

Straight down the line.

New: Loox 5 Easy. Logical. Linear. The LED lighting system for furniture and rooms.





Step 1: Select Lights

In the 1950s Richard Kelly, a pioneer of light design, differentiated between light to see - effect lighting - the illumination of an object or area - function lighting - and play of brilliance in which the light itself is the object to observe - design lighting.

EMPHASISING ROOM DIMENSIONS

The versatility of applications and combinations of lights within the LOOX LED System provide the opportunity to create these different types of lighting and combine them to emphasise the dimensions of room.

EFFECT LIGHTING

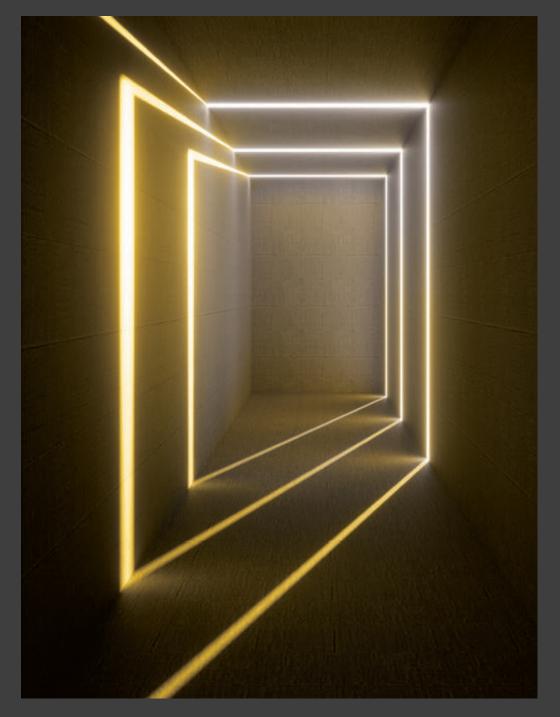
To balance room dimensions and facilitate special orientation, use ambient lighting for the desired effect. This will give a general light to illuminate the whole room.

FUNCTION LIGHTING

To illuminate a work surface in a kitchen or a bathroom counter top, task lighting is what is required here. Using the LOOX LED System to create this effect is easy to spec and install, adding the final touches of design to bring the room together.

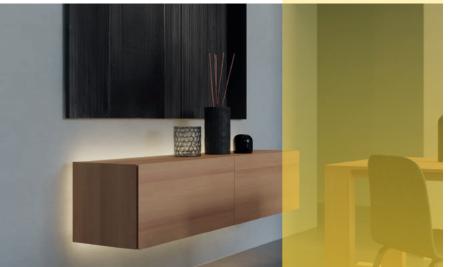
DESIGN LIGHTING

You can add to ambient lighting in a room by including spot lighting a particular object or feature, like an alcove, or a piece of art.



L)X5













STEP 2 - SELECT DRIVER



Linear light

For universal use in furniture.









- > Continuous light line with homogeneous light distribution
- > Minimalistic design
- > Virtually invisible, glare-free light source
- > Easy installation

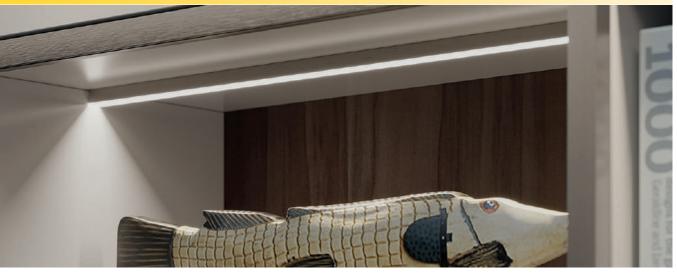
For every situation.

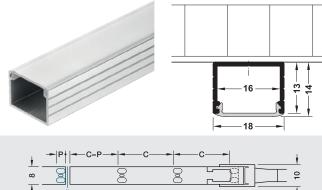
- > Splash-proof silicone strip lights for bathroom applications
- > Plastic profiles for vertical illumination in storage spaces
- > Aluminium profiles in trendy colours for top-of-the-line design demands

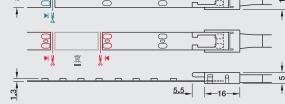
LED STRIP L1 L1 SURFACE PROFILE WITH LED STRIP LIGHT



L1 SURFACE PROFILE WITH LED STRIP LIGHT







 LED strip light cut (one contact side remains with the offcut; can be re-used)
 LED strip lights connection (two contact sides required)

C = cut length

P = contact surface length

Equipped with high-quality Samsung LEDs

	120	120 LEDs 60 LEDs		EDs
LIGHT COLOUR	3000K	4000K	3000K	4000K
WATTAGE (W)	24 (9.60 PER	R METRE)	12 (4.80 PEF	R METRE)
NUMBER OF LEDs	300 (120LEDs PER METRE)		````	
LIGHT OUTPUT (Lm)	970	1000	465	490
EFFICACY (Im/W)	101	104	97	102
COLOUR RENDERING INDEX (CRI)	90	90	90	90
ENERGY EFFICIENCY CATEGORY	A+	A+	A+	A+
WEIGHTED ENERGY CONSUMPTION (kWh/1,000h)	10.56 PER N	IETRE	5.28 PER MI	ETRE

Tips: How to select the right driver (refer to STEP 2) a. 40 WATT driver

- 120 LEDs Max. strip length 4000mm
- 60 LEDs Max. strip length 8000mm
- b. 60 WATT driver
 - 120 LEDs Max. strip length 6000mm 60 LEDs - Max. strip length 12000mm

Note: Maximum strip light length (visual) describes a strip light section within which the luminous lux drop is not visually perceptible and does not exceed 30%. Please note: a directly following strip light section with a new infeed is noticeably brighter.

We reserve the right to alter specifications without notice.

Number of LEDs/m	Wattage/m	Cut length C mm	Max. strip length (optical) m	3000K	4000K	Price* (MYR)
120 LEDs	9.6W	25	3.5	833.88.175 🍙	833.88.182 🕋	231.00
60 LEDs	4.8W	50	6	833.88.154 🕋	833.88.161 🏦	182.00

LED STRIP L1

L1 SURFACE PROFILE WITH LED STRIP LIGHT



		Art. No.	Price*(MYR)
Option 1: Connecting lead 4M - L1,L2, L3, L4, L	7, L8		
5.5 Image: state s	d 1 piece 2000mm extension lead	833.88.294	â 19.00
Option 2: Dimmer (with on/off) 4M - L1,L2 (Plea	ase skip step 3 if select this option)		
	itch with 2000mm lead and 1 piece 2000mm extension lead	833.71.649	â 47.00
Option 2: Motion lead 4M - L1,L2 (Please skip s	step 3 if select this option)		
$\frac{1}{4}$	ector switch with 2000mm lead and 1 piece 2000mm extension lead	833.71.650	â 51.00
MOUNTING BRACKET	CABINET WIDTH	Art. No.	Price*

MOUNTING BRACKET	CABINET WIDTH	Art. No.	Price* (MYR)
	> 0 - 600MM	833.74.832 x 1 🏾 🏠	3.00
	> 700 - 1200MM	833.74.832 x 2 🏾 🏠	6.00
	> 1300 - 1800MM	833.74.832 x 3 🏾 🏠	9.00
	> 1900 - 2500MM	833.74.832 x 4 🏻 🏦	12.00

OPTIONAL CONNECT	OPTIONAL CONNECTING ACCESSORIES			Price* (MYR)
		End cap	833.72.853 🏦	3.00
//	r < 30mm	Interconnecting Lead with Clip 50mm	833.89.191 🏦	16.00
TER P	A SING	Clip Connector	833.89.206 🚖	5.00
		Corner connector	833.89.187 🏦	9.00

STEP 3: SELECT FUNCTION

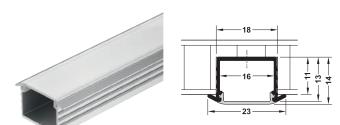
LED STRIP L2 L2 RECESS PROFILE WITH LED STRIP LIGHT

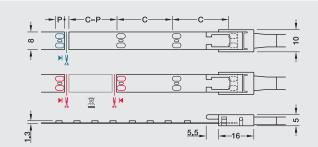


L2 RECESS PROFILE WITH LED STRIP LIGHT



STEP 1 - SELECT LIGHTS





____ LED strip light cut

(one contact side remains with the offcut; can be re-used) LED strip lights connection

(two contact sides required)

C = cut length

P = contact surface length

Equipped with high-quality Samsung LEDs

	120 LEDs		60 L	.EDs
LIGHT COLOUR	3000K	4000K	3000K	4000K
WATTAGE (W)	24 (9.60 PEF	R METRE)	12 (4.80 PEF	R METRE)
NUMBER OF LEDs	300 (120LEE METRE)	Ds PER	150 (60LEDs METRE)	s PER
LIGHT OUTPUT (Lm)	970	1000	465	490
EFFICACY (Im/W)	101	104	97	102
COLOUR RENDERING INDEX (CRI)	90	90	90	90
ENERGY EFFICIENCY CATEGORY	A+	A+	A+	A+
WEIGHTED ENERGY CONSUMPTION (kWh/1,000h)	10.56 PER N	METRE	5.28 PER M	ETRE

Tips: How to select the right driver (refer to STEP 2)

a. 40 WATT driver

- 120 LEDs Max. strip length 4000mm
- 60 LEDs Max. strip length 8000mm

b. 60 WATT driver

120 LEDs - Max. strip length 6000mm 60 LEDs - Max. strip length 12000mm

Note: Maximum strip light length (visual) describes a strip light section within which the luminous lux drop is not visually perceptible and does not exceed 30%. Please note: a directly following strip light section with a new infeed is noticeably brighter.

We reserve the right to alter specifications without notice.

LED STRIP L2

L2 RECESS PROFILE WITH LED STRIP LIGHT



	Number of LEDs/m	Wattage/m	Cut length C mm	Max. strip length (optical) m	3000K	4000K		Price* (MYR)
	120 LEDs	9.6W	25	3.5	833.88.176	833.88.183		234.00
	60 LEDs	4.8W	50	6	833.88.155	833.88.162		186.00
Supplied w	rith 1pc (2500 mr	n) LED strip and ⁻	1pc (2500 mm) re	ecess mounting prot	ile	^		
						Art. No.		Price*(MYR)
Option 1: Connecting	lead 4M - L1,L2, L	.3, L4, L7, L8				833.88.294	٦	19.00
5.5 16 Supplied with 1 piece 2	┊╼╾│	lead and 1 piece 2	+ 000mm extension l	lead		000.00.234	I	13.00
Option 2: Dimmer (wit	h on/off) 4M - L1,	L2 (Please skip st	ep 3 if select this	option)				
Supplied with 1 piece A				piece 2000mm extensi	on lead	833.71.649		47.00
		-	+	d and 1 piece 2000mm) extension lead	833.71.650		51.00
	TING ACCESSORI	ES				Art. No.		Price*
	ь.		End cap			833.72.853	٦	(MYR) 3.00
		5 30mm	Interconnec	cting Lead with Clip	50mm	 833.89.191	٦	16.00
15 45	A Starte B		Clip Conne	ctor		 833.89.206	٦	5.00

Corner connector

STEP 1 - SELECT LIGHTS

833.89.187

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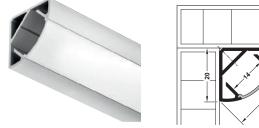
9.00

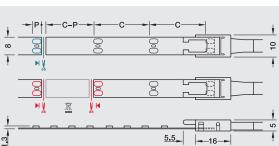
LED STRIP L3 L3 CORNER PROFILE WITH LED STRIP LIGHT



L3 CORNER PROFILE WITH LED STRIP LIGHT







LED strip light cut

(one contact side remains with the offcut; can be re-used) LED strip lights connection

(two contact sides required)

C = cut length

P = contact surface length

Equipped with high-quality Samsung LEDs

	120 LEDs		60 LED:	
LIGHT COLOUR	3000K	4000K	3000K	4000K
WATTAGE (W)	24 (9.60 PER	R METRE)	12 (4.80 PEF	R METRE)
NUMBER OF LEDs			150 (60LEDs METRE)	S PER
LIGHT OUTPUT (Lm)	970	1000	465	490
EFFICACY (Im/W)	101	104	97	102
COLOUR RENDERING INDEX (CRI)	90	90	90	90
ENERGY EFFICIENCY CATEGORY	A+	A+	A+	A+
WEIGHTED ENERGY CONSUMPTION (kWh/1,000h)	10.56 PER N	IETRE	5.28 PER M	ETRE

Tips: How to select the right driver (refer to STEP 2) a. 40 WATT driver

120 LEDs - Max. strip length 4000mm 60 LEDs - Max. strip length 8000mm

b. 60 WATT driver

120 LEDs - Max. strip length 6000mm 60 LEDs - Max. strip length 12000mm

Note: Maximum strip light length (visual) describes a strip light section within which the luminous lux drop is not visually perceptible and does not exceed 30%. Please note: a directly following strip light section with a new infeed is noticeably brighter.

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LED STRIP L3

Number of

LEDs/m

120 LEDs

60 LEDs

Option 1: Connecting lead 4M - L1,L2, L3, L4, L7, L8

A

L3 CORNER PROFILE WITH LED STRIP LIGHT

Wattage/m

9.6W

4.8W

Cut length C

mm

25

50

Supplied with 1pc (2500 mm) LED strip and 1pc (2500 mm) corner aluminium profile

Max. strip

3.5

6

length (optical) m

3000K

833.88.177

833.88.156

4000K

833.88.184

833.88.163

Art. No.

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Price*

(MYR)

242.00

194.00

Price* (MYR)

19.00

3.00

3.00 6.00 9.00 12.00 Price* (MYR) 5.00

	+	833.88.294 🍙
Supplied with 1 piece 2000mm connecting lead and 1 piece	2000mm extension lead	
	End cap	833.72.853 🕋
MOUNTING BRACKET	CABINET WIDTH	
	0 - 600MM	833.74.826 x 1 🏦
	700 - 1200MM	833.74.826 x 2 🏾 🌰
1.1 1.1	1300 - 1800MM	833.74.826 x 3 🌰
	1900 - 2500MM	833.74.826 x 4 🌰
OPTIONAL CONNECTING ACCESSORIES		Art. No.
		Art. No.
	Clip Connector	833.89.206 🏫

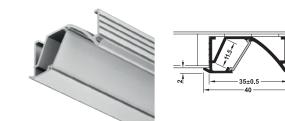
STEP 3: SELECT FUNCTION

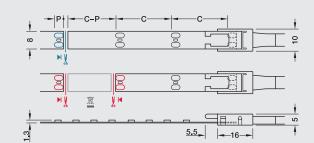
LED STRIP L4 L4 ANGLE PROFILE WITH LED STRIP LIGHT



L4 ANGLE PROFILE WITH LED STRIP LIGHT







 LED strip light cut (one contact side remains with the offcut; can be re-used)
 LED strip lights connection (two contact sides required)

C = cut lengthP = contact surface length

Equipped with high-quality Samsung LEDs

	120 I	EDs	60 L	EDs
LIGHT COLOUR	3000K	4000K	3000K	4000K
WATTAGE (W)	24 (9.60 PEF	R METRE)	12 (4.80 PEF	R METRE)
NUMBER OF LEDs			150 (60LEDs PER METRE)	
LIGHT OUTPUT (Lm)	970	1000	465	490
EFFICACY (Im/W)	101	104	97	102
COLOUR RENDERING INDEX (CRI)	90	90	90	90
ENERGY EFFICIENCY CATEGORY	A+	A+	A+	A+
WEIGHTED ENERGY CONSUMPTION (kWh/1,000h)	10.56 PER N	IETRE	5.28 PER MI	ETRE

Tips: How to select the right driver (refer to STEP 2) a. 40 WATT driver

120 LEDs - Max. strip length 4000mm

60 LEDs - Max. strip length 8000mm b. 60 WATT driver

120 LEDs - Max. strip length 6000mm 60 LEDs - Max. strip length 12000mm

Note: Maximum strip light length (visual) describes a strip light section within which the luminous lux drop is not visually perceptible and does not exceed 30%. Please note: a directly following strip light section with a new infeed is noticeably brighter.

LED STRIP L4

L4 ANGLE PROFILE WITH LED STRIP LIGHT



Number of LEDs/m	Wattage/m	Cut length C mm	Max. strip length (optical) m	3000K	4000K	Price* (MYR)
120 LEDs	9.6W	25	3.5	833.88.178	1 833.88.185 1	277.00
60 LEDs	4.8W	50	6	833.88.157	833.88.164 1	231.00



Supplied with 1pc (2500 mm) LED strip and 1pc (2500 mm) angle aluminium profile



OPTIONAL CONNECTING ACCESSORIES		Art. No.	Price* (MYR)
	End cap	833.74.848 🍙	3.00
re anno	Interconnecting Lead with Clip 50mm	833.89.191 🏦	16.00
CONTRACTOR OF THE OWNER OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWNER OWNER OF THE OWNER	Clip Connector	833.89.206 🚖	5.00

STEP 1 - SELECT LIGHTS

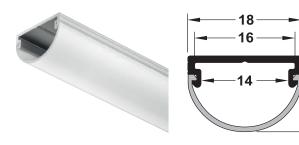
LED STRIP L5 L5 DRAWER PROFILE WITH LED STRIP LIGHT

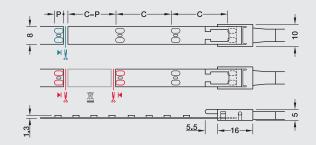


L5 DRAWER PROFILE WITH LED STRIP LIGHT



12.5-





LED strip light cut

(one contact side remains with the offcut; can be re-used) LED strip lights connection (two contact sides required)

C = cut length

P = contact surface length

Equipped with high-quality Samsung LEDs

	120 LEDs		60 L	.EDs
LIGHT COLOUR	3000K	4000K	3000K	4000K
WATTAGE (W)	24 (9.60 PEF	R METRE)	12 (4.80 PEF	R METRE)
NUMBER OF LEDs	300 (120LEDs PER METRE)		150 (60LEDs PER METRE)	
LIGHT OUTPUT (Lm)	970	1000	465	490
EFFICACY (Im/W)	101	104	97	102
COLOUR RENDERING INDEX (CRI)	90	90	90	90
ENERGY EFFICIENCY CATEGORY	A+	A+	A+	A+
WEIGHTED ENERGY CONSUMPTION (kWh/1,000h)	10.56 PER N	IETRE	5.28 PER M	ETRE

Tips: How to select the right driver (refer to STEP 2) a. 40 WATT driver

120 LEDs - Max. strip length 4000mm

60 LEDs - Max. strip length 8000mm b. 60 WATT driver 120 LEDs - Max. strip length 6000mm

60 LEDs - Max. strip length 12000mm

Note: Maximum strip light length (visual) describes a strip light section within which the luminous lux drop is not visually perceptible and does not exceed 30%. Please note: a directly following strip light section with a new infeed is noticeably brighter.

LED STRIP L5

L5 DRAWER PROFILE WITH LED STRIP LIGHT

Supplied with 1pc (2500 mm) LED strip and 1pc (2500 mm) drawer aluminium profile

Number of LEDs/m	Wattage/m	Cut length C mm	Max. strip length (optical) m	3000K	4000K	Price* (MYR)
120 LEDs	9.6W	25	3.5	833.88.179 🏦	833.88.186 🕋	253.00
60 LEDs	4.8W	50	6	833.88.158 💼	833.88.165 🕋	206.00

		Art. No.	Price*(MYR
otion 1: Drawer Door sensor lead 4M - L5 (Please	e skip step 3 if select this option)		
Left Supplied with 1 piece door sensor 12V for drawer profi	ile with 2000mm lead, 1 piece 2000mm extension lead	833.71.651 m	77.0
ption 2: Drawer. Motion lead 4M - L5 (Please skip	o step 3 if select this option)		
		833.71.652 🚖	79.0
Supplied with 1 piece motion detector 12V for drawer p and 1 pack of 5 sets of end caps with fixing screws	profile with 2000mm lead, 1 piece 2000mm extension	lead	
Supplied with 1 piece motion detector 12V for drawer p	profile with 2000mm lead, 1 piece 2000mm extension	lead Art. No.	Price*(MYF
Supplied with 1 piece motion detector 12V for drawer p and 1 pack of 5 sets of end caps with fixing screws			
Supplied with 1 piece motion detector 12V for drawer p and 1 pack of 5 sets of end caps with fixing screws	CABINET WIDTH	Art. No.	3.0
Supplied with 1 piece motion detector 12V for drawer p and 1 pack of 5 sets of end caps with fixing screws	CABINET WIDTH 0 - 600MM	Art. No. 833.74.893 x 1 🏠	3.0
Supplied with 1 piece motion detector 12V for drawer p and 1 pack of 5 sets of end caps with fixing screws	CABINET WIDTH 0 - 600MM 601 - 1200MM	Art. No. 833.74.893 x 1 833.74.893 x 2	3.0 6.0 9.0
Supplied with 1 piece motion detector 12V for drawer p and 1 pack of 5 sets of end caps with fixing screws	CABINET WIDTH 0 - 600MM 601 - 1200MM 1201 - 1800MM	Art. No. 833.74.893 x 1 833.74.893 x 2 833.74.893 x 3	Price*(MYF 3.0 6.0 9.0 12.0 Price (MYF

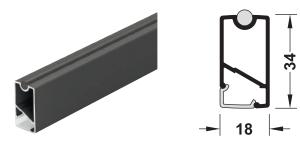
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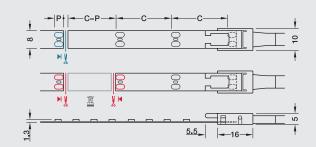
LED STRIP L6 L6 WARDROBE RAIL PROFILE WITH LED STRIP LIGHT



L6 WARDROBE RAIL PROFILE WITH LED STRIP LIGHT







LED strip light cut

(one contact side remains with the offcut; can be re-used) LED strip lights connection (two contact sides required)

C = cut length

P = contact surface length

Equipped with high-quality Samsung LEDs

	120 LEDs		60 L	.EDs
LIGHT COLOUR	3000K	4000K	3000K	4000K
WATTAGE (W)	24 (9.60 PEF	R METRE)	12 (4.80 PEF	R METRE)
NUMBER OF LEDs	300 (120LEDs PER METRE)		150 (60LEDs PER METRE)	
LIGHT OUTPUT (Lm)	970	1000	465	490
EFFICACY (Im/W)	101	104	97	102
COLOUR RENDERING INDEX (CRI)	90	90	90	90
ENERGY EFFICIENCY CATEGORY	A+	A+	A+	A+
WEIGHTED ENERGY CONSUMPTION (kWh/1,000h)	10.56 PER METRE		5.28 PER M	ETRE

Tips: How to select the right driver (refer to STEP 2) a. 40 WATT driver

120 LEDs - Max. strip length 4000mm

60 LEDs - Max. strip length 8000mm b. 60 WATT driver

- 120 LEDs Max. strip length 6000mm
- 60 LEDs Max. strip length 12000mm

Note: Maximum strip light length (visual) describes a strip light section within which the luminous lux drop is not visually perceptible and does not exceed 30%. Please note: a directly following strip light section with a new infeed is noticeably brighter.

LED STRIP L6

L6 WARDROBE RAIL PROFILE WITH LED STRIP LIGHT

Number of LEDs/m	Wattage/m	Cut length C mm	Max. strip length (optical) m	3000K	4000K	Price* (MYR)
120 LEDs	9.6W	25	3.5	833.88.180 🕋	833.88.187 🍙	292.00
60 LEDs	4.8W	50	6	833.88.159 🚖	833.88.166 🕋	260.00

Supplied with 1pc (2500 mm) LED strip and 1pc (2500 mm) wardrobe rail profile

		Art. No.	Price* (MYR)
Connecting lead 4M with end support			
5.5 -16	+ + + to to	833.88.295 🍙	41.00
OPTIONAL CONNECTING ACCESSORIES			1
	Hook, straight edged	803.30.500 🍙	9.00
S S S S S S S S S S S S S S S S S S S	Clip Connector	833.89.206 🏦	5.00

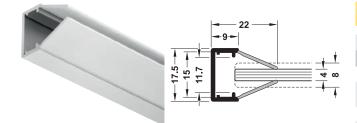


LED STRIP L7 L7 GLASS EDGE PROFILE WITH LED STRIP LIGHT

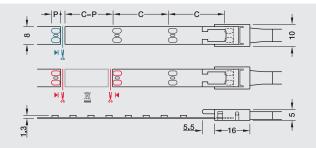


L7 GLASS EDGE PROFILE WITH LED STRIP LIGHT





- > For manufacturing customized glass edge lighting for glass thickness of 4-8mm
 - > Without load bearing function
 - > Only for LED strip lights with max 7.5W/m



___ LED strip light cut

(one contact side remains with the offcut; can be re-used) LED strip lights connection (two contact sides required)

C = cut length

P = contact surface length

Equipped with high-quality Samsung LEDs

	120 LEDs		60 L	EDs
LIGHT COLOUR	3000K	4000K	3000K	4000K
WATTAGE (W)	24 (9.60 PEF	R METRE)	12 (4.80 PEF	R METRE)
NUMBER OF LEDs	240 (120LEDs PER METRE)		120 (60LEDs PER METRE)	
LIGHT OUTPUT (Lm)	970	1000	465	490
EFFICACY (Im/W)	101	104	97	102
COLOUR RENDERING INDEX (CRI)	90	90	90	90
ENERGY EFFICIENCY CATEGORY	A+	A+	A+	A+
WEIGHTED ENERGY CONSUMPTION (kWh/1,000h)	10.56 PER N	IETRE	5.28 PER M	ETRE

Tips: How to select the right driver (refer to STEP 2) a. 40 WATT driver

- 120 LEDs Max. strip length 4000mm
- 60 LEDs Max. strip length 8000mm

b. 60 WATT driver

- 120 LEDs Max. strip length 6000mm
- 60 LEDs Max. strip length 12000mm

Note: Maximum strip light length (visual) describes a strip light section within which the luminous lux drop is not visually perceptible and does not exceed 30%. Please note: a directly following strip light section with a new infeed is noticeably brighter.

LED STRIP L7

L7 GLASS EDGE PROFILE WITH LED STRIP LIGHT

	Number of LEDs/m	Wattage/m	Cut length C mm	Max. strip length (optical) m	3000K	4000K	Price* (MYR)
	120 LEDs	9.6W	25	3.5	833.88.181 🏦	833.88.188 🍙	223.00
	60 LEDs	4.8W	50	6	833.88.160 🍙	833.88.167 🕋	174.00
Supplied with 1pc (2000 mm) LED strip and 1pc (2000 mm) glass edge profile							



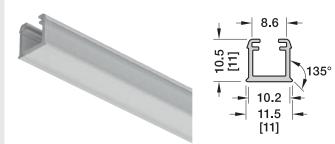
STEP 1 - SELECT LIGHTS

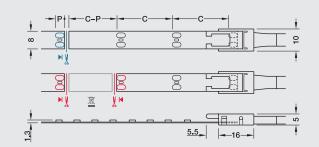
LED STRIP L8 L8 VERTICAL PROFILE WITH LED STRIP LIGHT



L8 VERTICAL PROFILE WITH LED STRIP LIGHT







LED strip light cut

- (one contact side remains with the offcut; can be re-used) LED strip lights connection (two contact sides required)
- C = cut length
- P = contact surface length

Equipped with high-quality Samsung LEDs

	120 I	LEDs	60 L	.EDs
LIGHT COLOUR	3000K	4000K	3000K	4000K
WATTAGE (W)	28.8 (9.60 P	ER METRE)	14.4 (4.80 P	ER METRE)
NUMBER OF LEDs	360 (120LEDs PER METRE)		180 (60LEDs PER METRE)	
LIGHT OUTPUT (Lm)	970	1000	465	490
EFFICACY (Im/W)	101	104	97	102
COLOUR RENDERING INDEX (CRI)	90	90	90	90
ENERGY EFFICIENCY CATEGORY	A+	A+	A+	A+
WEIGHTED ENERGY CONSUMPTION (kWh/1,000h)	10.56 PER N	METRE	5.28 PER M	ETRE

Tips: How to select the right driver (refer to STEP 2) a. 40 WATT driver

120 LEDs - Max. strip length 4000mm 60 LEDs - Max. strip length 8000mm b. 60 WATT driver

120 LEDs - Max. strip length 6000mm 60 LEDs - Max. strip length 12000mm

Note: Maximum strip light length (visual) describes a strip light section within which the luminous lux drop is not visually perceptible and does not exceed 30%. Please note: a directly following strip light section with a new infeed is noticeably brighter.

3 YEAR

LED STRIP L8

L8 VERTICAL PROFILE WITH LED STRIP LIGHT

Number of LEDs/m	Wattage/m	Cut length C mm	Max. strip length (optical) m	3000K	4000K	Price* (MYR)
120 LEDs	9.6W	25	3.5	833.88.263	833.88.265	223.00
60 LEDs	4.8W	50	6	833.88.264 💼	833.88.260 🚖	174.00



	Art. No.	Price* (MYR)
Option 1: Connecting lead 4M - L1,L2, L3, L4, L7, L8		
5.5 16 1 piece 2000mm connecting lead and 1 piece 2000mm extension lead	833.88.294 🏦	19.00

STEP 1 - SELECT LIGHTS

LED 2092

DOWNLIGHT, MODULAR

Häfele Loox5 LED 2092







Equipped with high-quality Samsung LEDs

	2092	80°
3000 K	4000K	80-
1990 lx	2025 lx	– 250 mm
540 lx	540 lx	— 500 mm
230 lx	235 lx	— 750 mm
125 lx	130 lx	-1000 mm

TIPS: How to select the right driver (refer to Step 2) a. 40 WATT driver - Max. for 13pcs LED lights b. 60 WATT driver - Max. for 19pcs LED lights

Not enough light slot? (ONE driver has 6 light slots)

Add 6 way distributor for additional light slot-833.74.798 (refer to STEP 2)

Stainless steel

coloured

(upon request)



Description

Recess mounting





Silver coloured Black

.

Anthracite (upon request) Brown (upon request) Matt nickel plated (upon request) White, RAL 9003 (upon request)

Light colour	Diame- ter (mm)	Height (mm)	Wattage (W)	Number of LEDs	Light output (Im)	Efficacy (Im/W)	Colour ren- dering index (CRI)	Housing colour finish	Art. No.		Price* (MYR)/ Set
3000K	61.2	13.5	3.4	6	240	71	>90	Silver coloured	833.88.266	俞	106.00
 (Warm white)								Black	833.88.268	俞	106.00
4000K		61.2 13.5	3.4	6	250	74	>90	Silver coloured	833.88.267	俞	106.00
(Cool white)								Black	833.88.269	俞	106.00



1pc LED 2092, 1pc housing for recess mounting, 1pc 2m connecting lead and 1pc 2m extension lead

HAFELE

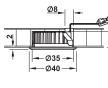
LED 2040

Häfele Loox5 LED 2040









	3000 K	4000 K	90°	
ī	660 lx	720 lx	+	250 mm
2	180 lx	185 lx	-	500 mm
	80 lx	85 lx	-	750 mm
	40 lx	50 lx	-	1000 mm

TIPS: How to select the right driver (refer to Step 2)

a. 40 WATT driver - Max. for 26pcs LED lights b. 60 WATT driver - Max. for 38pcs LED lights

Not enough light slot? (ONE driver has 6 light slots)

Add 6 way distributor for additional light slot-833.74.798 (refer to STEP 2)



Silver coloured

Black

Matt nickel plated (upon request)

White, RAL 9003 (upon request)

Descrip- tion	Light colour	Diame- ter (mm)	Height (mm)	Wattage (W)	Number of LEDs	Light output (Im)	Efficacy (Im/W)	Colour rendering index (CRI)	Housing colour finish	Art. No.		Price* (MYR)/ Set
Recess	3000K	38.5	13.5	1.5	3	88	59	90	Silver coloured	833.71.483	a	72.00
mounting	(Warm white)								Black	833.88.272	俞	72.00
	4000K	38.5	13.5	1.5	3	96	64	90	Silver coloured	833.88.273	俞	72.00
	(Cool white)								Black	833.88.274	a	72.00

Supplied with

1pc LED 2092, 1pc housing for recess mounting, 1pc 2m connecting lead and 1pc 2m extension lead

STEP 1 - SELECT LIGHTS

STEP 3: SELECT FUNCTION

SURFACE MOUNTED DOWNLIGHT

Häfele Loox LED 2027

0





STEP 1 - SELECT LIGHTS



TIPS: How to select the right driver (refer to Step 2) a. 40 WATT driver - Max. for 14pcs LED lights b. 60 WATT driver - Max. for 22pcs LED lights

Not enough light slot? (ONE driver has 6 light slots) Add 6 way distributor for additional light slot- 833.74.798 (refer to STEP 2)

3000 K	5000 K	117°
867 lx	918 l x	- 250 mm
216 I x	229 lx	— 500 mm
96 lx	102 I x	– 750 mm
54 I x	57 I x	– 1000 mm

1pc LED 2027 with 2m lead, fixing material and 1pc 2m extension lead

Description	Light colour	Diameter (mm)	Height (mm)	Wattage (W)	Number of LEDs	Light output (Im)	Efficacy (Im/W)	Colour ren- dering index (CRI)	Art. No.	Price* (MY	(R)/ Set
Surface mounting	3000K (Warm white)	65	9	2.6	27	190	73	85	833.71.676 👚	74	1.00
	5000K (Cool white)	65	9	2.6	27	218	84	85	833.71.677 👚	î 74	1.00



We reserve the right to alter specifications without notice.

Supplied with

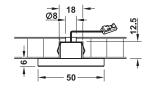
HAFELE

Häfele Loox5 LED 2036









3000 K	5000 K	100°		
984 lx	1033 I x		250	mm
246 I x	255 lx	-	- 500	mm
109 I x	114 I x	-	- 750	mm
62 lx	66 lx	-	- 1000	mm

TIPS: How to select the right driver (refer to Step 2) a. 40 WATT driver - Max. for 10pcs LED lights b. 60 WATT driver - Max. for 16pcs LED lights

Not enough light slot? (ONE driver has 6 light slots) Add 6 way distributor for additional light slot- 833.74.798 (refer to STEP 2)

Description	Light colour	Size (L x W x H) mm	Wattage (W)	Number of LEDs	Light output (Im)	Efficacy (Im/W)	Colour ren- dering index (CRI)	Art. No.	Price* (MYR)/ Set
Surface mounting	3000K (Warm white)	250 x 50 x 18.5	3.6	36	182	51	82	833.71.678 🕋	139.00
	5000K (Cool white)	250 x 50 x 18.5	3.6	36	210	58	82	833.71.679 🕋	139.00

Supplied with

1pc LED 2036 with 2m lead, fixing material and 1pc 2m extension lead

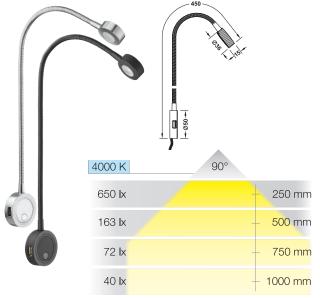
STEP 1 - SELECT LIGHTS

LED 2034

FLEXIBLE LIGHT WITH CHARGING STATION

Häfele Loox LED 2034





TIPS: How to select the right driver (refer to Step 2) a. 40 WATT driver - Max. for 2pcs LED lights b. 60 WATT driver - Max. for 3pcs LED lights

Not enough light slot? (ONE driver has 6 light slots) Add 6 way distributor for additional light slot- 833.74.798 (refer to STEP 2)

Description	Light colour	Size (L x W x H) mm	Wattage (W)	Number of LEDs	Light output (Im)	Efficacy (Im/W)	Colour ren- dering index (CRI)	Finish/ Colour	Art. No.		Price* (MYR)/ Set
LED 2034	4000K (Cool white)	450 x 50 x 15.5	Max. 17	3	105	70	82	Chrome plated	833.74.096	a	382.00
	4000K (Cool white)	450 x 50 x 15.5	Max. 17	3	105	70	82	Black	833.74.097		347.00

Supplied with 1pc LED 2034 with 2m lead and fixing material

STEP 1 - SELECT LIGHTS

STEP 3: SELECT FUNCTION

STEP 3: SELECT FUNCTION

LED 2028

SENSOR-CONTROLLED PLINTH LIGHT, IP44

() C € (€) us → RoHS ↓ P20 ↓ P20 ↓ P20 ↓ P20 ↓ P20 ↓ P20 ↓ P20

Häfele Loox5 LED 2028





(Warm

white)

Supplied with

2700 K

26 lx

7 Ix

1pc LED 2028 with 2m lead, fixing material

Not enough light slot? (ONE driver has 6 light slots) Add 6 way distributor for additional light slot- 833.74.798 (refer to STEP 2)

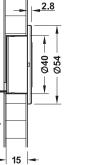
TIPS: How to select the right driver (refer to Step 2) a. 40 WATT driver - Max. for 115pcs LED lights b. 60 WATT driver - Max. for 175pcs LED lights

54 x 17.3 0.34 0 - 3,000 Approx. 2 3 4 12 90 Black 833.73.111 mm mins





69°



250 mm

500 mm



HAFELE



Step 2: Select driver

The intelligent drivers represent the core of the LOOX System. Not only do they provide different numbers of lights with the power that is required, but they are also suitable for the different voltages and frequencies all over the world, recognise different types of switch, can be used dimming and can be combined in many different ways. International testing and certification make the use thereof extremely safe and easy.

MAINS PLUG

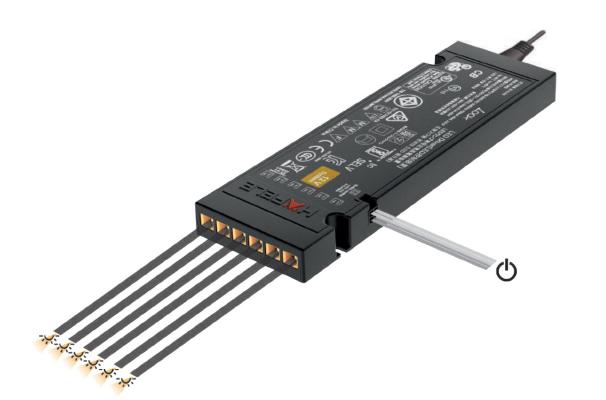
DRIVER

SWITCH

LIGHTS

LOOX DRIVER







Intelligent drivers represent the core of the Loox system. Not only do they provide different numbers of lights with the power that is required, but they are also suitable for different voltages and frequecies all over the world. Loox drivers can also recognise different types of switch, can be used for dimming and can be combined in many different ways.

Wattage (W)	Input voltage	Output voltage	Output current	Degree of pro- tection	Number of slots	Colour	Length (mm)	Width (mm)	Height (mm)	Art. No.		Price* (MYR)/ Set
0 - 40	100 - 240 V; 50 - 60 Hz	DC 12V	3.33 A	IP20	6 slots for 12V lights, 1 slot for switch, 1 slot for	Black	190	60	16	833.71.692	俞	200.00
0 - 60	100 - 240 V; 50 - 60 Hz	DC 12V	3.35 A	IP20	primary leads		208	56.5	30	833.71.693	俞	244.00

Supplied with

1pc driver and 1pc primary lead

Not enough light slot? (ONE driver has 6 light slots) Add 6-way distributor for additional light slot- 833.74.798 (refer to STEP 2)

Description	Art. No.		Price* (MYR)
6 way distributor	833.74.798	a	27.00



We reserve the right to alter specifications without notice.

Step 3: Select function

THE MOST IMPORTANT COMPONENTS OF THE LOOX SYSTEM

• • • • • • • • • • • • • •

Based on the plug and play driver, you can customise the system in accordance with your requirements using add-on modules. The flexible and modular system components make it possible to have a wide range of applications and solutions, simplify installation or provide meaningful combinations of different lights and switches.



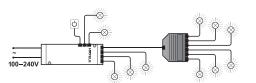
THE LOOX SYSTEM COMPONENTS



6-WAY DISTRIBUTOR



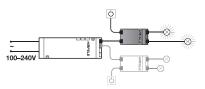
With the 6-way distributor, up to 5 additional lights can be operated from one driver slot.



3-WAY DISTRIBUTOR WITH SWITCHING FUNCTION



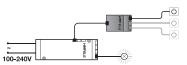
The relevant lights can be operated separately and individually using the 3-way distributor with switching function connected to the output of the light.



MULTI SWITCH BOX



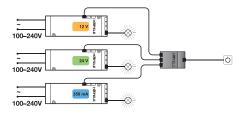
1 LED driver operated by up to 3 switches. Allows the LED driver to be switched on and off from different positions.



MULTI DRIVER BOX

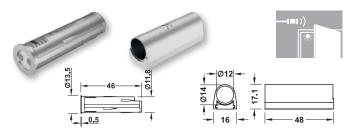


Up to 3 LED drivers can be controlled with 1 switch. Several drivers and therefore several lights in the room can be switched on and off with one switch. These can also be 3 of the same driver if you require additional power in a 12 V system, for example.



LOOX SWITCHES

Häfele Loox door sensor switch, modular - soft on/off switching



> Material/colour: Plastic, silver coloured

> Material/colour: Plastic, silver coloured

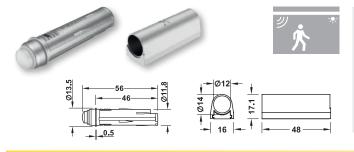
> Material/colour: Plastic, silver coloured

> Degree of protection: IP20 > Power consumption: ≤0.3 W > Drill hole Ø: 12 mm

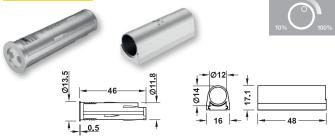
> Degree of protection: IP20 > Sensor range: 0-3000 mm > Sensor angle: 120 > Power consumption: \leq 0.1 W > Delay time: 30 sec. > Drill hole Ø: 12 mm

- > Degree of protection: IP20
- > Sensor range: 0-100 mm
- > Power consumption: ≤0.3 W
- > Drill hole Ø: 12 mm

Häfele Loox motion detector, modular - automatic on/off switching



Häfele Loox dimmer, modular - automatic on/off switching



Häfele Loox door contact switch - on/off switching

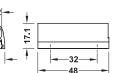
Häfele Loox door contact switch - on/off switching

Ø15

Ø11.8



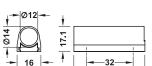




> Length: 28 mm > Degree of protection: IP20

> Material/colour: Plastic, black

> Drill hole Ø: 12 mm



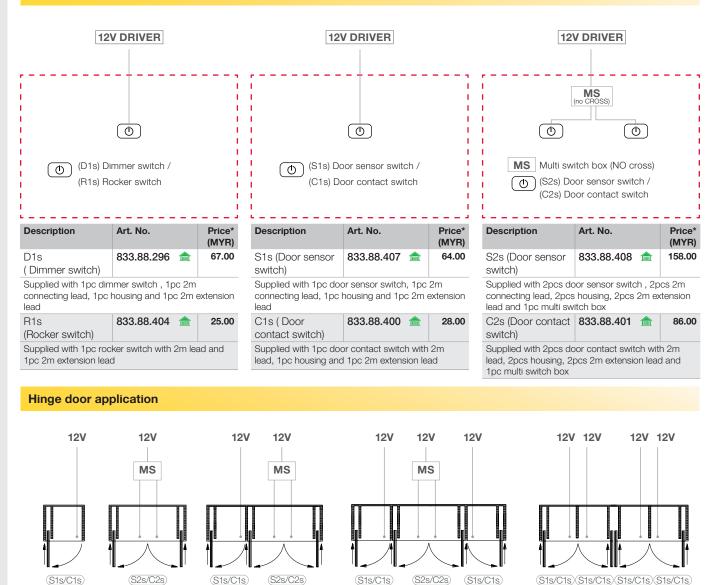
HAFELE

- Drill hole Ø for plug: 12 mm
- > Material/colour: Plastic, black
 - > Diameter: 15 mm
 - > Height: 17.7 mm
 - > Drill hole Ø: 12 mm

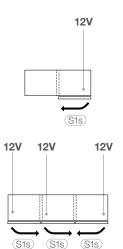
Drill hole Ø for plug: 12 mm

APPLICATIONS AND SOLUTIONS

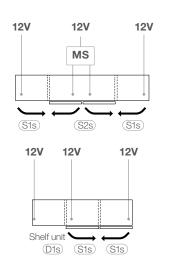
APPLICATION EXAMPLES: One driver is used in SINGLE module



Sliding door and shelf unit application



12V 12V (S1s) (S1s) 12V 12V 12V MS (S1s) (S2s) (S1s)

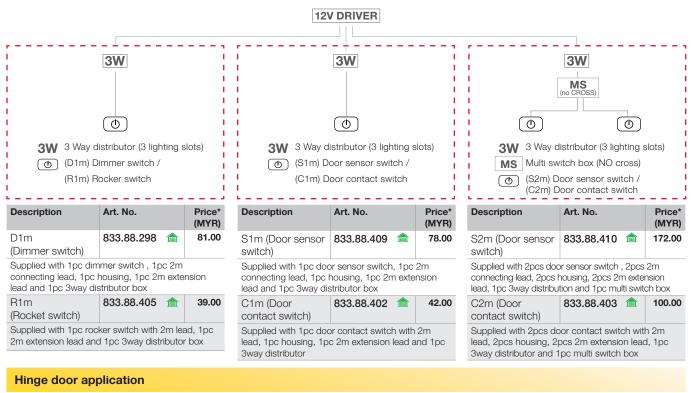


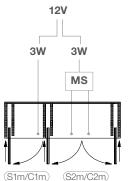
We reserve the right to alter specifications without notice

STEP 1 - SELECT LIGHTS

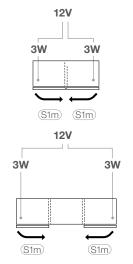
APPLICATIONS AND SOLUTIONS

APPLICATION EXAMPLES: One driver is used in MULTIPLE modules



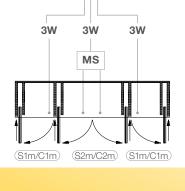


Sliding door and shelf unit application

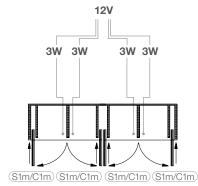


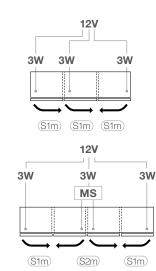
reserve the right to alter specifications without notice

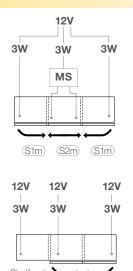
We



12V





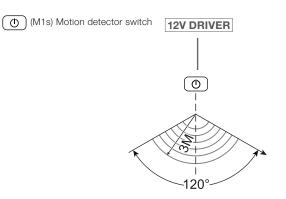


Shelf unit (D1m/R1m) (S1m) (S1m)

APPLICATIONS AND SOLUTIONS

APPLICATION EXAMPLES: One driver is used in SINGLE module

(M1s) Motion detector switch



*Becommende	ed switch po

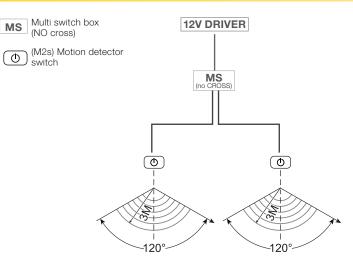
*Recommended switch position

Description	Art. No.		Price*(MYR)
(M1s) Motion detector switch	833.88.411	a	69.00

Supplied with 1pc motion detector switch, 1pc 2m connecting lead, 1pc housing and 1pc 2m extension lead

(M2s) Motion detector switch

(M3s) Motion detector switch

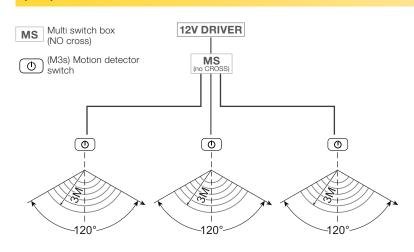




*Recommended switch position

Description	Art. No.	Price*(MYR)
(M2s) Motion detector switch	833.88.412 🏠	168.00

Supplied with 2pcs motion detector switch, 2pcs 2m connecting lead, 2pcs housing, 2pcs 2m extension lead and 1pc multi switch box



*Recommended switch position

Description	Art. No.	Price*(MYR)
(M3s) Motion detector	833.88.413 🍙	231.00

Supplied with 3pcs motion detector switch, 3pcs 2m connecting lead, 3pcs housing, 3pcs 2m extension lead and 1pc multi switch box

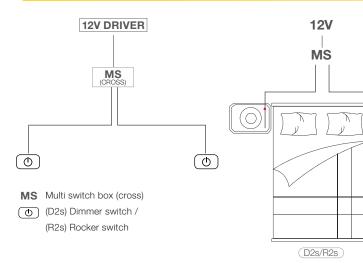
APPLICATIONS AND SOLUTIONS

APPLICATION EXAMPLES: One driver is used in SINGLE module



(O)

Bedside table light application



Description	Art. No.		Price* (MYR)
D2s (Dimmer switch)	833.88.297	a	164.00
Supplied with 2pcs dimmer switch , 2pcs 2m connecting lead, 2pcs housing, 2pcs 2m extension lead and 1pc multi switch box			

R2s (Rocker switch)	833.88.406	a	80.00
Supplied with 2pcs rocker switch, 2p 1pc multi switch box	ocs 2m extensio	on lead	l and

STEP 3: SELECT FUNCTION

ACCESSORIES

Hafele drilling jig

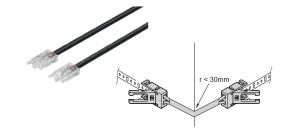


- > Precision drill holes in furniture side panels for leads and switches for Loox lights
- > Compact design for already assembled furniture
- > For panel thickness: 16, 19 and 25mm
- > Drilling sleeves: 8, 10 and 12mm

Description	Art. No.	Price*(MYR)
Hafele drilling jig	001.25.080 🏫	707.00



Interconnecting lead with clip 50mm

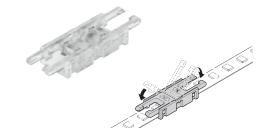


>	Current	carrying	capacity:	Max.	5 A
---	---------	----------	-----------	------	-----

- > Width: Clip 10mm
- > Drill hole Ø: Clip 12mm
- > Supplied with: 1 lead clip/clip

Description	Art. No.	Price*(MYR)
Interconnecting lead with clip 50mm	833.89.191 🏫	16.00

Clip connector



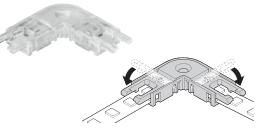
> Current carrying capacity: Max. 5 A

> Current carrying capacity: Max. 5 A > Supplied with: 1 corner connector

- > Width: Clip 10mm
- > Drill hole Ø: Clip 12mm
- > Supplied with: 1 clip connector

Description	Art. No.	Price*(MYR)
Clip connector	833.89.206 🍙	5.00

Corner connector



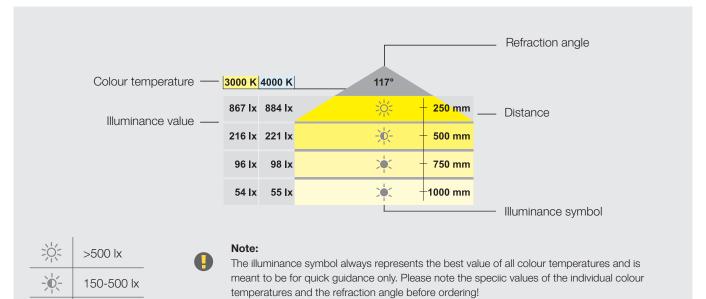
Description	Art. No.	Price*(MYR)
Corner connector	833.89.187 🏦	9.00

STEP 1 - SELECT LIGHTS

STEP 3: SELECT FUNCTION

LIGHT EFECTS AND LIGHTING TECHNOLOGY

Cone of light



Recommendation for illumination of interior rooms

<150 lx

:0:

Interior room type	Illuminance in Lux at 500 mm	Colour temperature
Kitchen, dining area	300-500	2700-4000 K
Store ixtures, galleries	300-500	4000-6500 K
Bedroom, living room	200-300	2700-4000 K
Bathroom	200-500	3500-4000 K
Storage room	100	4000-5000 K
Orientation light, hallway, wardrobe	10-50	4000-5000 K

TEST SYMBOLS AND SYMBOLS

Product features

	Dimmable
0	RGB light
0	Multi-white light
*	Bluetooth [®] : Industry s between electronic d distance. The Bluetoo

standard for data transmission devices by radio over a short ooth® word mark and logos are registered trademarks of Bluetooth SIG, Inc., and Häfele uses these marks under licence. Other trademarks and names are the propriety of their respective owners.

Test symbol

	TÜV seal of quality
ČE	Conirmation from manufacturer that the product complies with the product-speciic applicable European norms and standards. Häfele will not use the certilication in advertising.
RoHS	Restriction of Hazardous Substances (EU directive 2011/65/EU). Häfele will not use the certiication in advertising.
e Us	Underwriters Laboratories, correspondence with the national standards in the USA and Canada
(V)	Energy eiciency standard VI of the United States Department of Energy
PS	Product Safety Electrical Appliance and Material Safety Law (for Japan)
	Regulatory Compliance Mark (for Australia)
	China Compulsory Certilcation
EAC	Eurasian Conformity, for CU countries (Russia, Kazakhstan, Belarus)
	Korea Certiication Mark
R36733	Bureau of Standards, Metrology & Inspection BSMI (for Taiwan)
TB 1000 2042	Thai Industrial Standards Institute TISI
10	European Norms Electrical Certiication, with indication of the testing laboratory (one of 18 European national institutes)
FC	Declaration of Conformity for telecommunication and radio equipment (USA)
Ð	Telecommunication and Radio Equipment (Japan)

Protection classes

Protection class II

Protection class III (111)

Degrees of protection

IP20	Only for use in dry locations
IP44	Penetration by solid foreign bodies q ≥1 mm is prevented. Water spray protection (water from all directions)
IP65	Dustproof, protection from water spray (jet) from any angle.
	IP44 after installation
	IP65 after installation

Safety symbols



Installation permitted on or in furniture, whose ignition properties are unknown.

Max. surface temperature in case of fault

Lights to be used indoors only. Not to be used outdoors!







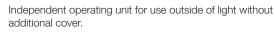
Driver, converts alternating current to direct

Voltage supply

围

8

SELV Safety Extra Low Voltage



Short-circuit proof with safety isolation

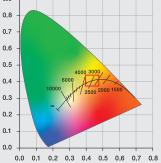
HAFELE

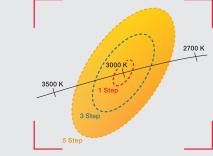
TECHNICAL TERMS

Technical terms

Refraction angle	The refraction angle (beam angle) describes the angle between two imagined straight lines in a plane through the visual beam axis, whereby these straight lines go through the centre of the front of the lamp and through the points at which the illuminance is 50% of the illuminance on the visual beam axis.
Illuminance	The illuminance is the luminous lux (lm) in relation to a surface (m) and it is indicated in Lux (lx). It is used to measure the brightness with which a surface is illuminated.
Binning	During industrial manufacture, LEDs difer from each other with regard to colour, luminous lux (brightness) and forward voltage. In order to achieve consistent light quality with the same brightness level and a uniform light colour, they are therefore sorted according to colour, luminous lux and forward voltage and separated into bins ("containers") during manufacture. This sorting process is known as Binning. Häfele exclusively uses bins with a high degree of brightness in order to achieve high eiciency.
Bluetooth® Mesh	Network technology which was introduced in 2017, based on Bluetooth® Low Energy, in which all components (controls, devices) form a joint network, which is ideal for controlling lights. Häfele Connect Mesh uses this technology.
Energy eiciency class	The energy eiciency class provides information about the relevant energy consumption. Lamps and lights are categorised in classes E to A++. LED lights achieve the highest classes A to A++.
Colour temperature and light colour	The colour temperature is a speciication of the colour appearance of a white light source and is measured in Kelvin (K). The lower the colour temperature, the warmer the light colour; the higher the colour temperature, the colour temperature below 3400 K are considered "warm white" by Häfele, white light sources with a colour temperature between 3400 K and 5700 K are considered "cool white". White light sources above 5700 K are referred to as "daylight white".
Colour consistency/	0.9

colour diferences





Colour diferences are speciled in stages, so called "MacAdams Ellipses" or "SDCM" (Standard Deviation of Colour Matching). Häfele uses 3 SDCM binnings for its LED products. This is a good value, because it is statistically unlikely that LEDs with a maximum colour diference will be next to each other on the strip light or in the light and that the colour diference is visible. In its ErP directive, the EU Commission stipulates that 6 SDCMs may not be exceeded for LED products.

SDCM	Visibility
1	Only people with extremely good vision can see the most minimal colour diferences.
2	Most minimal colour diferences are visible.
3	Very small colour diferences are visible.
4	Colour diferences are visible.
5	Signiicant colour diferences are visible.
>5	Very clear colour diferences are visible.

Colour rendering index CRI	The colour rendering index is a parameter that can be used to compare the colour rendering quality of light sources at the same colour temperature. The higher the value, the better the colour rendering. A value of 100 corresponds to the colour rendering of daylight.
Weighted energy consumption	The weighted energy consumption is rounded to two decimal places in kilowatt hours in relation to 1,000 hours of use. It applies to operation of the LED with an external driver. The calculation and publication of this

value is deined by EU ordnance No. 874/2012.

TECHNICAL TERMS

Technical terms						
ConstanLife time L80/B10	The same current lows through each LED. That means that the brightness of all LEDs is the same, and a drop in luminous lux is prevented. This increases the maximum visual length of the strip lights.					
Life time	Speciled in operating hor environment, the shorter the average operating tin time relates to L70/B50.	the life time. The replacent	ement rate in years is ca	Iculated from the total life	time and	
	Indoor use Annual operating time (EN 15193) Years Hours Hours Hours					
	Office	2,500	20	50,000		
	Education	2,000	25	50,000		
	Hospital	5,000	10	50,000		
	Hotel	5,000	10	50,000		
	Restaurant	2,500	10	25,000		
	Shop	5,000	10	50,000		
Life time L80/B10	L80 is the time after which the LED is still emitting 80 % of its original light. B10 means that 10 % of the LEDs may have less than 80 % of the original light output. Häfele tests all LEDs it uses in accordance with the LM-80 standard. LM-80 is a standardised testing method, which allows products to bear the EPA's (Environmental Protection Agency) Energy Star. The test is a manufacturer-independent comparison of LEDs. During the test the luminous lux (Lumen maintenance) of an LED is tested at three different temperatures for a minimum of 6,000 hours. Then the life time L80 is calculated by means of extrapolation. The extrapolation procedure is described in regulation IES TM-21.					
LED	This semi-conductor eler	A light-emitting diode (LED) is a semi-conductor element that emits light when electricity passes through it. This semi-conductor element consists of a crystal that is attached to a metal base, and both are encapsulated in protective plastic. LEDs are mostly based on inorganic, i.e. non-carbonic materials.				
Luminous eicacy	It is used to measure the	The luminous eicacy is the ratio of the luminous lux and the wattage absorbed. It is used to measure the operating eiciency of the light source. It is indicated in Lumen per Watt (Im/W).				
Luminous lux	It is indicated in Lumen (Im). The luminous lux indicates the light output, i.e. the quantity of light a source emits. The value may be subject to measurement and production-related luctuations of 10 %.					
Drop in luminous lux	The brightness of the LEDs on LED strip lights decreases with the length of the strip light due to the increasing resistance of the copper line. A drop in luminous lux from the irst to the last LED of up to 30% is imperceptible to the human eye. That's why Häfele species a maximum strip light length for this visual value. Generally, it is possible to operate strip lights with longer lengths, but a diference in brightness will be visible. Exception: The LEDs of the strip lights with constant current technology (LED 2077/3050/3051/3052) always have the same brightness.					
Max. strip light length	 Visual value Strip light length with an imperceptible drop in luminous lux of max. 30%. Wattage-dependent value Strip light length = output power of driver / wattage of the strip light per meter. If the wattage-dependent value is greater than the visual value, a diference in brightness will be perceivable. Exception: The LEDs of the strip lights with constant current technology (LED 2077/3050/3051/3052) always have the same brightness. 					
					LEDs	
Multi-white	The light colour of shade white to cool white.	es of white can be chang	ed as required with Häfe	ele Connect. Mesh, e.g. fr	rom warm	
RGB	RGB is the abbreviation colour combination can l			ele Connect Mesh, almos	t any	
RoHS Lead in Loox products	Loox Products by Häfele are lead-free and adhere to the RoHS guidelines. RoHS is part of CE conformity. All Loox products are CE compliant. Häfele does not advertise the CE conformity in its catalogues, since only CE compliant products are allowed to be ofered. The declaration of conformity is available online at www.hafele.com					
Transmittance	Ratio of transmitted light	to incidental light. An ide	eal transparent body wo	uld have a transmittance	of 100 %.	

LIGHTING TECHNOLOGY

LEDs (Light Emitting Diodes) can vary the properties of the light that is generated, and generate almost the entire colour spectrum. Unlike normal incandescent bulbs or halogen bulbs, LED's generate little heat. They use less energy and have a long life time.

THE ADVANTAGES:

> Longer lasting

LED lights have an extremely long life time of up to 25 years or more than 40,000 to 50,000 hours.

> Insensitive

LEDs have an extremely small and robust design. This makes handling easier during furniture construction and transport.

> Low heat generation

Because of their extremely low power consumption, LED lights generate hardly any heat.

This means that LED lighting systems are particularly suitable for displays.

> Energy-saving

LED lights use an impressive 90 percent less power than conventional incandescent bulbs!

This means that they can be used to implement modern lighting scenarios in furniture, and still be in line with the energy saving trend.

> Powerful

Modern LED lights are bright and have a saturated light colour. They achieve full brightness as soon as they are switched on.

LED furniture lighting therefore has a lasting effect at the push of a button.

> Rich in variants

LED lights are available in different colours, and can also be designed as colour changing lights.

This allows the colour temperature to be coordinated with furniture contents such as exhibits in the best possible way.

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LED FLEXIBLE STRIP LIGHT

QUALITY FEATURES

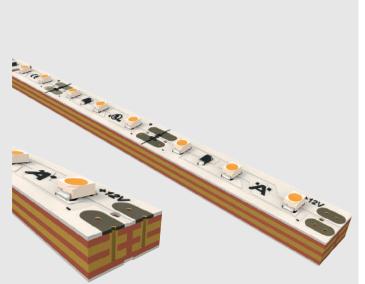
How to recognize our quality:

Light emitting diode (LED):

- > Use of extremely bright high-power LEDs for maximum light quality
- > Low light colour tolerance subsequent purchases have the same colour
- > At the end of their life time, the LEDs still have at least 70% of the luminous flux (ambient temperature ≤35°C)

Structure of strip:

- > Multi-layer for transporting high currents with little heat development
- Flexible copper alloy for avoiding broken conductor tracks
- Gold-plated connections for a permanently reliable, corrosion-free contact
- > White top coat with UV coating to prevent corrosion and yellowing, for permanent aesthetics
- > Reflective white top coat for better light yield
- > The rear 3M© adhesive tape provides secure adhesion to practically any surface
- > Strips can be individually shortened, extended and are also flexible due to clip and corner connectors





PLAN FLEXIBLY

Loox. The comprehensive kit of light and functions

To achieve different lighting effects is one thing. To respond to different installation situations, is something else altogether. With the large number of components in the Loox LED system both are possible. From the wide-angle beam of interior cabinet lighting incorporating a door contact switch combined with drawer lighting, to the combination of mood and functional lighting in an open kitchen.



LED FLEXIBLE STRIP LIGHTS



SURFACE MOUNTED DOWNLIGHT

MODULAR DOWNLIGHTS







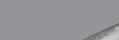












SWITCHES



LIGHTING INFORMATION

Technical questions

What is the life time of the products in permanent operation?	Loox5 drivers >50,000 hrs. at a maximum ambient temperature (40 C/45 C), wall plug drivers 30,000 hrs. at an ambient temperature of max. 40 C. Provide for suicient air supply and circulation at the mounting location of the driver. Loox5 LED strip lights >50,000 hrs. at an ambient temperature of max. 45 C. Cooling with an aluminium proile is recommended from 9.6 W/m.
1. Illuminating	
If the illuminance of an LED strip light measured with or without a difuser?	The illuminance is measured at the LED strip light without a difuser and without a proile, since the proile and the difusers can be variably combined with the strip lights. With difusers the light permeability is specified in order to be able to estimate the loss. In case of doubt, we recommend carrying out a test to check out the efect of proiles.
How do I clean an LED strip light?	LED strip lights without a silicone sleeve do not require cleaning. Silicone strip lights can be wiped down with a damp antistatic cloth. Scouring agents and aggressive cleaners can destroy the surface and attack the LEDs.
Can an LED lexible strip light be used behind acrylic glass?	Yes, however the acrylic glass increases the colour variations (binning) up to four times and minimal colour deviations are therefore more visible.
How is consistent bulb light colour guaranteed?	Häfele makes high demands on the selection of the materials. All Loox5 strip lights contain highquality and long-lasting LEDs from Samsung and Lumileds. Setting very tight quality speciications ensures not only luminous lux and breakdown voltage, but also consistent light colour for followup purchases.
Can Loox lights be used in RVs/boats/cars?	Yes. Constant current strip lights can compensate for voltage luctuations of the vehicles without problems. Standard LED strip lights can be used as well. It is important to note, however, that the voltage peaks may reduce the life time.
Can I use Loox in saunas and bathrooms?	Yes. This applies to all lights which provide protection of at least IP44 (preferably IP67) when installed. This is suicient for many applications. LED silicone strip lights are IP44 protected as well. However, it must be ensured that the driver and mains lead are dry. Attention must also be paid to the maximum ambient temperature.
2. Extending	
What expansion options are possible?	The Loox system can be extended with charging stations (USB and inductive) and sound systems (e.g. exciter speakers).
What is the best way to use an exciter speaker?	Can be installed on glass and mirror glass (36 mm each), acrylic glass (3 mm), chipboard (1020 mm) and mineral composite boards.
3. Switching	
How can sensor switch malfunctions be avoided (Ø12 mm)?	Check for correct switch installation. The TOP lettering on the switch must point upwards in the installation situation.
Can Loox lights be operated using multiple switches?	Yes, please use the multi switch box to do this. Up to three switches can be connected to the multi switch box.
Can the multi switch box, the multi driver box and the 3-way distributor with switching function be connected in series multiple times?	No, because the signals can no longer be transmitted properly.

LIGHTING INFORMATION

Technical questions

4. Distributing								
Can multiple distributors be cascaded?	Yes, the individual limits are the output of the driver and the maximum lead length of 10 m from the driver to the light/charging station.							
Can multiple 6-way distributors with a switching function be cascaded?	Yes, and switches can also be used. This makes the switch of the irst box the master switch. Note: only the last level in a cascade can contain dimmers. Dimmers at a higher level would interfere with the switching function of the downstream distributors.							
How many Watts does a 6-way distributor use?	A 6-way distributor with switching function has power consumption of 0.1 W. A Häfele Connect Mesh 6-way distributor has power consumption of 0.5 W. No power consumption has to be taken into consideration for distributors without a switching function.							
How long may the lead between the driver and the device be?	The maximum lead length from the Loox5 driver to the device is 10 m. Long cable lengths in combination with large loads (strip light lengths) can result in voltage losses in the cable. These lead to visible loss of brightness in the lights. The illuminance listed with the lights has been determined with the rated output voltage of the driver. (12 V or 24 V).							
Can you use 12 V and 24 V lights on the same distributor?	Yes, please use the respective converter.							
What does AWG mean in the speciication of cables?	AWG stands for American Wire Gauge. It is the coding for wire diameters in electrical leads that are mainly used in North America. This identiies the cross-section of wires in electrical leads that consist of strands and wire.							
What is the current carrying	Häfele allows the fo	ollowing current c	arrying capacity	and wattage:				
capacity of a cable?	Type of cable	24 AWG	22 AWG	20 AV	VG	18 AW	G	
	Current carrying capacity	1.5 A	2.5 A	3.5 A		5.0 A		
	Voltage	12 V 24 V	12 V 24	V 12 V	24 V	12 V	24 V	
	Wattage	18 W 36W	30W 60	W 42W	84W	60W	120W	-
	The cable type is printed on the sheathing of the cable.							
5. Supplying	·							
May I use drivers from other manufacturers?	In order to ensure the safety and functionality of the installation, only Loox drivers or drivers that have been explicitly approved by Häfele may be used. If an electrician installs the system, Loox can also be connected and coupled with on-site electrical equipment. However, we explicitly point out that these tasks must be performed by a qualied electrician.							
Why do the lights have to be plugged in irst before the driver is connected to the mains voltage with the mains lead?	If the driver is connected to the mains voltage irst, electrical power is output at the secondary side, which leads to overvoltage and therefore damage to the lights if they are connected.							

Flashing is a sign of (under or) overloading.

Use a driver with higher power or reduce the number of devices.

Tip: install the drivers/distributors in the furniture plinth or above the cabinet top (with cover).

Provide bases or cabinet tops with an opening and cover them with an additional removable positive-itting shelf. Only the shelf needs to be removed for inspecting.

Why does my LED light lash?



HÄFELE (M) SDN BHD

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