

LINE LIGHTING SYSTEM

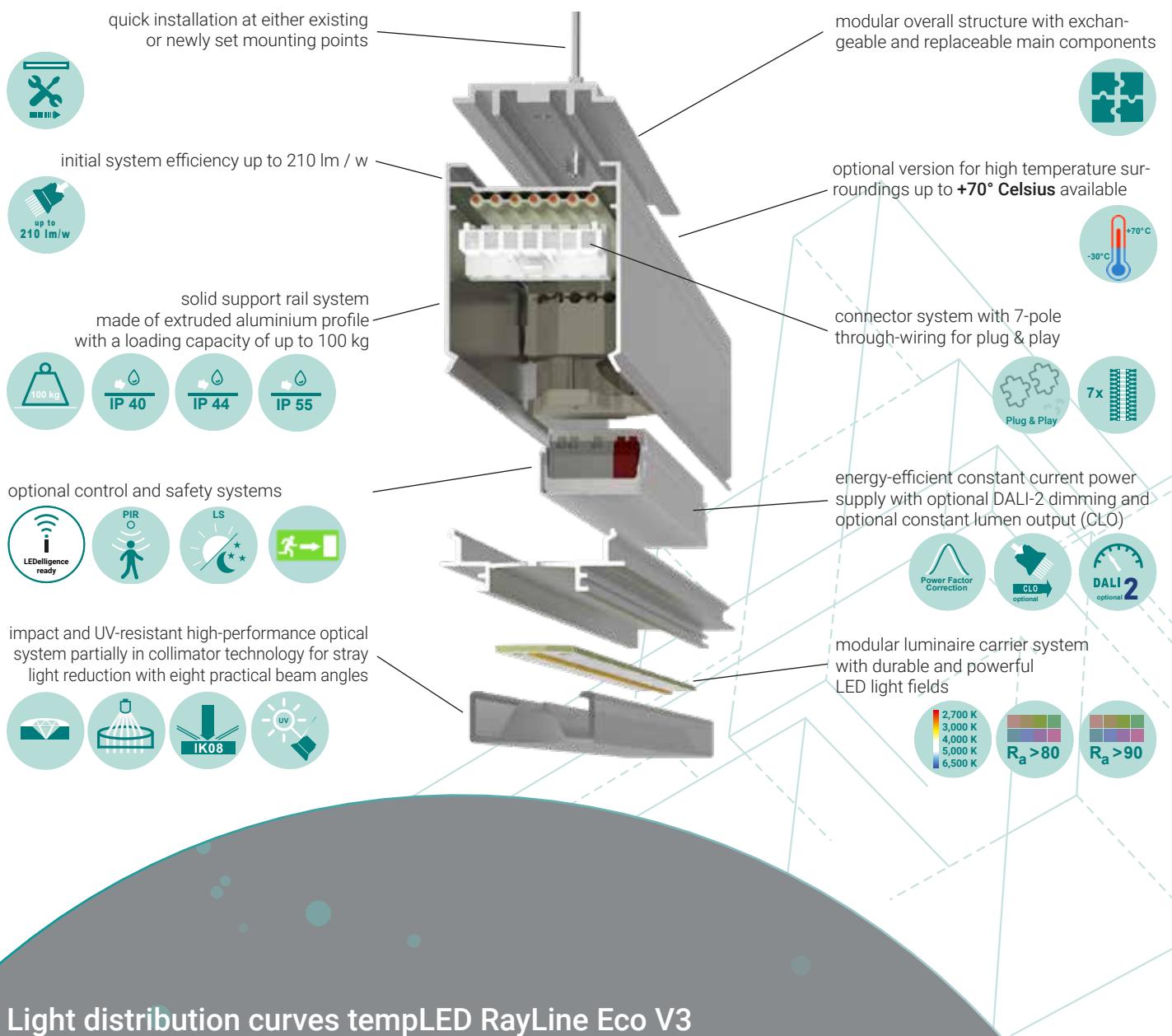
# tempLED RayLine Eco V3

15 | 20 | 35 | 60 | 90

HALL LIGHTS 

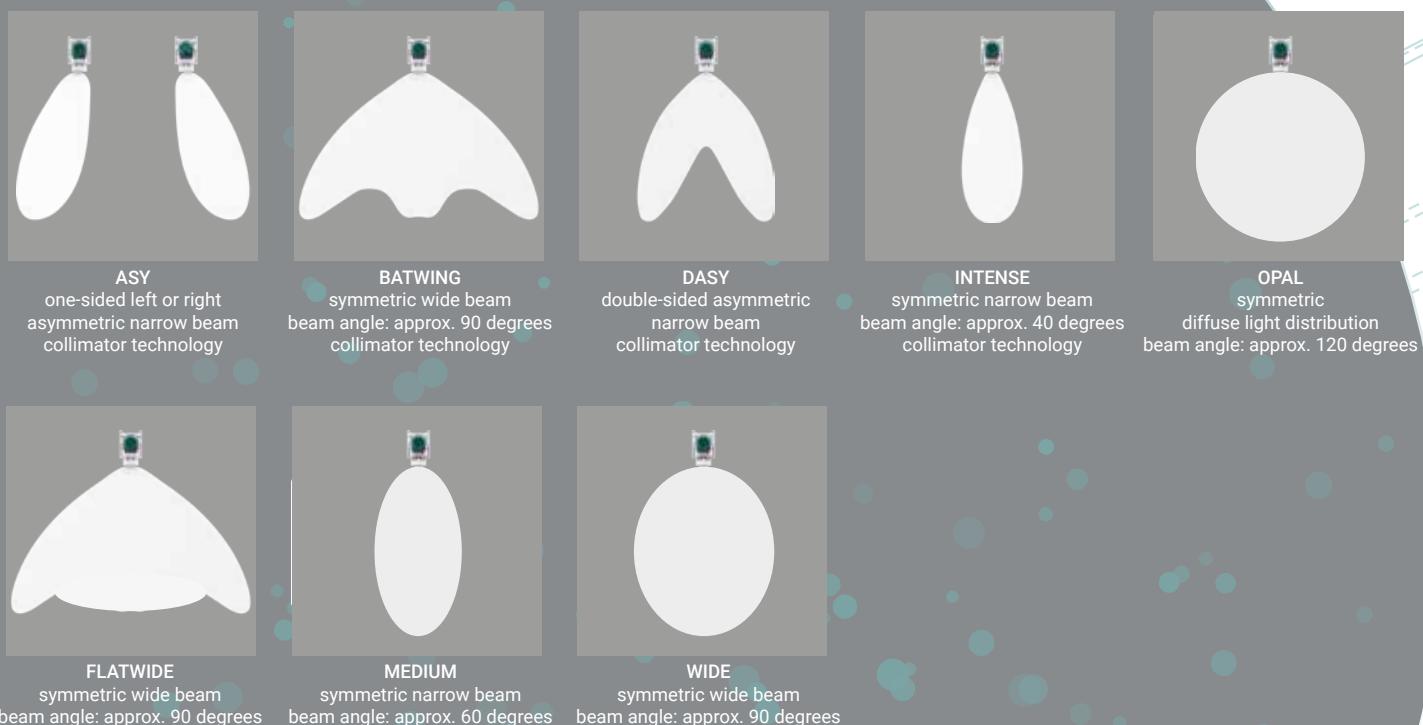
HIGH TEMPERATURES 

# tempLED

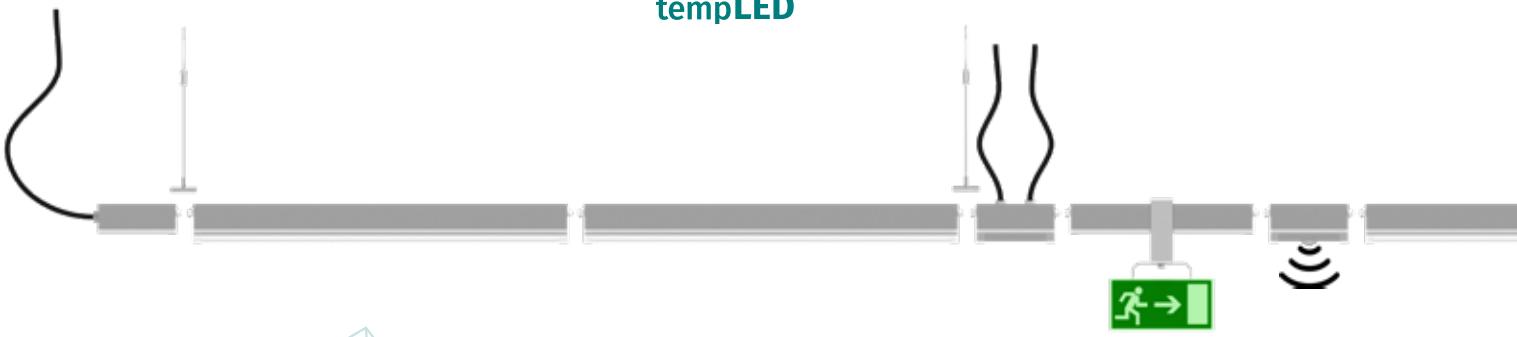


## Light distribution curves tempLED RayLine Eco V3

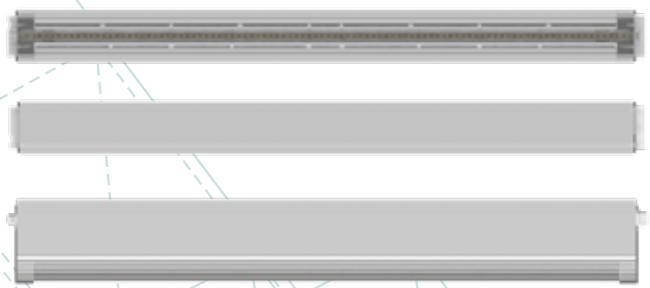
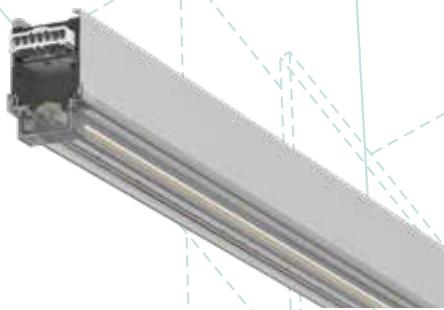
15 | 20 | 35 | 60 | 90



# tempLED



## tempLED RayLine Eco V3



## Dimensions tempLED RayLine Eco V3

1,680 mm | 3,360 mm | 5,040 mm

1,680 mm

3,360 mm

5,040 mm

75.4 mm

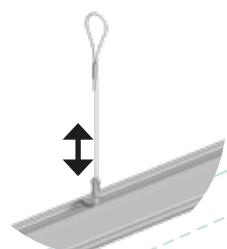
47.4 mm

## Mounting options tempLED RayLine Eco V3

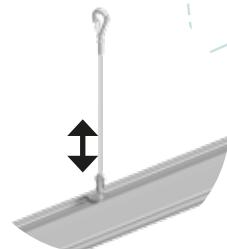
ceiling mounting adapter



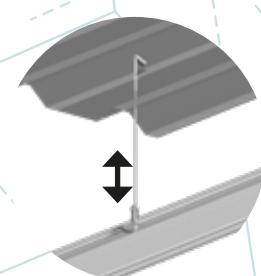
height-adjustable  
rope suspension  
(0.10 - 4.90 m)  
combined with  
loop



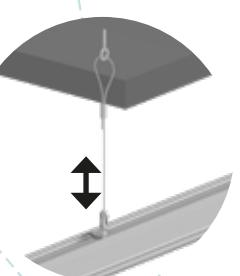
height-adjustable  
rope suspension  
(0.10 - 4.90 m)  
combined with  
carabiner hook



height-adjustable  
rope suspension  
(0.10 - 4.90 m)  
combined with  
trapezoidal sheet hook



height-adjustable  
rope suspension  
(0.10 - 4.90 m)  
combined with  
concrete anchor



## General technical data

according to IEC, identical for all types of luminaires



### Lighting properties:

initial luminous flux:	up to 16,650 lumens
luminous flux tolerance:	± 10 percent
initial system efficiency:	up to 210 lumens / watt
initial, most similar color temperature:	2,700   3,000   4,000   5,000   6,500 kelvins
initial color rendering index (CRI):	Ra > 80   Ra > 90
initial color consistency:	< 3 SDCM
available symmetric beam angles:	BATWING   FLATWIDE   INTENSE   MEDIUM   OPAL   WIDE
available asymmetrical beam angles:	ASY (left- and right-sided)   DASY
stray light reduction (depending on specific beam angles):	yes, with collimator technology
photobiological safety:	IEC/TR 62778: 1
compact flicker degree (CFD):	on request
stroboscopic visibility measurement (SVM):	on request
short time flicker (Pst LM):	on request

### Electrotechnical properties:

power supply AC:	198 to 240 volts
supply frequency:	50 / 60 hertz
power supply DC:	176 to 250 volts
system performance:	15 to 90 watts
system performance tolerance:	± 10 percent
power factor:	> 0.95
overvoltage protection:	yes
overheating protection:	yes
temperature monitoring:	yes
total harmonic distortion (THD):	< 10 percent
temperature classification (ATEX):	T6
Tc - temperature:	+75 degrees Celsius
suitable for emergency light installations:	yes, in accordance with EN 60598-2-22 and IEC 61347-2-13, Annex J through DC detection (0 Hz, pulsating DC), can be switched on/off; on request: dimming to 15 percent of the nominal power in DC mode

### Energy characteristics:

Valid for all tempLED RayLine Eco V3 with up to 192 lumens per watt:	This product contains a light source of energy efficiency class B.
Valid for all tempLED RayLine Eco V3 from 193 lumens per watt:	This product contains a light source of energy efficiency class A.

### Mounting options:

mounting options:	ceiling mounting height-adjustable pendant mounting with rope suspension (0.10 to 4.90 m)
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**Control and safety properties:**

dimming:	DALI-2 optional
minimum dimming level:	10 percent
constant lumen output (CLO):	optional
emergency light module:	optional <sup>1</sup>
human centric lighting:	on request
daylight harvesting system:	optional <sup>2</sup> (types with DALI dimming only)
motion control:	optional <sup>2</sup> (types with DALI dimming only)

**Housing properties:**

standard ambient temperature:	-30 to +50 degrees Celsius
optional ambient temperature:	-30 to +70 degrees Celsius
ingress protection (depending on configuration):	IP 40   IP 44   IP 55
impact resistance level:	IK08
electrical protection class:	I
limited surface temperatur (D):	yes
housing and heat sink material(s):	extruded aluminium profile
material of optical system:	impact- and UV-resistant PMMA
material of diffuser:	impact resistant polycarbonate
luminaire housing color:	aluminum natural <sup>3</sup>
surface finish:	bare <sup>3</sup>
supply cable inlet:	cable gland
number of poles with through-wiring:	7 [7 x 2,5 sqmm]
maximum tensile load on the cover profile:	1.75 kilograms

**Additional information:**

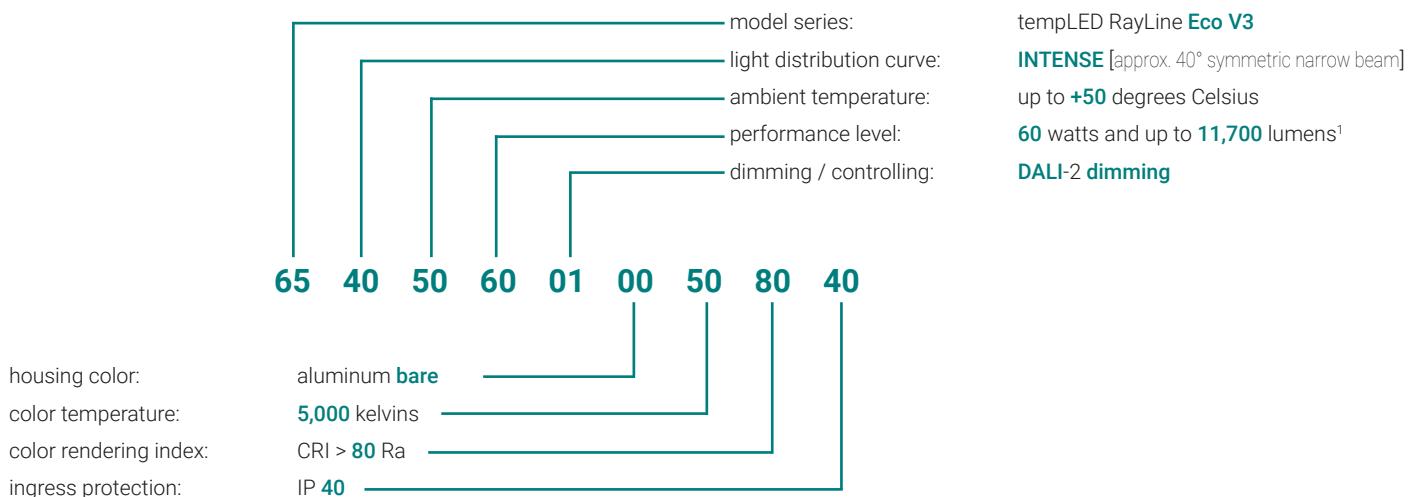
certificates:	ENEC in preparation
conformities:	CE   RoHS   DIN 10500 (HACCP   IFS) <sup>4</sup>
lifespan (L70B10C1):	approx. 100,000 hours
lifespan (L90B10C1):	approx. 50,000 hours
guarantee:	5 years <sup>5</sup>
spare part guarantee:	10 years
delievery includes:	prefabricated luminaire
base item number:	665000

<sup>1</sup> can only be used at ambient temperatures from +5 to +50 degrees Celsius. <sup>2</sup> please note the ambient temperatures of the sensor systems.<sup>3</sup> optional luminaire housing colors and finishes: Paintings according to RAL colour chart, powder coatings according to RAL colour chart or synthetic resin coating.<sup>4</sup> DIN 10500 only valid for luminaires with opal polycarbonate diffuser and ingress protection IP 44 or IP 55. <sup>5</sup> according to the warranty conditions of tempLED GmbH, excluding accessories.**Logistic information:**

maximum weight per mounting rail unit with 1.68 meter length:	approx. 2,600 g
maximum weight per mounting rail unit with 3.36 meter length:	approx. 5,000 g
maximum weight per mounting rail unit with 5.04 meter length:	approx. 7,500 g
maximum amount of line meter per wooden box:	201.60
maximum dimensions per wooden box L x W x H:	5,131 x 784 x 425 mm
maximum net weight per wooden box:	20,000 g

## tempLED

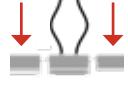
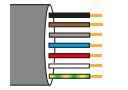
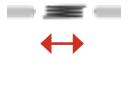
### tempLED RayLine Eco V3 - this is how you order your line light: sample article number



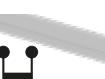
### tempLED RayLine Eco V3 - all variants and options at a glance: article number matrix

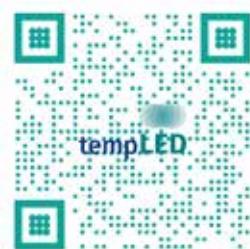
model series:	65									tempLED RayLine Eco V3 7-pole
light distribution curve:		20								ASY [left-sided approx. 20° asymmetric narrow beam]
		21								ASY [right-sided approx. 20° asymmetric narrow beam]
		90								BATWING [approx. 90° symmetric wide beam]
		22								DASY [two-sided approx. 2x 20° asymmetric narrow beam]
		11								FLATWIDE [approx. 90° symmetric wide beam]
		40								INTENSE [approx. 40° symmetric narrow beam]
		01								MEDIUM [approx. 60° symmetric narrow beam]
		12								OPAL [approx. 120° symmetric diffuse light distribution]
		10								WIDE [approx. 90° symmetric wide beam]
ambient temperature:			50							-30 to +50 degrees Celsius
			70							-30 to +70 degrees Celsius
performance level:				15						15 watts / up to 3,150 lumens <sup>1</sup>
				20						20 watts / up to 4,000 lumens <sup>1</sup>
				35						35 watts / up to 7,000 lumens <sup>1</sup>
				60						60 watts / up to 11,700 lumens <sup>1</sup>
				90						90 watts / up to 16,650 lumens <sup>1</sup>
controlling / dimming:					00					on / off
					01					DALI-2 dimming
					11					constant lumen output (CLO)
housing color:					00					aluminum bare
color temperature:						27				2,700 kelvins
						30				3,000 kelvins
						40				4,000 kelvins (standard color temperature)
						50				5,000 kelvins
						65				6,500 kelvins
color rendering index:						80				CRI > 80 Ra
						90				CRI > 90 Ra
ingress protection:							40			IP 40
							44			IP 44
							55			IP 55

<sup>1</sup> The specified maximum initial luminous flux depends on the selected colour temperature, the selected colour rendering index and the selected optical system.

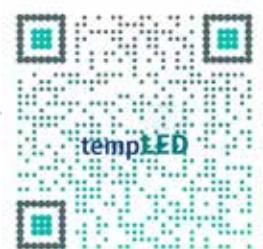
tempLED	System components catalogue RayLine Eco V3	art.-no.	GTIN / EAN
	<b>rail connector</b> for connecting two mounting rails including a fastening point for steel cable suspension and two rotary knob screws, length: 280 mm, material: aluminium, finish: aluminum bare	065500	4260745235396
	<b>mounting adapter</b> for flexible and freely selectable assembly of new or already installed rope suspensions on the RayLine V3 mounting rails, material: steel, finish: hot-dip galvanized	065501	4260745235402
	<b>ceiling mounting adapter</b> for direct mounting of RayLine V3 mounting rails on ceilings, flexible alignment, distance to surface: approx. 20 mm, material: steel, finish: hot-dip galvanized, delivered as a set with mounting adapter 065501	065502	4260745235419
	<b>screw hook</b> , size M6 for direct mounting of RayLine V3 mounting rails on newly installed or already existing chain suspensions, max. opening: 15 mm, with safety lock, material: steel, finish: nickel-plated, for use with 065500 or 065501	090129	4260745233767
	<b>rope suspension with loop</b> material: steel, finish: galvanized, for use with 065500 or 065501 <b>rope length: 1.00 m</b> , adjustable suspension length: from 0.10 to 0.90 m <b>rope length: 3.00 m</b> , adjustable suspension length: from 0.10 to 2.90 m <b>rope length: 5.00 m</b> , adjustable suspension length: from 0.10 to 4.90 m	065520 065521 065522	4260745235631 4260745235648 4260745235655
	<b>rope suspension with carabiner hook</b> material: steel, finish: galvanized, for use with 065500 or 065501 <b>rope length: 1.00 m</b> , adjustable suspension length: from 0.10 to 0.90 m <b>rope length: 3.00 m</b> , adjustable suspension length: from 0.10 to 2.90 m <b>rope length: 5.00 m</b> , adjustable suspension length: from 0.10 to 4.90 m	065523 065524 065525	4260745235662 4260745235679 4260745235686
	<b>rope suspension with trapezoidal sheet hook</b> material: steel, finish: galvanized, for use with 065500 or 065501 <b>rope length: 1.00 m</b> , adjustable suspension length: from 0.10 to 0.90 m <b>rope length: 3.00 m</b> , adjustable suspension length: from 0.10 to 2.90 m <b>rope length: 5.00 m</b> , adjustable suspension length: from 0.10 to 4.90 m	065526 065527 065528	4260745235693 4260745235709 4260745235716
	<b>rope suspension with concrete anchor</b> material: steel, finish: galvanized, for use with 065500 or 065501 <b>rope length: 1.00 m</b> , adjustable suspension length: from 0.10 to 0.90 m <b>rope length: 3.00 m</b> , adjustable suspension length: from 0.10 to 2.90 m <b>rope length: 5.00 m</b> , adjustable suspension length: from 0.10 to 4.90 m	065529 065530 065531	4260745235723 4260745235730 4260745235747
	<b>start or end feed as a kit</b> , 7-pole set for self-assembly, for feeding in at the beginning or the end of the RayLine Eco V3 line lighting system, one cable gland integrated at the front in size M32 without connection cable integrated in a mounting rail, length: 140 mm, material: aluminium, finish: aluminum bare <b>start feed</b> <b>end feed</b>	065503 065504	4260745235426 4260745235433
	<b>center feed as a kit</b> , 2 x 7-pole set for self-assembly, for feeding in in the center of the RayLine Eco V3 line lighting system, two cable glands integrated on the top in size M25, not suitable for use with ceiling mounting adapter 065502, without connection cables integrated in a mounting rail, length: 280 mm, material: aluminium, finish: aluminum bare <b>without through-wiring</b> <b>with through-wiring</b>	065505 065536	4260745235440 4260745236805
	<b>supply cable</b> , 7-pole, suitable for all feed systems 7-pole connection cable, ready-for-use, for tempLED RayLine line lighting systems, cable version: 7G2.5, outer diameter: 11.1 mm, cable colour: grey, required quantities: 1x each for the start and end feeds and 2x each for the center feeds <b>length: 1.00 meter</b> <b>length: 3.00 meters</b> <b>length: 5.00 meters</b>	699038 699039 699040	4260745233088 4260745233095 4260745233101
	<b>connection cable set as a kit</b> , 7-pole connection cable set for self-assembly between two linear luminaire systems for self-assembly, for example for bridging roof beams of roof girders, ventilation shafts, cable stays or similar on-site installations, cable version: 7G2.5, outer diameter: 11.1 mm, cable colour: grey, delivery includes one start- and one end feed for self-assembly <b>length: 1.00 meter</b> <b>length: 3.00 meters</b> <b>length: 5.00 meters</b>	065537 065538 065539	4260745236836 4260745236843 4260745236850

tempLED	Accessory catalogue RayLine Eco V3	art.-no.	GTIN / EAN
	<b>universal adapter</b> for mounting e.g. hall lights on the RayLine Eco V3 line lighting system, maximum load capacity: 25 kg, material: steel, finish: hot-dip galvanized	065081	4260745235495
	<b>small universal adapter</b> for mounting e.g. information signs and traffic mirrors on the RayLine Eco V3 line lighting system, maximum load capacity: 3 kg, material: steel, finish: hot-dip galvanized	065511	4260745235501
	<b>universal power output, 5-pole</b> universal power supply output for the RayLine Eco V3 line lighting system, 5-pole socket, maximum load capacity: 230 VAC, 50/60 Hz - 10 A integrated in a mounting rail, length: 140 mm, material: aluminium, finish: aluminum bare <b>with pin assignment 1 / 2 / 5 / 6</b> <b>with pin assignment 1 / 2 / 3 / 4</b> <b>with pin assignment 3 / 4 / 5 / 6</b>	065512 065532 065533	4260745235518 4260745235822 4260745235839
	<b>integrated universal power output, 5-pole</b> technical data similar to the universal power output, but for fully integrated installation in a free blind module of the tempLED RayLine Eco V3 line lighting system <b>with pin assignment 1 / 2 / 5 / 6</b> <b>with pin assignment 1 / 2 / 3 / 4</b> <b>with pin assignment 3 / 4 / 5 / 6</b>	065544 065545 065546	4260745237765 4260745237833 4260745237840
	<b>universal power output LITE, 5-pole</b> universal power supply output for the RayLine Eco V3 line lighting system, 5-pole output cable approx. 40 cm long, maximum load capacity: 230 VAC, 50/60 Hz - 10 A, fully integrated installation in a free blind module of the tempLED RayLine Eco V3 line lighting system <b>with pin assignment 1 / 4 / 5 / 6</b>	065550	4260669190184
	<b>motion- and light SensorSystem tempLED RayControl</b> combined motion detector and light sensor system for the tempLED RayLine Eco V3 line lighting system with integrated DALI dimming, power supply and data exchange via the DALI control cables, maximum cable length: 300 meters, can be used at ambient temperatures from -20 to +45 degrees Celsius		
	<b>SensorSystem MASTER</b> motion detector with passive infrared (PIR) technology, detection angle: 360 degrees, integrated light sensor with measuring range from 2 to 2,000 lux, combined with a SensorSystem Control-Box to supply power to the sensors and evaluate the sensor signals, programming and control via Bluetooth and app, Bluetooth range: max. 15 meters, maximum controllable number of DALI light modules: 32, maximum additional number of sensors that can be evaluated and supplied: 3, integrated real-time clock (RTC) with 72-hour power blackout backup.		
	Integrated in a mounting rail, length: 280 mm, material: aluminium, finish: aluminum bare. maximum mounting height: 3.50 meters, maximum detection range: Ø 12 meters maximum mounting height: 12.00 meters, maximum detection range: Ø 12 meters maximum mounting height: 17.00 meters, maximum detection range: Ø 18 meters	065560 065557 065540	4262493352097 4262493352073 4260745237819
	<b>SensorSystem SLAVE</b> motion detector with passive infrared (PIR) technology, detection angle: 360 degrees, photoelectric sensor with measuring range from 2 to 2,000 lux, power supply and evaluation either via the SensorSystem ControlBox or the SensorSystem MASTER via the DALI control lines.		
	Integrated in a mounting rail, length: 140 mm, material: aluminium, finish: aluminum bare. maximum mounting height: 3.50 meters, maximum detection range: Ø 12 meters maximum mounting height: 12.00 meters, maximum detection range: Ø 12 meters maximum mounting height: 17.00 meters, maximum detection range: Ø 18 meters	065561 065558 065541	4262493352103 4262493352080 4260745237826
	<b>integrated SensorSystem MASTER</b> technical data similar to SensorSystem MASTER, but for fully integrated installation in a free blind module of the tempLED RayLine Eco V3 line lighting system. maximum mounting height: 3.50 meters, maximum detection range: Ø 12 meters maximum mounting height: 12.00 meters, maximum detection range: Ø 12 meters maximum mounting height: 17.00 meters, maximum detection range: Ø 18 meters	065566 065563 065542	4262493352134 4262493352110 4260745237802
	<b>integrated SensorSystem SLAVE</b> technical data similar to SensorSystem SLAVE, but for fully integrated installation in a free blind module of the tempLED RayLine Eco V3 line lighting system. maximum mounting height: 3.50 meters, maximum detection range: Ø 12 meters maximum mounting height: 12.00 meters, maximum detection range: Ø 12 meters maximum mounting height: 17.00 meters, maximum detection range: Ø 18 meters	065567 065564 065543	4262493352141 4262493352127 4260745237758
	<b>important notice:</b> the tempLED RayControl (integrated) SensorSystem SLAVE can only be operated in conjunction with a(n) (integrated) SensorSystem MASTER or an external DALI network with an appropriate power supply (10 to 22.5 VDC, 6 mA each).		

	<b>emergency light module</b> with automatic detection of failure and return of supply voltage, display of functional status, battery type: LiFePO4, running time approx. 3 hours with an output power of approx. 3 watts, recharging time: approx. 24 hours, can only be used at ambient temperatures of +5 to +50 degrees Celsius, mounted in the luminaire ready for use <b>important notice:</b> line lights with integrated DALI dimming enable data exchange and control (e.g. status messages and test function) via an external DALI network.	065534	4260745236683
	<b>emergency power module for centralized battery systems</b> operation module without monitoring and addressing for centralized battery systems, suitable for all tempLED RayLine Eco V3 line lights with integrated DALI dimming, controlling via central monitoring system, maximum switching capacity: 500 watts, power output in emergency mode: 15 per cent of nominal power, can only be used at ambient temperatures of max. +50 degrees Celsius, mounted in a luminaire ready for use	699015	4260669198999
	<b>LEDelligence PIR motion detector</b> suitable only for luminaires with DALI dimming motion detector in passive infrared (PIR) technology, detection angle: 360 degrees, integrated light sensor with measuring range up to 1,000 lux for activation of the PIR motion detector, maximum controllable number of DALI light modules: 32, protection class: IP 65, power supply: 220 - 240 VAC, 50/60 Hz, can only be used at ambient temperatures of 0 to +50 degrees Celsius. Programming and control via Bluetooth mesh network and app. Integrated in a mounting rail, length: 140 mm, material: aluminium, finish: aluminum bare. maximum mounting height: 3.50 meters, maximum detection range: Ø 12 meters maximum mounting height: 12.00 meters, maximum detection range: Ø 12 meters maximum mounting height: 17.00 meters, maximum detection range: Ø 18 meters	778049 778046 778052	4262493352011 4262493351984 4262493352042
	<b>Integrated LEDelligence PIR motion detector</b> suitable only for luminaires with DALI dimming motion detector in passive infrared (PIR) technology, detection angle: 360 degrees, integrated light sensor with measuring range up to 1,000 lux for activation of the PIR motion detector, maximum controllable number of DALI light modules: 32, protection class: IP 65, power supply: 220 - 240 VAC, 50/60 Hz, can only be used at ambient temperatures of 0 to +50 degrees Celsius. Programming and control via Bluetooth mesh network and app. For fully integrated installation in a free blind module of the tempLED RayLine Eco V3 line lighting system. maximum mounting height: 3.50 meters, maximum detection range: Ø 12 meters maximum mounting height: 12.00 meters, maximum detection range: Ø 12 meters maximum mounting height: 17.00 meters, maximum detection range: Ø 18 meters	778051 778048 778054	4262493352035 4262493352004 4262493352066
	<b>DALI interrupter</b> special module for the tempLED RayLine Eco V3 line lighting system for interrupting the DALI circuit. Integrated in a mounting rail, length: 140 mm, material: aluminium, finish: aluminum bare.	065552	4262493352196



Direct link to the tempLED download portal



Direct link to the tempLED product configurator



LED is sustainable.  
LED is the future.

tempLED luminaires fulfil a recycling rate of > 90%.  
That is our product promise to you.

When will you start?