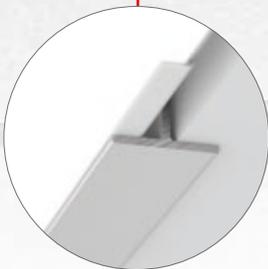
Degree of protection IP 65, dustproof and jet-proof.

Protection class IP 65 for luminaire and control gear on room and ceiling side.



DALI variants:
IoT Ready

Frameless appearance in the modular ceiling thanks to the extra slim frame.



For high hygienic requirements.

Diffuser made from resilient polycarbonate (PC) with smooth surface on room side for low sensitivity to dirt and easy cleaning.



MultiLumen version:

The user can choose from four different luminous flux levels. This can be reversibly set manually on the external control gear.



Excellent glare control even with high luminous fluxes.

Diffuser microprismatic: ideal for office areas ($UGR \leq 19$) and environments with computer screens in accordance with EN 12464-1.



Qualified for use in the food and drink industry.



The Cyanosis Observation Index (COI) describes the quality of the light spectrum of a luminaire for suitability for medical applications. Luminaires with a standardised COI of less than 3.3 are particularly suitable for reliable detection of cyanosis. Cyanosis is a bluish discolouration of the skin or the mucosa caused by a decrease in arterial oxygen saturation. This can be a symptom of dangerous disorders of the human organism. For an initial early visual diagnosis, the quality of light is crucial.

PARLEDO

Product overview



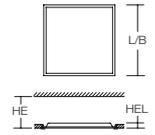
Lay-in luminaires | Parledo

Type of protection: **IP 65**
 Protection class: I
 Impact protection: IK06

Housing: sheet steel, powder-coated. Luminaire frame: aluminium, powder-coated. Smooth diffuser: plastic (polycarbonate), opal or microprismatic (suitable for use in environments with computer screens in accordance with EN 12464-1). LED backlight technology for homogeneous illumination of the entire light-emitting surface. External driver. Extended connection cable (2.0 m). Suitable for through wiring as standard. DALI variants IoT Ready and dimming via TouchDIM possible.

Available colour: 2 = white

MultiLumen: 4 steps adjustable luminous flux. Factory setting is the lowest luminous flux.



Comparison LED vs. conventional lamps

LED 31 W ≈

5 x 18 W T26 (130 W Psys)
 5 x 14 W T16 (84 W Psys)

LED 40 W ≈

6 x 18 W T26 (156 W Psys)
 6 x 14 W T16 (100 W Psys)

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	Lumies- efficiency [lm/W]	UGR	dimm- able
Recessed ceiling luminaires for visible mounting rails - Module 600								
Diffuser: plastic (polycarbonate), opal								
312567.002.790 *	L 595, B 595, HE 160, HEL 41	LED	840	4550...5600	31...40	147	21,7	on/off
312568.002.76	L 595, B 595, HE 160, HEL 41	LED	840	4550	31	147	21,7	DALI
312569.002.76	L 595, B 595, HE 160, HEL 41	LED	840	5600	40	140	22,4	DALI
Diffuser: plastic (polycarbonate) microprismatic								
312570.002.790 *	L 595, B 595, HE 160, HEL 41	LED	840	4050...5000	31...40	131	17,3	on/off
312571.002.76	L 595, B 595, HE 160, HEL 41	LED	840	4050	31	131	17,3	DALI
312572.002.76	L 595, B 595, HE 160, HEL 41	LED	840	5000	40	125	18	DALI

Recessed ceiling luminaires for visible mounting rails - Module 625								
Diffuser: plastic (polycarbonate), opal								
312573.002.790 *	L 622, B 622, HE 160, HEL 41	LED	840	4500...5550	31...40	146	21,3	on/off
312574.002.76	L 622, B 622, HE 160, HEL 41	LED	840	4500	31	146	21,3	DALI
312575.002.76	L 622, B 622, HE 160, HEL 41	LED	840	5550	40	139	22	DALI
Diffuser: plastic (polycarbonate) microprismatic								
312576.002.790 *	L 622, B 622, HE 160, HEL 41	LED	840	4100...5100	31...40	133	17,1	on/off
312577.002.76	L 622, B 622, HE 160, HEL 41	LED	840	4100	31	133	17,1	DALI
312578.002.76	L 622, B 622, HE 160, HEL 41	LED	840	5100	40	128	17,8	DALI

* **MultiLumen version:** Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com.

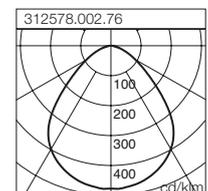
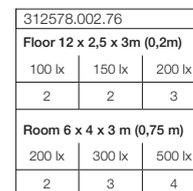
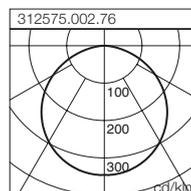
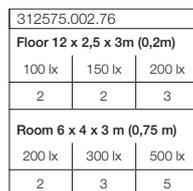
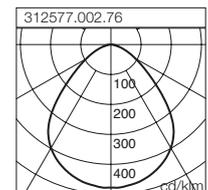
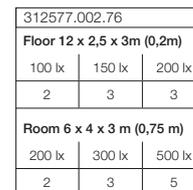
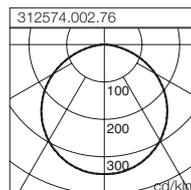
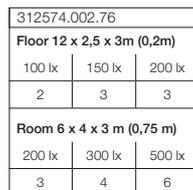
Accessories | Recessed mounting frame

Recessed mounting frame: sheet steel, powder-coated. For installation on suspended ceilings. Minimum recess depth: 300 mm. Ceiling thickness: 1-30 mm

Mounting frame for installation in suspended ceilings			Price Category 21
981941.002	L 624, B 624, H 2, HE 94	for module 600	
981942.002	L 649, B 649, H 2, HE 94	for module 625	

MultiLumen: Adjustable luminous flux

Step	Luminous flux [lm]				System power [W]
	312567.002.790	312570.002.790	312573.002.790	312576.002.790	
1	4550	4050	4500	4100	31
2	4950	4400	4900	4500	35
3	5300	4750	5250	4800	38
4	5600	5000	5550	5100	40



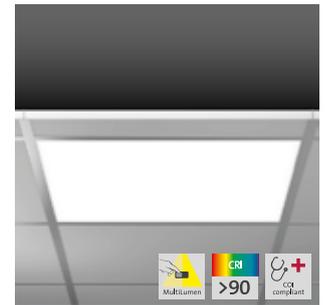
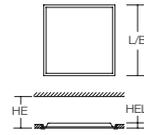
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Type of protection: **IP 65**
 Protection class: I
 Impact protection: IK06

Housing: sheet steel, powder-coated. Luminaire frame: aluminium, powder-coated. Smooth diffuser: plastic (polycarbonate), microprismatic (suitable for use in environments with computer screens in accordance with EN 12464-1). LED backlight technology for homogeneous illumination of the entire light-emitting surface. Colour rendering index CRI > 90. Cyanosis Observation Index (COI) < 3.3. External driver. Extended connection cable (2.0 m). Suitable for through wiring as standard. DALI variants IoT Ready and dimming via TouchDIM possible.

Available colour: 2 = white

MultiLumen: 4 steps adjustable luminous flux. Factory setting is the lowest luminous flux.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	Luminescence efficiency [lm/W]	UGR	dimmable
Recessed ceiling luminaires for visible mounting rails - Module 600								Price Category 21
Diffuser: plastic (polycarbonate) microprismatic								
312599.002.790 *	L 595, B 595, HE 160, HEL 81	LED	940	4050...5000	32...41	127	17,3	on/off
312600.002.76	L 595, B 595, HE 160, HEL 81	LED	940	4050	32	127	17,3	DALI
312601.002.76	L 595, B 595, HE 160, HEL 81	LED	940	5000	41	122	18,1	DALI
Recessed ceiling luminaires for visible mounting rails - Module 625								Price Category 21
Diffuser: plastic (polycarbonate) microprismatic								
312602.002.790 *	L 622, B 622, HE 160, HEL 81	LED	940	4050...5000	32...41	127	17	on/off
312603.002.76	L 622, B 622, HE 160, HEL 81	LED	940	4050	32	127	17	DALI
312604.002.76	L 622, B 622, HE 160, HEL 81	LED	940	5000	41	122	17,7	DALI

* **MultiLumen version:** Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com.

Accessories | Recessed mounting frame

Recessed mounting frame: sheet steel, powder-coated. For installation on suspended ceilings. Minimum recess depth: 300 mm. Ceiling thickness: 1-30 mm

Mounting frame for installation in suspended ceilings		Price Category 21
981941.002	L 624, B 624, H 2, HE 94 for module 600	
981942.002	L 649, B 649, H 2, HE 94 for module 625	

Comparison LED vs. conventional lamps

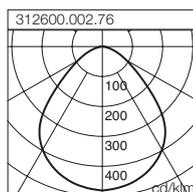
LED 32 W ≈
 5 x 18 W T26 (130 W Psys)
 5 x 14 W T16 (84 W Psys)

LED 41 W ≈
 6 x 18 W T26 (156 W Psys)
 6 x 14 W T16 (100 W Psys)

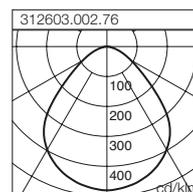
MultiLumen: Adjustable luminous flux

Step	Luminous flux [lm]		System power [W]
	312599.002.790	312602.002.790	
1	4550	4050	32
2	4950	4400	35
3	5300	4750	39
4	5600	5000	41

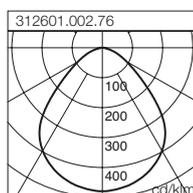
312600.002.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	5



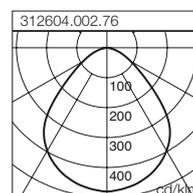
312603.002.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	5



312601.002.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	2	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	4



312604.002.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	2	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	4



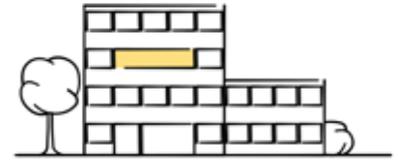
LIGHT MANAGEMENT SYSTEMS

Overview



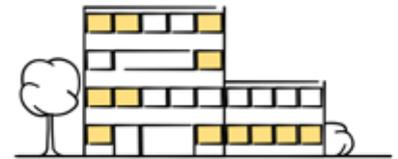
light control +3 Economy Multi DALI

The unbeatable price/performance winner for smaller installations. The system combines simple commissioning via smartphone, low wiring effort and flexible configuration and is therefore ideal for **group offices, conference rooms and classrooms**. Programmable buttons and sensors can also be integrated via DALI connections in order to achieve even greater energy savings. The system has an integrated timer and can therefore be used to set up HCL.



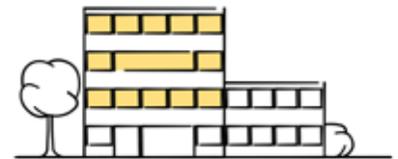
Casambi smart+free

The wireless light management system for maximum functions and configuration options. Casambi smart+free solutions are perfect for **residential buildings, shop und hotel**, as 3-wire cabling is enough - also suitable as a module for subsequent installation into existing luminaires. The module is already integrated into luminaires with the article number ending .730. You can configure the system to your individual needs due to the wide range of accessories from the Casambi ecosystem. The integration here is very intuitive and can be completed by users without prior knowledge in just a few minutes.



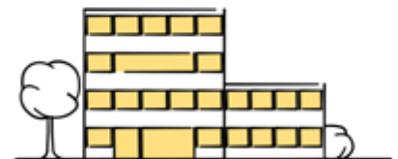
light control +3 Professional Control

The system is suitable for complex applications in **warehouses, room and floor control and production areas**; daylight dependant control, dynamic light control to circadian daylight simulation in Human Centric Lighting (HCL) and monitoring of energy data. In addition, the systems can be networked to make luminaire data available to other systems. light control+3 Professional is the perfect entry level lighting system for the IoT world.



light control +3 Professional Customised

Lighting management can integrate with your **building management system** in **office buildings, production halls and terminals**. In this way, you can combine trades such as heating, sanitation, ventilation, security and blinds with lighting in one control system and even add additional functions such as monitoring, predictive maintenance and energy reporting if desired. Other additional functions can be programmed and integrated as per your individual requirements. Our support team would be happy to help in this regard, from planning up to commissioning.



You still haven't found the right system for you?

Along with the systems shown here, we would also be happy to create a customised control system for your project.

Please contact your designated on-site sales employee or contact our Planning department via e-mail at ims@rzb-leuchten.de or by phone at +49 951/79 09-396.

	light control + ³ Economy Multi DALI	Casambi smart+free	light control + ³ Professional Control	light control + ³ Professional Customised
				
Application	Group offices Conference rooms Classrooms	Residential buildings Shop Hotel	Warehouses Floor control Production areas	Office buildings Production halls Terminals
Integration of indoor / outdoor lighting	✓	✓	✓	✓
Can be combined with				
Communication	wired	wireless	wired	wired + wireless
Infrastructure requirements	L, N, PE, DA, DA (5 wires cable)	L, N, PE (3 wires cable)	L, N, PE, DA, DA (5 wires cable)	L, N, PE, DA, DA (5 wires cable)
Commissioning	by electrician	by electrician	RZB service technician	RZB service technician
Configuration	App, Plug & Play	App, Remote access	PC-Tool, Remote access	RZB service technician
Operation	Switches, Buttons, App	Switches, Buttons, App	Switches, Buttons, App, Web access	Switches, Buttons, PC, Web access
Number of luminaires (1 EB) <small>(Number of luminaires depends on the number of EB in the luminaire)</small>	32	1	256	any
Number of sensors <small>(presence, motion)</small>	4	1 per module	50	any
Dimmable	✓	✓	✓	✓
Motion / presence detection	✓	✓	✓	✓
Daylight-dependent control	✓	✓	✓	✓
Scenes / Groups	✓	✓	✓	✓
Timer / Calendar functions	✓	✓	✓	✓
HCL / Tunable White	✓	✓	✓	✓
RGB		✓	✓	✓
Network integration		✓	✓	✓
Remote access: programming, operation, maintenance		✓	✓	✓
IoT ready		✓	✓	✓
Predictive maintenance, monitoring, read out luminaire data			✓	✓
Beacon for indoor navigation, tracking, asset management		✓		✓
Integration of additional sensors <small>(CO₂, temperature, gas...)</small>				✓
Integration of other trades <small>(heating, air conditioning, security)</small>				✓
Order number with extension	.76 (DALI)	.76 (DALI) .730 (smart+free)	.76 (DALI)	.76 (DALI)

CHEMICAL RESISTANCE

to the plastics used in the manufactured luminaires

Chemical Agents	max. concentration	PC	PMMA
Acetone		-	-
Battery Acid		o	-
Aliphate. Hydrocarbons		+	o
Alcohol	30%	+	+
Alcohol concentrate		-	-
Aluminium sulphate	10%	+	
Formic acid	30%	-	o
Ammonia	5%	-	+
Ammonia	25%	-	+
Aniline		-	-
Aromatic hydrocarbons		-	-
Arsenic acid		+	+
Ether		-	-
Caustic potash		-	
Benzene		-	-
Beer		+	+
Blood		+	+
Bromic acid		-	-
Calcium Chloride		+	+
Chloroform		-	-
Chlorophenol		-	-
Chromic acid	40%	o	o
Diesel fuel		o	+
Dioxane		-	-
Acetic acid	5%	+	o
Acetic acid	30%	+	-
Ethyl acetate (ester)		-	-
Ethanol	30%	+	o
Ethanol	50%	+	-
Ethyl acetate		-	-
Ethyl alcohol		+	o
Mineral fat		-	+
Vegetable fat		-	+
Animal fat		-	+
Glycerin		o	+
Glycol		+	+
Glysantin		+	+
Glycerine		o	+
Fuel oil		-	o
Caustic potash	30%	-	+
Potassium nitrate		+	+
milk of lime		o	+
Ketone		-	-
Saline solution	20%	+	+

Chemical Agents	max. concentration	PC	PMMA
Carbon dioxide		+	+
Carbon monoxide		+	+
Hydrocarbons		-	o
Lye		o	+
Lysol		-	-
Sea water		+	+
Methanol		-	-
Methyl chloride		-	-
Lactic acid, aqueous	10%	+	+
Mineral oils		+	+
Sodium hydroxide solution	2%	-	+
Sodium hydroxide solution	10%	-	+
Regular petrol (ROZ 91)		o	-
Petroleum ether		o	+
Phenol		-	-
Nitric acid	10%	+	+
Nitric acid	20%	o	o
Hydrochloric acid	5%	+	+
Hydrochloric acid	15%	+	+
Hydrochloric acid	20%	o	+
Sulfur dioxide		o	-
Sulphuric acid	30%	+	+
Sulphuric acid	50%	+	+
Sulphuric acid	70%	o	o
Hydrogen sulfide		+	+
Soap sud		+	+
Silicone oils		+	o
Soda bleach		+	+
Premium petrol		-	+
Turpentine oil		o	o
Carbon tetrachloride		-	-
Toluene		-	-
Trichloroethylene		-	-
Hydrogen peroxide	30%	o	-
Hydrogen sulfide		+	+
Xylene / Dimethylbenzene		-	-
Citric acid	20%	+	+

+ resistant

o partially resistant

- non-resistant

FURTHER LUMINAIRES, MATCHING THIS SERIES:



⊕ Toledo Flat PRO



⊕ Sidelite ECO



⊕ Sonis EVO

HIGHEST PRODUCT AND CONSULTING QUALITY

⊕ RELIABILITY

We are your reliable partner. From the first idea to the implementation and far beyond, we accompany your project. Personal, passionate and individual. Thanks to our excellent expertise, top product quality and services such as lighting design, economic efficiency analysis and commissioning, we meet the high demands of all parties involved in the planning process.

- ✓ availability of BIM files
- ✓ easy and quick installation
- ✓ quality and long warranty

⊕ WARRANTY

The creation of high quality lighting solutions is our passion. Our products are developed and manufactured with the utmost care.

In addition to SMART TECHNOLOGY and EXCELLENT DESIGN, we are dedicated to manufacture luminaires of highest quality throughout the entire value chain through to After Sales Service.

Because of this, we confidently grant you a 5 years warranty on LED luminaires and 2 years warranty on emergency luminaires with effect of the date of invoice without prior registration of your project.

Warranty terms to be found under
[rzb.de/en/service/led-luminaire-warranty](https://www.rzb.de/en/service/led-luminaire-warranty)

RZB - FOR A TANGIBLE ADDED VALUE.



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