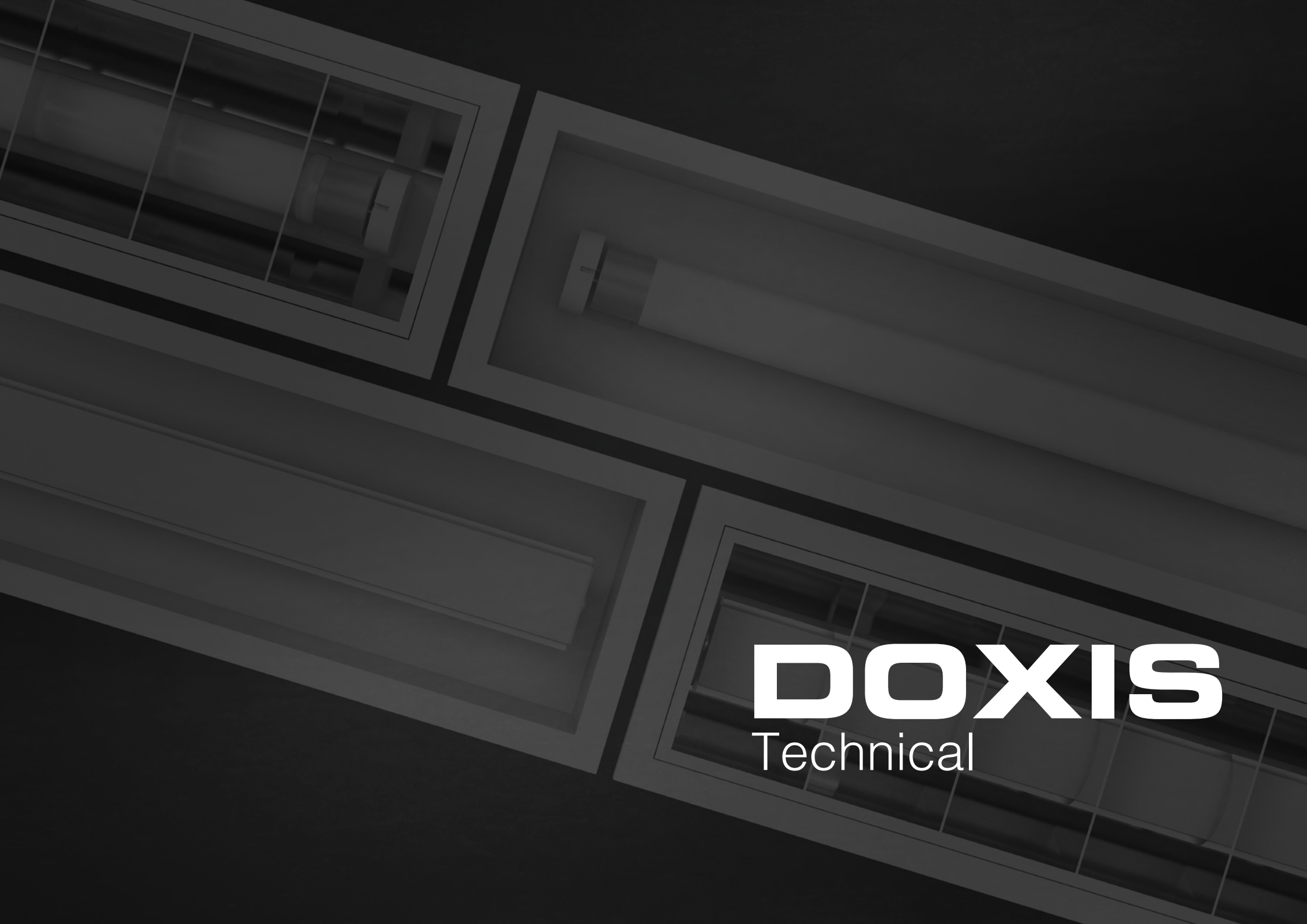




DOXIS
Technical

DOXIS

LIGHTING FACTORY

Founded in 2002, Dosis Lighting Factory is a young and dynamic company. We design, develop, produce and assemble architectural lighting fixtures at our facilities in Genk, Belgium. This offers more flexibility, faster lead times and a better quality control. Quality, customer support and short delays is what we stand for. Long-term partnership is what we are looking for. But more than anything our customers inspire us when building solutions!

Dosis has partnerships with well-known designers, engineers and tool builders. We create very up-to-date designs using first-quality components and the latest technology from well-known European suppliers such as Philips, Bridgelux, TCI, Vossloh Schwabe and Citizen to name a few.

We serve dealers, architects, light planners and installers in numerous countries all over the world. We manufacture lighting fixtures used in private homes, shops, museums, offices, etc... Some references include Nike sportswear, Tommy Hilfiger, Mc Donalds, Airport Hong Kong, Airport Bremen Germany, City Hall Luxemburg, City Hall Strassbourg France, Ferrari München Germany, Living Tomorrow Brussels Belgium, Kérastase, Postbank Amsterdam, Opera House Sydney Australia, Chiquita Banana HQ Charlotte NC, Ministry of foreign affairs Kabul Afghanistan, Airbus Toulouse France and







Quality Guarantee

Modern CNC equipment and machinery guarantee quality parts that are needed to assemble. Highly qualified workers guarantee short lead times and a constant quality.

Recently, Daxis invested in a brand new coating facility, applying both powder coating and liquid coatings. Standard we offer 10 different colors, and on request we can coat any existing RAL tone. Our coating facility applies the strongest possible ecological norms.



Nikko

The ultimate solution for re-lighting



Durability

Long Lifetime
5 Years Warranty
Made in Belgium



Optimal Lighting

Available in 3000K or 4000K
Low Glare (UGR<19)
High color rendering index (CRI>90)
High efficiency optical system



Performance

High efficacy up to 160lm/w
Nominal & High output series



Wide application area

Compact light engine
Driver built-in
Optional emergency lighting



Flexibility & Control

Non dimmable, DALI dimmable, Casambi
Flexible sizing and custom dimensions
Large color palette of standard colors
Custom colors
Lots of beam shaping options

made in
Belgium





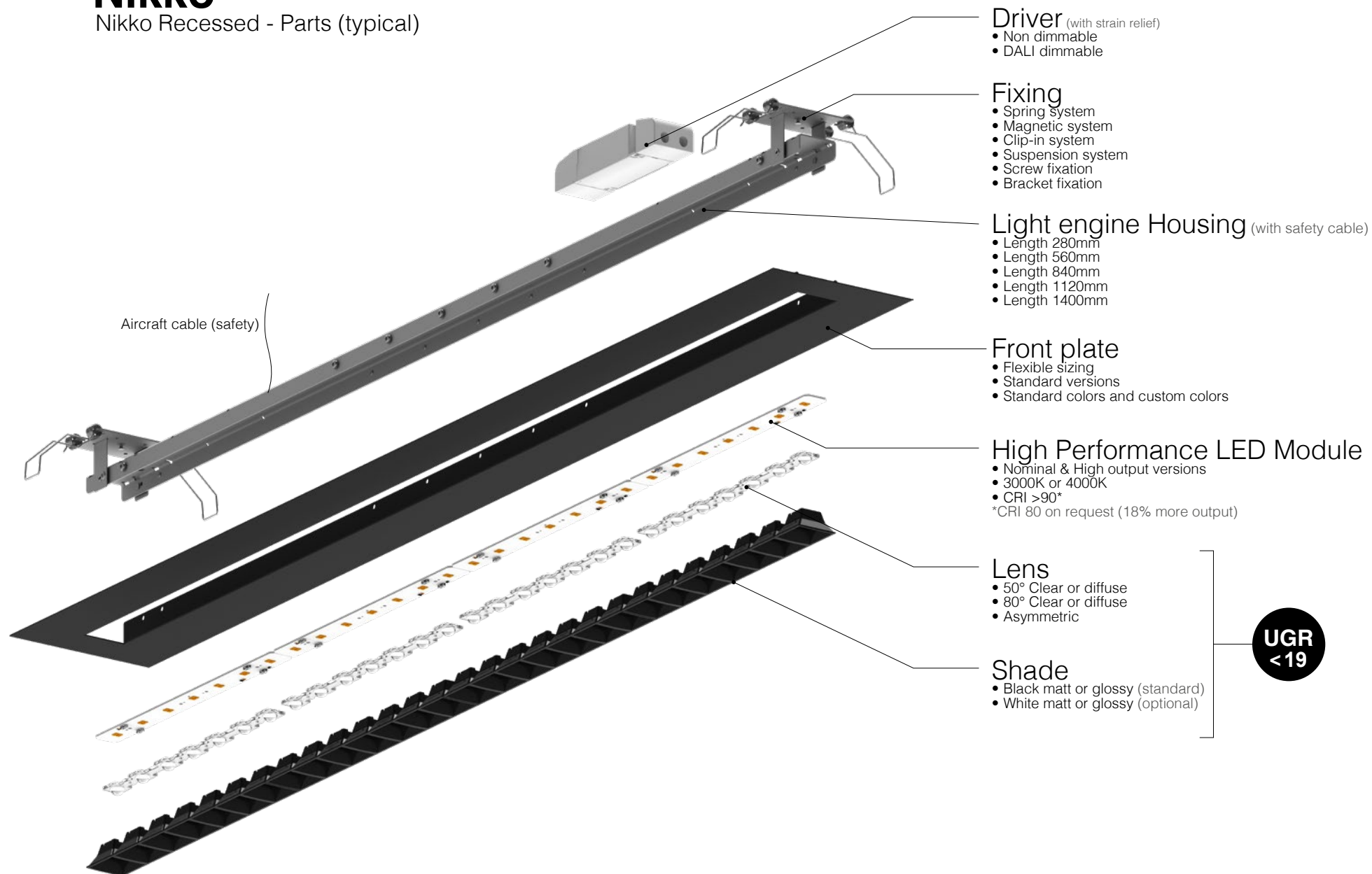
Nikko 日光

Japanese word meaning sunlight.

Do not say Kekko (magnificent) until you have seen Nikko.
Japanese proverb

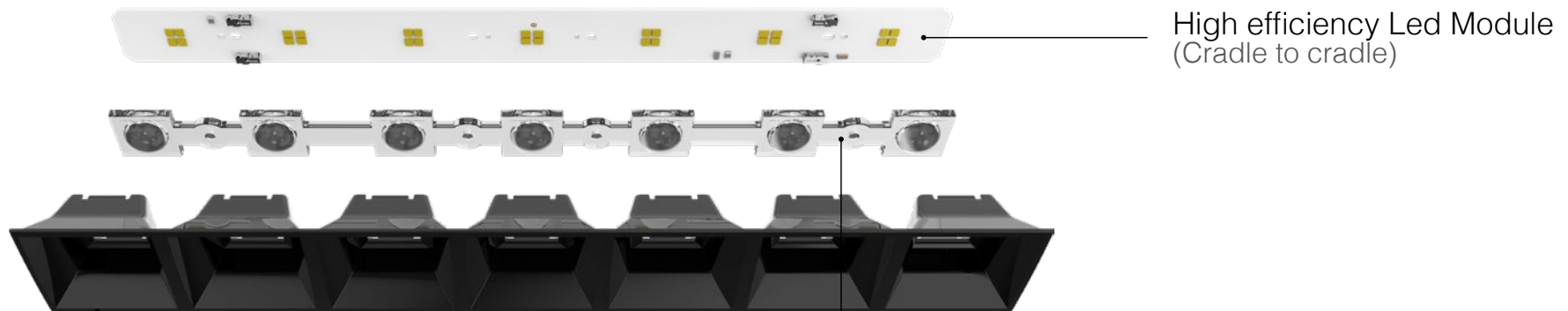
Nikko

Nikko Recessed - Parts (typical)

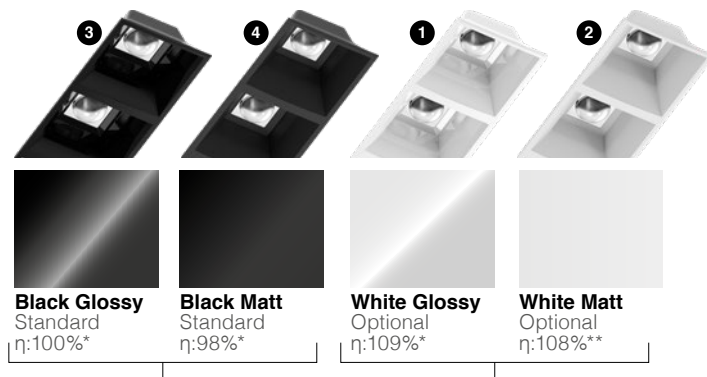


Nikko

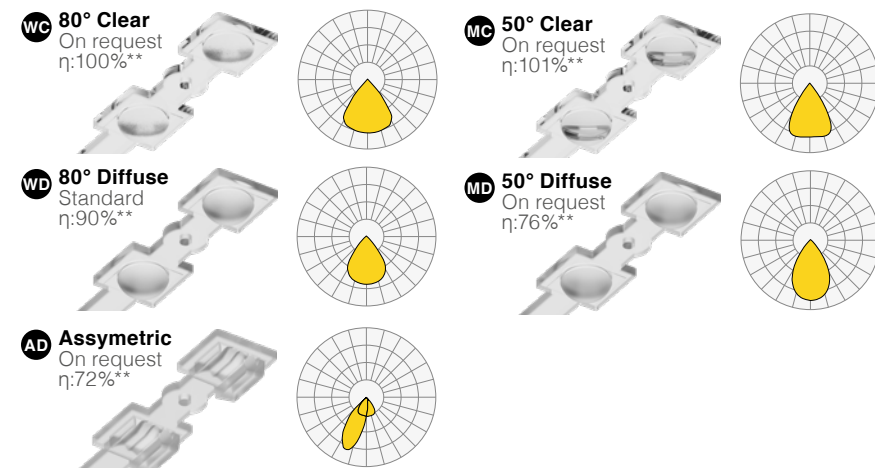
Led & optical system



Shades



Lenses



* Remark: Range for LOR (light output ratio) dependant on the type of lens used.
 ** Percentage indicates amount of light relative to Black Glossy shades equipped with 80° clear lens
 *** Efficiency relative to Black Glossy shades equipped with 80° clear lens

Nikko

Front plate & light engine dimensions

Nikko consists of a fixed length light engine and a front plate with dimensions following the requirements (variable!).
The light engine is the heart of the luminaire and is available in 5 standard lengths.
The front plate is available in with several pre-defined dimensions or custom dimensions.
This means that width and length can be adjusted to suit almost any situation.



Light engine 1500

Length: 1400mm
Front plate length: $\geq 1430\text{mm}$
Front plate width: $\geq 100\text{mm}$



Light engine 1200

Length: 1120mm
Front plate length: $\geq 1150\text{mm}$
Front plate width: $\geq 100\text{mm}$



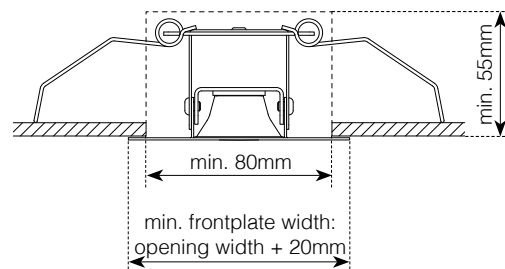
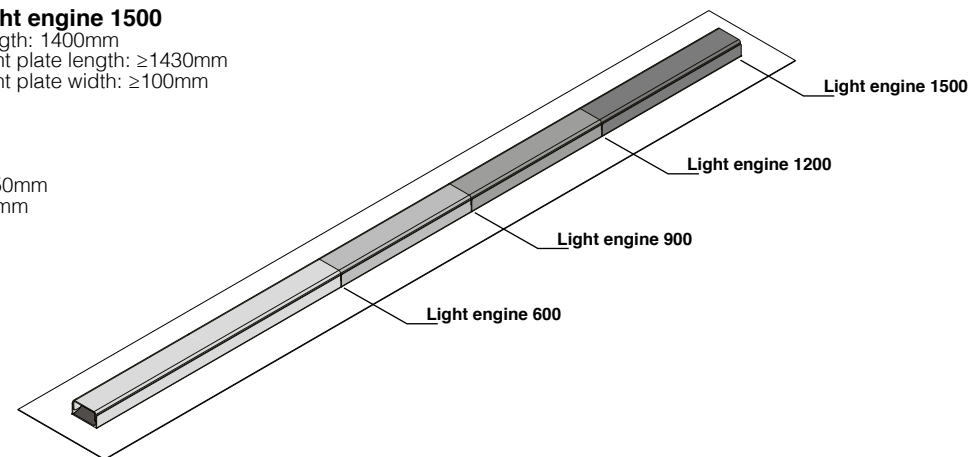
Light engine 900

Length: 840mm
Front plate length: $\geq 870\text{mm}$
Front plate width: $\geq 100\text{mm}$

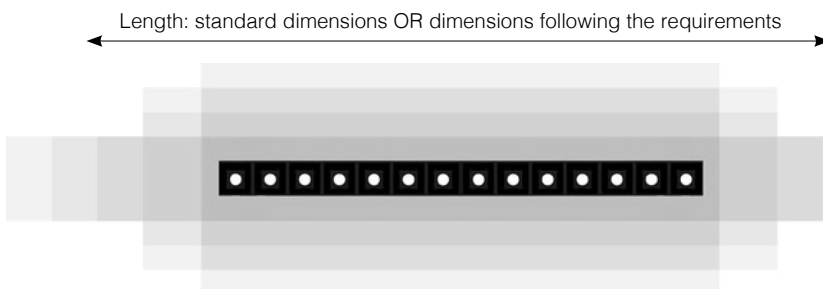


Light engine 600

Length: 560mm
Front plate length: $\geq 590\text{mm}$
Front plate width: $\geq 100\text{mm}$



Frontplate - Flexible Dimensions



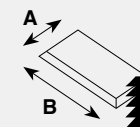
Width:
Standard dimensions
OR
Custom dimensions



Installation slot dimensions

Width (A)

Nikko Width	Spring holder	Installation slot width
100mm	SH0813	80mm
150mm	SH0813	80-130mm
200mm	SH1318	130-180mm
250mm	SH1823	180-230mm
300mm	SH2328	230-280mm
350mm	SH2833	280-330mm
400mm	SH3338	330-380mm



Length (B)

Light engine Length	installation slot length
Light engine 600	565-580mm
Light engine 900	845-880mm
Light engine 1200	1125-1180mm
Light engine 1500	1405-1480mm
Longer modules on request	

Nikko

Fixation

Customisation items

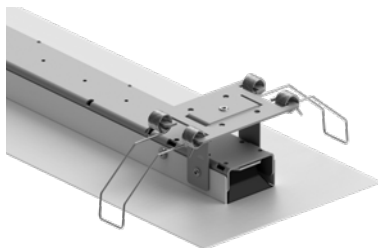
art. 5000.**XXX**.00.MM.00

Fixation type

Nikko recessed width (10,15,20,30,35,40)

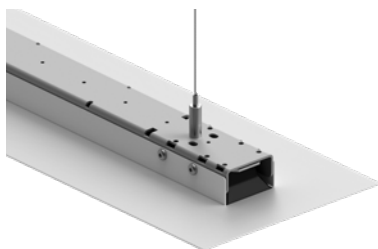
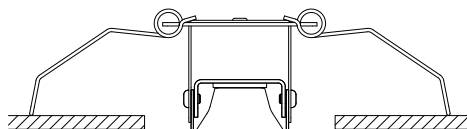
Customisation items to fit into the installation space. For these options a minimum volume is required. Please do request for quotation.

Dropped / Suspended / False Ceilings



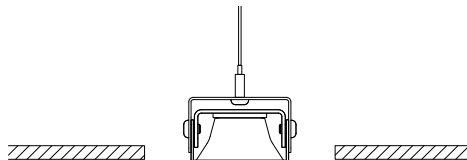
1 Springs (standard)

Standard included for Nikko Recessed
Number of brackets provided:
2 Brackets: 600/900/1200mm
3 brackets: 1500mm

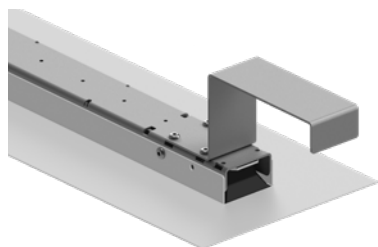


2 Suspended

art. 5000.**SUS**.00.MM.00

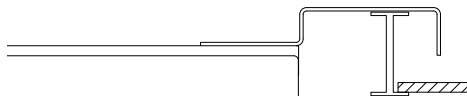


Minimum volume required: 50 sets

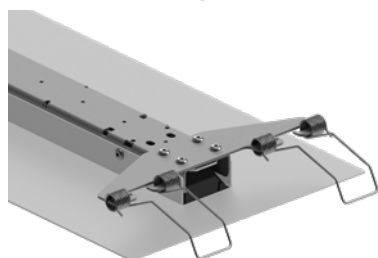


5 Bracket for grids

art. 5000.**BRT**.00.MM.00

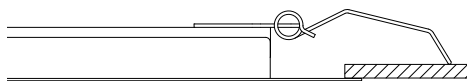


Minimum volume required: 50 sets



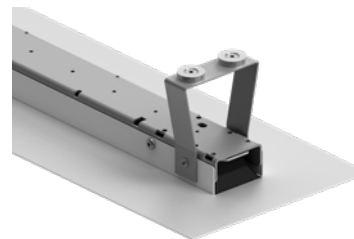
7 Springs on ends

art. 5000.**BUL**.00.MM.00



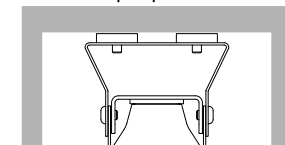
Minimum volume required: 50 sets

Enclosed spaces

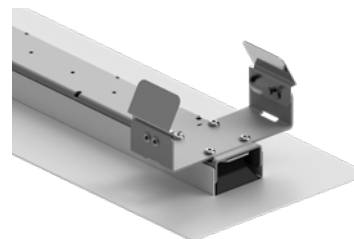


3 Magnetic

art. 5000.**MAG**.00.MM.00
€ 8.75 per piece

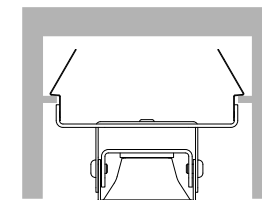


Minimum volume required: 100 sets

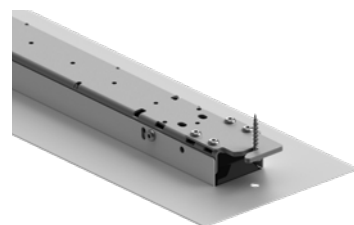


4 Clip-in

art. 5000.**CLP**.00.MM.00

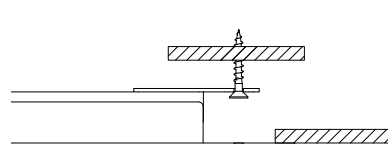


Minimum volume required: 100 sets

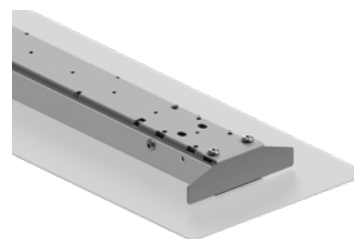


6 Screw Mounting

art. 5000.**SCRW**.00.MM.00



Accessories



5 Safety bracket

art. 5000.**SBK**.00.00.00

Spring/Bracket location can be adjusted upon request.
Custom amount of brackets available on request.

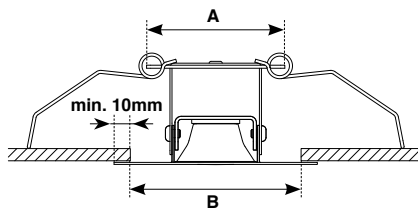
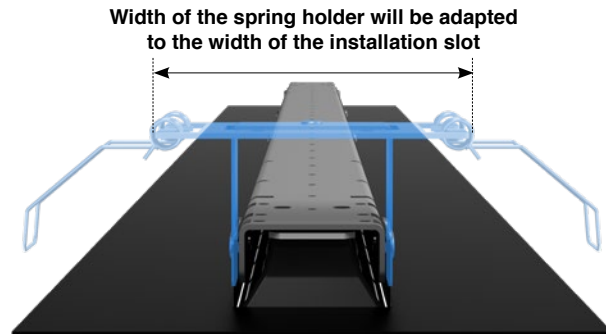
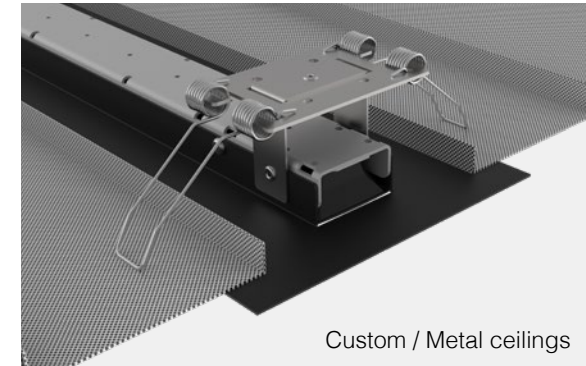
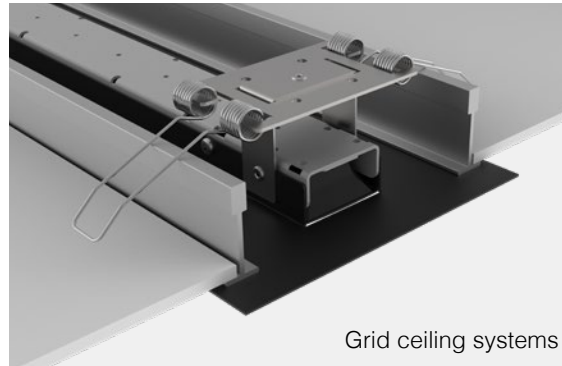
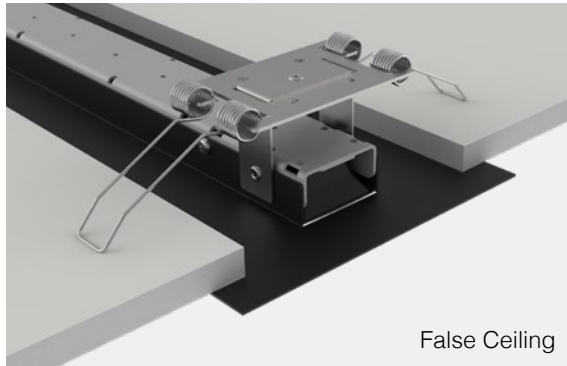
Nikko

Nikko Recessed Spring Fixation

The Nikko Recessed was designed to be easy to install in open space ceilings.

The installation is done with booby trap (torsion) springs which following the dimensions of the opening in the ceiling are used for fixing the nikko recessed. Alternatively, if the ceiling cannot handle the burden of the weight of the Nikko fixture, Nikko Recessed can be hung from the ceiling with suspension cables.

Nikko Recessed Open Space Ceiling is suitable for various ceiling types



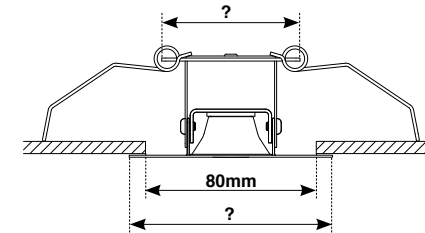
Overlap of frontplate with ceiling:
min. 10mm recommended (on each side)

Springholder	Spring Holder (A)	Width installation slot (B)
SH0813	68 mm	80-130mm
SH1318	118mm	130-180mm
SH1823	168mm	180-230mm
SH2328	218mm	230-280mm
SH2833	268mm	280-330mm
SH3338	318mm	330-380mm
SH3843	368mm	380-430mm

Example 1:

Springholder: 80mm wide installation slot = Range 80-130mm = Springholder SH0813

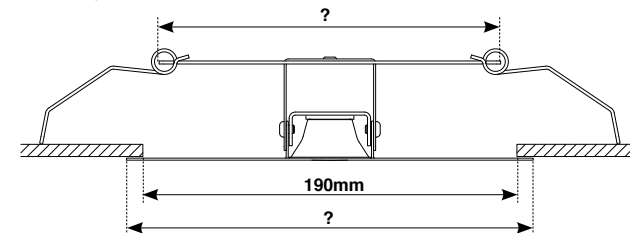
Front plate: 80mm+10mm+10mm = min. 100mm wide



Example 2:

Springholder: 190mm wide installation slot = Range 180-230mm = Springholder SH1823

Front plate width: 190mm+10mm+10mm = min. 210mm wide



Nikko

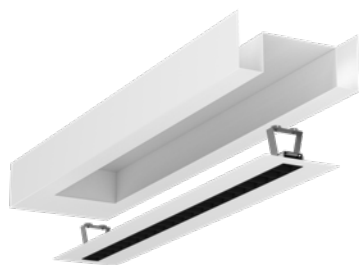
Replacement module for existing housings

Sometimes parts of the existing light installation can be re-used when a light module can be fitted and into the existing casing. Re-use of the existing casing represent significant saving: monetary and environmental. The challenge clearly is the fitting and fixing. Here, our Doxis engineers can make the difference!



Tip

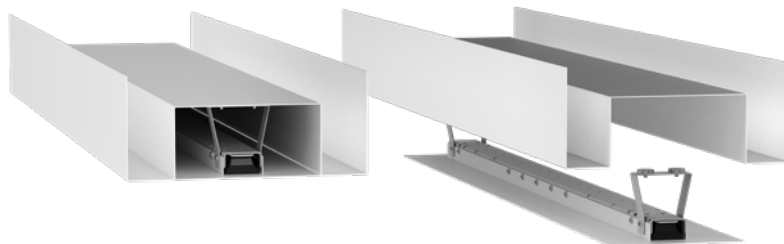
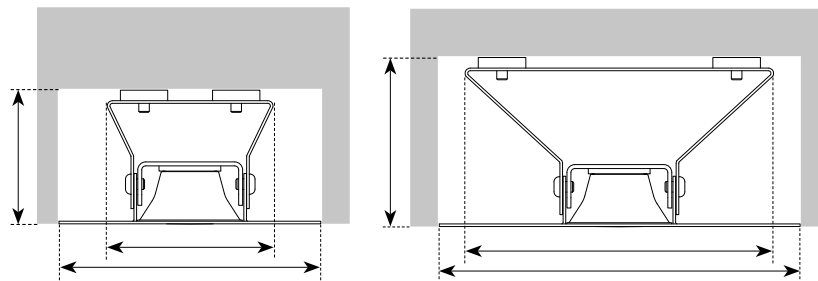
An average performance of 40-50 lumen/watt can be used as a reference for existing fluorescent luminaires in an installation (guidance, to be checked per luminaire).



1 Nikko magnetic solution for enclosed installation.

The magnetic clip-in module is designed by our Doxis engineers to fit for each enclosed space with a metal enclosure.

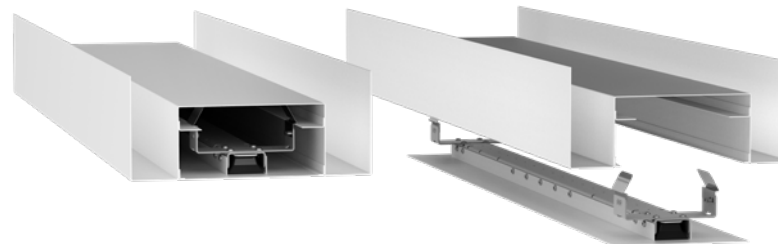
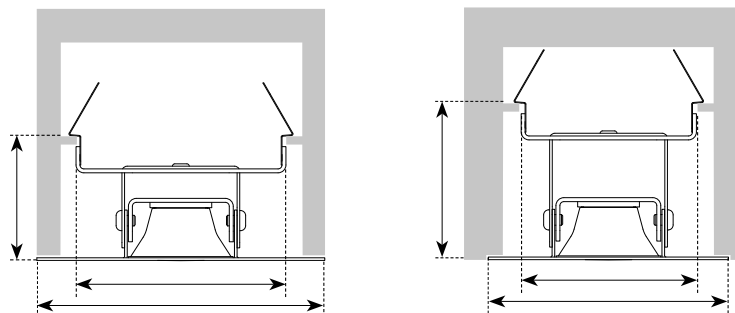
Width and height of the magnetic bracket will be adapted to the width and height of the installation slot.



2 Nikko clip-in spring solution for enclosed installation.

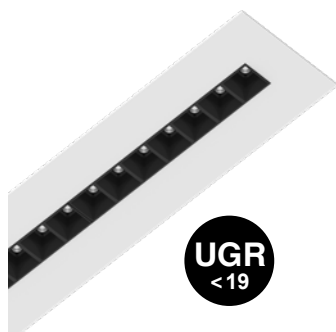
In case of space limitation torsion springs cannot be used. Clip-in springs can be used instead. Doxis engineers will design the proper solution.

Width and height of the clip-bracket will be adapted to the width and height of the installation slot.



Nikko Recessed

600 - 900



Pricing and packaging

Price valid for 50 pieces or more
A price supplement of 15% is charged when
ordering less than 50 pieces
Packing per 5 pieces in cardboard box

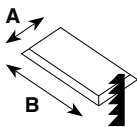
Shades



Black Matt/Glossy
Standard



White Matt/Glossy



Installation slot dimensions

Width (A)			Length (B)	
Nikko Width	Spring holder	Installation slot width	Nikko Length	Installation slot length
100mm	SH0813	80mm	Nikko 600	565-580mm
150mm	SH0813	80-130mm	Nikko 900	845-880mm
200mm	SH1318	130-180mm	Nikko 1200	1125-1180mm
250mm	SH1823	180-230mm	Nikko 1500	1405-1480mm
300mm	SH2328	230-280mm		
350mm	SH2833	280-330mm		
400mm	SH3338	330-380mm		



Nikko 600 Length 600mm - Nominal output

	Width	Article no.	
Non dim	100mm	5060. AA .24. SCC .10. XX	
	150mm	5060. AA .24. SCC .15. XX	
	200mm	5060. AA .24. SCC .20. XX	
	250mm	5060. AA .24. SCC .25. XX	
	300mm	5060. AA .24. SCC .30. XX	
	350mm	5060. AA .24. SCC .35. XX	
	400mm	5060. AA .24. SCC .40. XX	
DALI	100mm	5060. AA .26. SCC .10. XX	
	150mm	5060. AA .26. SCC .15. XX	
	200mm	5060. AA .26. SCC .20. XX	
	250mm	5060. AA .26. SCC .25. XX	
	300mm	5060. AA .26. SCC .30. XX	
	350mm	5060. AA .26. SCC .35. XX	
	400mm	5060. AA .26. SCC .40. XX	
Specs	3000K - CRI90:	2232lm - 15.1W - 148lm/W	LED
	4000K - CRI90:	2402lm - 15.1W - 159lm/W	
	3000K - CRI90:	2123lm - 17.4W - 122lm/W	System*
	4000K - CRI90:	2285lm - 17.4W - 131lm/W	



Nikko 900 Length 900mm - Nominal output

	Width	Article no.	
Non dim	100mm	5090. AA .24. SCC .10. XX	
	150mm	5090. AA .24. SCC .15. XX	
	200mm	5090. AA .24. SCC .20. XX	
	250mm	5090. AA .24. SCC .25. XX	
	300mm	5090. AA .24. SCC .30. XX	
	350mm	5090. AA .24. SCC .35. XX	
	400mm	5090. AA .24. SCC .40. XX	
DALI	100mm	5090. AA .26. SCC .10. XX	
	150mm	5090. AA .26. SCC .15. XX	
	200mm	5090. AA .26. SCC .20. XX	
	250mm	5090. AA .26. SCC .25. XX	
	300mm	5090. AA .26. SCC .30. XX	
	350mm	5090. AA .26. SCC .35. XX	
	400mm	5090. AA .26. SCC .40. XX	
Specs	3000K - CRI90:	3348lm - 22.7W - 148lm/W	LED
	4000K - CRI90:	3603lm - 22.7W - 159lm/W	
	3000K - CRI90:	3185lm - 26.1W - 122lm/W	System*
	4000K - CRI90:	3427lm - 26.1W - 131lm/W	

Nikko 600 Length 600mm - High output

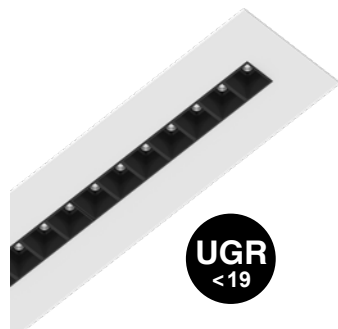
	Width	Article no.	
Non dim	100mm	6060. AA .24. SCC .10. XX	
	150mm	6060. AA .24. SCC .15. XX	
	200mm	6060. AA .24. SCC .20. XX	
	250mm	6060. AA .24. SCC .25. XX	
	300mm	6060. AA .24. SCC .30. XX	
	350mm	6060. AA .24. SCC .35. XX	
	400mm	6060. AA .24. SCC .40. XX	
DALI	100mm	6060. AA .26. SCC .10. XX	
	150mm	6060. AA .26. SCC .15. XX	
	200mm	6060. AA .26. SCC .20. XX	
	250mm	6060. AA .26. SCC .25. XX	
	300mm	6060. AA .26. SCC .30. XX	
	350mm	6060. AA .26. SCC .35. XX	
	400mm	6060. AA .26. SCC .40. XX	
Specs	3000K - CRI90:	3312lm - 23W - 144lm/W	LED
	4000K - CRI90:	3552lm - 23W - 154lm/W	
	3000K - CRI90:	3150lm - 26.5W - 119lm/W	System*
	4000K - CRI90:	3379lm - 26.5W - 128lm/W	

Nikko 900 Length 900mm - High output

	Width	Article no.	
Non dim	100mm	6090. AA .24. SCC .10. XX	
	150mm	6090. AA .24. SCC .15. XX	
	200mm	6090. AA .24. SCC .20. XX	
	250mm	6090. AA .24. SCC .25. XX	
	300mm	6090. AA .24. SCC .30. XX	
	350mm	6090. AA .24. SCC .35. XX	
	400mm	6090. AA .24. SCC .40. XX	
DALI	100mm	6090. AA .26. SCC .10. XX	
	150mm	6090. AA .26. SCC .15. XX	
	200mm	6090. AA .26. SCC .20. XX	
	250mm	6090. AA .26. SCC .25. XX	
	300mm	6090. AA .26. SCC .30. XX	
	350mm	6090. AA .26. SCC .35. XX	
	400mm	6090. AA .26. SCC .40. XX	
Specs	3000K - CRI90:	4968lm - 34.6W - 144lm/W	LED
	4000K - CRI90:	5328lm - 34.6W - 154lm/W	
	3000K - CRI90:	4726lm - 39.7W - 119lm/W	System*
	4000K - CRI90:	5068lm - 39.7W - 128lm/W	

Nikko Recessed

1200 - 1500



Optional conformal coating (moisture protection spray)

Conformal coating Nikko 600	2210.06.00
Conformal coating Nikko 900	2210.09.00
Conformal coating Nikko 1200	2210.12.00
Conformal coating Nikko 1500	2210.15.00

* LED light output represent values of LED module.
System light output includes light losses of luminaire with 80° clear optic and white glossy shade.
LED power values excludes driver.
System power values includes driver power consumption with a reference efficiency of 0.87.
** Remark: Black shades absorb more light than white shades.
*** Standards



Nikko 1200 Length 1200mm - Nominal output

	Width	Article no.	
Non dim	100mm	5120.AA.24.SCC.10.XX	
	150mm	5120.AA.24.SCC.15.XX	
	200mm	5120.AA.24.SCC.20.XX	
	250mm	5120.AA.24.SCC.25.XX	
	300mm	5120.AA.24.SCC.30.XX	
	350mm	5120.AA.24.SCC.35.XX	
DALI	100mm	5120.AA.24.SCC.40.XX	
	150mm	5120.AA.26.SCC.10.XX	
	150mm	5120.AA.26.SCC.15.XX	
	200mm	5120.AA.26.SCC.20.XX	
	250mm	5120.AA.26.SCC.25.XX	
	300mm	5120.AA.26.SCC.30.XX	
Specs	350mm	5120.AA.26.SCC.35.XX	
	400mm	5120.AA.26.SCC.40.XX	
	3000K - CRI90:	4464lm - 30.2W - 148lm/W	LED
	4000K - CRI90:	4804lm - 30.2W - 159lm/W	
	3000K - CRI90:	4246lm - 34.8W - 122lm/W	System*
	4000K - CRI90:	4570lm - 34.8W - 131lm/W	

Nikko 1200 Length 1200mm - High output

	Width	Article no.	
Non dim	100mm	6120.AA.24.SCC.10.XX	
	150mm	6120.AA.24.SCC.15.XX	
	200mm	6120.AA.24.SCC.20.XX	
	250mm	6120.AA.24.SCC.25.XX	
	300mm	6120.AA.24.SCC.30.XX	
	350mm	6120.AA.24.SCC.35.XX	
DALI	400mm	6120.AA.24.SCC.40.XX	
	100mm	6120.AA.26.SCC.10.XX	
	150mm	6120.AA.26.SCC.15.XX	
	200mm	6120.AA.26.SCC.20.XX	
	250mm	6120.AA.26.SCC.25.XX	
	300mm	6120.AA.26.SCC.30.XX	
Specs	350mm	6120.AA.26.SCC.35.XX	
	400mm	6120.AA.26.SCC.40.XX	
	3000K - CRI90:	6624lm - 46.1W - 144lm/W	LED
	4000K - CRI90:	7104lm - 46.1W - 154lm/W	
	3000K - CRI90:	6301lm - 53W - 119lm/W	System*
	4000K - CRI90:	6757lm - 53W - 128lm/W	



Nikko 1500 Length 1500mm - Nominal output

	Width	Article no.	
Non dim	100mm	5150.AA.24.SCC.10.XX	
	150mm	5150.AA.24.SCC.15.XX	
	200mm	5150.AA.24.SCC.20.XX	
	250mm	5150.AA.24.SCC.25.XX	
	300mm	5150.AA.24.SCC.30.XX	
	350mm	5150.AA.24.SCC.35.XX	
DALI	400mm	5150.AA.24.SCC.40.XX	
	100mm	5150.AA.26.SCC.10.XX	
	150mm	5150.AA.26.SCC.15.XX	
	200mm	5150.AA.26.SCC.20.XX	
	250mm	5150.AA.26.SCC.25.XX	
	300mm	5150.AA.26.SCC.30.XX	
Specs	350mm	5150.AA.26.SCC.35.XX	
	400mm	5150.AA.26.SCC.40.XX	
	3000K - CRI90:	5580lm - 37.8W - 148lm/W	LED
	4000K - CRI90:	6005lm - 37.8W - 159lm/W	
	3000K - CRI90:	5308lm - 43.4W - 122lm/W	System*
	4000K - CRI90:	5712lm - 43.4W - 131lm/W	

Nikko 1500 Length 1500mm - High output

	Width	Article no.	
Non dim	100mm	6150.AA.24.SCC.10.XX	
	150mm	6150.AA.24.SCC.15.XX	
	200mm	6150.AA.24.SCC.20.XX	
	250mm	6150.AA.24.SCC.25.XX	
	300mm	6150.AA.24.SCC.30.XX	
	350mm	6150.AA.24.SCC.35.XX	
DALI	400mm	6150.AA.24.SCC.40.XX	
	100mm	6150.AA.26.SCC.10.XX	
	150mm	6150.AA.26.SCC.15.XX	
	200mm	6150.AA.26.SCC.20.XX	
	250mm	6150.AA.26.SCC.25.XX	
	300mm	6150.AA.26.SCC.30.XX	
Specs	350mm	6150.AA.26.SCC.35.XX	
	400mm	6150.AA.26.SCC.40.XX	
	3000K - CRI90:	8280lm - 57.6W - 144lm/W	LED
	4000K - CRI90:	8790lm - 57.6W - 154lm/W	
	3000K - CRI90:	7876lm - 66.2W - 119lm/W	System*
	4000K - CRI90:	8447lm - 66.2W - 128lm/W	

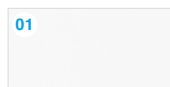
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WC: 80° Wide beam clear lens***
WD: 80° Wide beam diffused lens
MC: 50° Medium beam clear lens
MD: 50° Medium beam diffused lens
AD: Asymmetric beam

Shade color:
1: Shade White Glossy (optional)
2: Shade White Matt (optional)
3: Shade Black Glossy***
4: Shade Black Matt*** (optional)

30: 3000K CRI 90
40: 4000K CRI 90

Available colors (see below)
Other RAL colors on request



White matt texture
Standard



Grey matt texture
Standard



Anthracite matt texture
Standard



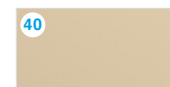
Black matt texture
Standard



Bronze matt
Standard



Gold matt



Champagne



Custom RAL color
On request

Nikko Compact

Pricing and packaging

Price valid for 50 pieces or more
A price supplement of 15% is charged when
ordering less than 50 pieces
Packing per 5 pieces in cardboard box

Shades



Black Matt
Standard



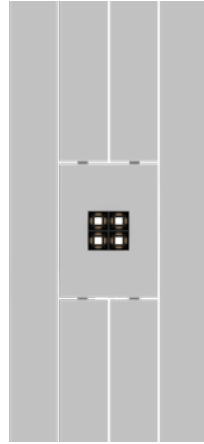
White Matt
Optional



Black Glossy
Standard

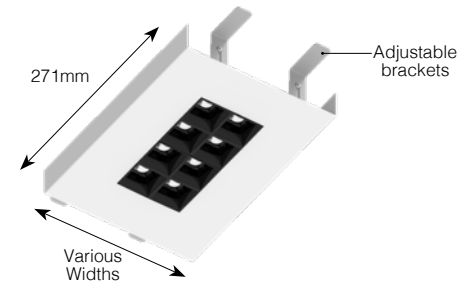
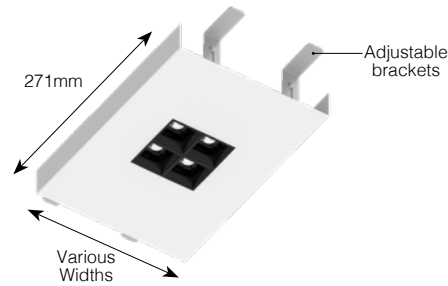


White Glossy
Optional



Custom dimensions on request





Nikko Compact 2x2

Nominal output

	Width	Article no.
Non dim	90mm	5027.AA.24.SCC.09.XX
	100mm	5027.AA.24.SCC.10.XX
	110mm	5027.AA.24.SCC.11.XX
	120mm	5027.AA.24.SCC.12.XX
	130mm	5027.AA.24.SCC.13.XX
DALI	90mm	5027.AA.26.SCC.09.XX
	100mm	5027.AA.26.SCC.10.XX
	110mm	5027.AA.26.SCC.11.XX
	120mm	5027.AA.26.SCC.12.XX
	130mm	5027.AA.26.SCC.13.XX
Specs	3000K - CRI90:	865lm - 5.5W - 156lm/W
	4000K - CRI90:	894lm - 5.5W - 161lm/W
	3000K - CRI90:	782lm - 6.3W - 124lm/W
	4000K - CRI90:	808lm - 6.3W - 128lm/W

LED

System*

Nikko Compact 4x2

Nominal output

	Width	Article no.
Non dim	90mm	7027.AA.24.SCC.09.XX
	100mm	7027.AA.24.SCC.10.XX
	110mm	7027.AA.24.SCC.11.XX
	120mm	7027.AA.24.SCC.12.XX
	130mm	7027.AA.24.SCC.13.XX
DALI	90mm	7027.AA.26.SCC.09.XX
	100mm	7027.AA.26.SCC.10.XX
	110mm	7027.AA.26.SCC.11.XX
	120mm	7027.AA.26.SCC.12.XX
	130mm	7027.AA.26.SCC.13.XX
Specs	3000K - CRI90:	1730lm - 11W - 156lm/W
	4000K - CRI90:	1788lm - 11W - 161lm/W
	3000K - CRI90:	1564lm - 12.6W - 124lm/W
	4000K - CRI90:	1615lm - 12.6W - 128lm/W

LED

System*

Nikko Compact 2x2

High output

	Width	Article no.
Non dim	90mm	6027.AA.24.SCC.09.XX
	100mm	6027.AA.24.SCC.10.XX
	110mm	6027.AA.24.SCC.11.XX
	120mm	6027.AA.24.SCC.12.XX
	130mm	6027.AA.24.SCC.13.XX
DALI	90mm	6027.AA.26.SCC.09.XX
	100mm	6027.AA.26.SCC.10.XX
	110mm	6027.AA.26.SCC.11.XX
	120mm	6027.AA.26.SCC.12.XX
	130mm	6027.AA.26.SCC.13.XX
Specs	3000K - CRI90:	1185lm - 7.8W - 150lm/W
	4000K - CRI90:	1224lm - 7.8W - 154lm/W
	3000K - CRI90:	1071lm - 9W - 119lm/W
	4000K - CRI90:	1106lm - 9W - 123lm/W

LED

System*

Nikko Compact 4x2

High output

	Width	Article no.
Non dim	90mm	8027.AA.24.SCC.09.XX
	100mm	8027.AA.24.SCC.10.XX
	110mm	8027.AA.24.SCC.11.XX
	120mm	8027.AA.24.SCC.12.XX
	130mm	8027.AA.24.SCC.13.XX
DALI	90mm	8027.AA.26.SCC.09.XX
	100mm	8027.AA.26.SCC.10.XX
	110mm	8027.AA.26.SCC.11.XX
	120mm	8027.AA.26.SCC.12.XX
	130mm	8027.AA.26.SCC.13.XX
Specs	3000K - CRI90:	2370lm - 15.6W - 150lm/W
	4000K - CRI90:	2448lm - 15.6W - 154lm/W
	3000K - CRI90:	2142lm - 18W - 119lm/W
	4000K - CRI90:	2212lm - 18W - 123lm/W

LED

System*

* LED light output represent values of LED module.
System light output includes light losses of luminaire with 80° clear optic and white glossy shade.
LED power values excludes driver.
System power values includes driver power consumption with a reference efficiency of 0.87.

** Remark: Black shades absorb more light than white shades.

*** Standards

0000.AA.00.SCC.00.XX

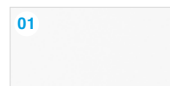
WC: 80° Wide beam clear lens***
WD: 80° Wide beam diffused lens

Shade color:

- 1: Shade White Glossy (optional)
- 2: Shade White Matt (optional)
- 3: Shade Black Glossy**/***
- 4: Shade Black Matt (optional)

30: 3000K CRI 90
40: 4000K CRI 90

Available colors (see below)
Other RAL colors on request



White matt texture
Standard



Grey matt texture
Standard



Anthracite matt texture
Standard



Black matt texture
Standard



Bronze matt
Standard



Gold matt



Champagne



Custom RAL color
On request

Nikko Compact

Recessed

Pricing and packaging
 Price valid for 50 pieces or more
 A price supplement of 15% is charged when
 ordering less then 50 pieces
 Packing per 5 pieces in cardboard box

Shades



Custom dimensions on request

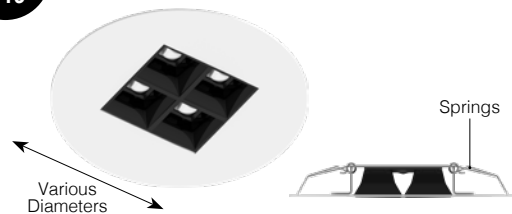
Nikko Compact round hole cut-out

	Nikko diameter	Cut-out diameter
	170mm	140-160mm
	190mm	160-180mm
	210mm	180-200mm
	260mm	230-250mm

Nikko Compact square hole cut-out

	Nikko size	Cut-out width	Cut-out length
	170x170mm	140-160mm	140-160mm
	190x190mm	160-180mm	160-180mm
	210x210mm	180-200mm	180-200mm
	260x260mm	200-230mm	200-230mm

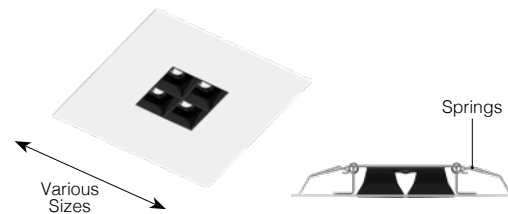




Nikko Compact Recessed Round

Nominal output

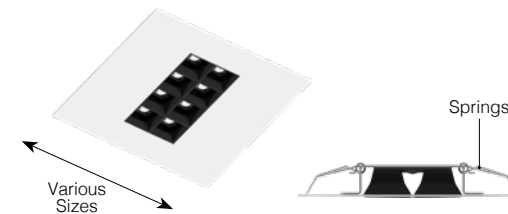
	Diameter	Article no.	
Non dim	170mm	5200.AA.24.SCC.17.XX	
	190mm	5200.AA.24.SCC.19.XX	
	210mm	5200.AA.24.SCC.21.XX	
	260mm	5200.AA.24.SCC.26.XX	
DALI	170mm	5200.AA.26.SCC.17.XX	
	190mm	5200.AA.26.SCC.19.XX	
	210mm	5200.AA.26.SCC.21.XX	
	260mm	5200.AA.26.SCC.26.XX	
Specs	3000K - CRI90:	865lm - 5.5W - 156lm/W	LED
	4000K - CRI90:	894lm - 5.5W - 161lm/W	
	3000K - CRI90:	782lm - 6.3W - 124lm/W	System*
	4000K - CRI90:	808lm - 6.3W - 128lm/W	



Nikko Compact Recessed Square 2x2

Nominal output

	Size	Article no.	
Non dim	170x170mm	5201.AA.24.SCC.17.XX	
	190x190mm	5201.AA.24.SCC.19.XX	
	210x210mm	5201.AA.24.SCC.21.XX	
	260x260mm	5201.AA.24.SCC.26.XX	
DALI	170x170mm	5201.AA.26.SCC.17.XX	
	190x190mm	5201.AA.26.SCC.19.XX	
	210x210mm	5201.AA.26.SCC.21.XX	
	260x260mm	5201.AA.26.SCC.26.XX	
Specs	3000K - CRI90:	865lm - 5.5W - 156lm/W	LED
	4000K - CRI90:	894lm - 5.5W - 161lm/W	
	3000K - CRI90:	782lm - 6.3W - 124lm/W	System*
	4000K - CRI90:	808lm - 6.3W - 128lm/W	



Nikko Compact Recessed Square 4x2

Nominal output

	Size	Article no.	
Non dim	170x170mm	5202.AA.24.SCC.17.XX	
	190x190mm	5202.AA.24.SCC.19.XX	
	210x210mm	5202.AA.24.SCC.21.XX	
	260x260mm	5202.AA.24.SCC.26.XX	
DALI	170x170mm	5202.AA.26.SCC.17.XX	
	190x190mm	5202.AA.26.SCC.19.XX	
	210x210mm	5202.AA.26.SCC.21.XX	
	260x260mm	5202.AA.26.SCC.26.XX	
Specs	3000K - CRI90:	1730lm - 11W - 156lm/W	LED
	4000K - CRI90:	1788lm - 11W - 161lm/W	
	3000K - CRI90:	1564lm - 12.6W - 124lm/W	System*
	4000K - CRI90:	1615lm - 12.6W - 128lm/W	

Nikko Compact Recessed Round

High output

	Diameter	Article no.	
Non dim	170mm	6200.AA.24.SCC.17.XX	
	190mm	6200.AA.24.SCC.19.XX	
	210mm	6200.AA.24.SCC.21.XX	
	260mm	6200.AA.24.SCC.26.XX	
DALI	170mm	6200.AA.26.SCC.17.XX	
	190mm	6200.AA.26.SCC.19.XX	
	210mm	6200.AA.26.SCC.21.XX	
	260mm	6200.AA.26.SCC.26.XX	
Specs	3000K - CRI90:	1185lm - 7.8W - 150lm/W	LED
	4000K - CRI90:	1224lm - 7.8W - 154lm/W	
	3000K - CRI90:	1071lm - 9W - 119lm/W	System*
	4000K - CRI90:	1106lm - 9W - 123lm/W	

Nikko Compact Recessed Square 2x2

High output

	Size	Article no.	
Non dim	170x170mm	6201.AA.24.SCC.17.XX	
	190x190mm	6201.AA.24.SCC.19.XX	
	210x210mm	6201.AA.24.SCC.21.XX	
	260x260mm	6201.AA.24.SCC.26.XX	
DALI	170x170mm	6201.AA.26.SCC.17.XX	
	190x190mm	6201.AA.26.SCC.19.XX	
	210x210mm	6201.AA.26.SCC.21.XX	
	260x260mm	6201.AA.26.SCC.26.XX	
Specs	3000K - CRI90:	1185lm - 7.8W - 150lm/W	LED
	4000K - CRI90:	1224lm - 7.8W - 154lm/W	
	3000K - CRI90:	1071lm - 9W - 119lm/W	System*
	4000K - CRI90:	1106lm - 9W - 123lm/W	

Nikko Compact Recessed Square 4x2

High output

	Size	Article no.	
Non dim	170x170mm	6202.AA.24.SCC.17.XX	
	190x190mm	6202.AA.24.SCC.19.XX	
	210x210mm	6202.AA.24.SCC.21.XX	
	260x260mm	6202.AA.24.SCC.26.XX	
DALI	170x170mm	6202.AA.26.SCC.17.XX	
	190x190mm	6202.AA.26.SCC.19.XX	
	210x210mm	6202.AA.26.SCC.21.XX	
	260x260mm	6202.AA.26.SCC.26.XX	
Specs	3000K - CRI90:	2370lm - 15.6W - 150lm/W	LED
	4000K - CRI90:	2448lm - 15.6W - 154lm/W	
	3000K - CRI90:	2142lm - 18W - 119lm/W	System*
	4000K - CRI90:	2212lm - 18W - 123lm/W	

* LED light output represent values of LED module.
System light output includes light losses of luminaire with 80° clear optic and white glossy shade.
LED power values excludes driver.

System power values includes driver power consumption with a reference efficiency of 0.87.

** Remark: Black shades absorb more light than white shades.

*** Standards

0000.AA.00.SCC.00.XX

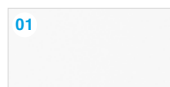
WC: 80° Wide beam clear lens***
WD: 80° Wide beam diffused lens

Shade color:

- 1: Shade White Glossy (optional)
- 2: Shade White Matt (optional)
- 3: Shade Black Glossy**/****
- 4: Shade Black Matt** (optional)

30: 3000K CRI 90
40: 4000K CRI 90

Available colors (see below)
Other RAL colors on request



White matt texture
Standard



Grey matt texture
Standard



Anthracite matt texture
Standard



Black matt texture
Standard



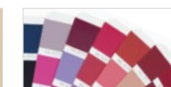
Bronze matt
Standard



Gold matt



Champagne

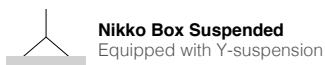
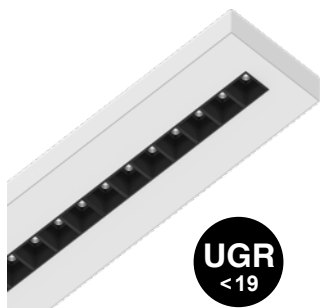


Custom RAL color
On request



Nikko Box

Surface Mounted
Suspended



Pricing and packaging

Price valid for 50 pieces or more
A price supplement of 15% is charged when
ordering less than 50 pieces
Packing per 5 pieces in cardboard box

Suspension set (included in suspended version):

- Ceiling box 67x67x40mm (matching luminaire color)
- Integrated strain relief
- Steel suspension wires
- 230V Textile supply cable max. 2000mm:
 - White cable: White luminaire
 - Black cable: All other luminaire colors

Optional suspension set 4000mm

Suspension + White cable 3x0.75mm ²	102.23.01-4
Suspension + White cable 5x0.75mm ²	102.25.01-4
Suspension + Black cable 3x0.75mm ²	102.23.03-4
Suspension + Black cable 5x0.75mm ²	102.25.03-4



Shades



Black Matt/Glossy
Standard



White Matt/Glossy

Nikko 600 Box 600x150x28mm

Surface Mounted

Non dim	17.4W Nominal output	3060. AA .24. SCC .15. XX
Non dim	26.5W High output	4060. AA .24. SCC .15. XX
DALI dim	17.4W Nominal output	3060. AA .26. SCC .15. XX
DALI dim	26.5W High output	4060. AA .26. SCC .15. XX

Suspended

Non dim	17.4W Nominal output	3061. AA .24. SCC .15. XX
Non dim	26.5W High output	4061. AA .24. SCC .15. XX
DALI dim	17.4W Nominal output	3061. AA .26. SCC .15. XX
DALI dim	26.5W High output	4061. AA .26. SCC .15. XX

Nominal Output

3000K - CRI90	2232lm - 15.1W - 148lm/W
4000K - CRI90	2402lm - 15.1W - 159lm/W
3000K - CRI90	2123lm - 17.4W - 122lm/W
4000K - CRI90	2285lm - 17.4W - 131lm/W

High Output

3312lm - 23W - 144lm/W	3552lm - 23W - 154lm/W
3150lm - 26.5W - 119lm/W	3379lm - 26.5W - 128lm/W

LED

System*

Nikko 900 Box 900x150x28mm

Surface Mounted

Non dim	26.1W Nominal output	3090. AA .24. SCC .15. XX
Non dim	39.7W High output	4090. AA .24. SCC .15. XX
DALI dim	26.1W Nominal output	3090. AA .26. SCC .15. XX
DALI dim	39.7W High output	4090. AA .26. SCC .15. XX

Suspended

Non dim	26.1W Nominal output	3091. AA .24. SCC .15. XX
Non dim	39.7W High output	4091. AA .24. SCC .15. XX
DALI dim	26.1W Nominal output	3091. AA .26. SCC .15. XX
DALI dim	39.7W High output	4091. AA .26. SCC .15. XX

Nominal Output

3000K - CRI90	3348lm - 22.7W - 148lm/W
4000K - CRI90	3603lm - 22.7W - 159lm/W
3000K - CRI90	3185lm - 26.1W - 122lm/W
4000K - CRI90	3427lm - 26.1W - 131lm/W

High Output

4968lm - 34.6W - 148lm/W	5328lm - 34.6W - 159lm/W
4726lm - 39.7W - 119lm/W	5068lm - 39.7W - 128lm/W

LED

System*

Nikko 1200 Box 1200x150x28mm

Surface Mounted

Non dim	34.8W Nominal output	3120. AA .24. SCC .15. XX
Non dim	53W High output	4120. AA .24. SCC .15. XX
DALI dim	34.8W Nominal output	3120. AA .26. SCC .15. XX
DALI dim	53W High output	4120. AA .26. SCC .15. XX

Suspended

Non dim	34.8W Nominal output	3121. AA .24. SCC .15. XX
Non dim	53W High output	4121. AA .24. SCC .15. XX
DALI dim	34.8W Nominal output	3121. AA .26. SCC .15. XX
DALI dim	53W High output	4121. AA .26. SCC .15. XX

Nominal Output

3000K - CRI90	4464lm - 30.2W - 148lm/W
4000K - CRI90	4804lm - 30.2W - 159lm/W
3000K - CRI90	4246lm - 34.8W - 122lm/W
4000K - CRI90	4570lm - 34.8W - 131lm/W

High Output

6624lm - 46.1W - 144lm/W	7104lm - 46.1W - 154lm/W
6301lm - 53W - 119lm/W	6757lm - 53W - 128lm/W

LED

System*

0000. **AA**.00. **SCC**.00. **XX**

WC: 80° Wide beam clear lens***
WD: 80° Wide beam diffused lens
MC: 50° Medium beam clear lens
MD: 50° Medium beam diffused lens
AD: Asymmetric beam

Shade color:

- 1: Shade White Glossy (optional)
- 2: Shade White Matt (optional)
- 3: Shade Black Glossy*** / ***
- 4: Shade Black Matt** (optional)

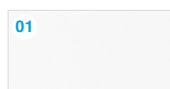
30: 3000K CRI 90
40: 4000K CRI 90

Available colors (see below)
Other RAL colors on request

* LED light output represent values of LED module.
System light output includes light losses of luminaire
with 80° clear optic and white glossy shade.
LED power values excludes driver.
System power values includes driver power
consumption with a reference efficiency of 0.87.

** Remark: Black shades absorb more light
than white shades.

*** Standards



White matt texture
Standard



Grey matt texture
Standard



Anthracite matt texture
Standard



Black matt texture
Standard



Bronze matt
Standard



Gold matt



Champagne



Custom RAL color
On request

Nikko

Case study 1

Designing a solution for hassle-free replacement of a luminaire with integrated HVAC services.

Situation:

Existing ceiling with existing light fittings. The Fixture is a combination of light and ventilation.

The fixture is fixed in the ceiling, the removal thereof would also create damages to the existing ceiling.

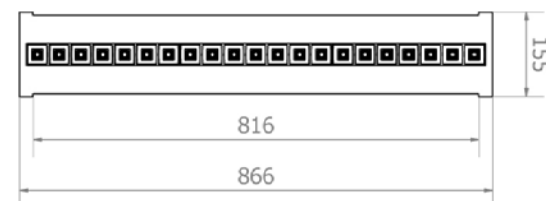
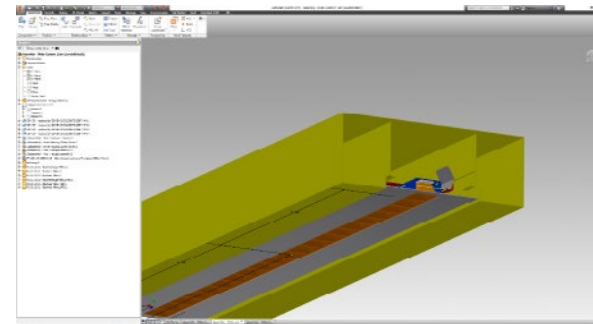
Requirements:

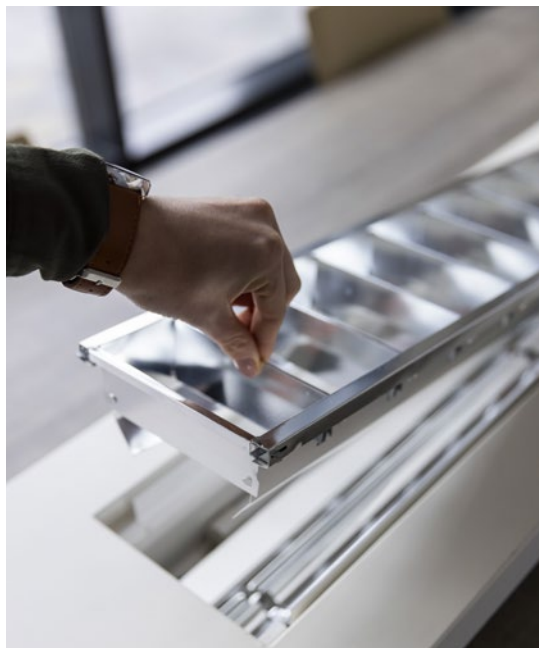
- Keep existing apparatus: Luminaire with integrated ventilation
- UGR 19
- Minimum or equal amount of light
- Reduce electricity consumption (67% target)
- Increase color recognition in the office
- Blend in with color of existing enclosure

Solution:

The existing case is kept, and a light module Nikko is inserted and fixed using a clip-in system (custom design). The front plate is tailored to keep the ventilation function whilst having an optimal light solution: increase of CRI in the space, reduction of power consumed, small increase in the amount of lux on working surfaces and bringing anti glare.

Installation: existing electric cabling is kept, ventilation is not touched. Clip-in system = smooth and efficient installation.





Step 1: Study of the situation



Step 2: Measurement of the existing casing to design optimal fixing system



Step 3: Selection of shade and light module



Step 4: Precise measurements and fitting result in high quality product
Matching of color of existing casing and nikko front plate



Step 5: Replacement and increase in performance of the light system with optimized Nikko system

Nikko

Case study 2



Step 4: Upgrade and replacement of the light system

Designing a solution for a practical replacement of an integrated luminaire

Situation:

Existing ceiling with existing light fittings. The current fixture is integrated in a ceiling element is preferably not replaced due to cost.

Solution:

With the removal of just four easy to remove parts (louvre with clips, T5 tube, reflector, emergency module) space is created for a custom Nikko module.

This Nikko module is kept in place by a magnetic system and is secured by a safety aircraft cable.

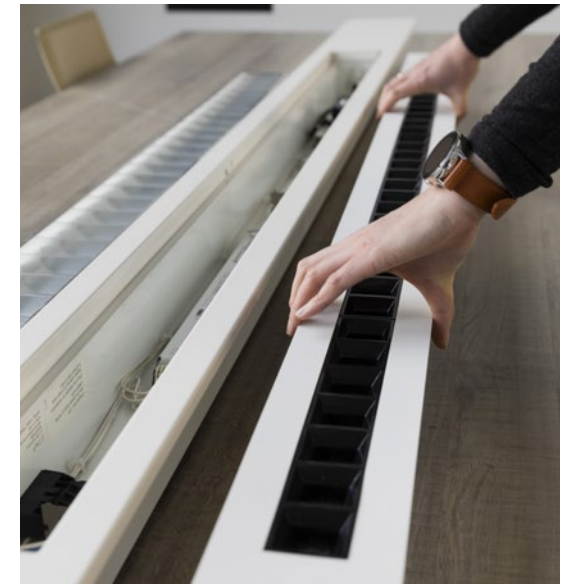
The wiring is de-connected from the current light module and these wires are then connected to the Nikko module. The existing cabling in the ceiling is not touched! Strong attention is given to a fast replacement procedure (labour costs) as the office is in use (minimal disturbance).



Step 1: Study of the system



Step 2: Selection of the materials and components



Step 3: Precise measurements and fitting result in high quality product
Matching of color of existing casing and nikko front plate

Nikko

Case study 3

Designing a solution for replacement of fixtures in a grid ceiling.

Situation:

Ceiling grid system with T-shaped beams.

The existing fixtures can be lifted from the ceiling but leave marks on the sides...

Requirements:

- No budget for replacement of all ceiling tiles
- Keep existing cabling (cost)
- Increase the light level with 200 Lux
- UGR 19
- Minimal installation time: existing office in operation

Solution:

Nikko designed according to required light levels are achieved whilst keeping glare to acceptable level (<19). Nikko module with tailored frontplate (Nikko frontplate size with overlap of the stain marks) was installed with springs leaning on the existing T shaped beams.



Nikko

LED Module Specifications

Low Voltage (SELV) LED Module

	Current	CCT	CRI	SDCM*	Flux**	Efficacy**	Power**	Risk Group
Nominal Output	200mA	3000K	>90	3	1117 lm	154 lm/W	7.25W	RG1
Nominal Output	200mA	4000K	>90	3	1201 lm	165 lm/W	7.25W	RG1
High Output	300mA	3000K	>90	3	1656 lm	148 lm/W	11.2W	RG1
High Output	300mA	4000K	>90	3	1776 lm	155 lm/W	11.2W	RG1

* MacAdam initial

** Values at $t_p=25^{\circ}\text{C}$

Lumen maintenance at 200mA (Nominal Output)*

Tc	L80B10	L80B50	L70B10	L70B50
45°C	>75 000 hrs	>75 000 hrs	>75 000 hrs	>75 000 hrs

*Lifetime, lumen maintenance and failure rate

The light output of an LED module decreases over the lifetime, this is characterized with the L value.

L70 means that the LED module will give 70% of its initial luminous flux.

This value is always related to the number of operation hours and therefore defines the lifetime of an LED module.

As the L value is a statistical value and the lumen maintenance may vary over the delivered LED modules.

The B value defines the amount of modules which are below the specific L value, e.g. L70B10 means 10% of the LED modules are below 70% of the initial luminous flux, respectively 90% will be above 70% of the initial value.



Nikko Recessed Checklist

Current Light System

Fluorescent Tube Type:.....

Number:.....

Wattage: W

Luminous flux: lm

Inside dimension of installation space

Width: mm

Length: mm

Build-in depth: mm

Desired Light Color Temperature

☐ 3000K

☐ 4000K

Frontplate color (number):

Shade color (number):

Lens type (2 letter code):

Desired Luminous Flux (light level):

☐ More than current lum. flux: %

☐ Equal to current lum. flux

☐ Desired lum. flux: lm

Desired Dimming system

☐ Non dimmable

☐ DALI dimmable

Outer dimensions (Frontplate):

Length: mm

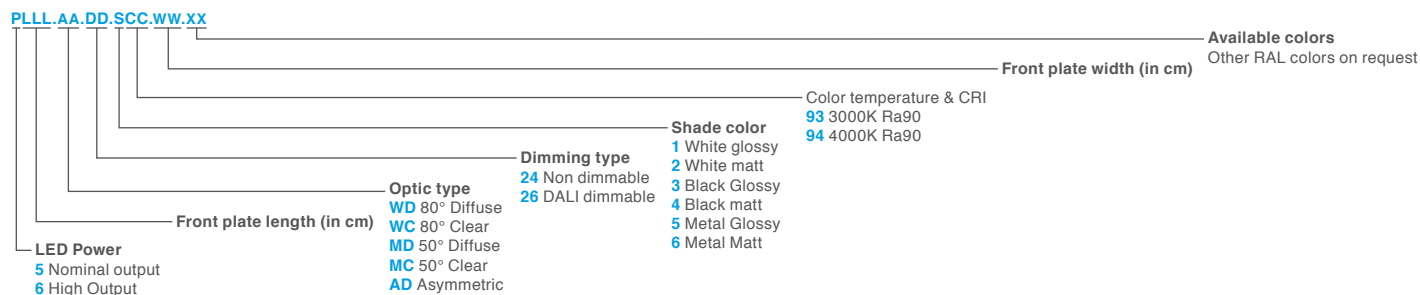
Width: mm

Options:

☐ Emergency light

☐ Non standard lens

☐ Non standard shade



Seamless liner

Solution for durable relighting while perserving the exisiting body



Durability

Long Lifetime
5 Years Warranty
Made in Belgium



Performance

High efficacy up to 174lm/w
Nominal & High output series



Flexibility & Control

Non dimmable, DALI dimmable, 1-10V, Casambi
Flexible sizing and custom dimensions



Optimal Lighting

Available in 3000K or 4000K
High color rendering index (CRI>90)



Wide application area

Compact light engine
Driver built-in
Optional emergency lighting



Installation ease

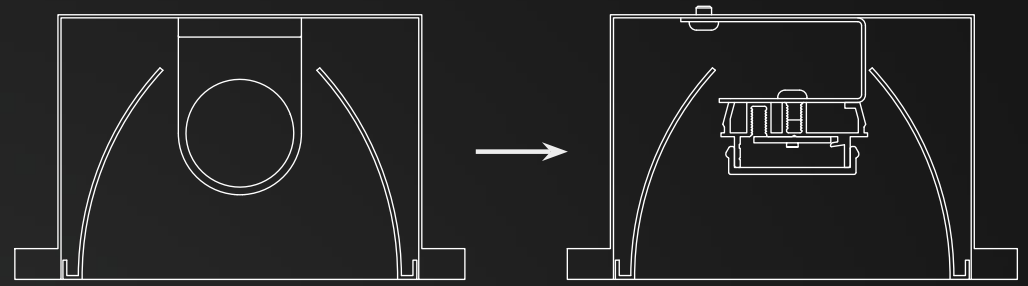
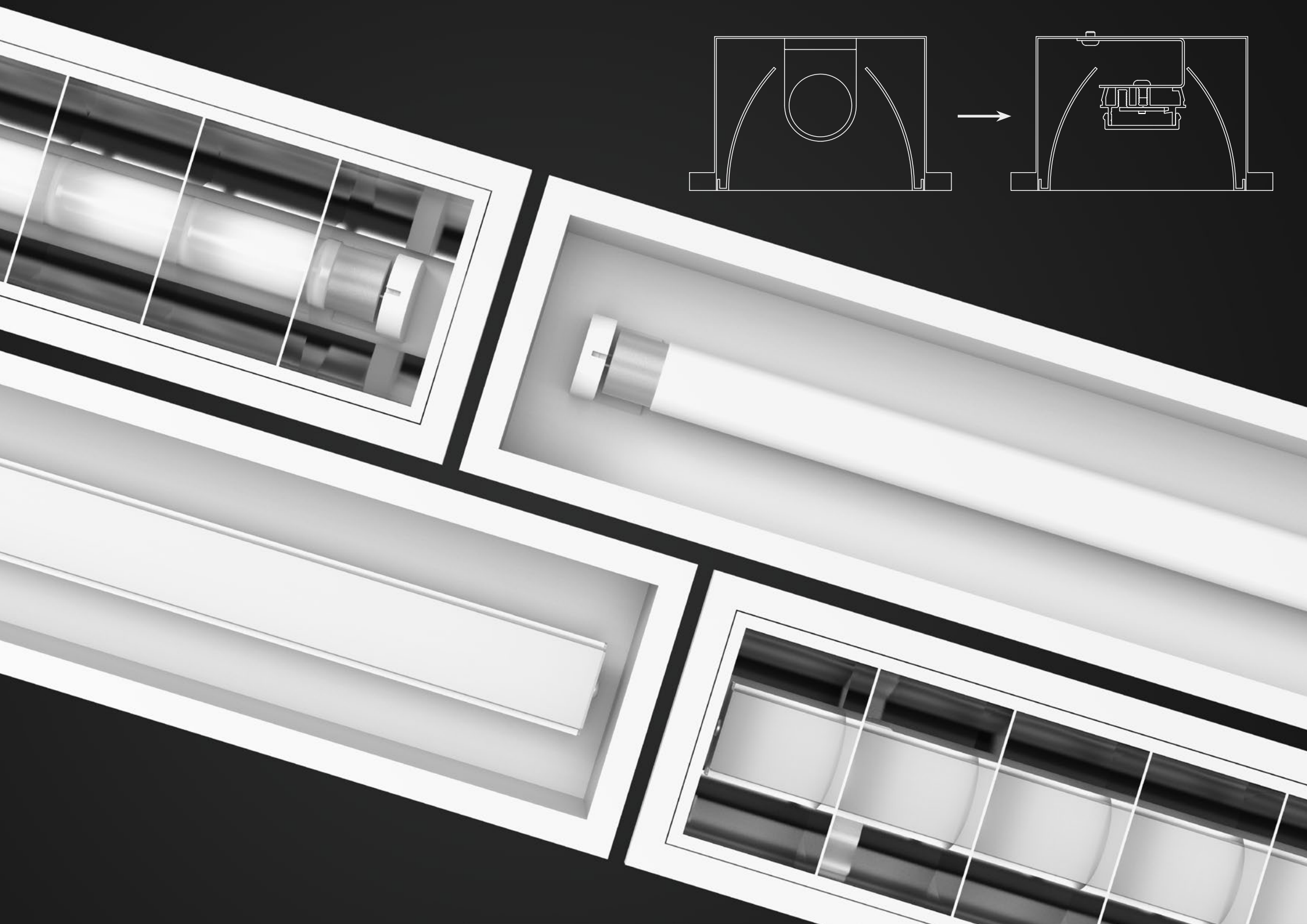
Easy to install.
No wiring has to be changed in the ceiling



Circular

Reutilisation of existing equipment

made in
Belgium

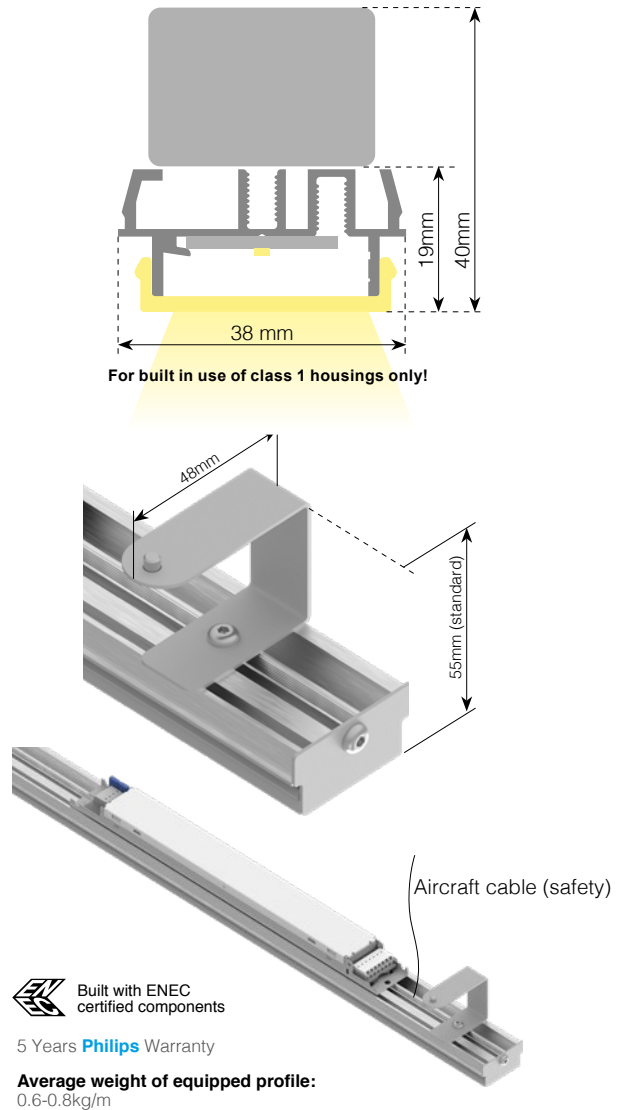


Seamless liner

Seamlessliner is a versatile solution based on an aluminium extruded profile.

This compact product is an ideal replacement for conventional fluorescent tubes.

A wide range of mounting options guarantee a fast and hassle-free replacement of the existing light sources.



Seamlessliner

Ready to go modules



U-Bracket

Article number	Total length	LED Flux* 927	LED Flux* 930	LED Flux* 940	Power LED**	Power System**
SLB50. DM.CCC.xx -04	600 mm	2006lm	2054lm	2200lm	12.6W	14.5W
SLB50. DM.CCC.xx -06	879 mm	3009lm	3081lm	3300lm	18.9W	21.7W
SLB50. DM.CCC.xx -08	1159 mm	4012lm	4108lm	4400lm	25.2W	29W
SLB50. DM.CCC.xx -10	1441 mm	5015lm	5135lm	5500lm	31.5W	36.2W
SLB50. DM.CCC.xx -12	1721 mm	6018lm	6162lm	6600lm	37.8W	43.4W
SLB50. DM.CCC.xx -14	2002 mm	7021lm	7189lm	7700lm	44.1W	50.7W
SLB50. DM.CCC.xx -16	2282 mm	8024lm	8216lm	8800lm	50.4W	57.9W
SLB50. DM.CCC.xx -18	2564 mm	9027lm	9243lm	9900lm	56.7W	65.2W
SLB50. DM.CCC.xx -20	2844 mm	10030lm	10270lm	11000lm	63W	72.4W
SLB50. DM.CCC.xx -22	3125 mm	11033lm	11297lm	12100lm	69.3W	79.7W
SLB50. DM.CCC.xx -24	3405 mm	12036lm	12324lm	13200lm	75.6W	86.9W

Pricing and packaging

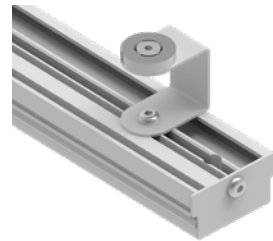
Price valid for 50 pieces or more
A price supplement of 15% is charged when
ordering less than 50 pieces
Packing per 5 pieces in cardboard box

Efficacy	
2700K Ra90	158lm/W
3000K Ra90	163lm/W
4000K Ra90	174lm/W



Tip

An average performance of 40-50 lumen/watt can be used as a reference for existing fluorescent luminaires in an installation (guidance, to be checked per luminaire).



Magnetic bracket

Article number	Total length	LED Flux* 927	LED Flux* 930	LED Flux* 940	Power LED**	Power System**
SLM55. DM.CCC.xx -04	600 mm	2006lm	2054lm	2200lm	12.6W	14.5W
SLM55. DM.CCC.xx -06	879 mm	3009lm	3081lm	3300lm	18.9W	21.7W
SLM55. DM.CCC.xx -08	1159 mm	4012lm	4108lm	4400lm	25.2W	29W
SLM55. DM.CCC.xx -10	1441 mm	5015lm	5135lm	5500lm	31.5W	36.2W
SLM55. DM.CCC.xx -12	1721 mm	6018lm	6162lm	6600lm	37.8W	43.4W
SLM55. DM.CCC.xx -14	2002 mm	7021lm	7189lm	7700lm	44.1W	50.7W
SLM55. DM.CCC.xx -16	2282 mm	8024lm	8216lm	8800lm	50.4W	57.9W
SLM55. DM.CCC.xx -18	2564 mm	9027lm	9243lm	9900lm	56.7W	65.2W
SLM55. DM.CCC.xx -20	2844 mm	10030lm	10270lm	11000lm	63W	72.4W
SLM55. DM.CCC.xx -22	3125 mm	11033lm	11297lm	12100lm	69.3W	79.7W
SLM55. DM.CCC.xx -24	3405 mm	12036lm	12324lm	13200lm	75.6W	86.9W

Article number structure: **SLMMM.DM.CCC.xx-00**

24: Non dimmable
25: 1-10V dimmable
26: Touch & DALI dim

SLB50: U-bracket 50mm
SLM55: Magnetic bracket 55mm
See next page for other options

927: Ra90 - 2700K (available in limited lengths)

930: Ra90 - 3000K

940: Ra90 - 4000K

TW: Tunable white 2700K-6500K (available in limited lengths)

10: Aluminium anodised finish

Powdercoated finish on request (various colors available)

* Luminous flux and efficacy mentioned is the flux and efficacy of the LED modules. SDCM MacAdam is initial value. All values at tc=45°C.

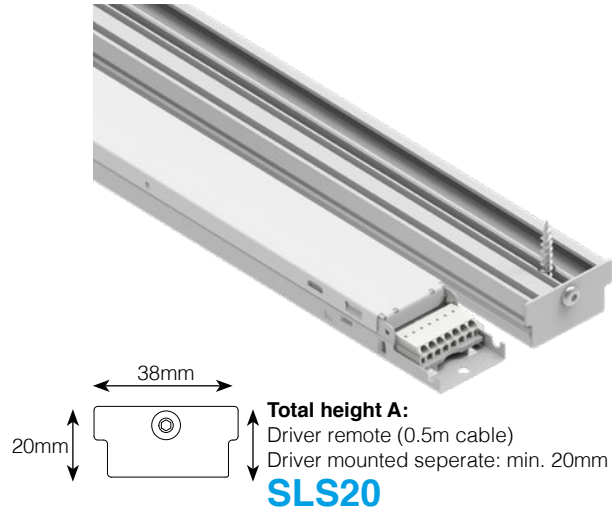
** Power LED mentioned is for LED module excl. driver; Power System mentioned is for LED module incl. driver with a reference driver efficiency of 87%. All values at tc=45°C.

*** Not available. Our supplier, Philips, does not provide 140mm LED modules in 2700K nor Tunable White.

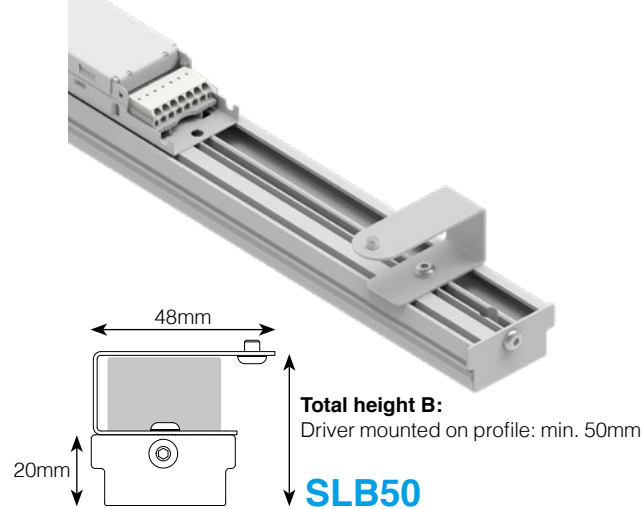
Seamless Liner

Mounting

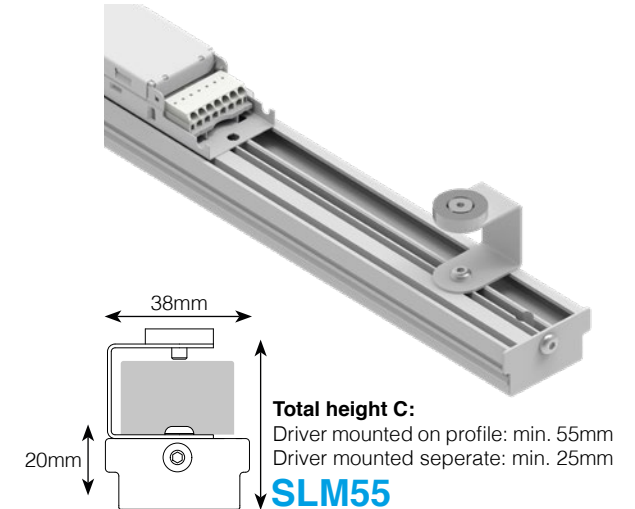
A Screw mounting - direct SLS20.00.000.00-00



B Screw mounting - With U-bracket SLB50.00.000.00-00 (Standard supplied)

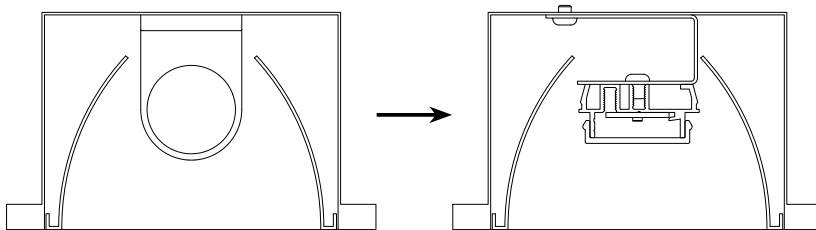


C Magnetic mounting - With U-bracket* SLM55.00.000.00-00

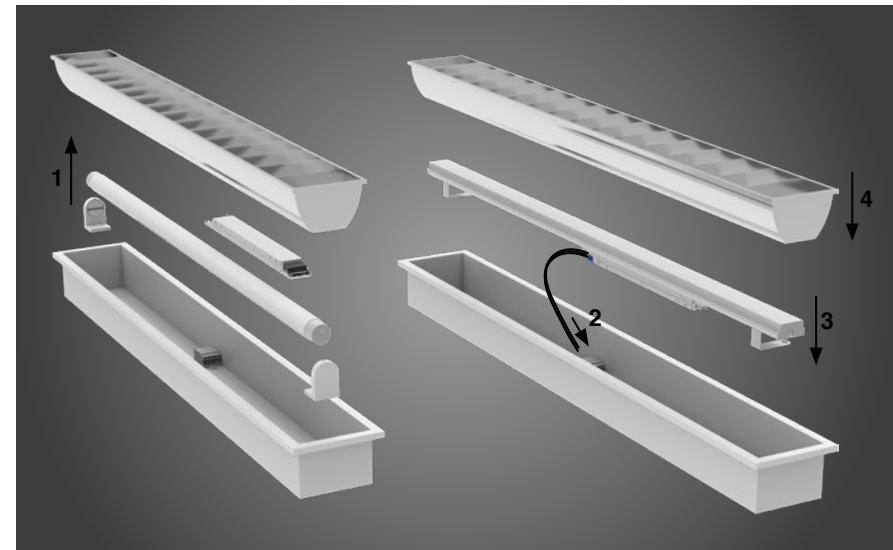


How to install

- Step 1: Open up existing luminaire, disconnect and remove components.
- Step 2: Connect Seamless Liner by inserting wires into terminal block (see photo)
- Step 3: Fix Seamless Liner by using one of the mounting types displayed above.
- Step 4: Reassemble the luminaire by closing of the louvres/cover.



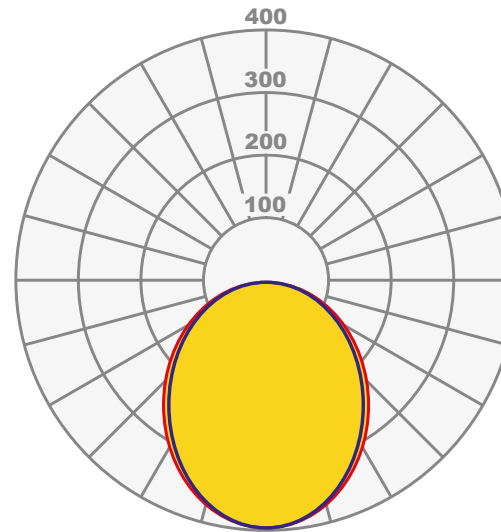
*For safety reasons, seamlessliner with magnetic mounting needs to be secured with a safety cable to the existing luminaire.



Seamless Liner

LED module

Module lengthft (ft)	Module length (mm)	LED Flux* 927	LED Flux* 930	LED Flux* 940	Power LED**	Power System**
2ft	564mm	2006lm	2054lm	2200lm	12.6W	14.5W
2,5ft	705mm	n.a.***	2568lm	2750lm	15.75W	18.1W
3ft	846mm	3009lm	3081lm	3300lm	18.9W	21.7W
3,5ft	987mm	n.a.***	3595lm	3850lm	22.05W	25.3W
4ft	1128mm	4012lm	4108lm	4400lm	25.2W	29W
4,5ft	1269mm	n.a.***	4622lm	4950lm	28.35W	32.6W
5ft	1410mm	5015lm	5135lm	5500lm	31.5W	36.2W
5,5ft	1551mm	n.a.***	5649lm	6050lm	34.65W	39.8W
6ft	1692mm	6018lm	6162lm	6600lm	37.8W	43.4W
6,5ft	1833mm	n.a.***	6676lm	7150lm	40.95W	47.1W
7ft	1974mm	7021lm	7189lm	7700lm	44.1W	50.7W
7,5ft	2115mm	n.a.***	7703lm	8250lm	47.25W	54.3W
8ft	2256mm	8024lm	8216lm	8800lm	50.4W	57.9W
8,5ft	2397mm	n.a.***	8730lm	9350lm	53.55W	61.6W
9ft	2538mm	9027lm	9243lm	9900lm	56.7W	65.2W
9,5ft	2679mm	n.a.***	9757lm	10450lm	59.85W	68.8W
10ft	2820mm	10030lm	10270lm	11000lm	63W	72.4W
10,5ft	2961mm	n.a.***	10784lm	11550lm	66.15W	76W
11ft	3102mm	11033lm	11297lm	12100lm	69.3W	79.7W
11,5ft	3243mm	n.a.***	11811lm	12650lm	72.45W	83.3W
12ft	3384mm	12036lm	12324lm	13200lm	75.6W	86.9W



Philips Fortimo High Voltage LED Module

Module	Current	CCT	CRI	SDCM*	Flux**	Efficacy**	Power**	Risk Group
0.5ft	284mA	3000K	90	3	513 lm	163 lm/W	3.2W	RG1
0.5ft	284mA	4000K	90	3	550 lm	174 lm/W	3.2W	RG1
1ft	284mA	2700K	90	3	1003 lm	158 lm/W	6.3W	RG1
1ft	284mA	3000K	90	3	1027 lm	163 lm/W	6.3W	RG1
1ft	284mA	4000K	90	3	1100 lm	174 lm/W	6.3W	RG1
2ft	284mA	3000K	90	3	2054 lm	163 lm/W	12.6W	RG1
2ft	284mA	4000K	90	3	2200 lm	174 lm/W	12.6W	RG1

Lumen maintenance at 284mA (Nominal Output)*

Tc	L80B10	L80B50	L70B10	L70B50
45°C	98 000 hrs	>100 000hrs	>100 000hrs	>100 000hrs

The Seamless Liner is designed to be installed in an enclosure which is grounded and cannot be used in open space. The power connections must be installed in a shielded environment according to local regulations.

* Luminous flux and efficacy mentioned is the flux and efficacy of the LED modules. SDCM MacAdam is initial value. All values at tc=45°C.
 ** Power LED mentioned is for LED module excl. driver; Power System mentioned is for LED module incl. driver. All values at tc=45°C.
 *** Not available. Our supplier, Philips, does not provide 140mm LED modules in 2700K and Tunable White.

LEDliner20

Solution for durable lighting in ceiling systems with 20mm spacing



Durability

Long Lifetime
5 Years Warranty
Made in Belgium



Performance

High efficacy up to 174lm/w
Nominal & High output series



Flexibility & Control

Non dimmable, DALI dimmable, Casambi
Flexible sizing and custom dimensions



Optimal Lighting

Available in 3000K or 4000K
High color rendering index (CRI>90)



Wide application area

Compact light engine
Driver built-in
Optional emergency lighting



Installation ease

Easy to install
The light module is placed in the 20mm spacings in the ceiling at any arbitrary location with a clip-in system. The lights can be removed or relocated without making changes to the ceiling system.

made in
Belgium

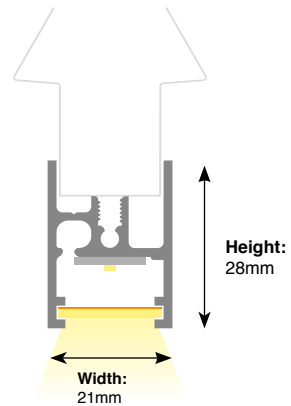


LEDliner20

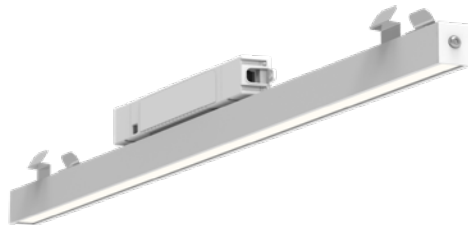
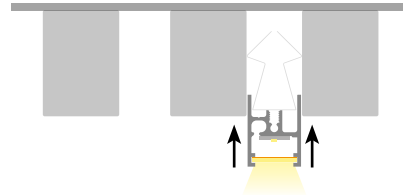
The LEDliner20 was designed and developed to work flawlessly with SAPP ceilings. This LEDLiner20 can be installed without the use of any tools (clips in).

Without the need to change anything to the ceiling, the LEDLiner20 can be installed, removed and reinstalled at another location.

The LEDliner20 comes with a prismatic cover to give an optimal light distribution [UGR Standard].



Easy installation:



 Built with ENEC
certified components

5 Years Warranty

Average weight of equipped profile:
###kg/m



UGR Standard!!

LEDliner20

Ready to go modules

Article number	Total length	LED Flux* 927	LED Flux* 930	LED Flux* 940	Power LED**
R20SA.DM.CCC.xx-04.G	600 mm	2085lm	2195lm	2195lm	13.4W
R20SA.DM.CCC.xx-06.G	940 mm	3275lm	3450lm	3450lm	21.0W
R20SA.DM.CCC.xx-08.G	1190 mm	4170lm	4390lm	4390lm	26.8W
R20SA.DM.CCC.xx-09.G	1370 mm	4760lm	5020lm	5020lm	30.4W
R20SA.DM.CCC.xx-10.G	1530 mm	5360lm	5645lm	5645lm	34.4W

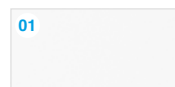
LED Efficacy: 156lm/W for 927. 164lm/W for 930. 164lm/W for 940

Article number structure: **R20SA.DM.CCC.xx-00**

Available colors (see below)
Other RAL colors on request

24: Non dimmable
26: Touch & DALI dim

927: Ra90 - 2700K
930: Ra90 - 3000K
940: Ra90 - 4000K



White matt texture
Standard



Grey matt texture
Standard



Anthracite matt text
Standard



Black matt texture
Standard



Bronze matt
Standard



Gold matt



Champagne



Custom RAL color
On request

Bridgelux LED module specifications

Module	Current	CCT	CRI	SDCM*	Flux**	Efficacy**	Power**	Risk Group
340mm	700mA	2700K	90	3	1190lm	156lm/W	7.6W	RG1
340mm	700mA	3000K	90	3	1255lm	164lm/W	7.6W	RG1
340mm	700mA	4000K	90	3	1255lm	164lm/W	7.6W	RG1
590mm	700mA	2700K	90	3	2085lm	156lm/W	13.4W	RG1
590mm	700mA	3000K	90	3	2195lm	164lm/W	13.4W	RG1
590mm	700mA	4000K	90	3	2195lm	164lm/W	13.4W	RG1

Lumen maintenance at 284mA (Nominal Output)*

L80B10	L80B50	L70B10	L70B50
98 000 hrs	>100 000hrs	>100 000hrs	>100 000hrs

* Luminous flux and efficacy mentioned is the flux and efficacy of the LED modules. SDCM MacAdam is initial value. All values at tc=25°C.

** Power LED mentioned is for LED module excl. driver; All values at tc=25°C.

Doxis Technical Edition Januari 2024

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3091.00.00.000.00.00	Nikko Box 900 Suspended Nominal Output	20-21
3120.00.00.000.00.00	Nikko Box 1200 Surface mounted Nominal Output	20-21
3121.00.00.000.00.00	Nikko Box 1200 Suspended Nominal Output	20-21
4060.00.00.000.00.00	Nikko Box 600 Surface mounted High Output	20-21
4061.00.00.000.00.00	Nikko Box 600 Suspended High Output	20-21
4090.00.00.000.00.00	Nikko Box 900 Surface mounted High Output	20-21
4091.00.00.000.00.00	Nikko Box 900 Suspended High Output	20-21
4120.00.00.000.00.00	Nikko Box 1200 Surface mounted High Output	20-21
4121.00.00.000.00.00	Nikko Box 1200 Suspended High Output	20-21
5027.00.00.000.00.00	Nikko Compact 2x2 Nominal Output	16-17
5060.00.00.000.00.00	Nikko Recessed 600 Nominal Output	14
5090.00.00.000.00.00	Nikko Recessed 900 Nominal Output	14
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5150.00.00.000.00.00	Nikko Recessed 1500 Nominal Output	15
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6120.00.00.000.00.00	Nikko Recessed 1200 High Output	15
6150.00.00.000.00.00	Nikko Recessed 1500 High Output	15
6200.00.00.000.00.00	Nikko Compact Recessed Round High Output	18-19
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Algemene Verkoopvoorwaarden.

1. Behoudens anders overeengekomen, is Dosis lighting factory NV (hierna Dosis) enkel gebonden door haar offerte en/of orderbevestiging en onderhavige voorwaarden met inbegrip van de bijlage "prijslijst, catalogus, garantie en retours", met uitdrukkelijke uitsluiting van de eigen contractuele voorwaarden van de koper.

2. De Koper garandeert steeds te voldoen aan alle toepasselijke regelgeving en richtlijnen m.b.t. de productie en verdeling van de Goederen. Dosis garandeert uitsluitend dat de goederen in overeenstemming zijn met de bindende en toepasselijke Belgische en/of Europese regelgeving, tenzij tussen Partijen uitdrukkelijk anders wordt overeengekomen.

3. Onze offertes hebben een geldigheidsduur zoals vermeld op de offerte of indien niet vermeld van 3 maanden . Alle overeenkomsten worden afgesloten op basis van de op dat ogenblik geldende prijzen. Indien na de offerte of de overeenkomst kostprijsbepalende factoren, zoals (niet limitatief) valutashommelingen, verhoging van materiaalprijzen, prijzen van hulpmaterialen en grondstoffen, lonen, salarissen, sociale lasten, van overheidswege opgelegde kosten, (milieu)heffingen en belastingen, transportkosten, in- en uitvoerrechten of verzekeringspremies, stijgen naar aanleiding van al dan niet voorzienbare omstandigheden, kan een prijsverhoging worden doorgerekend door Dosis aan de koper, zonder dat dit recht geeft op ontbinding van de overeenkomst. Indien dwingende voorschriften zich tegen een dergelijke aanpassing van eenzijdige verhoging verzetten, heeft Dosis het recht om de overeenkomst met onmiddellijke ingang en zonder enige schadevergoeding te beëindigen door middel van een eenvoudig schrijven per aangetekende post of e-mail.

4. Elke vermelde leveringstermijn geldt ter informatieve titel. De levering van goederen vindt plaats ex works, dit is de Dosis-uitbatingvestiging te Genk (België), tenzij uitdrukkelijk anders overeengekomen. Een laattijdige levering zal geen aanleiding geven tot schadevergoeding door Dosis, tenzij in geval van een toerekenbare zware, opzettelijke of bedrieglijke fout van Dosis. De vertraging in de levering kan evenmin aanleiding geven tot annulatie van de bestelling door de koper.

5. Bij annulatie van een bestelling, zelfs zo deze annulatie slechts gedeeltelijk is, door de koper, is deze gehouden tot betaling van een schadevergoeding van minimum 30% van de prijs van de geannuleerde bestelling. Dosis behoudt zich het recht voor deze schadevergoeding te verhogen in geval haar werkelijk geleden schade hoger ligt.

6. Iedere klacht, om geldig te zijn, dient schriftelijk en ten laatste binnen de 5 dagen volgend op de ontvangst der goederen, bij onze firma ingediend te worden. Zichtbare gebreken waarover door de koper op het ogenblik van de levering geen opmerkingen werden geformuleerd, worden geacht te zijn aanvaard. Elke klacht betreffende verborgen gebreken moet binnen de 7 dagen na de ontdekking ervan en ten laatste 6 maanden na levering door de koper schriftelijk ter kennis van Dosis worden gebracht.

7. Prijzen zijn excl. BTW in Euro, excl. Recupel (WEEE), excl. transportkosten. Alle facturen zijn betaalbaar op onze uitbatingsetel te Genk. Behoudens tegenstrijdige bepaling, mogen onze agenten of vertegenwoordigers het bedrag van de factuur niet inkasseren. Het wisselkoersrisico is ten laste van de koper. Behoudens andersluidende en schriftelijke bepaling, zijn onze facturen betaalbaar op 30 dagen factuurdatum Elk bedrag dat onbetaald blijft op zijn vervaldag, zal van rechtswege en zonder ingebrekestelling rente geven berekend op basis van de Belgische wettelijke intrestvoet vermeerderd met 2 %, met een minimum intrestvoet van 12 %. In geval van niet-betaling op de vervaldag, behouden wij ons het recht voor het bedrag van de factuur met 10 % te verhogen, met een minimum van 250 €. De niet-betaling op de vervaldag van één enkele factuur, maakt het verschuldigd saldo van al de andere, zelfs niet vervallen facturen, van rechtswege onmiddellijk opeisbaar.

8. Onverminderd haar recht op schadevergoeding is Dosis in geval van niet-betaling op één enkele vervaldag of niet-naleving van elke andere contractuele

verplichting door de koper gerechtigd de uitvoering van de overeenkomst automatisch op te schorten. Indien en voor zover de koper niet binnen een termijn van 14 dagen na ingebrekestelling door Dosis hieraan is tegemoet gekomen, is Dosis ongeacht haar andere rechten eveneens gerechtigd om de overeenkomst van rechtswege te ontbinden door de loutere verzending van een aangetekende brief.

9. Indien ons vertrouwen in de kredietwaardigheid van de koper geschokt wordt door daden van gerechtelijke uitvoering tegen de koper en/of aanwijsbare andere gebeurtenissen, die het vertrouwen in de goede uitvoering van de door de koper aangegane verbintenissen in vraag stellen en/of onmogelijk maken, behouden wij ons het recht voor, zelfs indien de goederen reeds geheel of gedeeltelijk werden verzonden, de gehele bestelling of een gedeelte ervan op te schorten en van de koper geschikte waarborgen te eisen. Indien de koper weigert hierop in te gaan, behouden wij ons het recht voor de gehele bestelling of een gedeelte ervan te annuleren. Dit alles onverminderd onze rechten op alle schadevergoedingen en interesten.

10. EIGENDOMSVOORBEHOUD: De goederen blijven onze eigendom tot volledige betaling van de prijs. Alle risico's zijn ten laste van de koper. De betaalde voorschotten blijven ons verworven ter vergoeding van de mogelijke verliezen bij wederverkoop. Ingeval de koper de aan ons toebehorende goederen, zelfs verwerkt, herverkoopt, draagt hij vanaf heden aan ons alle schuldvoordereingen over die voortkomen uit deze herverkoop.

11. Het trekken en/of aanvaarden van wissels of andere verhandelbare documenten, houdt geen schuldvernieuwing in en vormt geen afwijking van de verkoopvoorwaarden.

12. De aansprakelijkheid van Dosis is te allen tijde beperkt tot de aansprakelijkheid die in de gegeven feitelijke omstandigheden verplicht is opgelegd door de wet en is voor het overige beperkt tot haar zware of opzettelijke/bedrieglijke fout en is in ieder geval gelimiteerd tot het laagste van volgende bedragen: (1) het kwestieuze factuurbedrag, dan wel (2) het bedrag betaald door de verzekering van Dosis, en zal in geen geval indirecte of gevolgschade impliceren. Reparatiekosten worden niet door Dosis geaccepteerd tenzij vooraf bevestigd en goedgekeurd zijn door Dosis, ook wanneer de verantwoordelijkheid voor deze reparatie bij Dosis ligt. Er wordt geen aansprakelijkheid en/of gehoudeheid aanvaard voor schade ontstaan als rechtstreeks of onrechtstreeks gevolg van overmacht en/of hardship (imprevisie). Onder overmacht en hardship wordt onder meer verstaan (louter exemplatieve opsomming): productieonderbrekingen, bevoorradingsproblemen, tekorten aan grondstoffen, arbeidskracht, energie en transport, of vertragingen in transport, valutashommelingen, verhoging van materiaalprijzen, prijzen van hulpmaterialen en grondstoffen, lonen, salarissen, sociale lasten, van overheidswege opgelegde kosten, heffingen en belastingen, transportkosten, in- en uitvoerrechten of verzekeringspremies, optredende tussen de orderbevestiging en de levering, ijsgang, bijzondere weersomstandigheden, stakingen, lock-outs, werkonderbrekingen of andere collectieve arbeidsgeschillen, mobilisatie, oorlog, ziekte, epidemie, pandemie, ongevallen, communicatie- en informaticastoringen, overheidsmaatregelen, uitvoerverbod, welke Dosis zelf of haar leveranciers treffen.

13. Indien één of meerdere van deze algemene voorwaarden definitief onafdwingbaar of nietig zouden verklaard worden, doet dit geen afbreuk aan de toepasselijkheid van de overige bepalingen. In geval van nietigheid of onafdwingbaarheid van één van de bepalingen, zullen Dosis en de koper in de mate van het mogelijke en volgens hun loyaliteit en overtuiging, onderhandelen om de nietige bepaling te vervangen door een equivalente bepaling die beantwoordt aan de algemene geest van deze algemene voorwaarden.

14. In geval van vertaling van deze tekst primeert de nederlandstalige versie.

15. Behoudens schriftelijke overeengekomen afwijking is op de overeenkomst steeds het Belgisch Recht van toepassing. Ingeval van betwisting is enkel de rechtbank van Tongeren, België bevoegd.

Conditions Générales de Vente.

1. Sauf accord dérogatoire, Dosis Lighting Factory NV (ci-après dénommée Dosis) n'est liée que par son devis et/ou sa confirmation de commande et les présentes conditions, y compris l'annexe "liste de prix, catalogue, garantie et retours", à l'exclusion expresse des propres conditions contractuelles de l'acheteur.

2. L'Acheteur garantit toujours le respect de tous les règlements et directives applicables concernant la production et la distribution des Biens. Dosis garantit uniquement que les Biens sont conformes à la réglementation belge et/ou européenne contraignante et applicable, sauf convention contraire expresse entre les Parties.

3. Nos propositions de prix sont valables pour la période indiquée sur la proposition ou, à défaut, pour trois mois. Tous les engagements sont conclus sur la base des prix en vigueur à ce moment-là. Si, après l'offre ou le contrat, des facteurs déterminant le prix de revient, tels que (sans que cette liste soit exhaustive) les fluctuations monétaires, l'augmentation des prix des matériaux, des prix des matières auxiliaires et des matières premières, des salaires, des charges sociales, des coûts imposés par les pouvoirs publics, des taxes et impôts (environnementaux), des coûts de transport, des droits d'importation et d'exportation ou des primes d'assurance, augmentent en raison de circonstances prévisibles ou non, une augmentation de prix peut être répercutée par Dosis sur l'acheteur, sans que cela n'autorise l'acheteur à résilier le contrat. Si des réglementations obligatoires s'opposent à une telle augmentation unilatérale, Dosis est en droit de résilier le contrat avec effet immédiat et sans aucune indemnité, par simple lettre recommandée ou par e-mail.

4. Tout délai de livraison indiqué l'est à titre indicatif. La livraison des marchandises se fait EX WORKS, c'est-à-dire du bureau de Dosis à Genk (Belgique), sauf accord contraire formel. Un retard de livraison ne donnera lieu à aucune indemnisation de la part de Dosis, sauf en cas d'erreur grave, délibérée ou frauduleuse imputable à Dosis. Le retard de livraison ne peut pas non plus donner lieu à l'annulation de la commande par l'Acheteur.

5. Si une commande est annulée, même partiellement, par l'acheteur, ce dernier est tenu de payer une compensation d'au moins 30% du prix de la commande annulée. Dosis se réserve le droit d'augmenter cette compensation si le dommage réel subi est plus élevé.

6. Pour être valable, toute réclamation doit être soumise à notre société par écrit et au plus tard dans les 5 jours suivant la réception des marchandises. Les défauts visibles sur lesquels aucune remarque n'a été formulée par l'acheteur au moment de la livraison sont considérés comme acceptés. Toute réclamation concernant les défauts cachés doit être notifiée par écrit à Dosis par l'acheteur dans les 7 jours après leur découverte et au plus tard 6 mois après la livraison.

7. Les prix sont hors TVA en euros, hors Recupel (WEEE), hors frais de transport. Toutes les factures sont payables à notre siège social à Genk. Sauf stipulation contraire, nos agents ou représentants ne peuvent pas collecter le montant de la facture. Le risque de change est à la charge de l'acheteur, ainsi que les frais bancaires. Sauf stipulation contraire écrite, nos factures sont payables à 30 jours de la date de facturation. Tout montant non payé à l'échéance portera, de plein droit et sans mise en demeure, un intérêt sur la base du taux d'intérêt légal belge augmenté de 2%, avec un taux d'intérêt minimum de 12%. En cas de non-paiement à l'échéance, nous nous réservons le droit d'augmenter le montant de la facture de 10%, avec un minimum de 250 €. Le non-paiement à l'échéance d'une seule facture rend immédiatement payable de plein droit le solde dû de toutes les autres factures, même celles non encore échues.

8. Sans préjudice de son droit à l'indemnisation, Dosis est en droit, en cas de non-paiement d'une seule échéance ou de non-respect de toute autre obligation contractuelle par l'Acheteur, de suspendre automatiquement l'exécution du contrat. Si et dans la mesure où l'acheteur ne s'y est pas conformé dans un délai de 14 jours après que Dosis lui ait signifié une mise en demeure, Dosis a également le droit, indépendamment de ses autres droits, de dissoudre de plein droit le contrat par le simple

envoi d'une lettre recommandée.

9. Si notre confiance dans la solvabilité de l'acheteur est ébranlée par des actes d'exécution judiciaire à l'encontre de l'acheteur et/ou d'autres événements démonstrables, qui remettent en cause la confiance dans la bonne exécution des engagements pris par l'acheteur et/ou la rendent impossible, nous nous réservons le droit, même si les marchandises ont déjà été expédiées en tout ou partie, de suspendre tout ou partie de la commande et d'exiger de l'acheteur des garanties appropriées. Si l'acheteur refuse de le faire, nous nous réservons le droit d'annuler tout ou partie de la commande. Tout ceci sans préjudice de nos droits à tous les dommages et intérêts.

10. PROPRIÉTÉ : Les marchandises restent notre propriété jusqu'au paiement intégral du prix. Tous les risques sont à la charge de l'acheteur. Les avances versées nous restent acquises à titre de compensation pour les pertes éventuelles en cas de revente. Si l'acheteur revend les marchandises nous appartenant, même si elles ont été transformées, il nous cède dès à présent toutes les créances résultant de cette revente.

11. Le tirage et/ou l'acceptation de lettres de change ou d'autres documents négociables n'implique pas de novation et ne constitue pas une dérogation aux conditions de vente.

12. La responsabilité de Dosis sera à tout moment limitée à la responsabilité imposée par la loi dans les circonstances factuelles données et sera autrement limitée à sa faute lourde ou intentionnelle/trompeuse et sera en tout cas limitée au plus bas (1) du montant de la facture contestable ou (2) du montant payé par l'assurance de Dosis et n'impliquera en aucun cas des dommages indirects. Les frais de réparation ne seront pas acceptés par Dosis, sauf s'ils sont confirmés et approuvés au préalable par Dosis, même si la responsabilité de cette réparation incombe à Dosis. Aucune responsabilité et/ou obligation n'est acceptée pour les dommages résultant directement ou indirectement d'un cas de force majeure et/ou de difficultés. Par force majeure et difficultés, on entend notamment (liste purement illustrative) des interruptions de production, des problèmes d'approvisionnement, des pénuries de matières premières, de main-d'œuvre, d'énergie et de transport, ou des retards dans le transport, des fluctuations monétaires, des augmentations des prix des matériaux, des prix des matières auxiliaires et des matières premières, des salaires, des charges sociales, des coûts, des prélèvements et des taxes imposés par les pouvoirs publics, des frais de transport, des droits d'importation et d'exportation ou des primes d'assurance, survenant entre la confirmation de la commande et la livraison, le gel, les conditions météorologiques particulières, les grèves, les lock-out, les interruptions de travail ou autres conflits collectifs de travail, la mobilisation, la guerre, les maladies, les épidémies, les pandémies, les accidents, les pannes de communication et d'informatique, les mesures gouvernementales, les interdictions d'exportation qui affectent Dosis elle-même ou ses fournisseurs.

13. Si une ou plusieurs des présentes conditions générales devaient être déclarées définitivement inapplicables ou nulles, cela n'affecterait pas l'applicabilité des autres dispositions. En cas de nullité ou d'inapplicabilité de l'une des dispositions, Dosis et l'Acheteur négocieront, dans la mesure du possible et en fonction de leur loyauté et de leur conviction, pour remplacer la disposition nulle par une disposition équivalente conforme à l'esprit général des présentes conditions générales.

14. Ce texte est une traduction des conditions générales néerlandaises. En cas de divergence, le texte néerlandais prévaut sur la traduction.

15. Sauf accord écrit contraire, le contrat est toujours régi par le droit belge. En cas de litiges, seul le tribunal de Tongeren, Belgique, est compétent.

Dosis Lighting Factory NV - Horizonlaan 30 – 3600 Genk - Belgium

Allgemeine Verkaufsbedingungen

1. Sofern nicht anders vereinbart, ist Dosis Lighting Factory NV (im Folgenden Dosis genannt) nur an ihr Angebot und/oder ihre Auftragsbestätigung und diese Bedingungen, einschließlich des Anhangs "Preisliste, Katalog, Garantie und Rückgabe", gebunden, unter ausdrücklichem Ausschluss der eigenen Vertragsbedingungen des Käufers.

2. Der Käufer garantiert jederzeit die Einhaltung aller geltenden Vorschriften und Richtlinien in Bezug auf die Herstellung und den Vertrieb der Waren. Dosis garantiert nur, dass die Waren den verbindlichen und anwendbaren belgischen und/oder europäischen Vorschriften entsprechen, es sei denn, die Parteien haben ausdrücklich etwas anderes vereinbart.

3. Unsere Angebote sind für den auf dem Angebot angegebenen Zeitraum oder, falls nicht angegeben, für drei Monate gültig. Alle Verträge werden auf der Grundlage der zu diesem Zeitpunkt geltenden Preise geschlossen. Wenn nach dem Angebot oder der Vereinbarung kostenpreisbestimmende Faktoren, wie (nicht abschließend) Währungsschwankungen, Preiserhöhungen von Materialien, Preisen von Hilfs- und Rohstoffen, Löhnen, Gehältern, Sozialabgaben, staatlich auferlegten Kosten (Umwelt-) Abgaben und Steuern, Transportkosten, Import- und Exportzöllen oder Versicherungsprämien infolge von zu erwartenden oder nicht zu erwartenden Umständen steigen, kann eine Preiserhöhung von Dosis an den Käufer weitergegeben werden, ohne dass dies den Käufer berechtigt, die Vereinbarung aufzulösen. Stehen zwingende Vorschriften einer solchen einseitigen Erhöhung entgegen, ist Dosis berechtigt, den Vertrag mit sofortiger Wirkung und ohne jegliche Entschädigung durch ein einfaches Schreiben per Einschreiben oder E-Mail zu kündigen.

4. Die angegebenen Lieferfristen dienen nur zu Informationszwecken. Die Lieferung der Waren erfolgt ab Werk, d.h. ab dem Dosis-Büro in Genk (Belgien), sofern nicht ausdrücklich etwas anderes vereinbart ist. Eine verspätete Lieferung gibt keinen Anlass zu einer Entschädigung durch Dosis, es sei denn, es handelt sich um einen zurechenbaren schweren, vorsätzlichen oder betrügerischen Fehler von Dosis. Die Lieferverzögerung darf auch nicht zu einer Stornierung der Bestellung durch den Käufer führen.

5. Wird ein Auftrag vom Käufer auch nur teilweise storniert, ist der Käufer verpflichtet, eine Entschädigung von mindestens 30 % des Preises des stornierten Auftrags zu zahlen. Dosis behält sich das Recht vor, diese Entschädigung zu erhöhen, wenn der tatsächlich erlittene Schaden höher ist.

6. Jede Reklamation muss, um gültig zu sein, schriftlich und spätestens innerhalb von 5 Tagen nach Erhalt der Ware bei unserem Unternehmen eingereicht werden. Sichtbare Mängel, zu denen der Käufer zum Zeitpunkt der Lieferung keine Bemerkungen gemacht hat, gelten als akzeptiert. Beanstandungen wegen versteckter Mängel sind vom Käufer innerhalb von 7 Tagen nach Entdeckung, spätestens jedoch 6 Monate nach Lieferung, schriftlich bei Dosis zu melden.

7. Die Preise sind ohne Mehrwertsteuer in Euro, ohne Recupel (WEEE), ohne Transportkosten. Alle Rechnungen sind an unseren Hauptsitz in Genk zu zahlen. Sofern nicht anders vereinbart, sind unsere Agenten oder Vertreter nicht berechtigt, den Rechnungsbetrag einzuziehen. Das Wechselkursrisiko geht zu Lasten des Käufers, ebenso wie die Bankgebühren. Sofern nicht schriftlich anders vereinbart, sind unsere Rechnungen 30 Tage nach Rechnungsdatum zahlbar. Jeder am Fälligkeitstag nicht bezahlte Betrag wird automatisch und ohne Vorankündigung auf der Grundlage des belgischen gesetzlichen Zinssatzes zuzüglich 2 % verzinst, mit einem Mindestzinssatz von 12 %. Bei Nichtzahlung am Fälligkeitstag behalten wir uns das Recht vor, den Rechnungsbetrag um 10 % zu erhöhen, mindestens jedoch um 250 €. Die Nichtzahlung einer einzigen Rechnung am Fälligkeitstag führt dazu, dass alle anderen Rechnungen, auch die hoch nicht fälligen, von Rechts wegen sofort fällig werden.

8. Unbeschadet ihres Rechts auf Schadensersatz ist Dosis im Falle der Nichtzahlung zu einem einzigen Fälligkeitstermin oder der Nichteinhaltung einer anderen vertraglichen Verpflichtung durch den Käufer berechtigt, die Ausführung des Vertrags automatisch auszusetzen. Wenn und soweit der Käufer dem nicht innerhalb einer

Frist von 14 Tagen, nachdem Dosis ihn in Verzug gesetzt hat, nachgekommen ist, ist Dosis unbeschadet ihrer sonstigen Rechte auch berechtigt, den Vertrag von Rechts wegen durch einfachen Versand eines Einschreibens aufzulösen.

9. Wenn unser Vertrauen in die Kreditwürdigkeit des Käufers durch gerichtliche Vollstreckungsmaßnahmen gegen den Käufer und/oder nachweisbare andere Ereignisse, die das Vertrauen in die ordnungsgemäße Erfüllung der vom Käufer eingegangenen Verpflichtungen in Frage stellen und/oder unmöglich machen, erschüttert wird, behalten wir uns das Recht vor, auch wenn die Waren bereits ganz oder teilweise versandt wurden, die gesamte Bestellung oder einen Teil davon auszusetzen und vom Käufer geeignete Garantien zu verlangen. Weigert sich der Käufer, dies zu tun, behalten wir uns das Recht vor, die Bestellung ganz oder teilweise zu stornieren. All dies gilt unbeschadet unserer Rechte auf Schadenersatz und Zinsen.

10. EIGENTUM: Die Ware bleibt bis zur vollständigen Bezahlung des Preises unser Eigentum. Alle Risiken gehen zu Lasten des Käufers. Die gezahlten Vorschüsse verbleiben bei uns als Entschädigung für die möglichen Verluste im Falle des Weiterverkaufs. Für den Fall, dass der Käufer die Ware weiterverkauft, auch wenn diese verarbeitet wurde, überträgt er uns bereits jetzt alle aus diesem Weiterverkauf resultierenden Forderungen.

11. Die Ausstellung und/oder Annahme von Wechseln oder anderen handelbaren Dokumenten bedeutet keine Novation und stellt keine Abweichung von den Verkaufsbedingungen dar.

12. Die Haftung von Dosis ist zu jeder Zeit auf die gesetzlich vorgeschriebene Haftung unter den gegebenen Umständen beschränkt und im Übrigen auf grobes oder vorsätzliches bzw. arglistiges Verschulden und in jedem Fall auf den niedrigeren Betrag von (1) dem fraglichen Rechnungsbetrag oder (2) dem von der Versicherung von Dosis gezahlten Betrag begrenzt und schließt in keiner Weise indirekte oder Folgeschäden ein. Reparaturkosten werden von Dosis nicht akzeptiert, es sei denn, sie wurden im Voraus von Dosis bestätigt und genehmigt, auch wenn die Verantwortung für eine solche Reparatur bei Dosis liegt. Für Schäden, die als direkte oder indirekte Folge von höherer Gewalt und/oder Härte auftreten, wird keine Haftung und/oder Verpflichtung übernommen. Unter höherer Gewalt und Härte versteht man (rein illustrative Aufzählung) Produktionsunterbrechungen, Versorgungsschwierigkeiten, Rohstoff-, Arbeits-, Energie- und Transportmangel oder Transportverzögerungen, Währungsschwankungen, Preiserhöhungen bei Materialien, Hilfs- und Rohstoffen, Löhnen, Gehältern, Sozialabgaben, staatlich auferlegten Kosten, Abgaben und Steuern, Transportkosten, Ein- und Ausfuhrzöllen oder Versicherungsprämien, die zwischen der Auftragsbestätigung und der Lieferung eintreten, Eis, besondere Witterungsverhältnisse, Streiks, Aussperrungen, Arbeitsunterbrechungen oder sonstige kollektive Arbeitskämpfe, Mobilmachung, Krieg, Krankheit, Epidemien, Pandemien, Unfälle, Kommunikations- und IT-Ausfälle, behördliche Maßnahmen, Exportverbote, die Dosis selbst oder deren Lieferanten betreffen.

13. Sollten eine oder mehrere dieser allgemeinen Bedingungen für endgültig nicht durchsetzbar oder nichtig erklärt werden, so berührt dies nicht die Anwendbarkeit der übrigen Bestimmungen. Im Falle der Nichtigkeit oder Undurchsetzbarkeit einer der Bestimmungen werden Dosis und der Käufer, soweit möglich und nach ihrer Loyalität und Überzeugung, verhandeln, um die nichtige Bestimmung durch eine gleichwertige Bestimmung zu ersetzen, die dem allgemeinen Geist dieser allgemeinen Bedingungen entspricht.

14. Dieser Text ist eine Übersetzung der niederländischen Allgemeinen Geschäftsbedingungen. Bei Unstimmigkeiten geht der niederländische Text der Übersetzung vor.

15. Sofern nicht schriftlich anders vereinbart, unterliegt der Vertrag immer belgischem Recht. Im Falle von Streitigkeiten ist ausschließlich das Gericht von Tongeren, Belgien, zuständig.

Dosis Lighting Factory NV - Horizonlaan 30 – 3600 Genk - Belgien

General Terms of Sale.

1. Unless otherwise agreed, Dosis Lighting Factory NV (hereinafter referred to as Dosis) is only bound by its offer and/or confirmation of order and these conditions, including the appendix "price list, catalogue, guarantee and returns", with the explicit exclusion of the purchaser's own contractual conditions.

2. The Buyer always guarantees to comply with all applicable regulations and directives concerning the production and distribution of the Goods. Dosis only guarantees that the Goods comply with the binding and applicable Belgian and/or European regulations, unless otherwise expressly agreed between Parties.

3. Our quotations are valid for the period stated on the quotation or, if not stated, for three months. All agreements are concluded on the basis of the prices applicable at that time. If after the quotation or the agreement cost price determining factors, such as (non-exhaustive) currency fluctuations, increase in prices of materials, prices of auxiliary materials and raw materials, wages, salaries, social security charges, government imposed costs, (environmental) levies and taxes, transport costs, import and export duties or insurance premiums increase as a result of circumstances to be expected or not, a price increase can be passed on by Dosis to the buyer, without this entitling the buyer to dissolve the agreement. If mandatory regulations oppose such a unilateral increase, Dosis is entitled to terminate the contract with immediate effect and without any compensation by means of a simple letter sent by registered post or e-mail.

4. Any delivery period stated is for information purposes only. Delivery of goods takes place ex works, i.e. the Dosis office in Genk (Belgium), unless explicitly agreed otherwise. A late delivery shall not give rise to compensation by Dosis, except in the case of an imputable serious, deliberate or fraudulent deed by Dosis. The delay in delivery does not give rise to cancellation of the order by the Buyer.

5. If an order is cancelled, even partially, by the buyer, the buyer is obliged to pay compensation of at least 30% of the price of the cancelled order. Dosis reserves the right to increase this compensation if the actual damage suffered is higher.

6. In order to be valid, any complaint must be submitted to our company in writing and at the latest within 5 days following the receipt of the goods. Visible defects on which no comments were formulated by the buyer at the time of delivery are deemed to be accepted. Any complaint concerning hidden defects must be notified in writing to Dosis by the buyer within 7 days after discovery and at the latest 6 months after delivery.

7. Prices are excluding VAT in Euro, excluding Recupel (WEEE), excluding transport costs. All invoices are payable to our head office in Genk. Unless stipulated otherwise, our agents or representatives may not collect the amount of the invoice. The exchange rate risk is borne by the buyer as are bank charges. In the absence of any written provision to the contrary, our invoices are payable on the 30th day of the invoice date.

Any amount unpaid on the due date shall, automatically and without notice, attract interest calculated on the basis of the Belgian legal interest rate plus 2%, with a minimum interest rate of 12%. In the event of non-payment on the due date, we reserve the right to increase the amount of the invoice by 10%, with a minimum of €250. The non-payment on the due date of a single invoice renders all other invoices due, even those not yet due, immediately payable ipso jure.

8. Without prejudice to its right to compensation, Dosis is entitled in the case of non-payment on a single due date or non-compliance with any other contractual obligation by the Buyer to automatically suspend the execution

of the agreement. If and in so far as the Buyer has not complied with this within a period of 14 days after Dosis has served him with a notice of default, Dosis is also entitled, irrespective of its other rights, to dissolve the agreement ipso jure by the mere sending of a registered letter.

9. If our confidence in the creditworthiness of the buyer is shaken by acts of judicial execution against the buyer and/or demonstrable other events, which question the confidence in the proper execution of the commitments entered into by the buyer and/or make it impossible, we reserve the right, even if the goods have already been shipped in whole or in part, to suspend the entire order or part thereof and to demand suitable guarantees from the buyer. If the buyer refuses to do so, we reserve the right to cancel all or part of the order. All this without prejudice to our rights to all damages and interest.

10. OWNERSHIP: The goods remain our property until full payment of the price. All risks are borne by the buyer. The paid advances remain acquired by us as compensation for the possible losses in case of resale. In the event that the purchaser resells the goods belonging to us, even if these have been processed, he shall from now on assign to us all revenues arising from this resale.

11. The drawing and/or accepting of financial instruments or other negotiable documents does not imply novation and does not constitute a deviation from the terms and conditions of sale.

12. Dosis liability shall at all times be limited to the liability imposed by law in the given factual circumstances and shall otherwise be restricted to its gross or intentional/deceitful fault and shall in any case be limited to the lower of (1) the questionable invoice amount or (2) the amount paid by Dosis' insurance and shall in no way imply indirect or consequential damages. Repair costs will not be accepted by Dosis unless confirmed and approved in advance by Dosis, even when the responsibility for such repair lies with Dosis. No liability and/or obligation is accepted for damages arising as a direct or indirect consequence of force majeure and/or hardship. Force majeure and hardship are understood to include (purely illustrative list) production interruptions, supply problems, shortages of raw materials, labour, energy and transport, or delays in transport, currency fluctuations, increases in prices of materials, prices of auxiliary materials and raw materials, wages, salaries, social security charges, government-imposed costs, levies and taxes, transport costs, import and export duties or insurance premiums, occurring between the order confirmation and the delivery, ice, special weather conditions, strikes, lock-outs, work interruptions or other collective labour disputes, mobilisation, war, illness, epidemics, pandemics, accidents, communication and IT failures, government measures, export bans which affect Dosis itself or its suppliers.

13. If one or more of these general conditions should be declared definitively unenforceable or null and void, this shall not affect the applicability of the remaining provisions. In the event of nullity or unenforceability of one of the provisions, Dosis and the Buyer shall, to the extent possible and in accordance with their loyalty and conviction, negotiate to replace the invalid provision by an equivalent provision which complies with the general spirit of these general conditions.

14. This text is a translation of the Dutch general terms and conditions. The Dutch text prevails over the translation in case of discrepancy.

15. Unless otherwise agreed in writing, the agreement shall always be governed by Belgian law. In case of disputes, only the court of Tongeren, Belgium, is competent.

Dosis Lighting Factory NV - Horizonlaan 30 – 3600 Genk - Belgium

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Dosis Technical Brochure Version Spring 2024.

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