



ZUMTOBEL

TECTON LED

**LED continuous-row
system**

Sustainably pared-down:
a win in terms of economy,
ecology and looks.





Consistently efficient

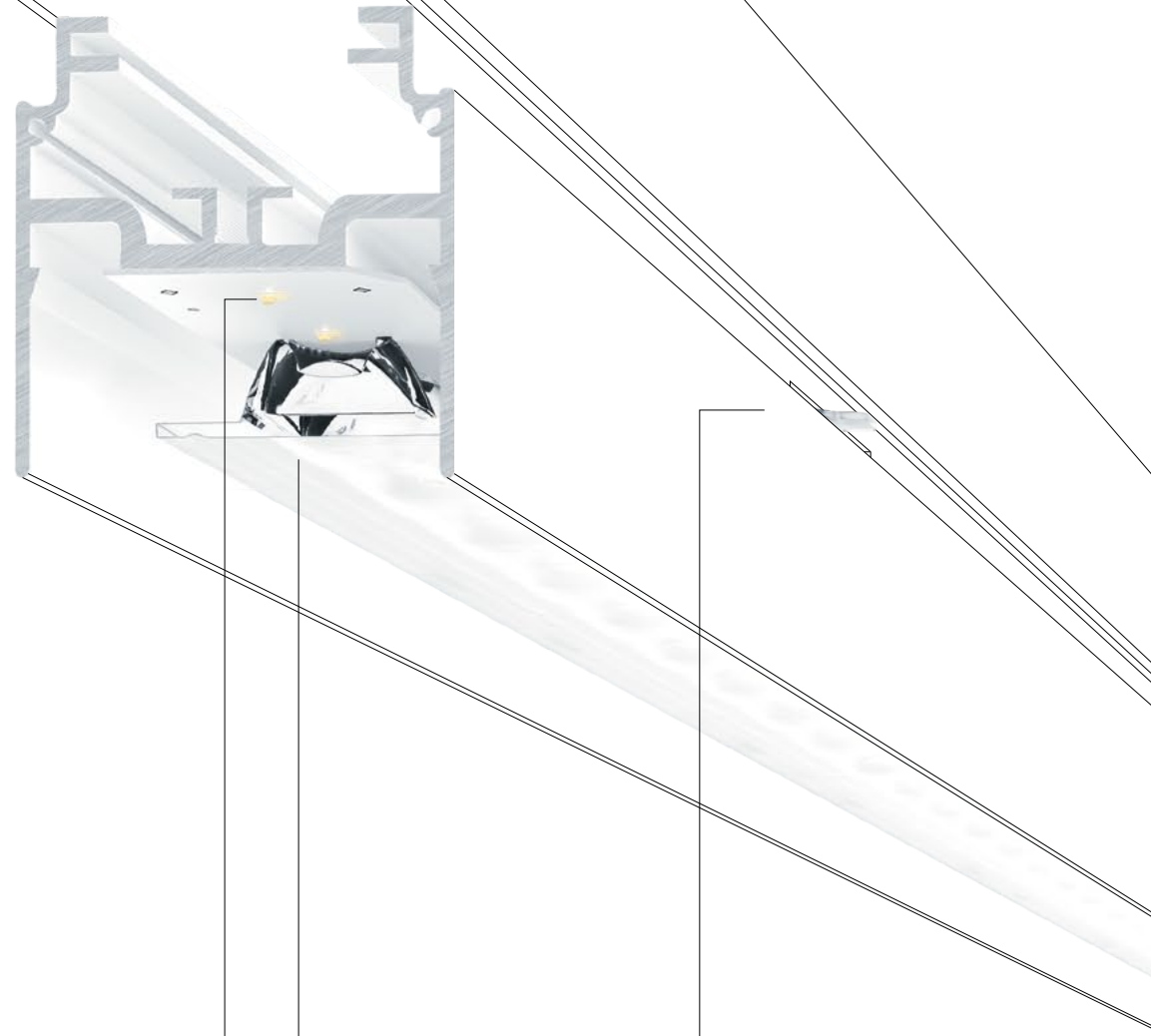
Straight line TECTON LED merges light source, batten luminaire and reflector into a single visual, functional unit. Compact but nevertheless versatile, this straight-line design luminaire radiates a sense of calm. Continuous-row systems have no butt joints and provide uninterrupted light lines that lead across the room. This paves the way for an end-to-end LED solution.

At less expense With a service life of 50,000 hours at 70% luminous flux and an efficiency of up to 80 lm per W, TECTON LED has important economic advantages. Less expenditure on maintenance means fewer interruptions to work, and reduced energy consumption provides additional cost savings. Investment in a TECTON LED lighting solution is amortised within a very short period.

zumtobel.com/tecton

DESIGN TECTON LED **BILLINGS JACKSON DESIGN**





LED perfection

With colour rendition of $R_a > 80$ and colour temperatures of 3000 K and 4000 K, TECTON LED delivers excellent lighting quality. LED technology is the most innovative lighting technology and has enormous future potential. TECTON LED offers the best possible investment security because it comes with all the features needed to meet environmental requirements and comply with funding guidelines for energy-efficient building and lighting solutions.

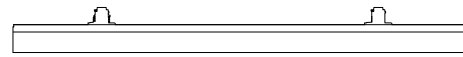
4 optics and 1 design

With four optics, TECTON LED comes with all the features needed to handle a wide variety of tasks in industry, presentation and retail. The precise way in which TECTON directs light exploits the benefits of LEDs to full effect by optimising horizontal and vertical illuminance and preventing scattered light. There is no need for additional reflectors.

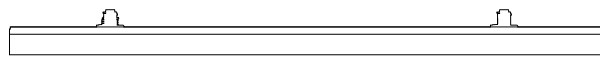
Quick installation

The LED continuous-row system is compatible with the entire TECTON product range. The luminaire and trunking are attached to each other quickly and securely thanks to a system that provides audible and visible indication of locking. Familiar, tried-and-tested features such as Plug & Play and no-tool installation have been retained. TECTON LED is therefore also time efficient.

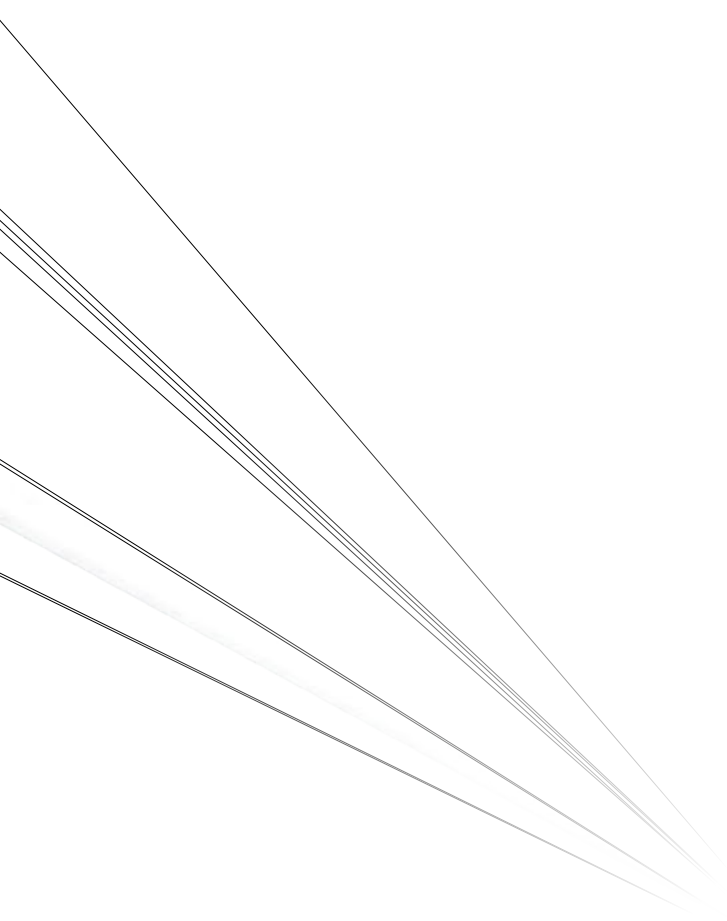
Module lengths

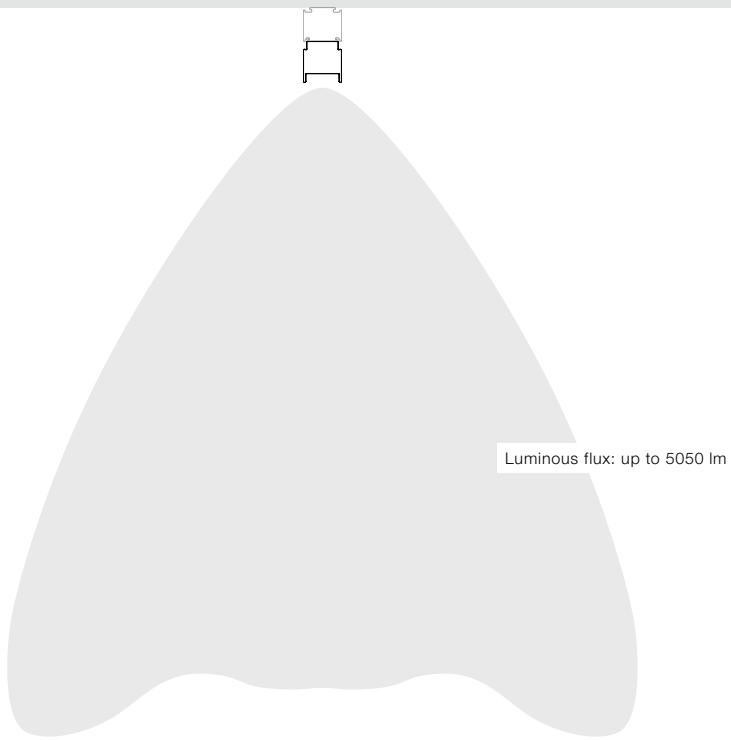


1171 mm, 51 W



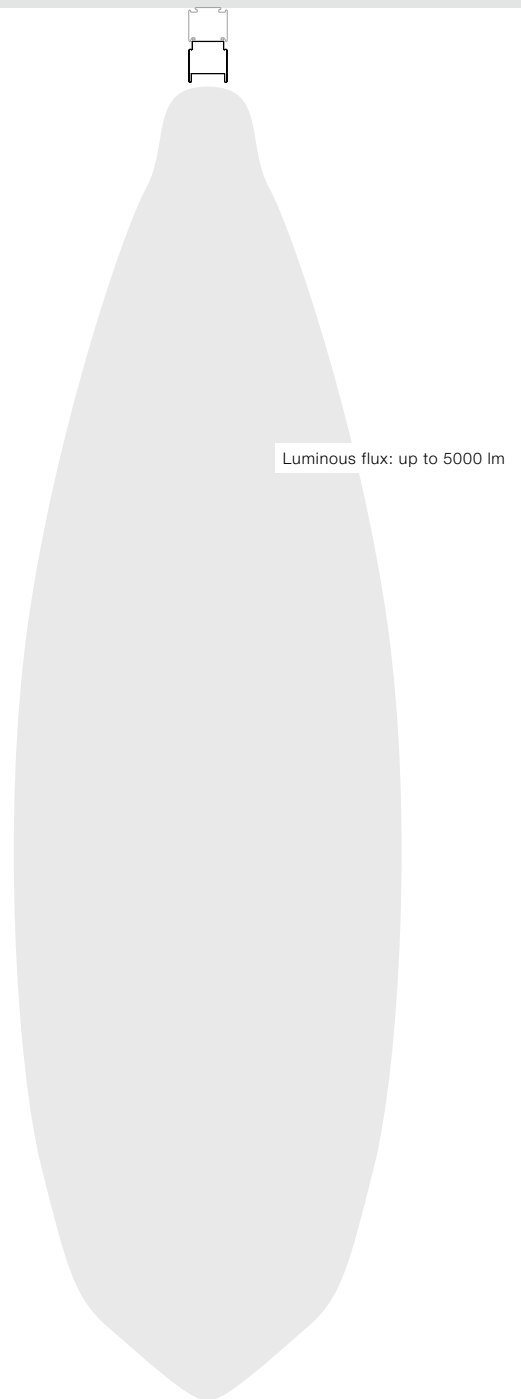
1463 mm, 63 W





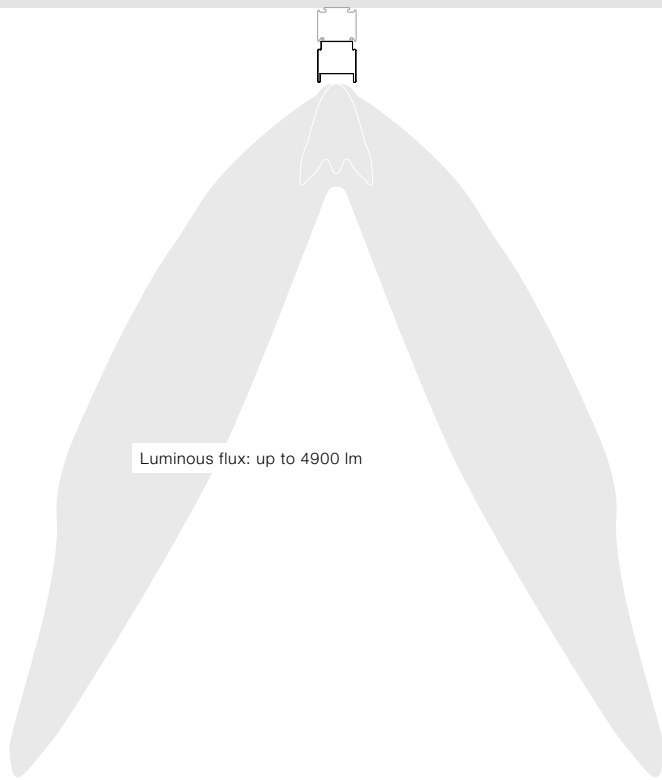
TECTON LED **WIDE BEAM**

The wide-beam optic is equally suitable for handling decorative as well as technical tasks. Its medium-wide light distribution is ideal for lighting shelf surfaces and aisle zones. It also illuminates surfaces without shelves, e.g. manufacturing areas, uniformly.



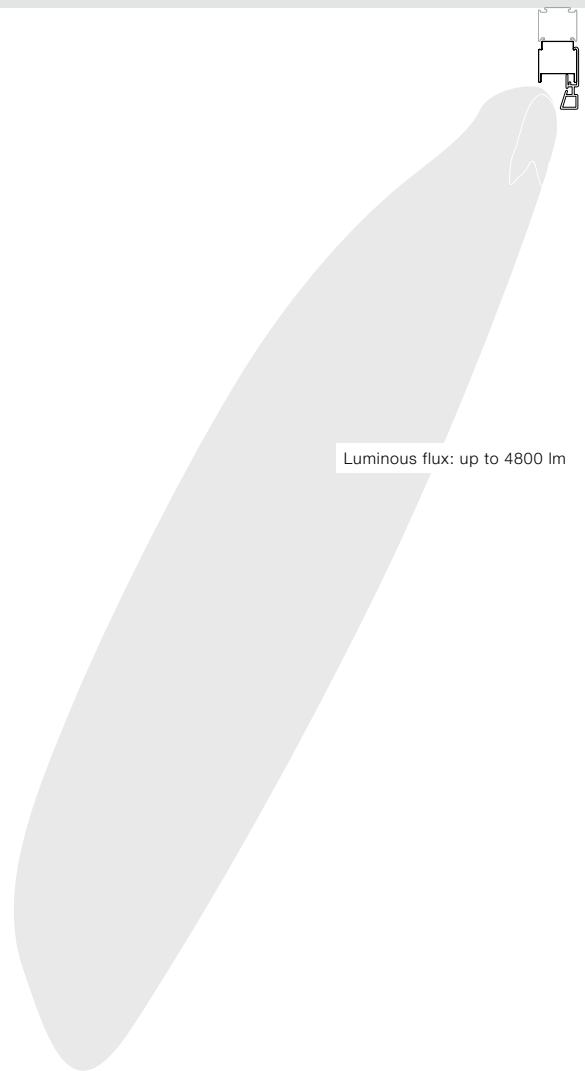
TECTON LED **NARROW BEAM**

Specially developed for use in industrial and engineering applications, the narrow-beam optic ensures efficient, uniform illumination of the vertical fronts of shelving. With a maximum mounting height of around 18 m, it easily copes with medium and large room heights.



TECTON LED **DOUBLE WALLWASHER**

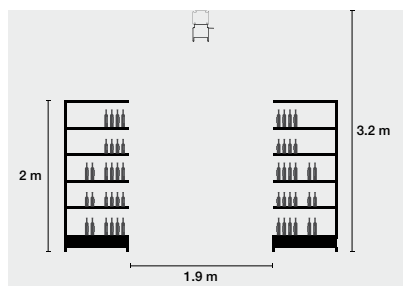
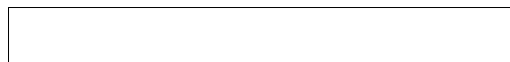
The double wallwasher optic really comes into its own in presentation applications and retail spaces. Its symmetrical light distribution focuses on shelf surfaces; aisle zones are not as brightly lit. This way, customers' attention is directed to the goods that are on display.



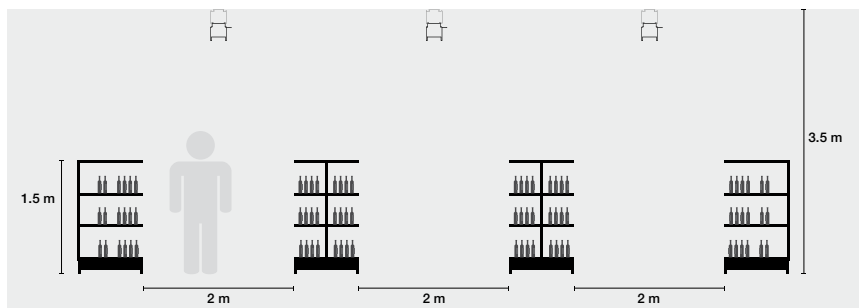
TECTON LED **WALLWASHER**

The wallwasher's asymmetric light distribution is specially designed for presentation and retail areas where there are one-sided shelf surfaces. An unobtrusive reflector that can be clicked into place quickly and without any tools presents goods in the right light.

WIDE BEAM
PRESENTATION AND RETAIL



300 lx on shelf surfaces, 500 lx at floor level

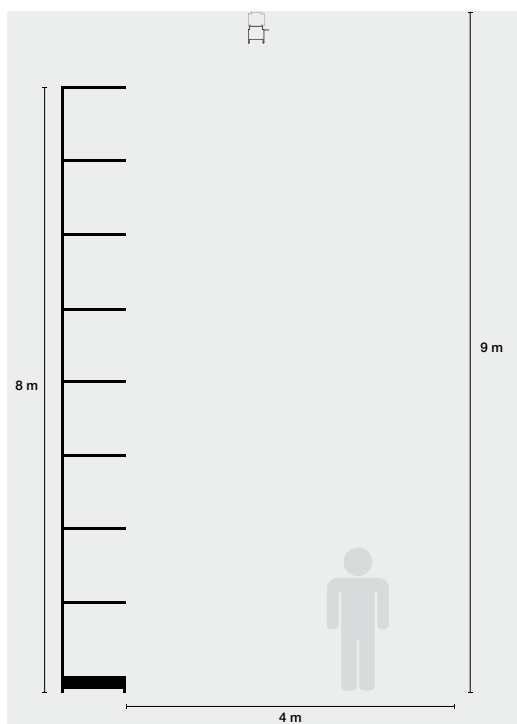


1000 lx on shelf surfaces, 1000 lx at one metre above floor level

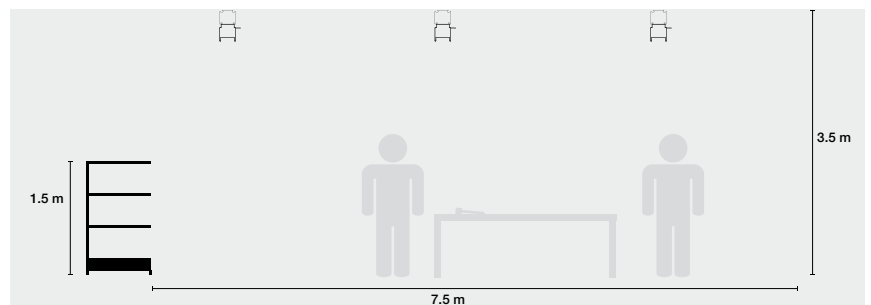
- Emphasis is placed on uniform illumination of aisle zones and shelf surfaces.
- The lighting solution is specifically designed and fitted to match the relevant shelving situation.
- This results in optimised lighting of the shelf surfaces in question.

- Emphasis is placed on uniform illumination of aisle zones, shelf surfaces and larger surfaces.
- The lighting solution can be designed and deployed regardless of the positioning of the individual shelves.
- This allows subsequent alteration of the positions of shelves - without the need to modify the placement of luminaires.

INDUSTRY AND ENGINEERING



110 lx on shelf surfaces, 160 lx at floor level

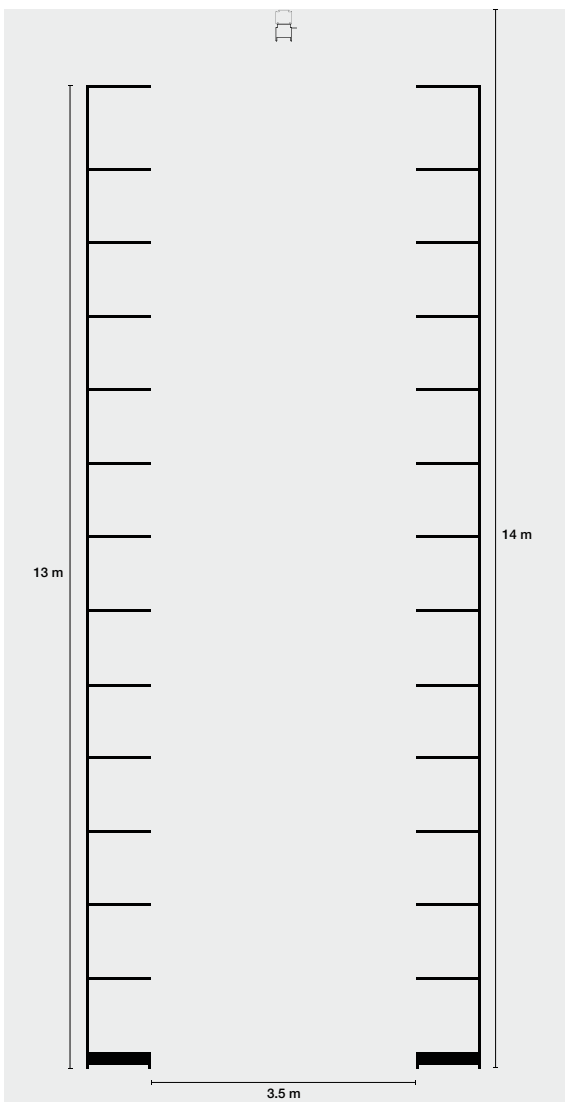
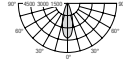


1200 lx at floor level

- Optimised illuminance levels are focused on aisle zones.
- The lighting solution is specifically designed and fitted to match the relevant shelving situation.
- This results in optimised lighting of the aisle zones in question.

- Emphasis is placed on uniform illumination of manufacturing areas.
- The lighting solution can be designed and deployed regardless of the positioning of the respective machines and production areas.
- This allows subsequent repositioning of machines and production areas - without the need to modify the placement of luminaires.

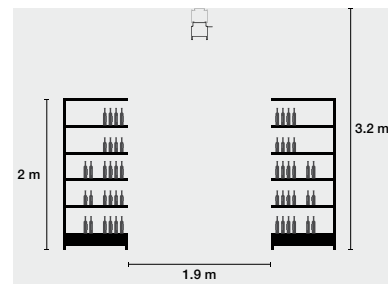
NARROW BEAM
INDUSTRY AND ENGINEERING



50 lx on shelf surfaces, 190 lx at floor level

- Illuminance levels are optimised for medium to high shelving, emphasis is placed on aisle zones.
- The lighting solution is specifically designed and fitted to match the relevant shelving situation.
- This results in optimised lighting of the aisle zones in question.
- Uniform illumination of shelf surfaces.

DOUBLE WALLWASHER
PRESENTATION AND RETAIL

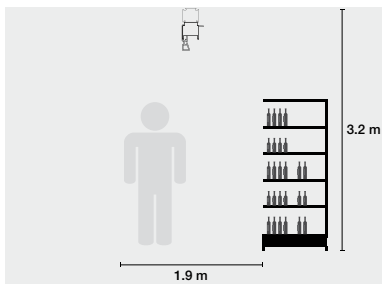
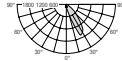


400 lx on shelf surfaces, 150 lx at floor level

- Emphasis is placed on high-intensity, uniform illumination of shelf surfaces.
- The lighting solution is specifically designed and fitted to match the relevant shelving situation.
- This directs customers' attention directly to the shelf surfaces and products that are on display.

WALLWASHER

PRESENTATION AND RETAIL



580 lx on shelf surfaces, 120 lx at floor level

- Emphasis is placed on high-intensity, uniform illumination of one-sided shelf surfaces.
- The lighting solution is specifically designed and fitted to match the relevant shelving situation.
- An unobtrusive reflector is used to direct customers' attention directly to the shelf surfaces and products that are on display.

Basic conditions

Installation type: TECTON LED as continuous light line
 Maintenance factor: 0.67
 Reflectance ratio: ceiling 50, wall/shelf 30, floor 20

Indicated lux (lx) figures are based on simplified basic conditions used by way of example. Specific, detailed investigations are required for every project.

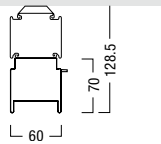
As of October 2011. Subject to change without prior notice.

TECTON LED installation

Seamless and time-efficient



Trunking and luminaires - that's all that is needed for an LED continuous-row system. Even where different beam patterns are arranged in succession, TECTON LED retains its unbroken, continuous-row appearance without any visual discontinuity or different reflectors. Because the LED system is 100% compatible with the entire TECTON product range, existing T16 and T26 luminaires can easily be replaced by a new LED continuous-row system without using any tools. The luminaire and the 11-pole pre-wired trunking are attached to each other quickly and securely thanks to a system that provides audible and visible indication of locking.



Slimline design
Luminaire and trunking are perfectly
matched.

Comparison Typical application - Presentation and Retail

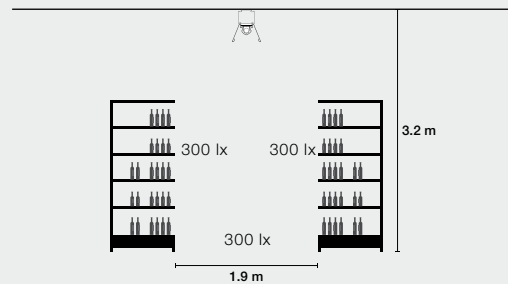
A conventional supermarket uses a T16 continuous-row systems to illuminate its shelving. A direct comparison with TECTON LED Wide Beam makes the strengths of the practically maintenance-free LED solution obvious: taken over a period of 10 years, the total costs of ownership are identical with 66% more light and increased illuminance at floor level (up from 300 to 500 lx). The 27% reduction in energy costs is another persuasive argument in favour of using LED lighting in an ecologically responsible business.

T16 continuous-row system

Luminaire data

1-lamp continuous-row luminaire	1/80 W
Light source	T16 HO
Installed load (per batten luminaire)	86 W
LEF	64 lm/W

Continuous-row luminaire with white reflector and white vane louvre for longitudinal glare control.



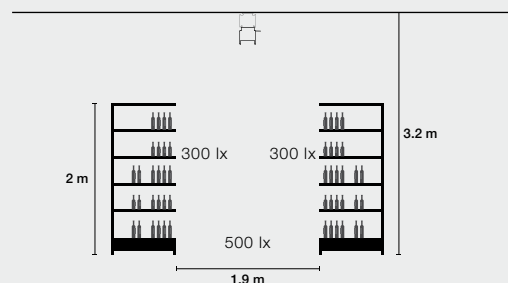
Shelf illuminance 300 lx
Floor-level illuminance 300 lx

Average energy consumption: **150.5 kWh/m²a**
Average CO₂ emissions: **27.5 kg/kWh m²a (-40 %)**

TECTON LED

Luminaire data

TECTON LED WIDE BEAM	
Light source	LED
Installed load (per batten luminaire)	63 W
LEF	80 lm/W
Length	1463 mm



Shelf illuminance 300 lx
Floor-level illuminance 500 lx

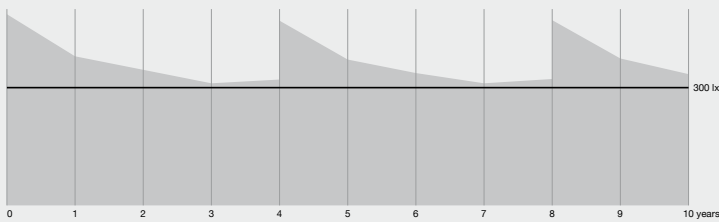
Average energy consumption: **110 kWh/m²a**
Average CO₂ emissions: **20.1 kg/kWh m²a (-40 %)**

An energy price of €0.15/kWh and an annual energy cost increase of 5% are assumed.
CO₂ emissions: 0.183 kg/kWh (Austrian benchmark)



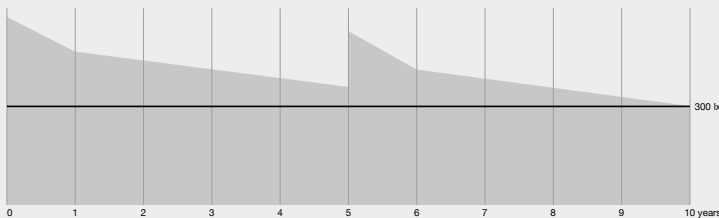
Basic conditions - Supermarket lighting

Calculation period	10 years
Burning hours per year	5000
Environment	standard
Room maintenance interval	5 years
Maintenance illuminance	300 lx
Maintenance factor	0.67
Ceiling/wall/floor reflectance	50/30/20
UGR	< 22



Decrease in illuminance

Time-consuming cleaning of lamps and reflectors takes place once every three years. This is accompanied by the expensive replacement of light sources.



Decrease in illuminance

The continuous-row system is cleaned by simply wiping it down once every five years. There is no need to replace any light sources. This produces a 78% saving in maintenance costs.

Summary of T16 vs. LED comparison

Energy consumption

T16	150.5 kWh/m ² a	-27 %
LED	110 kWh/m ² a	

Illuminance (at floor level):

T16	300 lx	+66 %
LED	500 lx	

Maintenance costs (over 10 years):

T16	baseline figure	-78 %
LED		

Total cost of ownership (over 10 years):

T16	[Bar chart showing high total cost]
LED	[Bar chart showing significantly lower total cost]

Investment costs

Operating costs (energy + maintenance)

Comparison Typical application - Industry and Engineering

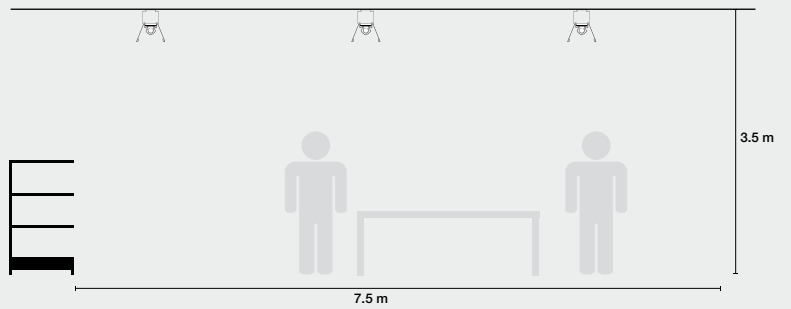
Conventional lighting for manufacturing areas is a T16 continuous-row system. If the decision is made to opt for a TECTON LED Wide Beam continuous-row system, it is not just lighting quality that improves markedly. Thanks to higher light output ratio levels, fewer luminaires are needed and energy consumption drops by 40%. Over a ten-year period, the cost of the LED continuous-row system are actually 10% less than that of T16 lighting.

T16 continuous-row system

Luminaire data

1-lamp continuous-row luminaire	1/80 W
Light source	T16 HO
Installed load (per batten luminaire)	86 W
LEF	56 lm/W
UGR	< 25

Continuous-row luminaire with white reflector and white vane louvre.



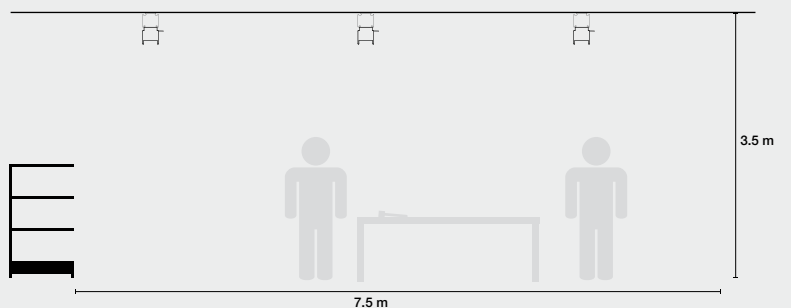
Floor-level illuminance 750 lx

Average energy consumption: **128.6 kWh/m²a**
 Average CO₂ emissions: **23.4 kg/kWh m²a**

TECTON LED

Luminaire data

TECTON LED WIDE BEAM	
Light source	LED
Installed load (per batten luminaire)	63 W
LEF	80 lm/W
UGR	< 22
Length	1463 mm



Floor-level illuminance 750 lx

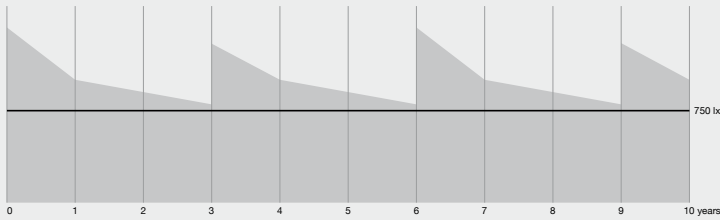
Average energy consumption: **76.8 kWh/m²a**
 Average CO₂ emissions: **14.0 kg/kWh m²a (-40 %)**

An energy price of €0.15/kWh and an annual energy cost increase of 5% are assumed.
 CO₂ emissions: 0.183 kg/kWh (Austrian benchmark)



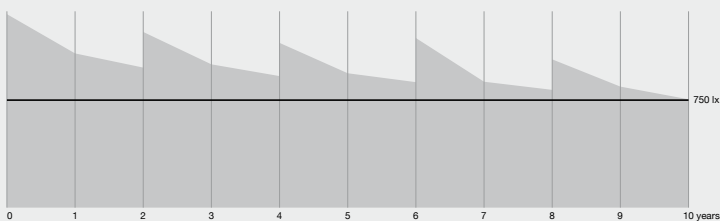
Basic conditions - Industrial lighting

Calculation period	10 years
Burning hours per year	5000
Environment	standard
Room maintenance interval	6 years
Maintenance illuminance	750 lx
Maintenance factor	0.55
Ceiling/wall/floor reflectance	50/50/20



Decrease in illuminance

Expensive cleaning of lamps and reflectors takes place once every three years. This is accompanied by the expensive replacement of all the light sources.



Decrease in illuminance

The continuous-row system is cleaned by simply wiping it down once every two years. There is no need to replace any light sources. This produces a 68% saving in maintenance costs.

Summary of T16 vs. LED comparison

Energy consumption

T16	128.6 kWh/m ² a	-40 %
LED	76.8 kWh/m ² a	

Number of luminaires required

T16	baseline figure	-18 %
LED	-18 %	

Maintenance costs (over 10 years):

T16	baseline figure	-68 %
LED		

Total cost of ownership (over 10 years):

T16		-10 %
LED		

■ Investment costs

■ Operating costs (energy + maintenance)

TECTON LED

TECTON LED optics

	Wide Beam	Narrow Beam	Double Wallwasher	Wallwasher
Abbreviated designation	WB	NB	DWW	WW
Protection type	IP20	IP20	IP20	IP20
Wattage / length	51 W / 1171 mm 63 W / 1463 mm	51 W / 1171 mm 63 W / 1463 mm	51 W / 1171 mm 63 W / 1463 mm	51 W / 1171 mm 63 W / 1463 mm
Luminous flux (4000 K)	4040 lm 5050 lm	~ 4000 lm* ~ 5000 lm*	~ 3900 lm* ~ 4900 lm*	~ 3850 lm* ~ 4800 lm*
Efficiency	80 lm/W	~ 78 lm/W*	~ 76 lm/W*	~ 75 lm/W*
Colour rendering/ colour temperature	840 (CRI>80, 4000 K) 830 (CRI>80, 3000 K)	840 (CRI>80, 4000 K) -	840 (CRI>80, 4000 K) 830 (CRI>80, 3000 K)	840 (CRI>80, 4000 K) 830 (CRI>80, 3000 K)
Ballasts	LDE DO electronic ballast	LDE DO electronic ballast	LDE DO electronic ballast	LDE DO electronic ballast
Service life	50,000 h (L70)	50,000 h (L70)	50,000 h (L70)	50,000 h (L70)
Colour	white	white	white	white

* State of development: October 2011 – modifications possible

... Shared properties TECTON LED

- Energy-efficient LED continuous-row luminaire with a lighting efficiency of up to 80 lm/W
- Linear Tecton LED solution. High-quality look designed to match trunking
- Aluminium LED continuous-row luminaire in white, powder-coated finish
- All-in-one solution: lighting batten, lamp and reflector are combined in one product and allow a 100% continuous ribbon of LED light without gaps
- LED continuous-row luminaire composed of segment elements, each containing 11 LEDs of wattage 1W
- Colour rendering: RA>80
- Chromaticity tolerance between multiple luminaires of up to 4 MacAdam ellipses
- LED service life 50,000 h at 70 %
- luminous flux
- 100% flexible, tool-free mechanical and electrical installation using CLIX-technology by means of two side-mounted rotary levers on the TECTON trunking
- No ultraviolet or infrared radiation
- Luminaire pre-wired using halogen-free leads

TECTON LED continuous row luminaire, wide beam



- Focus of use: Presentation and Retail (shelf lighting and surface lighting), Industry and Engineering (shelf lighting and surface lighting)
- Colour temperature: 3000 K (LED830: warm white), 4000 K (LED840: neutral white)



Dimmable luminaires

	L/W	kg	Order no.
TECTON L1171 51W LED830 WB	1171/60	2,6	42 180 607
TECTON L1171 51W LED840 WB	1171/60	2,6	42 180 136
TECTON L1463 63W LED830 WB	1463/60	3,3	42 180 608
TECTON L1463 63W LED840 WB	1463/60	3,3	42 180 131

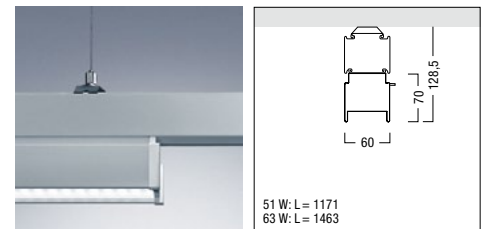
Luminaires with electronic ballast

	L/W	kg	Order no.
TECTON L1171 51W LED830 WB	1171/60	2,6	42 180 609
TECTON L1171 51W LED840 WB	1171/60	2,6	42 180 605
TECTON L1463 63W LED830 WB	1463/60	3,3	42 180 610
TECTON L1463 63W LED840 WB	1463/60	3,3	42 180 606

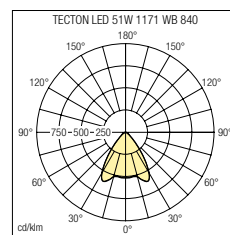
Accessory

End caps TECTON LED E (pair)	22 166 807
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Please order end cap set separately



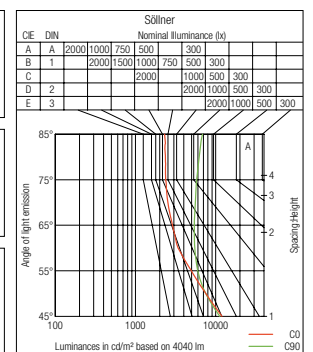
51 W: L = 1171
63 W: L = 1463



Light output ratio	
LOR	100 %
ULOR	0 %
DLOR	100 %
FFR	0.00 (0:100)
BLF	1.00

Classification	
LITG	A60
LG7	
BZ	BZ1
LITE	1.00 B
Flux Codes	751 937 988 1000 1001

Utilization Factors	
Room Reflectance	Room Index
Ceiling Walls Floor	0.75 1.00 1.25 1.50 2.00 2.50 3.00 4.00 5.00
70 50 20	77 84 89 93 98 101 104 106 108
SHR Nom = 1.25	SHR Max = 1.47
SHR Max TR = 1.57	



TECTON LED continuous-row luminaire, narrow beam



- |...|
- Focus of use: Industry and Engineering (shelf lighting)
- Colour temperature: 4000 K (LED840: neutral white)



Dimmable luminaires

	L/W	kg	Order no.
TECTON L1171 51W LED840 NB	1171/60	2,6	42 180 625
TECTON L1463 63W LED840 NB	1463/60	3,3	42 180 629

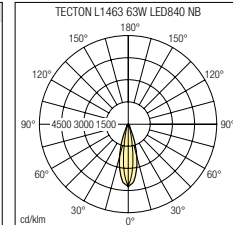
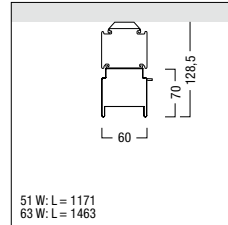
Luminaires with electronic ballast

	L/W	kg	Order no.
TECTON L1171 51W LED840 NB	1171/60	2,6	42 180 626
TECTON L1463 63W LED840 NB	1463/60	3,3	42 180 630

Accessory

End caps TECTON LED E (pair)	22 166 807
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Please order end cap set separately



Light output ratio	
LOR	100 %
ULOR	0 %
DLOR	100 %
FFR	0.00 (0:100)
BLF	1.00
Classification	
LITG	A80
LG7	
BZ	BZ1
LITE	1.00 A
Flux Codes	906 962 987 994 995

TECTON LED continuous-row luminaire, double wallwasher



- |...|
- Focus of use: Presentation and Retail (shelf lighting)
- Colour temperature: 3000 K (LED830: warm white), 4000 K (LED840: neutral white)



Dimmable luminaires

	L/W	kg	Order no.
TECTON L1171 51W LED830 DWW	1171/60	2,6	42 180 623
TECTON L1171 51W LED840 DWW	1171/60	2,6	42 180 621
TECTON L1463 63W LED830 DWW	1463/60	3,3	42 180 627
TECTON L1463 63W LED840 DWW	1463/60	3,3	42 180 619

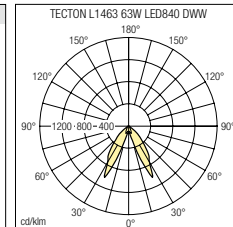
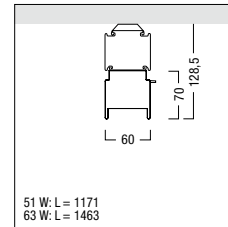
Luminaires with electronic ballast

	L/W	kg	Order no.
TECTON L1171 51W LED830 DWW	1171/60	2,6	42 180 624
TECTON L1171 51W LED840 DWW	1171/60	2,6	42 180 622
TECTON L1463 63W LED830 DWW	1463/60	3,3	42 180 628
TECTON L1463 63W LED840 DWW	1463/60	3,3	42 180 620

Accessory

End caps TECTON LED E (pair)	22 166 807
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Please order end cap set separately



Light output ratio	
LOR	100 %
ULOR	0 %
DLOR	100 %
FFR	0.00 (0:100)
BLF	1.00
Classification	
LITG	A50
LG7	
BZ	BZ4/1-5/BZ3
LITE	1.00 C
Flux Codes	655 949 989 998 998

TECTON LED continuous-row luminaire, wallwasher



- |...|
- Focus of use: Presentation and Retail (shelf lighting)
- Colour temperature: 3000 K (LED830: warm white), 4000 K (LED840: neutral white)
- The aluminium reflector supplied with the product comes in a white powder-coated finish and clips onto the luminaire without tools (can be fitted on both sides)



Dimmable luminaires

	L/W	kg	Order no.
TECTON L1171 51W LED830 WW	1171/60	2,6	42 180 615
TECTON L1171 51W LED840 WW	1171/60	2,6	42 180 613
TECTON L1463 63W LED830 WW	1463/60	3,3	42 180 617
TECTON L1463 63W LED840 WW	1463/60	3,3	42 180 611

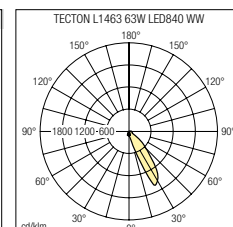
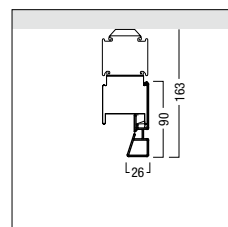
Luminaires with electronic ballast

	L/W	kg	Order no.
TECTON L1171 51W LED830 WW	1171/60	2,6	42 180 616
TECTON L1171 51W LED840 WW	1171/60	2,6	42 180 614
TECTON L1463 63W LED830 WW	1463/60	3,3	42 180 618
TECTON L1463 63W LED840 WW	1463/60	3,3	42 180 612

Accessory

Spare reflector TECTON LED 1171 Refl WW	22 166 917
Spare reflector TECTON LED 1463 Refl WW	22 166 918

End-cap set supplied



Light output ratio	
LOR	100 %
ULOR	4 %
DLOR	96 %
FFR	0.04 (4:96)
BLF	1.00
Classification	
LITG	A41
LG7	
BZ	
LITE	0.96 D + 0.04 T
Flux Codes	534 846 917 959 1000



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Order no. 04 924 269-EN 11/2011 © Zumtobel Lighting GmbH
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