

# Light Thinking

volume . 1

**LABRA**

light thinking

***Design  
simple,  
why i  
compl***

**n is so  
, that's  
t's so  
icated**

**– Paul Rand**

Auro – Nex



**Auro**  
16



**Basic**  
24



**Bold**  
28



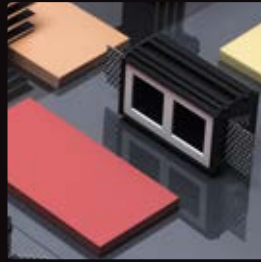
**Cryptos**  
32



**Cuba**  
38



**Deco**  
42



**Dota**  
50



**Dota System**  
60



**Fossil**  
66



**Fraam**  
72



**Geit**  
86



**Hedion**  
98



**Ideon**  
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**Iner**  
112



**Kiko**  
120



**Lava**  
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**Layer**  
134



**Loop**  
142



**Mono**  
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**Multisystem**  
154



**Multiva Evo**  
162



**Naveo**  
176



**Neutra System**  
180



**Nex**  
186



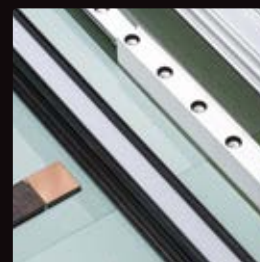
**Panton IP**  
190



**Proxa**  
196



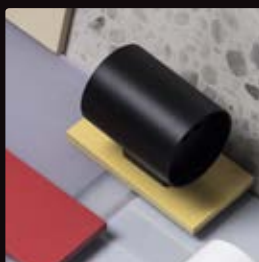
**Ray**  
202



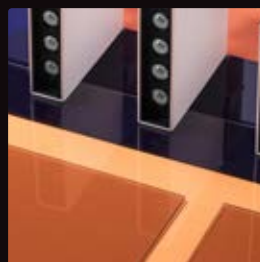
**Ray System**  
214



**Robotic**  
230



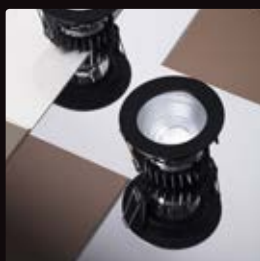
**Runda**  
238



**Shift**  
242



**Solid**  
250



**Sollo**  
264



**Sporto**  
268



**Stik**  
274



**Stinger**  
282



**Texo**  
292



**Tida**  
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**Tommy**  
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**Track 1F | 3F**  
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**Tubular**  
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**Tweet**  
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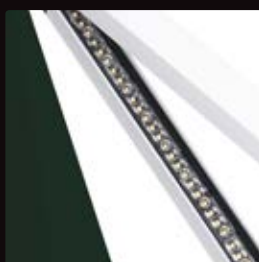
**Versa**  
342



**Walk'y**  
348



**Wave**  
352



**Yon**  
362

## 1 . Wall | Ścienne



**Cuba** 40    **Fossil** 68    **Kiko** 122    **Naveo** 178    **Ray** 204    **Runda** 240    **Stik** 276    **Tida** 310



**Versa** 344    **Wave** 354    **Yon** 370

## 3 . Surface | Natynkowe



**Auro Base** 18    **Dota** 52    **Dota Linear** 54    **Fraam** 76    **Lava** 126    **Layer** 136    **Loop** 144    **Mono** 148

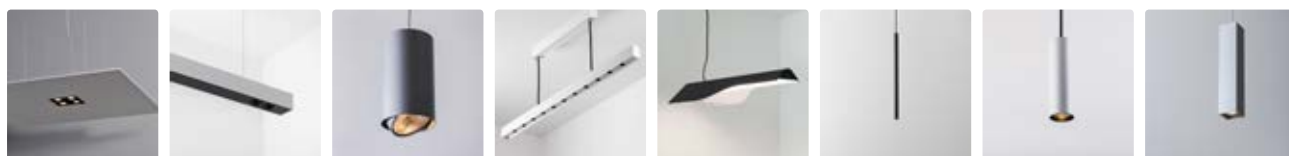


**Nex** 188    **Panton IP** 192    **Proxa** 198    **Ray** 204    **Shift 1.0** 244    **Solid 110** 252    **Solid 163** 252    **Solid Area** 254

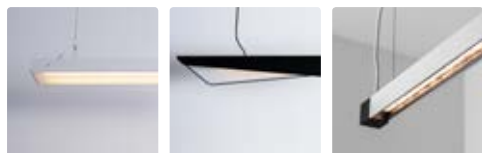


**Solid Lightbox** 256    **Texo** 294    **Texo XS.XL** 294    **Tida** 310    **Tubular** 328    **Tweet** 334    **Versa** 344    **Yon** 364

## 5 . Suspended | Zwieszane



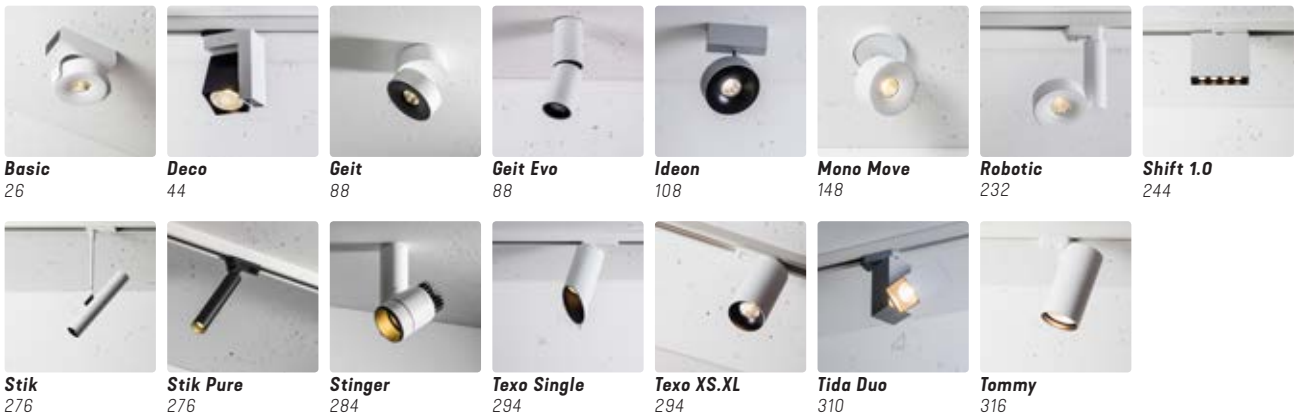
**Cryptos** 34    **Dota Linear** 54    **Proxa** 198    **Ray** 204    **Sporto** 270    **Stik** 276    **Texo** 294    **Tida** 310



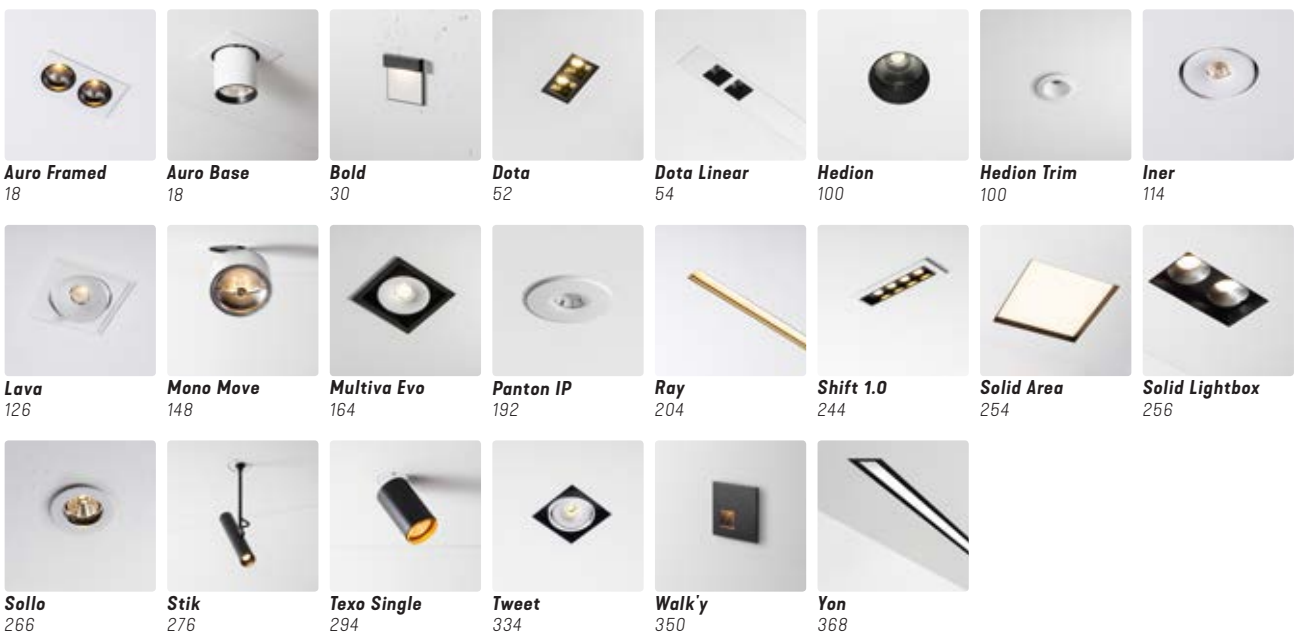
**Versa** 344    **Wave** 354    **Yon** 366



## 2 . Spotlights | Reflektory



## 4 . Recessed | Wpuszczane



## 6 . Systems | Systemy



**CRI** 98

*Wierzymy, że jakość naszego produktu to między innymi jakość światła, dlatego wciąż poszukujemy idealnych źródeł światła. Stosujemy najwydajniejsze diody CREE CoB High Fidelity CRI98 2-step (R9 95) byś i Ty mógł to poczuć. Szukaj w katalogu produktów oznaczonych tym symbolem ●*

*We believe that the quality of our product, among other things, is the quality of light, which is why we are still looking for perfect sources of light. We use the most efficient CREE CoB High Fidelity CRI98 2-step diodes (R9 95) so that you can feel it. Look in the catalog for products marked with this symbol ●*

# 5

**LAT | YEARS**

*Wierzimy w to co robimy, w to, że robimy to dobrze, dlatego chcemy żebyś i Ty był tego pewien, więc dajemy Ci gwarancję na nasze produkty LED na okres 5 lat. Jeśli chcesz wiedzieć więcej przejdź do strony 379*

*We believe in what we do, in the fact, that we do it well and as best as we can. That is why we want you to be sure of our products, it's quality and because of that we give you guarantee on our LED products for 5 years. If you want to know more go to page 379*

Model	Order Codes	Color	CRI / Color temp.	Optic
	On-Off Switch-DALI PhaseCut Accessories	Alu / Grey Black White Mixed	CR190 2700K CR190 3000K CR190 4000K	Spot 18° Medium 35°
		.01 .02 .03 .99	.927 .930 .940	.S .M
<b>Hedion 35</b>				
35 LED   1x 8.5W 700lm 43°	4.1903 4.1904	● ● ● ●	● ●	
35 Mounting Ring [required]		●	● ●	● ●
	9.1744			

Luminaire or accessory name

Nazwa oprawy lub akcesorium

**A** Choose base code (it includes driver type e.g. DALI) [4.1931]

Wybierz kod główny (zawiera rodzaj zasilacza i ściemniania)

Code for required and optional accessories

Kod dla akcesoriów wymaganych i opcjonalnych

**B** Add code for the desired color [.02]

Dodaj kod odpowiadający za wybrany kolor

**C** Add code for the desired CRI and colour temperature [.940]

Dodaj kod odpowiadający za wybrane CRI i temperaturę barwową

**D** Add code for the desired beam angle or cover type [.W]

Dodaj kod odpowiadający za wybrany kąt optyki bądź rodzaj przysłony

Combine: **A** + **B** + **C** + **D** and you will receive your order number: **4.1931.02.940.W** + required mounting frame: **4.1930.02**Połącz: **A** + **B** + **C** + **D** a otrzymasz dokładny kod zamówieniowy: **4.1931.02.940.W** + wymagana rama montażowa: **4.1930.02****New coding system** | Nowy system kodowania**Color markings** | Oznaczenia kolorów

The following instruction will help you quickly read the new coding system, it contains all the necessary steps to compose the catalog number.

Poniższa instrukcja pomoże Ci w szybkim odczytaniu nowego systemu kodowania, zawiera ona wszystkie niezbędne kroki umożliwiające skomponowanie numeru katalogowego.

- .01 – Alu / Grey \_ Alu / Szary
- .02 – Black \_ Czarny
- .03 – White \_ Biały
- .99 – Mixed \_ Mieszany
- .33 – White + Black \_ Biały + Czarny
- .88 – White + Gold \_ Biały + Złoty
- .56 – White + Orange \_ Biały + Pomarańcz.
- .44 – Black + White \_ Czarny + Biały
- .77 – Black + Gold \_ Czarny + Złoty
- .66 – Black + Orange \_ Czarny + Pomarańcz.

<b>Guarantee   Gwarancja</b>	<b>5 lat (60 miesięcy)</b> dla opraw z wbudowanym stałym źródłem LED. Oprawy na klasyczne źródła światła objęte są gwarancją <b>2 lata (24 miesiące)</b> . Więcej szczegółów w druku <b>Warunki Gwarancji</b> .	<b>5 years (60 months)</b> for luminaires with a built-in permanent LED source. Luminaires for classic light sources are covered by a <b>2 year warranty (24 months)</b> . More details in <b>Guarantee Terms</b> .
<b>Power Supply   Zasilanie</b>	Jeśli nie zaznaczono inaczej, produkty muszą być zasilane napięciem sieciowym <b>230V 50 I 60Hz</b> . Inny wymagany rodzaj zasilania jest opisany przy konkretnym modelu oprawy.	Unless otherwise stated, products must be supplied with <b>230V 50 I 60Hz</b> mains voltage. Other required type of power supply is described beside a specific luminaire model.
<b>Dimensions   Wymiary</b>	Wszystkie wymiary produktów i otworów montażowych podane są w milimetrach ( <b>mm</b> ) z tolerancją do 1mm.	All product dimensions and mounting holes are given in millimeters ( <b>mm</b> ) with a tolerance of up to 1mm.
<b>Driver   Zasilacz</b>	Wszystkie oprawy zasilane napięciem 230V są wyposażone w odpowiedni zasilacz lub pracują bezpośrednio na zasilaniu sieciowym. Dla opraw oznaczonych jako <b>12V</b> wymagany jest dodatkowy transformator.	All luminaires powered by 230V are equipped with an appropriate power supply or they work directly on the mains supply. A transformer is required for recessed luminaires marked as <b>12V</b> .
<b>Light Source   Źródło światła</b>	Wszystkie oprawy LED są dostarczane wraz ze zintegrowanym źródłem światła. Oprawy pracujące z klasycznymi źródłami są dostarczane bez źródeł światła, np: QPAR16, G9, T5, T5-R, QR-LP 111 itp. <b>Wszystkie podane wartości lumenów dotyczą źródła światła przy barwie 3000K i temp. otoczenia 25° jeśli nie podano inaczej.</b>	All LED luminaires are supplied with an integrated light source. Luminaires working with classic sources are supplied without light sources, e.g. QPAR16, G9, T5, T5-R, QR-LP 111 etc. <b>All given lumens are for the light source at ambient temp. 25° and color temp 3000K, unless otherwise stated.</b>
<b>LED Lifetime   Żywotność LED</b>	Wszystkie zintegrowane źródła światła LED charakteryzują się żywotnością <b>L90</b> na poziomie <b>50,000</b> godzin pracy.	All integrated LED light sources have a lifetime of <b>L90</b> at <b>50,000</b> operating hours.
<b>IP</b>	Jeśli nie zaznaczono inaczej, wszystkie oprawy charakteryzują się klasą szczelności na poziomie <b>IP20</b> .	Unless otherwise stated, all fittings are characterized by <b>IP20</b> level of ingress protection.
<b>SDCM</b>	Jeśli nie zaznaczono inaczej, wszystkie źródła światła LED charakteryzują się parametrem <b>SDCM</b> (stopnie MacAdam) na poziomie <b>3-step (CRI 98 - 2 step)</b>	Unless otherwise stated, all LED light sources are characterized by the <b>SDCM</b> parameter (MacAdam steps) at the <b>3-step level (CRI 98 - 2 step)</b>
<b>Colours   Kolory</b>	Jeśli nie zaznaczono inaczej, kolory oznaczono jako: Alu I Szary - RAL9006 Czarny - RAL9005 [głęboko matowy] Biały - RAL9003 [głęboko matowy] Pomarańczowy - RAL1007 „Złoty” piaskowy - RAL1036	Unless otherwise stated, the colors are marked as: Alu I Grey - RAL9006 Black - RAL9005 [deep matt] White - RAL9003 [deep matt] Orange - RAL1007 „Golden” sand - RAL1036
<b>Tolerance   Tolerancje</b>	Ze względu na proces produkcji diod LED, zastrzegamy utrzymanie tolerancji mocy opraw i strumienia światła na poziomie +-7%, oraz CRI +-1.	Due to the production process of LED diodes, we reserve the maintenance of tolerance in power and luminous flux at the level of +-7%, and CRI at +- 1.



*Nikt nie czyta wstępów. Wstawiliśmy ten akapit, żeby wszystko wyglądało... Czekaj, czekaj! Czy Ty go przypadkiem nie czytasz? Przyznam, że nie byłem na to przygotowany. Zróbmy tak, ja nie będę Cię zanudzał historią firmy czy naszą filozofią, a Ty przejdziesz od razu do tego, co najlepsze! Stoi? To przerzucić stronę - tam zaczyna się magia!*

*Nobody reads the introduction. We put this paragraph to make everything look just right ... Wait, wait! Do you actually read it? I admit that I was not prepared for it. OK, so let's do it this way, I'm not gonna bore you... with the history of the company or our philosophy, and you will go straight to the best! Deal? Then flip the page - magic starts there!*

*Współzałożyciel & Prezes Zarządu | Co-founder & CEO*  
**Tomasz Mucha**



# LMBRVA light thinking









# ***Auro***

*surface . recessed*

Auro Base NT 902 [33 White-Black]



Auro Base WP 601 [33 White-Black]



- Wide range of mounting possibilities (wall, ceiling, recessed)
- Asymmetric body & flat driverbox in NT version
- Main body (back) always black
- CRI90 3-step and **CR198** 2-step as a standard

Auro Base WP 902 [02 Black]



Auro Framed 902 [33 White-Black]



Auro Base NT 601 [33 White-Black]



Auro Base NT 901 [02 Black]



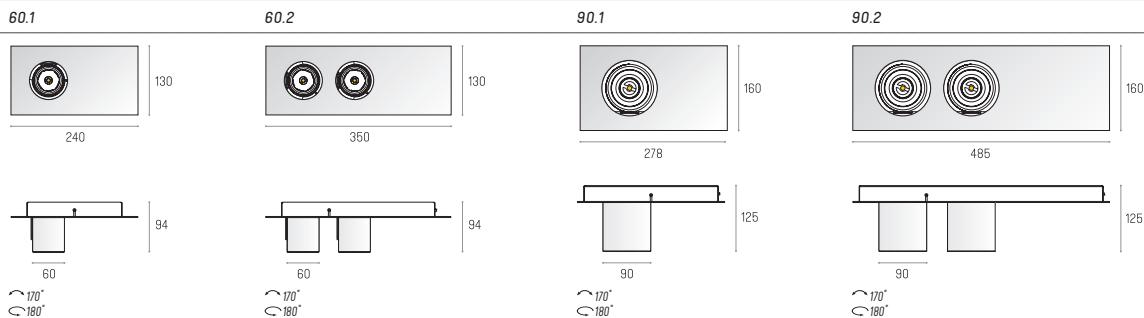
Model Order Codes Color CRI / Color temp. Optic

		On-Off	DALI	PhaseCut	CASAMBI Wireless	.01 Alu / Grey	.02 Black	.03 White	.99 Mixed	.33 White + Black	.66 Black + Orange	.927 CRI90 2700K	.930 CRI90 3000K	.940 CRI90 4000K	.S Spot 13°	.M Medium 32°	.W Wide 48°	.S Spot 10°	.M Medium 17°	.W Wide 41°
<b>Auro Base NT</b>																				
60x1	1x 5W 480lm	3.0554				●	●	●	●	●	●	●	●	●	●	●	●			
60x2	2x 5W 480lm	3.0555				●	●	●	●	●	●	●	●	●	●	●	●			
90x1	1x 12W 1200lm	3.0548	3.1417	3.1418		●	●	●	●	●	●	●	●	●	●	●		●	●	●
90x2	2x 12W 1200lm	3.0549	3.1420	3.1421		●	●	●	●	●	●	●	●	●	●	●		●	●	●
<b>Auro Base WP</b>																				
60x1	1x 5W 480lm	4.1164	4.1165	4.1166	4.2363	●	●	●	●	●	●	●	●	●	●	●	●			
60x2	2x 5W 480lm	4.1167	4.1168	4.1169	4.2364	●	●	●	●	●	●	●	●	●	●	●	●			
90x1	1x 12W 1200lm	4.1170	4.1171	4.1172	4.2365	●	●	●	●	●	●	●	●	●	●	●		●	●	●
90x2	2x 12W 1200lm	4.1173	4.1174	4.1175	4.2366	●	●	●	●	●	●	●	●	●	●	●		●	●	●
<b>Auro Framed</b>																				
60.1	1x 5W 480lm	4.0868	4.1423	4.1422		●	●	●	●	●	●	●	●	●	●	●	●			
60.2	2x 5W 480lm	4.0869	4.1425	4.1424		●	●	●	●	●	●	●	●	●	●	●	●			
90.1	1x 12W 1200lm	4.0870	4.1427	4.1426		●	●	●	●	●	●	●	●	●	●	●		●	●	●
90.2	2x 12W 1200lm	4.0871	4.1429	4.1428		●	●	●	●	●	●	●	●	●	●	●		●	●	●

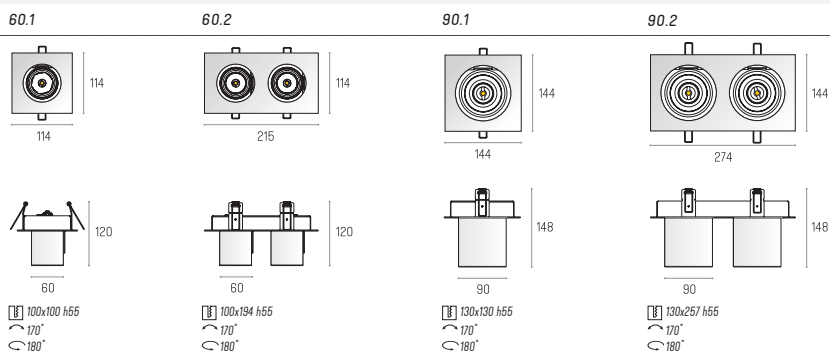
Lumen output from luminaire | Wartość lumenów z oprawy

● CRI98  
● CRI90

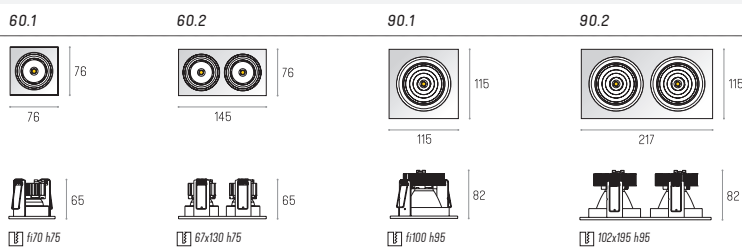
**Auro Base NT**



**Auro Base WP**



**Auro Framed**











**NV Architecture** · Private Apartment, Kazakhstan, Almaty · Photo: **Sergey Sanchenko**





# ***Basic***

*spotlight*



Basic Box XI edge.LED [03 White]



Basic Box X3 edge.LED [03 White]



Basic Box XI QR-LP 111 [03 White]

- Multifunctional (wall & surface)
- PhaseCut, Switch\_DALI & CASAMBI Wireless dimmable
- QR111 retrofit also available
- Side of driver box always black
- CRI90 3-step and **CRI98** 2-step as a standard
- **edge.LED** module replaceable without tools

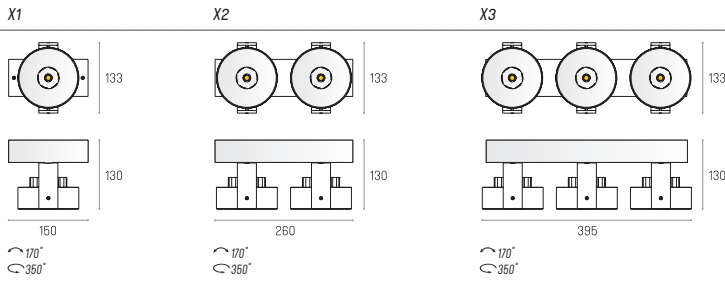
Model Order Codes Color CRI / Color temp. Optic

		— On—Off	— Switch_DALI	— PhaseCut	— CASAMBI Wireless	.01 — Alu / Grey	.02 — Black	.03 — White	.99 — Mixed	.927 — CR90 2700K	.930 — CR90 3000K	.940 — CR90 4000K	.S — Spot 13°	.M — Medium 32°	.W — Wide 48°	.S — Spot 18°	.M — Medium 35°	.W — Wide 55°	
<b>Basic Box QR111</b>																			
X1	1x 0-50W G53 QR-LP 111	2.0997				●	●	●	●										
X2	2x 0-50W G53 QR-LP 111	2.0998				●	●	●	●										
X3	3x 0-50W G53 QR-LP 111	2.0999				●	●	●	●										
<b>Basic Box edge.LED</b>																			
X1 edge.LED	1x 6.5W 600lm	2.0978	2.0981	2.0979	2.2367	●	●	●	●	●	●	●	●	●	●				
X2 edge.LED	2x 6.5W 600lm	2.0982	2.0985	2.0983	2.2368	●	●	●	●	●	●	●	●	●	●				
X3 edge.LED	3x 6.5W 600lm	2.0986	2.0989	2.0987	2.2369	●	●	●	●	●	●	●	●	●	●				
X1 edge.LED	1x 12W 1200lm	2.1068	2.1071	2.1069	2.2370	●	●	●	●	●	●	●				●	●	●	
X2 edge.LED	2x 12W 1200lm	2.1072	2.1075	2.1073	2.2371	●	●	●	●	●	●	●				●	●	●	
X3 edge.LED	3x 12W 1200lm	2.1076	2.1079	2.1077	2.2372	●	●	●	●	●	●	●				●	●	●	

Lumen output from luminaire | Wartość lumenów z oprawy

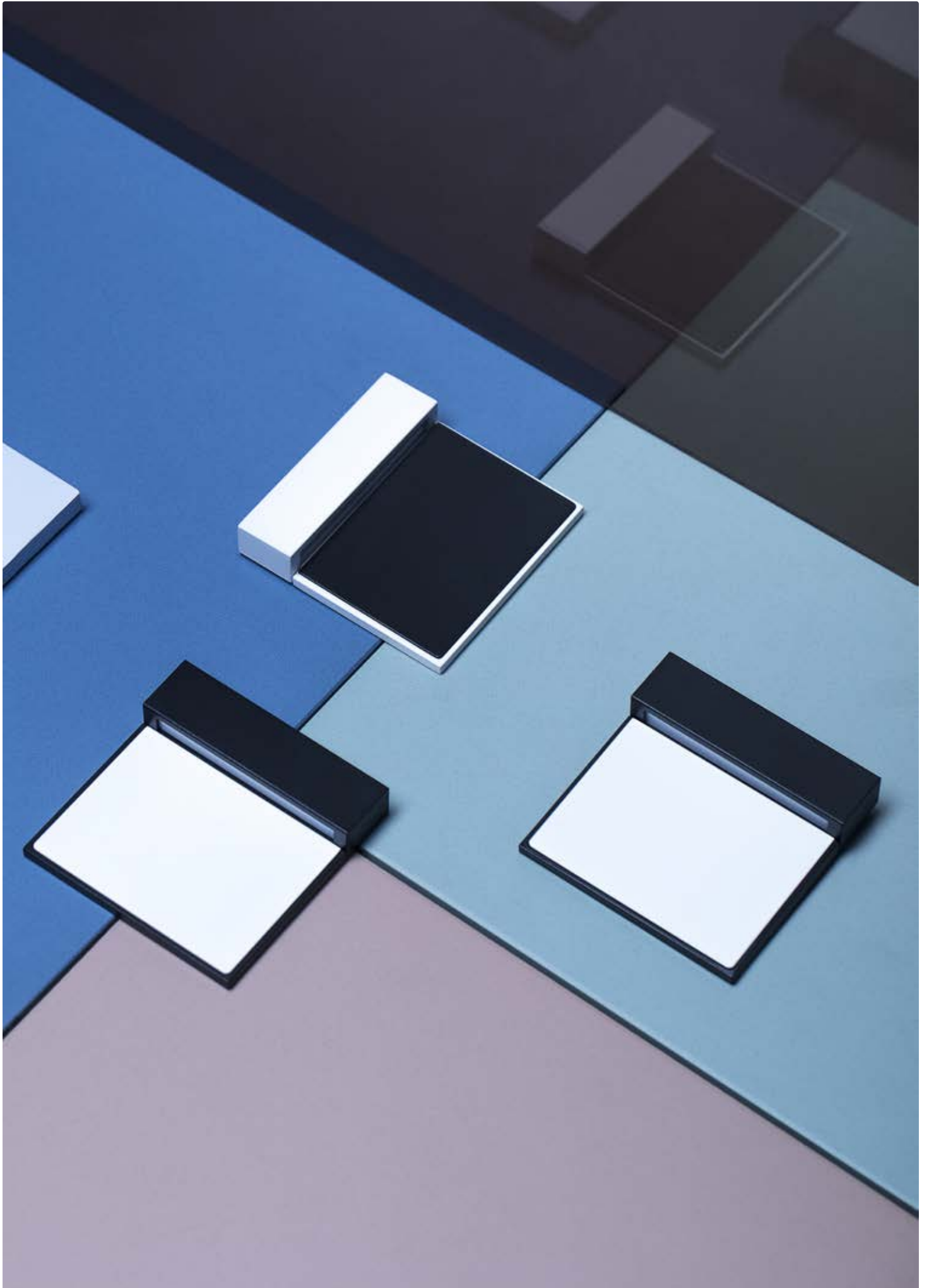
● CRI98  
● CRI90

**Basic Box**



Basic Box X2 edge.LED





*in cooperation with Light Effect*

***Bold***

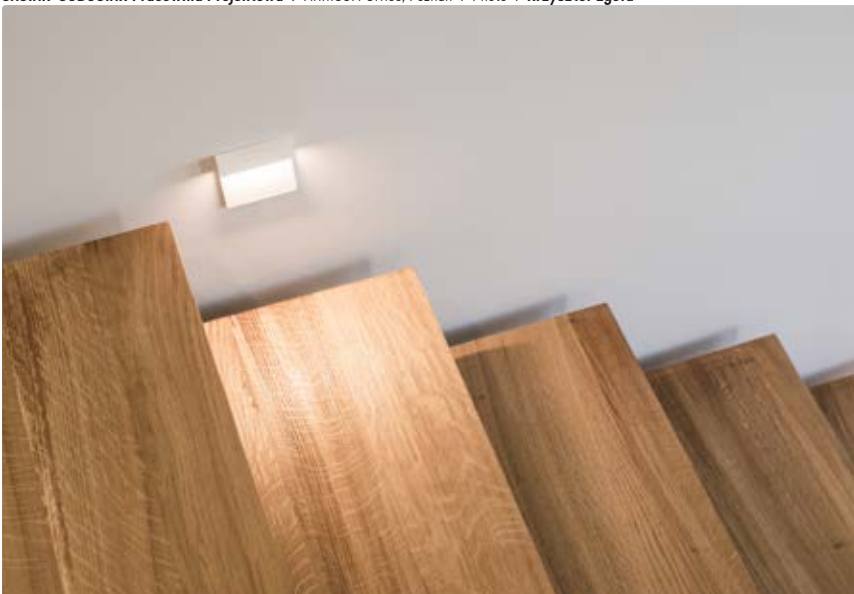
*wall*

Bod 1.0 (M / 98 Model)



- Orientation | step light
- Ultra flat body (13mm)
- **Magnetic** front coverplate
- Simplified mounting on classic electrical mounting box (dia 60) or directly on G/K surface  
CRI90 3-step as a standard

SASIAK-SOBUSIAK Pracownia Projektowa . MARICOM Office, Poznań . Photo . Krzysztof Zgola



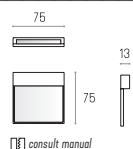


Model	Order Codes	Color
	On-Off Accessories	Alu / Grey Black White Mixed .01 .02 .03 .99
<b>Bold</b>		
Bold Q 1.0 KN   1x 2W 90lm CRI90 3000K	4.1912	● ● ● ●
1 Mounting box [optional]	9.1769	

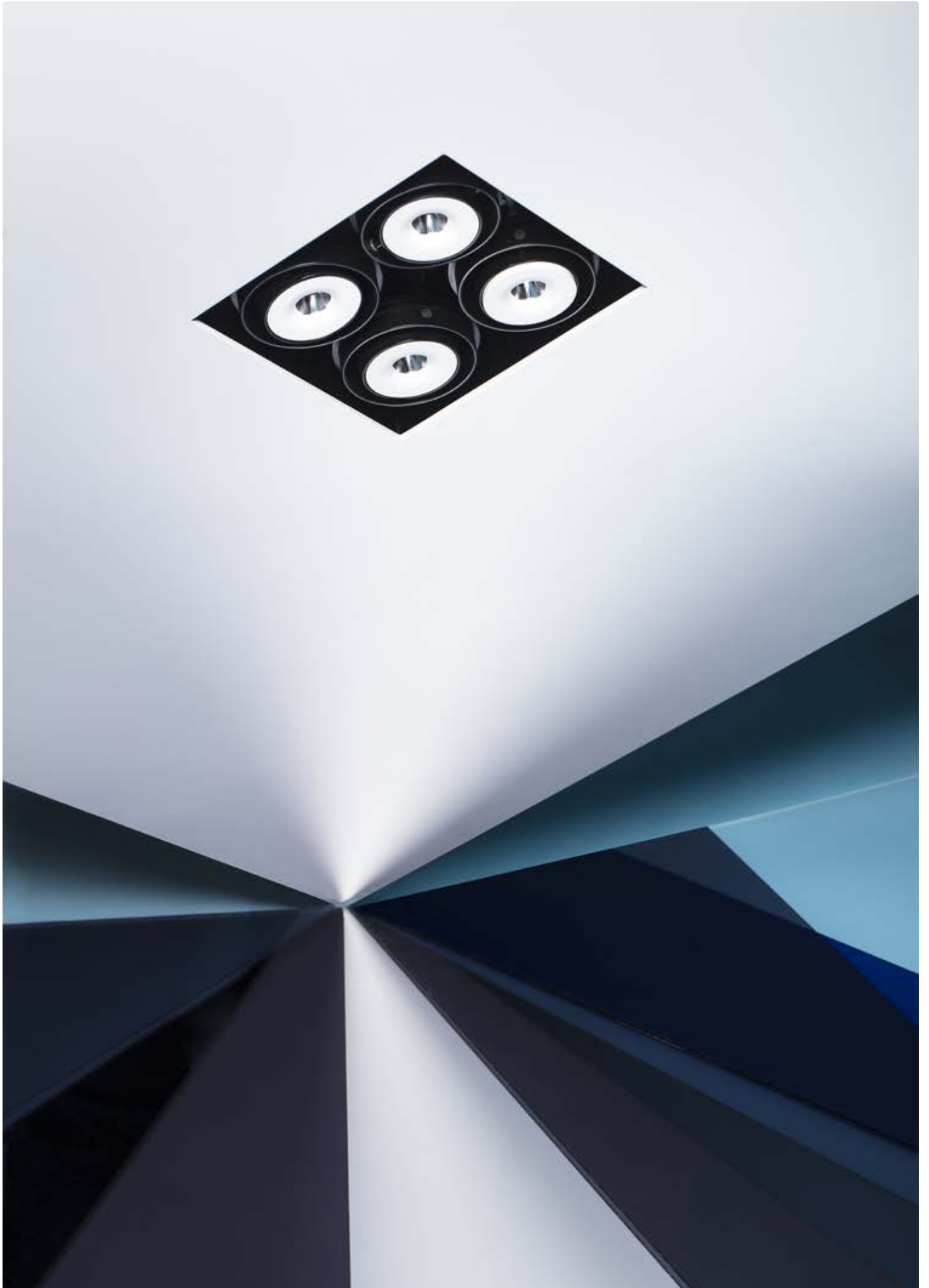
Lumen output from luminaire | Wartość lumenów z oprawy

### Bold

Q 1.0 KN



Light Effect · Private house, Poznań · Photo · Krzysztof Zgala



# ***Cryptos***

*suspended*



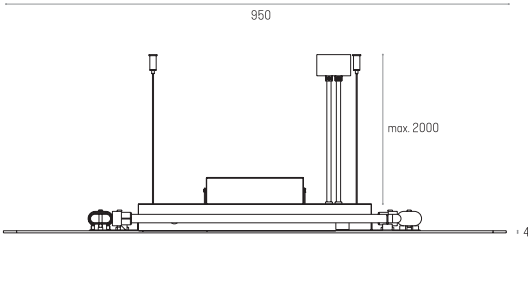
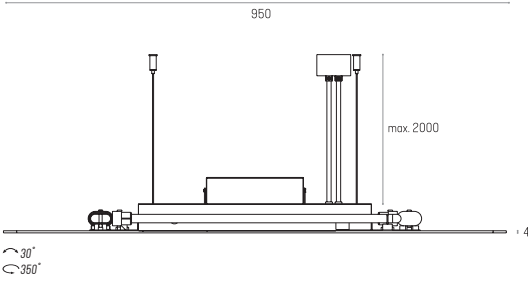
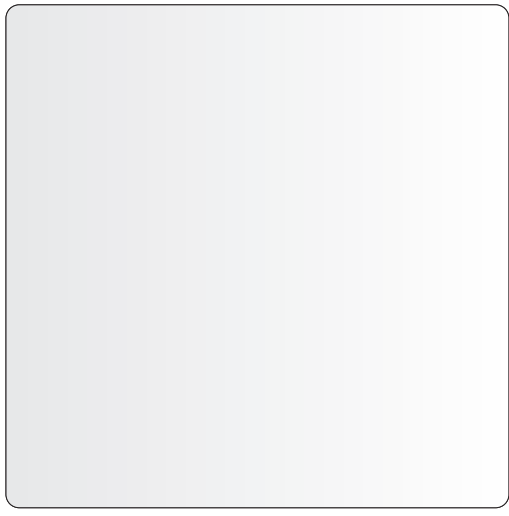
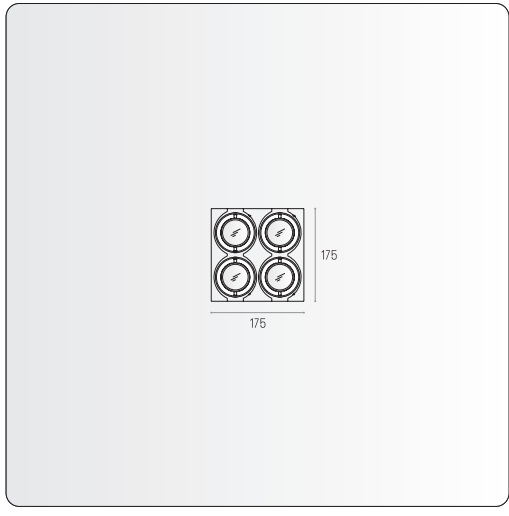
- Up | Down light luminaire
- Ideal for large area public spaces
- Two power circuits
- Adjustable GU10 light sources

Model	Order Codes	Color
	On-Off	Alu / Grey Black White Mixed
		.01 .02 .03 .99
<b>Cryptos TC-L + GU10</b>		
4x 55W 2G11 TC-L 4x 50W GU10 QPAR16	5.0301	• • • •
<b>Cryptos BLANK TC-L</b>		
4x 55W 2G11 TC-L	5.0300	• • • •

**Cryptos**

TC-L + GU10

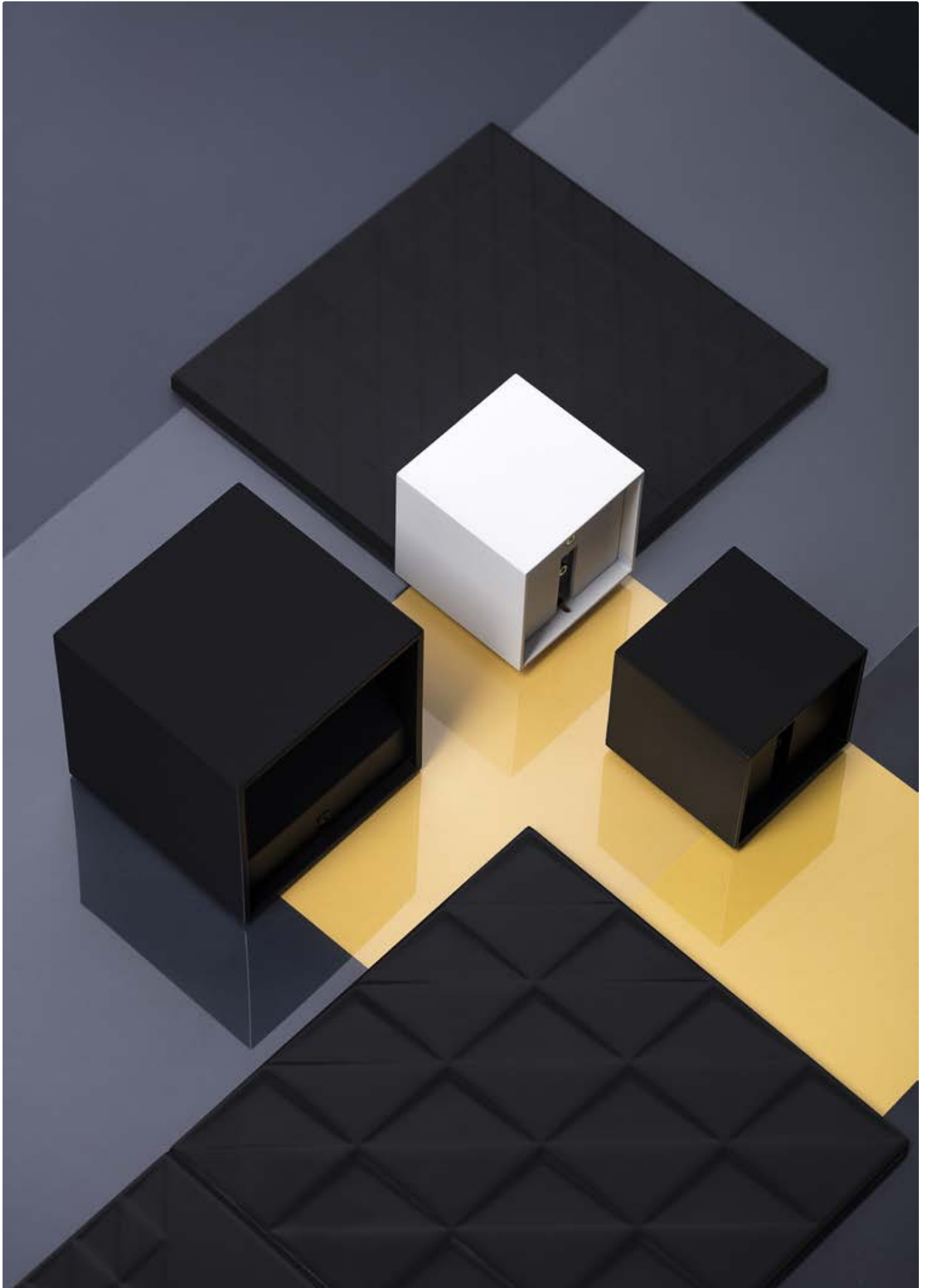
Blank



Cryptos TC-L + GU10 [39 Mixed]









# ***Cuba***

*wall*

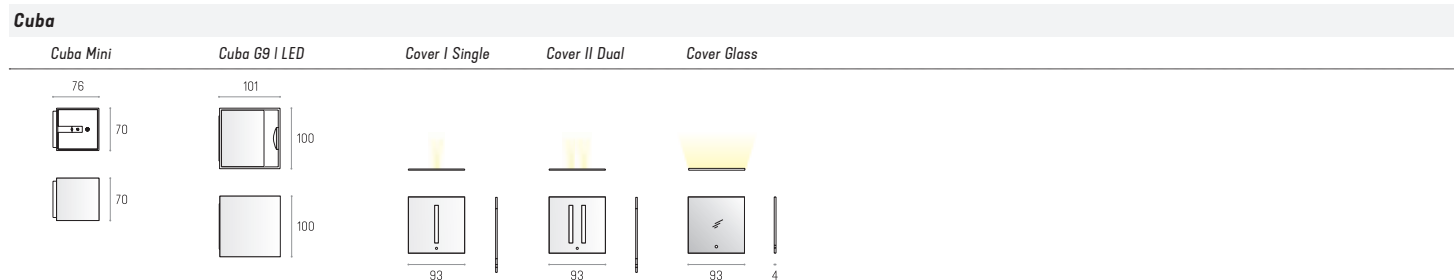


- Up | Down light wall luminaire
- Two sizes 100mm & 75mm
- Additional covers for CUBA G9 & LED version

Model Order Codes Color

		On-Off —	Accessories —	Alu / Grey —	Black —	White —	Mixed —
				.01	.02	.03	.99
<b>Cuba</b>							
Cuba KN G9	1x 40W G9 QT14	1.0006	1	●	●	●	●
Cuba KN LED	5W 3000K CRI80	1.0598	1	●	●	●	●
1	Cover I SINGLE* [ optional ]		9.0193	●	●	●	●
1	Cover II DUAL* [ optional ]		9.0194	●	●	●	●
1	Cover Glass [ sandblasted]* [ optional ]		9.0195				
<b>Cuba Mini</b>							
Cuba Mini LED	2x 2W 3000K CRI90	1.0290		●	●	●	●

\*Maksymalnie dwie przelony w jednej oprawie (1 w górę i 1 w dół); \*Max. two covers in one luminaire (1 up & 1 down)



MONOstudio . Showroom, Kraków . Photo . Krzysztof Zgola



# ***Deco***

*spotlight . track spotlight*



- Multifunctionality in 2 sizes
- DECO 1 only for dia 50 GU10 light sources
- Both versions can be used as a wall luminaire
- Available for 3 phase Track
- CRI90 3-step and CRI98 2-step as a standard














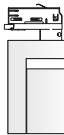
Model Order Codes Color CRI / Color temp. Optic

		On-Off	DALI	PhaseCut	.01 Alu / Grey	.02 Black	.03 White	.99 Mixed	.927 CRI98 2700K	.930 CRI98 3000K	.940 CRI98 4000K	.S Spot 10°	.M Medium 17°	.W Wide 41°
<b>Deco 1</b>														
Deco 1	1x 50W GU10 QPAR16	2.0119			●	●	●	●						
Deco 1 Adaptor 3F	1x 50W GU10 QPAR16	7.0127			●	●	●	●						
Deco 1 Long	1x 50W GU10 QPAR16	2.0225			●	●	●	●						
Deco 1 Long Adaptor 3F	1x 50W GU10 QPAR16	7.0226			●	●	●	●						
<b>Deco 2</b>														
Deco 2 LED	1x 12W 1200lm	2.0432	2.1430	2.1432	●	●	●	●	●	●	●	●	●	●
Deco 2 LED Adaptor 3F	1x 12W 1200lm	7.0433	7.1431	7.1433	●	●	●	●	●	●	●	●	●	●

Lumen output from luminaire | Wartość lumenów z oprawy

● CRI98

**Deco**

Deco 1	Deco 1 AD 3F	Deco 1 Long	Deco 1 Long AD 3F	Deco 2	Deco 2 AD 3F
 60	 60	 60	 60	 80	 80
 99	 151	 123	 174	 156	 208
82 170° 350°	82 170° 350°	82 170° 350°	82 170° 350°	111 170° 350°	111 170° 350°





MYKHAIKHA Architectural Bureau . Apartment Liv . Photo . Alexander Angelovskiy







ILIARD Architecture . Hotel Bristol, Rzeszów . Photo . Krzysztof Zgoda



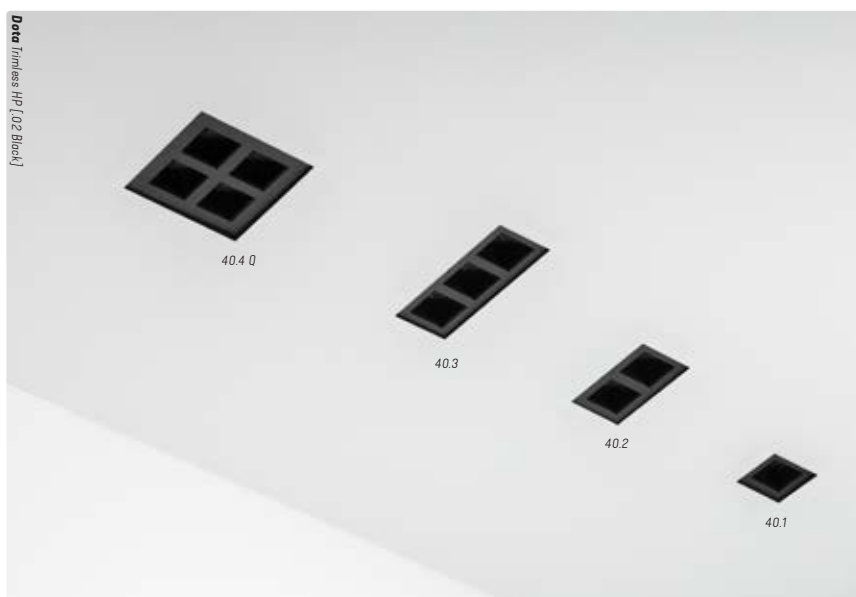
MONOstudio . Showroom, Kraków . Photo . Krzysztof Zgoda





# ***Dota***

*surface . suspended . recessed*



- Straight forward luminaires
- Recessed version equipped with best in class **CREE Xtra High Power LED** light source
- Magnetic [**tool-free**] mounting of main light source & body
- No visible mounting elements
- Asymmetrical (oval) optic available for every version
- Very low glare **UGR<19** 'dark light' optics
- **CRI90** 3-step as a standard

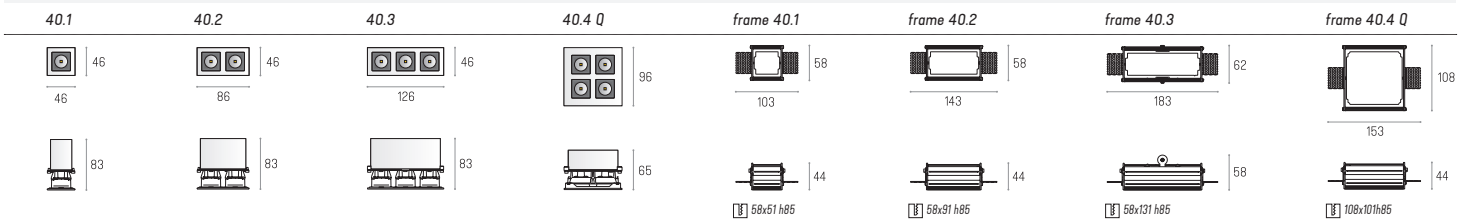


Model Order Codes Color CRI / Color temp. Optic

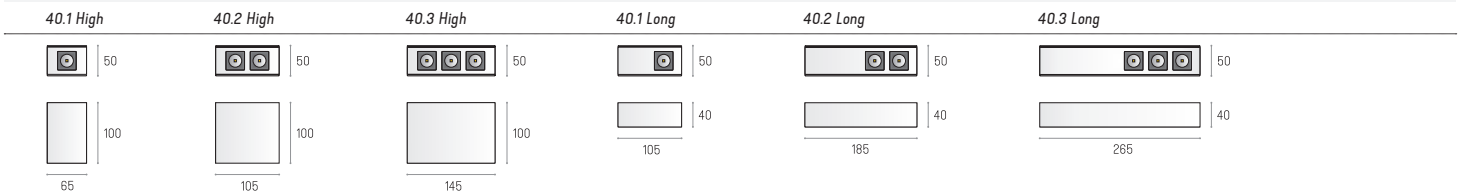
		On-Off	Switch-DALI	PhaseCut	Accessories	Alu / Grey	Black	White	Mixed	White + Black	CR90 2700K	CR90 3000K	CR90 4000K	Spot 19°	Wide 45°	Oval 42°+20°
		—	—	—	—	.01	.02	.03	.99	.33	.927	.930	.940	.S	.M	.W
<b>Dota Trimless HP</b>																
40.1	1x 8.5W 700lm	4.1931	4.1932	4.1933	1	•	•	•	•		•	•		•	•	•
40.2	2x 8.5W 700lm	4.1935	4.1936	4.1937	2	•	•	•	•		•	•		•	•	•
40.3	3x 8.5W 700lm	4.1939	4.1940	4.1941	3	•	•	•	•		•	•		•	•	•
40.4 Q	4x 6W 550lm	4.1943	4.1944	4.1945	4	•	•	•	•		•	•		•	•	•
1	40.1 Mounting Frame ( required )				4.1930	•	•	•	•							
2	40.2 Mounting Frame ( required )				4.1934	•	•	•	•							
3	40.3 Mounting Frame ( required )				4.1938	•	•	•	•							
4	40.4 Q Mounting Frame ( required )				4.1942	•	•	•	•							
<b>Dota NT High</b>																
40.1 High	1x 4.5W 400lm	3.2077				•	•	•	•	•	•	•		•	•	•
40.2 High	2x 4.5W 400lm	3.2079				•	•	•	•	•	•	•		•	•	•
40.3 High	3x 4.5W 400lm	3.2081				•	•	•	•	•	•	•		•	•	•
<b>Dota NT Long</b>																
40.1 Long	1x 4.5W 400lm	3.2185				•	•	•	•	•	•	•		•	•	•
40.2 Long	2x 4.5W 400lm	3.2186				•	•	•	•	•	•	•		•	•	•
40.3 Long	3x 4.5W 400lm	3.2187				•	•	•	•	•	•	•		•	•	•
<b>Dota Linear NT</b>																
NT 900	4x 4.5W 400lm	3.2050	3.2051			•	•	•	•	•	•	•		•	•	•
NT 1200	6x 4.5W 400lm	3.2053	3.2054			•	•	•	•	•	•	•		•	•	•
NT 1620	6x 4.5W 400lm	3.2056	3.2057			•	•	•	•	•	•	•		•	•	•
<b>Dota Linear ZW</b>																
ZW 900	4x 4.5W 400lm	5.2068	5.2069			•	•	•	•	•	•	•		•	•	•
ZW 1200	6x 4.5W 400lm	5.2071	5.2072			•	•	•	•	•	•	•		•	•	•
ZW 1620	6x 4.5W 400lm	5.2074	5.2075			•	•	•	•	•	•	•		•	•	•
<b>Dota Linear WP</b>																
WP 900	4x 4.5W 400lm	4.2059	4.2060			•	•	•	•		•	•		•	•	•
WP 1200	6x 4.5W 400lm	4.2062	4.2063			•	•	•	•		•	•		•	•	•
WP 1620	6x 4.5W 400lm	4.2065	4.2066			•	•	•	•		•	•		•	•	•
WP 900	Mounting Frame ( required )				4.2047	•	•	•	•							
WP 1200	Mounting Frame ( required )				4.2048	•	•	•	•							
WP 1620	Mounting Frame ( required )				4.2049	•	•	•	•							

Lumen output from luminaire | Wartość lumenów z oprawy

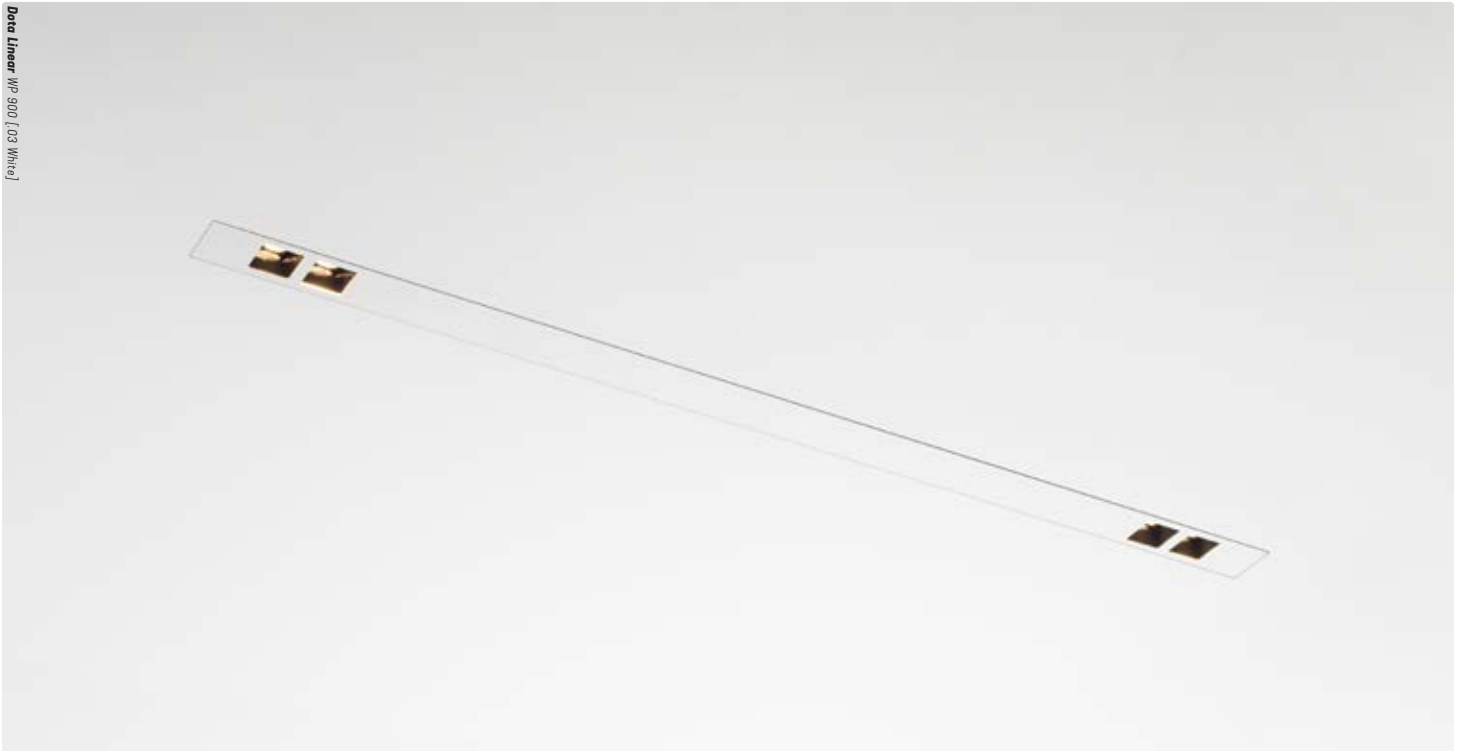
**Dota Trimless HP** **Mounting Frames Dota WP Trimless ( required )**



**Dota NT**



Data Linear MP 900 [03 White]



Data Linear NT 900 [02 Black]



- Linear versions of Dota family
- Magnetic [**tool-free**] mounting of inner body
- No visible mounting elements
- Asymmetrical [oval] optic available for every version
- Very low glare **UGR<19** 'dark light' optics
- Very low profile (40mm height)
- **CRI90** 3-step as a standard

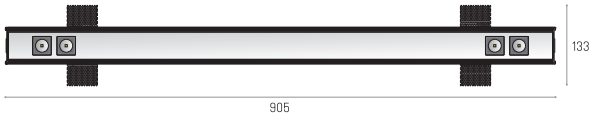
Data Linear ZN 1620 [03 White-Black]





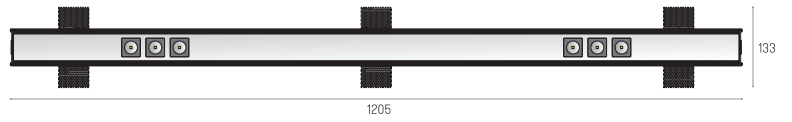
**Dota Linear WP**

WP 900



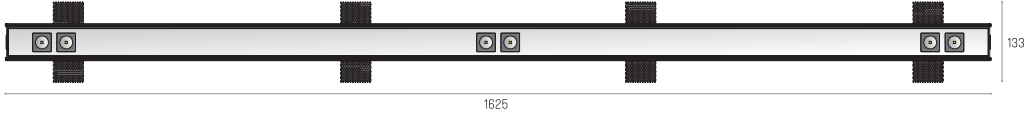
62x911 h33

WP 1200



63x1211 h33

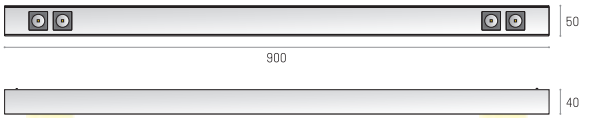
WP 1620



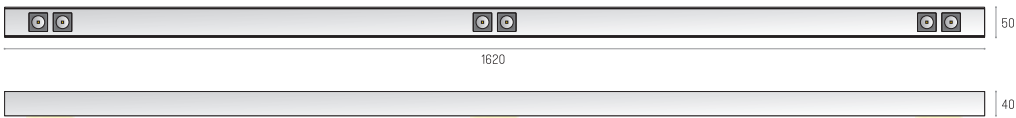
63x1631 h33

**Dota Linear NT**

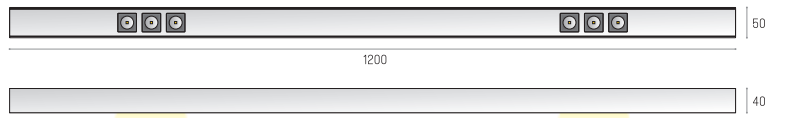
NT 900



NT 1620

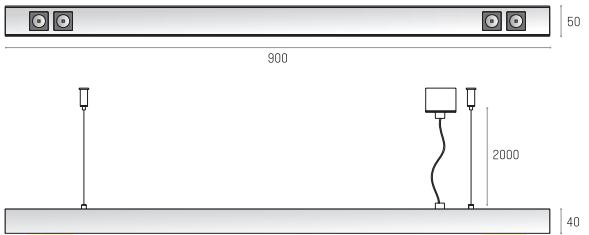


NT 1200



**Dota Linear ZW**

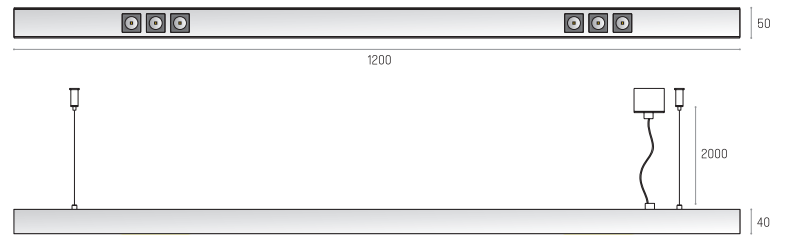
ZW 900



ZW 1620



ZW 1200







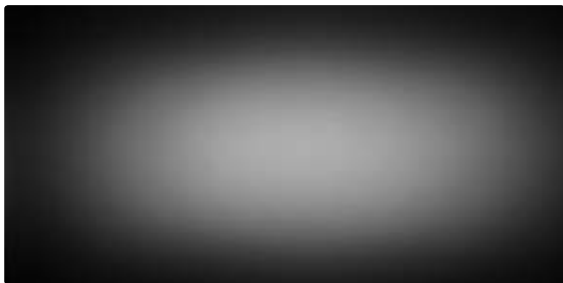
**Data Linear** 21W 1520 [33 White-Black]



**Data M1** 40.3 High [33 White-Black]



**Data M1** 40.1 Long [33 White-Black]







**Dotz Trimless HP 401** [02 Black]



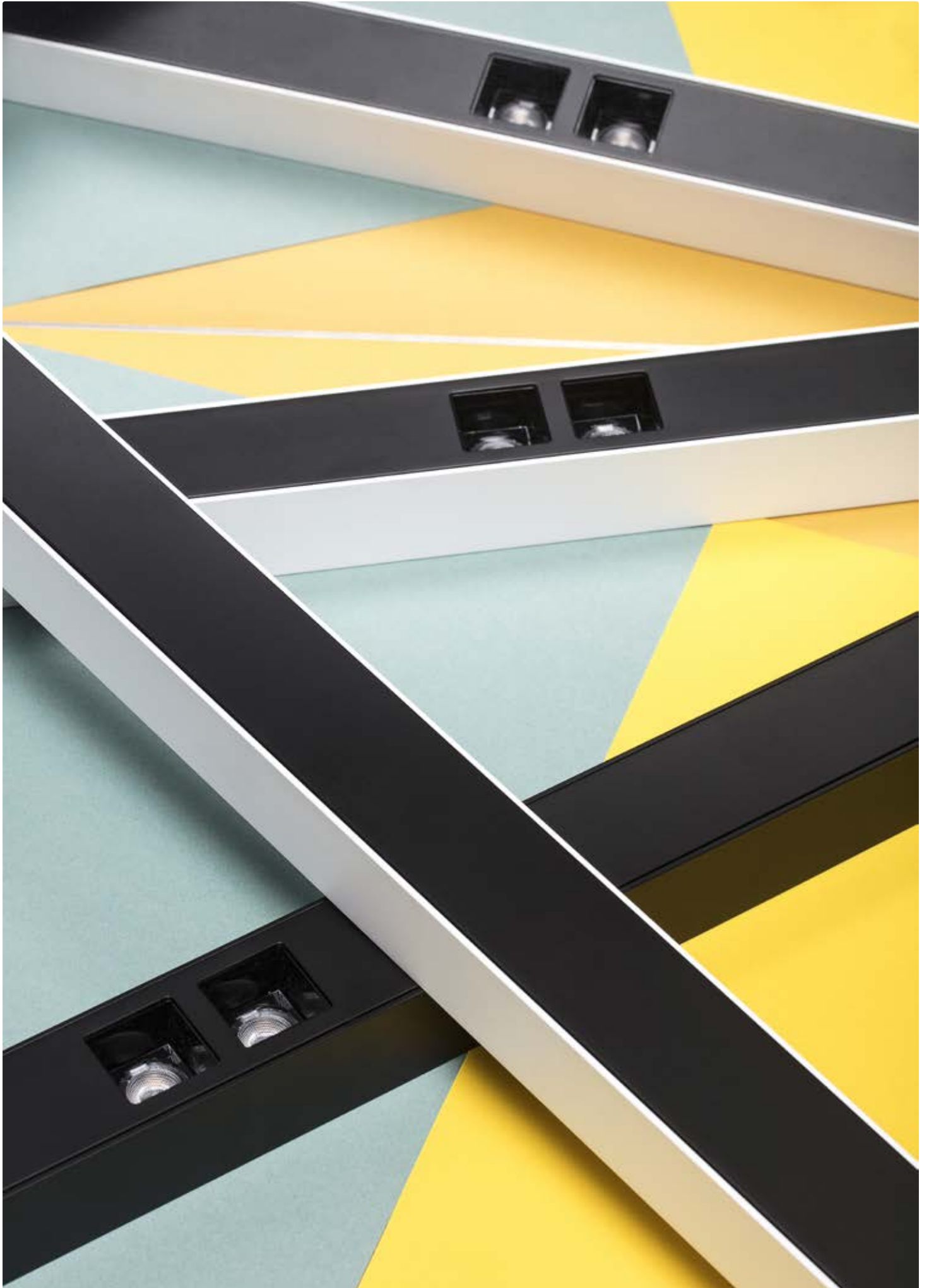
**Dotz Trimless HP 403** [03 Black]



**Dotz Trimless HP 401** [03 Black]



**Dotz NT 401 High** [33 White-Black]

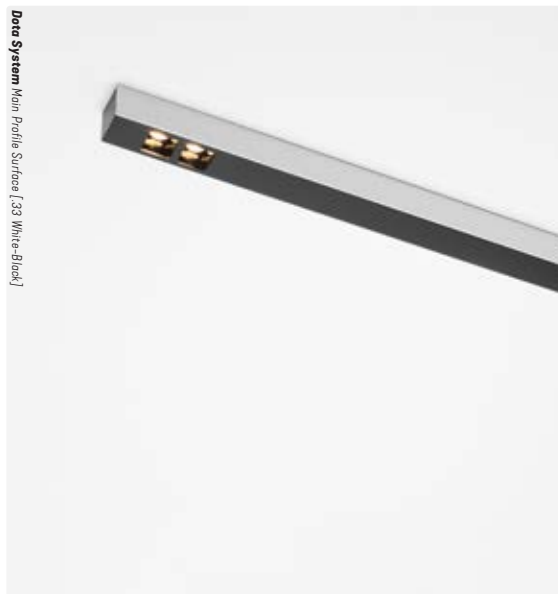


# ***Dota System***

*surface . suspended . recessed*



Data System Main Profile Recessed (C3 White)



Data System Main Profile Surface (C3 White-Black)



Data System Main Profile Suspended (C3 White-Black)



Light Module X1



Light Module X2



Light Module X3



Light Module X4

- System solution based on Dota Linear luminaires
- Always custom-made
- Magnetic [**tool-free**] mounting of inner body
- No visible mounting elements
- Asymmetrical (oval) optic available for every version
- Very low glare **UGR-19** 'dark light' optics
- Very low profile (40mm height)
- **Requires** detailed drawing from client
- Angle connections available on request
- **CRI90** 3-step as a standard

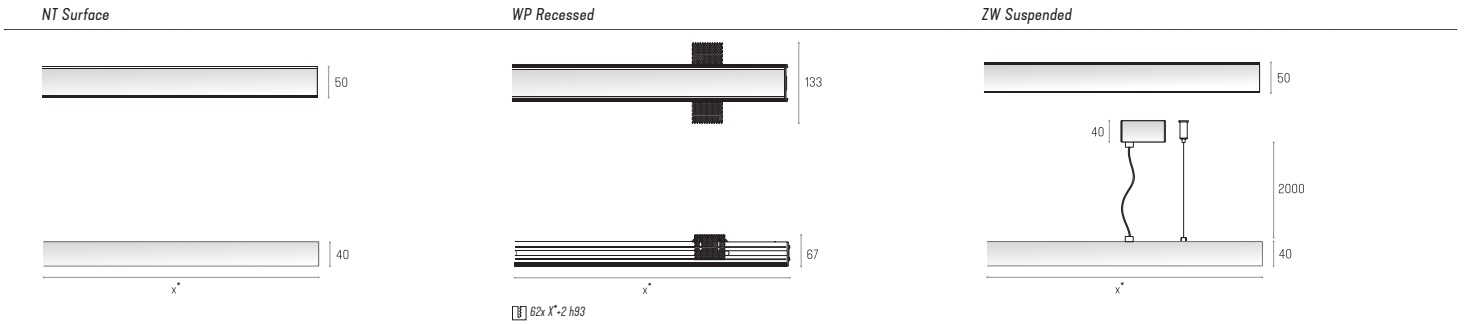


Model Order Codes Color CRI / Color temp. Optic

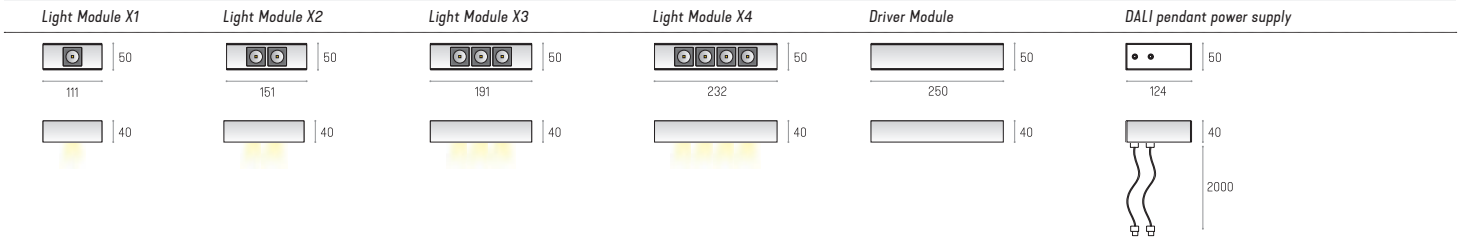
	Main Components	On-Off	Switch_DALI	PhaseOut	.01 Alu / Grey	.02 Black	.03 White	.99 Mixed	.33 White + Black	.927 CRI90 2700K	.930 CRI90 3000K	.940 CRI90 4000K	.S Spot 19°	.M Wide 45°	.W Oval 42°+20°
<b>Dota System Main Profiles</b>															
Main Profile NT (ceiling)	6.2346				●	●	●	●	●						
Main Profile WP (recessed)	6.2347				●	●	●	●	●						
Main Profile ZW (suspended)	6.2348				●	●	●	●	●						
<b>Dota System Light Modules</b>															
Light Module X1   1x 4.5W 400lm	6.2349				●	●	●	●	●		●	●	●	●	●
Light Module X2   2x 4.5W 400lm	6.2350				●	●	●	●	●		●	●	●	●	●
Light Module X3   3x 4.5W 400lm	6.2351				●	●	●	●	●		●	●	●	●	●
Light Module X4   4x 4.5W 400lm	6.2352				●	●	●	●	●		●	●	●	●	●
<b>Dota System Driver Modules</b>															
Driver for Modules for X1 / X2		6.2353	6.2356	6.2354	●	●	●	●	●						
Driver for Modules for X3 / X4		6.2355	6.2356		●	●	●	●	●						
Pendant Power Supply [DALI 5x 0,5]	6.2114				●	●	●	●	●						

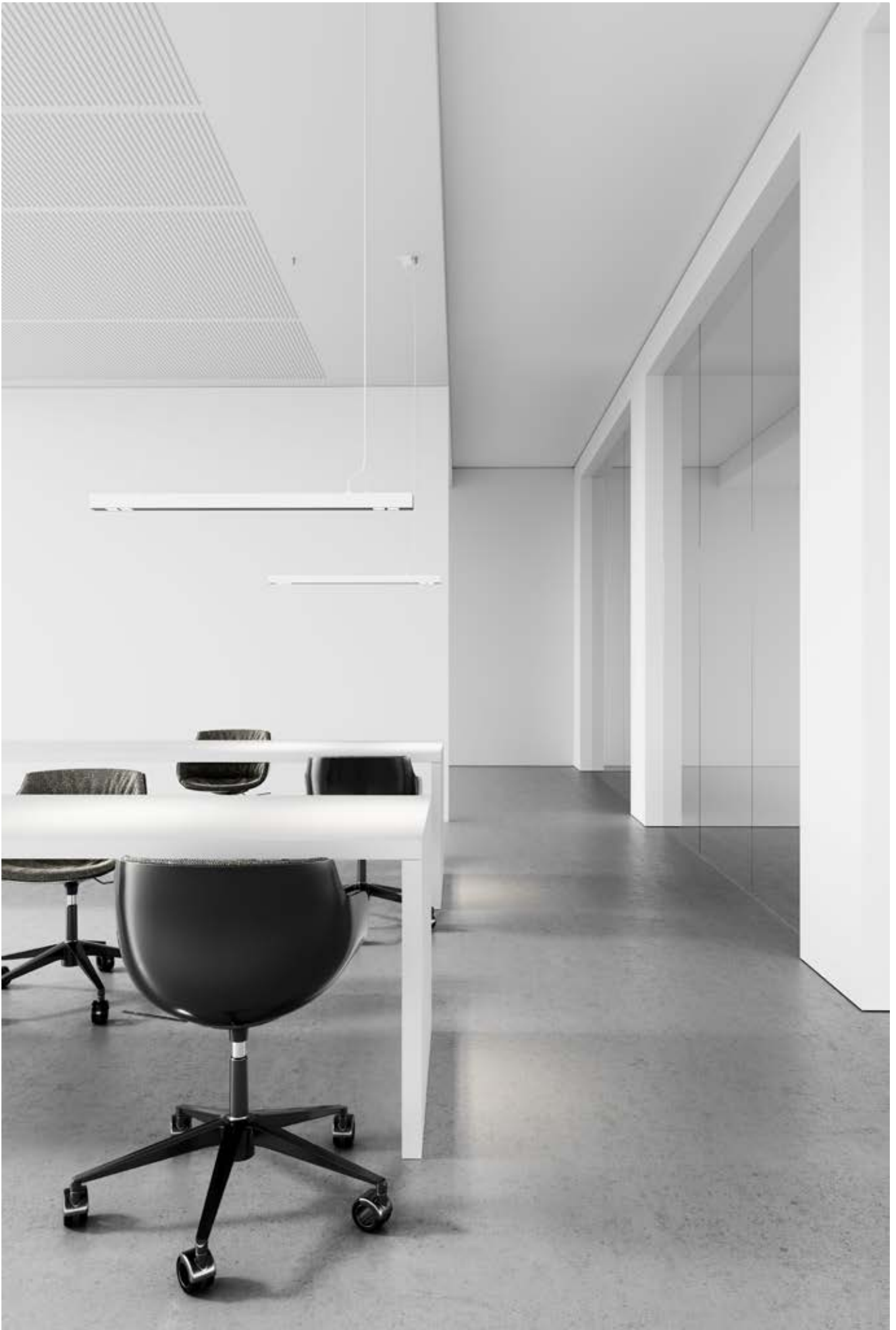
Lumen output from luminaire | Wartość lumenów z oprawy

**Dota System - Profiles**



**Dota System - Modules**









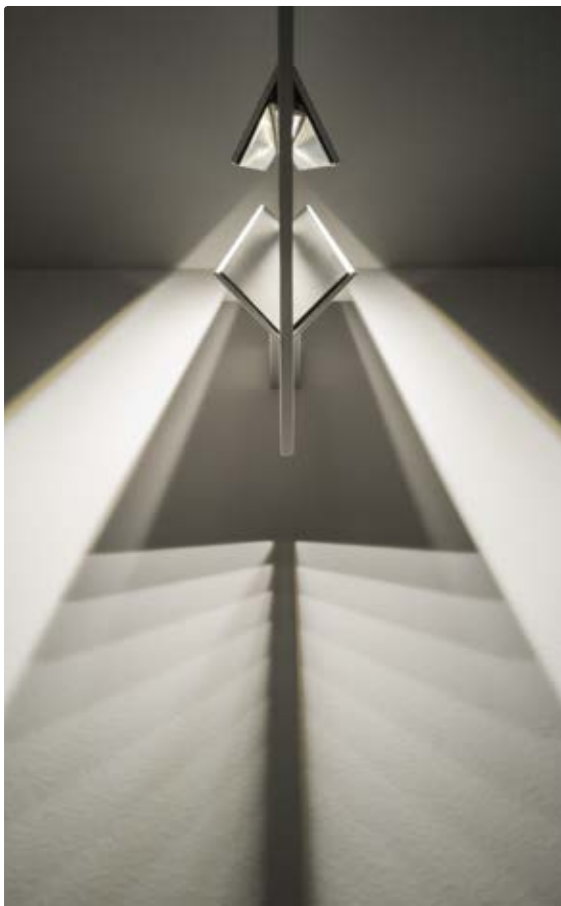
*designed by Wojciech Stanczykiewicz*

***Fossil***

*wall*



Fossil Black In [03 White]



Fossil Black In [03 White]

- Designed by **Wojciech Stanczykiewicz**
- Made to cast overlaying shadows on wall or ceiling
- Ultra thin main body made sheet of aluminium (4mm)
- Can be mounted vertically & horizontally, both on wall or ceiling.

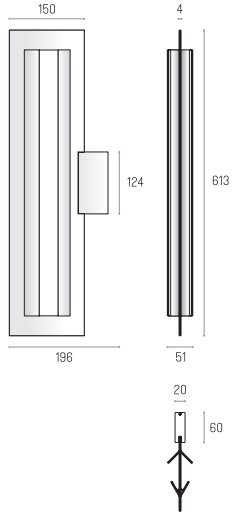
Model Order Codes Color

	On-Off		Alu / Grey   .01	Black   .02	White   .03	Mixed   .99
<b>Fossil</b>						
Black In   1x 6W 400lm CRI80 3000K	1.1104		●	●	●	●
White In   1x 6W 400lm CRI80 3000K	1.1105		●	●	●	●

Lumen output from luminaire | Wartość lumenów z oprawy

**Fossil**

Fossil



Fossil Black In [03 White]



11.10

20.10



Fossil Block In [03 White]





# ***Fraam***

*surface . suspended . track*



- Wide range of ceiling mounted luminaires (some of them wall-mounted also)
- Ideal for connecting in groups
- 3 main models
  - UP** - uplight
  - DOWN** - downlight
- **MOVE** - with adjustable body (on 3 Phase Track also)
- Suspension kits available for every size of Up & Down ver.
- Two covers for Down version
  - DF** - classic diffused opal
  - MP** - microprismatic satin
- CRI90 3-step as a standard



From Move W/ G2 3 6 [02 Black]



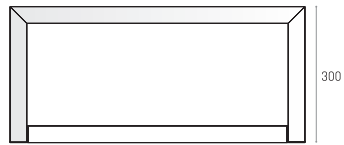
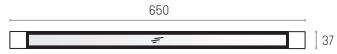
From Move W/ G2 3 6 [02 Black]



From Up W/ G2 3 3 [02 Black]

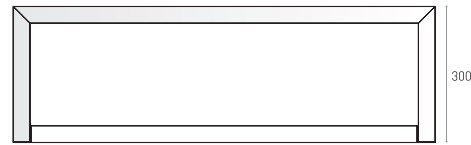
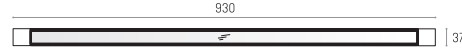
**Fraam Move**

NT 3.6



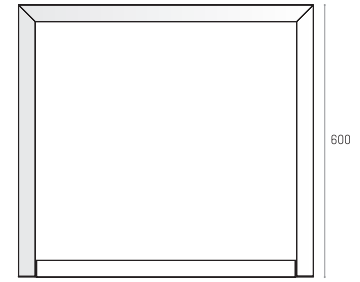
↺ 200°

NT 3.9



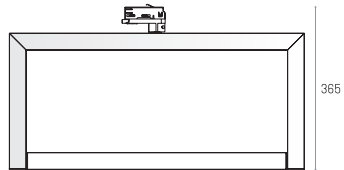
↺ 200°

NT 6.6



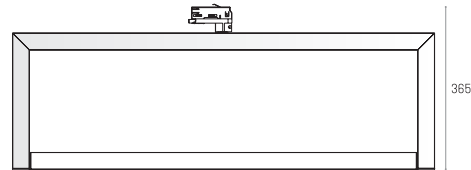
↺ 200°

AD 3F 3.6



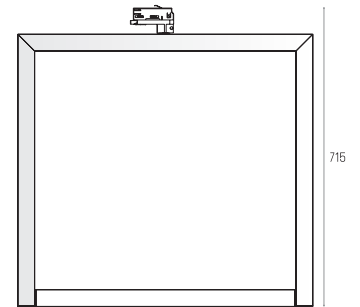
↺ 200°  
↻ 350°

AD 3F 3.9



↺ 200°  
↻ 350°

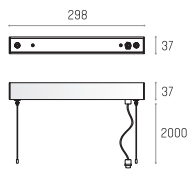
AD 3F 6.6



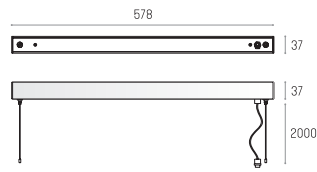
↺ 200°  
↻ 350°

**Fraam Down | Up Suspension Set**

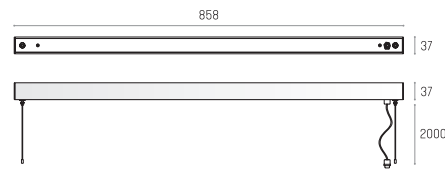
x.3



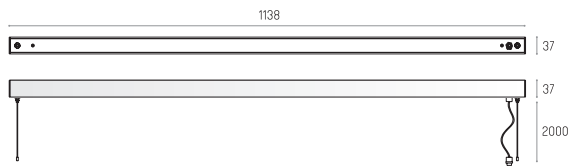
x.6



x.9



x.12



Model

Order Codes

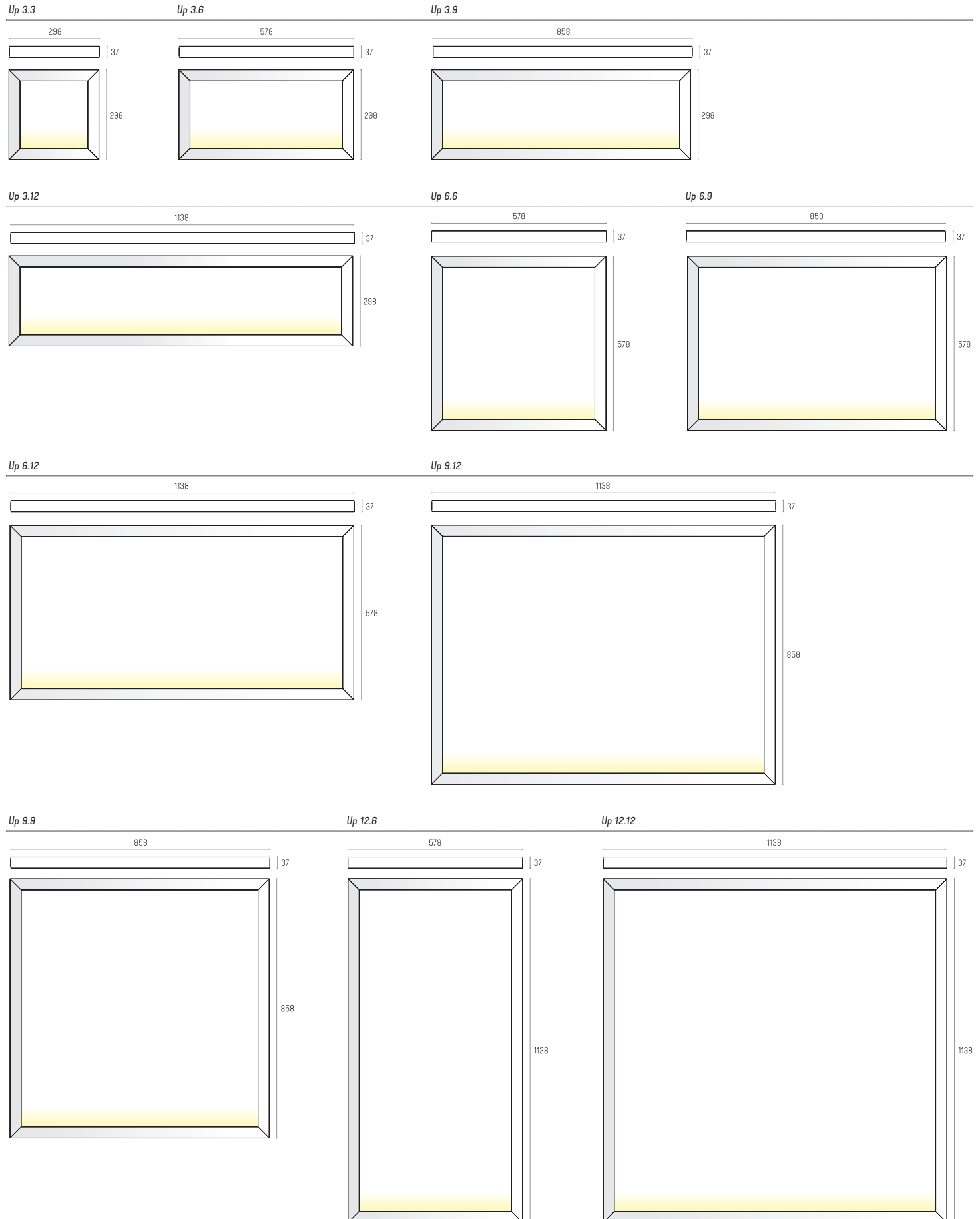
Color

CRI / Color temp.

Optic

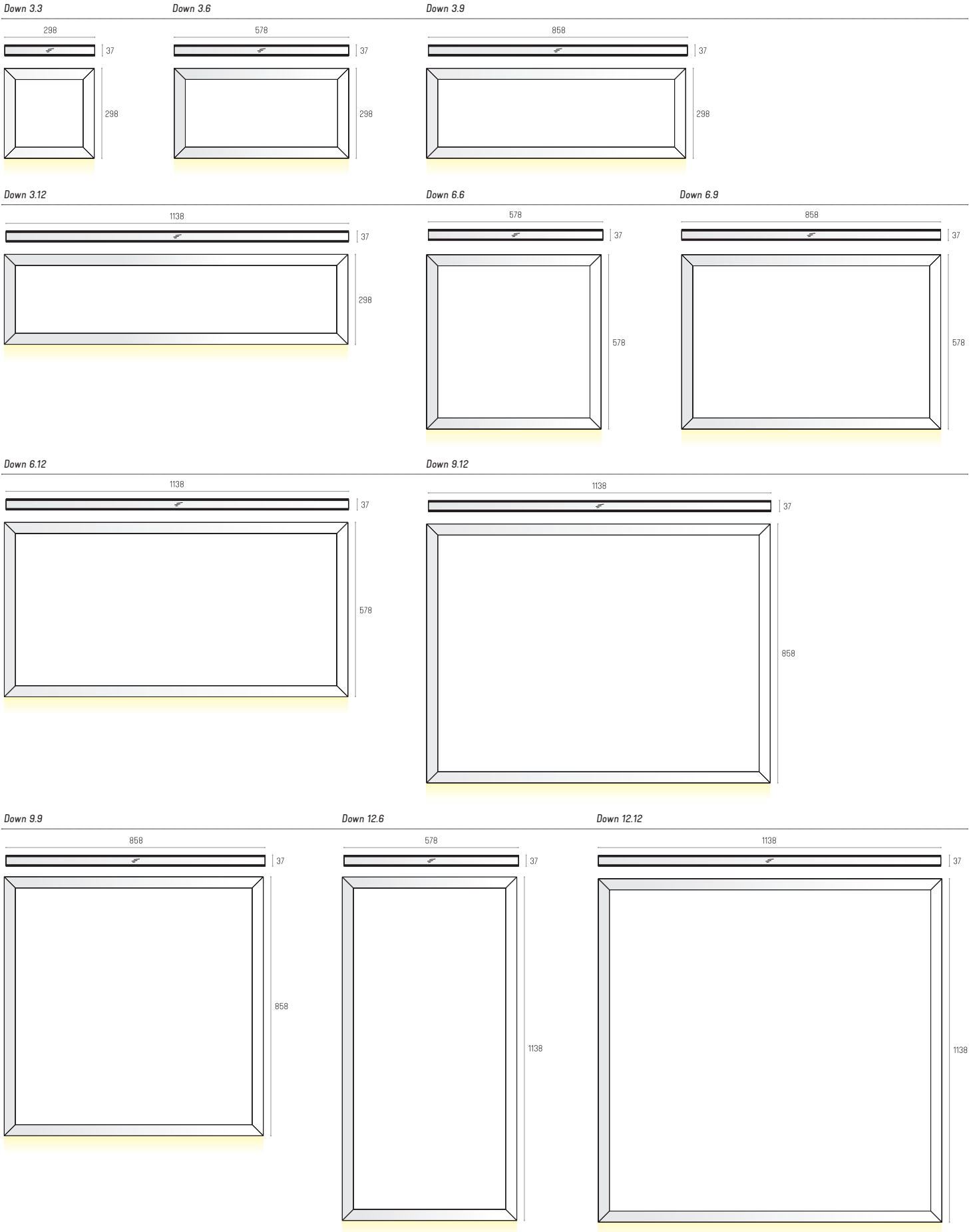
		On-Off —	Switch_DALI —	Accessories —	Alu / Grey .01	Black .02	White .03	Mixed .99	CRI90 2700K .927	CRI90 3000K .930	CRI90 4000K .940	Diffused .DF	Microprismatic .MP
<b>Fraam Down G2</b>													
Down 3.3	14W 1700lm	3.1340	3.1341	1	•	•	•	•		•	•	•	•
Down 3.6	26W 3400lm	3.1342	3.1343	2	•	•	•	•		•	•	•	•
Down 3.9	38W 5100lm	3.1344	3.1345	3	•	•	•	•		•	•	•	•
Down 3.12	49W 6800lm	3.1346	3.1347	4	•	•	•	•		•	•	•	•
Down 6.6	26W 3400lm	3.1348	3.1349	2	•	•	•	•		•	•	•	•
Down 6.9	38W 5100lm	3.1350	3.1351	3	•	•	•	•		•	•	•	•
Down 6.12	49W 6800lm	3.1352	3.1353	4	•	•	•	•		•	•	•	•
Down 9.9	38W 5100lm	3.1354	3.1355	3	•	•	•	•		•	•	•	•
Down 9.12	46W 6000lm	3.1356	3.1357	4	•	•	•	•		•	•	•	•
Down 12.6	26W 3400lm	3.1358	3.1359	2	•	•	•	•		•	•	•	•
Down 12.12	49W 6800lm	3.1360	3.1361	4	•	•	•	•		•	•	•	•
<b>Fraam Up G2</b>													
Up 3.3	8W 850lm	3.1362	3.1363	1	•	•	•	•		•	•	•	•
Up 3.6	20W 2500lm	3.1364	3.1365	2	•	•	•	•		•	•	•	•
Up 3.9	32W 4200lm	3.1366	3.1367	3	•	•	•	•		•	•	•	•
Up 3.12	44W 5900lm	3.1368	3.1369	4	•	•	•	•		•	•	•	•
Up 6.6	20W 2500lm	3.1370	3.1371	2	•	•	•	•		•	•	•	•
Up 6.9	32W 4200lm	3.1372	3.1373	3	•	•	•	•		•	•	•	•
Up 6.12	44W 5900lm	3.1374	3.1375	4	•	•	•	•		•	•	•	•
Up 9.9	32W 4200lm	3.1376	3.1377	3	•	•	•	•		•	•	•	•
Up 9.12	44W 5900lm	3.1378	3.1379	4	•	•	•	•		•	•	•	•
Up 12.6	20W 2500lm	3.1380	3.1381	2	•	•	•	•		•	•	•	•
Up 12.12	44W 5900lm	3.1382	3.1383	4	•	•	•	•		•	•	•	•
<b>Fraam Up   Down - Suspension set G2</b>													
1	Set x.3			9.2135	•	•	•	•					
2	Set x.6			9.2136	•	•	•	•					
3	Set x.9			9.2137	•	•	•	•					
4	Set x.12			9.2138	•	•	•	•					
<b>Fraam Move G2</b>													
NT 3.6	26W 3400lm	3.2139	3.2140		•	•	•	•		•	•	•	•
NT 3.9	38W 5100lm	3.2141	3.2142		•	•	•	•		•	•	•	•
NT 6.6	26W 3400lm	3.2143	3.2144		•	•	•	•		•	•	•	•
Adaptor 3F 3.6	26W 3400lm	7.2145	7.2146		•	•	•	•		•	•	•	•
Adaptor 3F 3.9	38W 5100lm	7.2147	7.2148		•	•	•	•		•	•	•	•
Adaptor 3F 6.6	26W 3400lm	7.2149	7.2150		•	•	•	•		•	•	•	•

Lumen output from luminaire | Wartość lumenów z oprawy

**Fraam Up**



**Fraam Down**











OFFA STUDIO Mikolaj Bejnarowicz | Light Effect . Private house, Poznan . Photo . Krzysztof Zgoda









# ***Geit***

*spotlight . track spotlight*



Geit Flat NT edge.LED (99 White) [99 White]



Geit Mini NT edge.LED (03 White) [03 White]



Geit Evo 70 NT AD 3F edge.LED (99 White) [99 White]

- Extremely popular & versatile family of spotlights
- Tilted head - 90°
- GEIT and GEIT MINI versions available for LED retrofits
- In EVO versions - inner ring & ends of main body always in black
- CRI90 3-step and CRI98 2-step as a standard
- **edge.LED** module replaceable without tools



Geit Evo 70 NT AD 3F (03 White) [03 White]

Model Order Codes Color CRI / Color temp. Optic

		On-Off	Switch_DALI	PhaseCut	Alu / Grey .01	Black .02	White .03	Mixed .99	CR190 2700K .927	CR190 3000K .930	CR190 4000K .940	Spot 13° .S	Medium 32° .M	Wide 48° .W	Spot 18° .S	Medium 35° .M	Wide 55° .W
<b>Geit Mini</b>																	
Geit Mini NNT	1x 50W GU10 QPAR16	2.0312			●	●	●	●									
Geit Mini Adaptor 3F	1x 50W GU10 QPAR16	7.0313			●	●	●	●									
<b>Geit</b>																	
Geit NT	1x 0-50W G53 QR-LP111	3.0118			●	●	●	●									
Geit Adaptor 3F	1x 0-50W G53 QR-LP111	7.0318			●	●	●	●									
Geit NT edge.LED	1x 6.5W 600lm	2.0698	2.1489	2.1488	●	●	●	●	●	●	●	●	●	●			
Geit Adaptor 3F edge.LED	1x 6.5W 600lm	7.0699	7.1491	7.1490	●	●	●	●	●	●	●	●	●	●			
Geit NT edge.LED	1x 12W 1200lm	2.0840	2.1493	2.1492	●	●	●	●	●	●	●				●	●	●
Geit Adaptor 3F edge.LED	1x 12W 1200lm	7.0899	7.1495	7.1494	●	●	●	●	●	●	●				●	●	●
<b>Geit Flat</b>																	
Geit Flat NT edge.LED	1x 8.5W 900lm	2.1915	2.1916	2.1917	●	●	●	●	●	●	●				●	●	●
Geit Flat Adaptor 3F edge.LED	1x 8.5W 900lm	7.1918	7.1919	7.1920	●	●	●	●	●	●	●				●	●	●

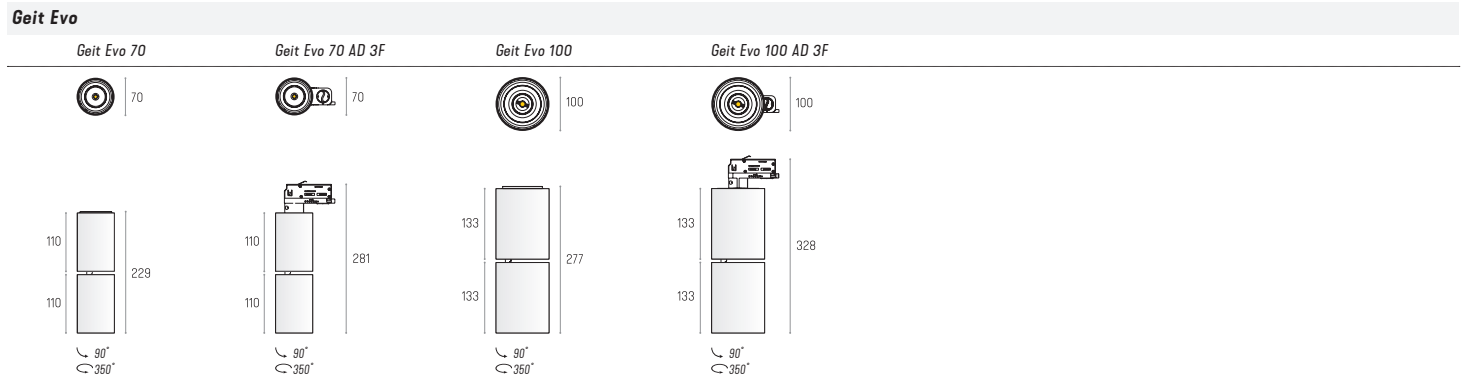
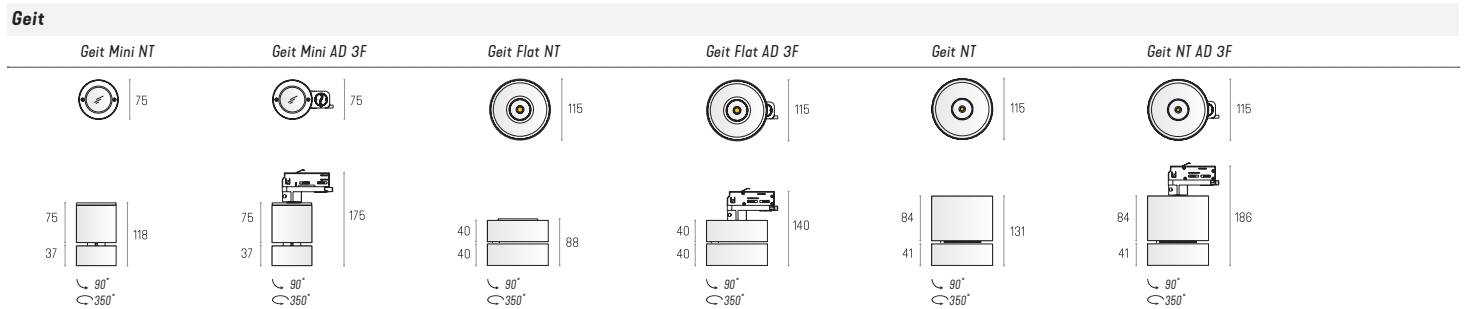
Lumen output from luminaire | Wartość lumenów z oprawy

● CR198  
● CR190

		On-Off	Switch_DALI	PhaseCut	CASAMBI Wireless	Alu / Grey .01	Black .02	White .03	Mixed .99	CR190 2700K .927	CR190 3000K .930	CR190 4000K .940	Spot 13° .S	Medium 32° .M	Wide 48° .W	Spot 10° .S	Medium 17° .M	Wide 41° .W
<b>Geit Evo</b>																		
Geit Evo 70	1x 6.5W 600lm	2.0696	2.1735	2.1722	2.2373	●	●	●	●	●	●	●	●	●	●			
Geit Evo 70 Adaptor 3F	1x 6.5W 600lm	7.0697	7.1736	7.1723	7.2374	●	●	●	●	●	●	●	●	●	●			
Geit Evo 100	1x 12W 1200lm	2.0692	2.1713	2.1712	2.2375	●	●	●	●	●	●	●				●	●	●
Geit Evo 100 Adaptor 3F	1x 12W 1200lm	7.0693	7.1717	7.1716	7.2376	●	●	●	●	●	●	●				●	●	●
Geit Evo 100	1x 19W 1800lm	2.0925	2.1715	2.1714	2.2377	●	●	●	●	●	●	●				●	●	●
Geit Evo 100 Adaptor 3F	1x 19W 1800lm	7.0926	7.1719	7.1718	7.2378	●	●	●	●	●	●	●				●	●	●

Lumen output from luminaire | Wartość lumenów z oprawy

● CR198  
● CR190



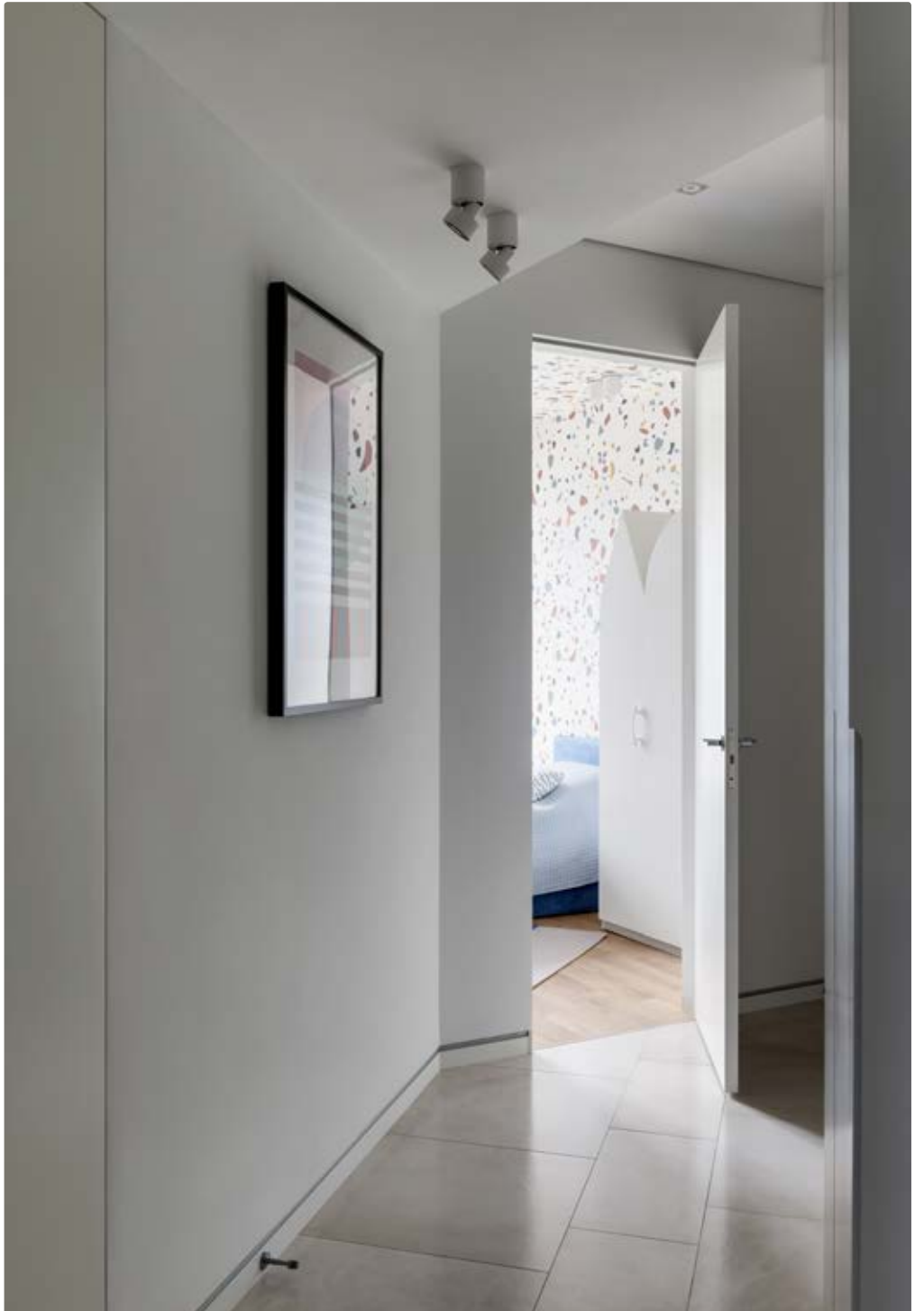


Light Effect - Private house, Poznań - Photo - Krzysztof Zgola





**NV Architecture** : Private Apartment, Kazakhstan, Almaty . Photo **Sergey Savchenko**









Design Studio ARMZ | LABRA Ukraine · Apartment, Lviv · Photo · Nikolay Korsun







# ***Hedion***

*recessed trim . recessed trimless*



- Minimalistic downlights
- Two main versions with or without Trim
- Trimless version **Requires** mounting ring
- Trim version - very narrow trim for mounting without plastering of the ceiling
- Deep position of light source strongly reduces glare
- CRI90 3-step and **CRI98** 2-step as a standard



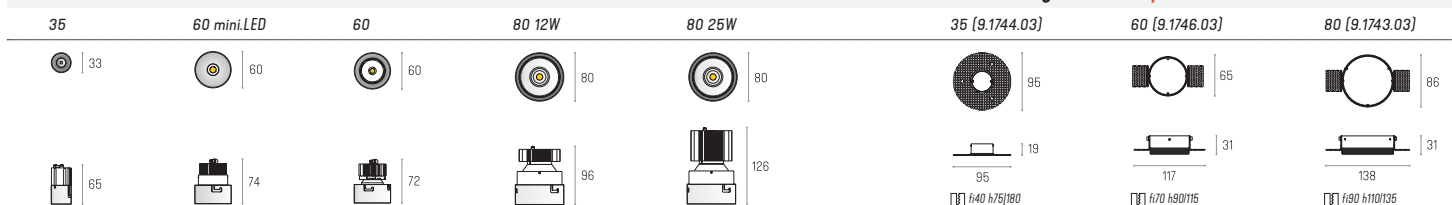
Model Order Codes Color CRI / Color temp. Optic

		On-Off	Switch-DALI	PhaseCut	CASAMBI Wireless	Accessories	Alu / Grey	Black	White	Mixed	CR190 2700K	CR190 3000K	CR190 4000K	Spot 18°	Medium 35°	Wide 48°	Spot 12°	Medium 40°	Wide 50°	
							.01	.02	.03	.99	.927	.930	.940	.S	.M	.W	.S	.M	.W	
<b>Hedion 35</b>																				
35 LED	1x 11W 700lm 47°	4.1903	4.1904			1	•	•	•	•			•	•						
1	35 Mounting Ring [required]					9.1744			•				•	•						
<b>Hedion 60</b>																				
60 GU10	1x 50W GU10 QPAR16	4.0557				2	•	•	•	•										
60 mini.LED AC230	1x 6W 550lm 50°	4.1106				2	•	•	•	•			•	•						
60 mini.LED RT+ AC230	1x 6W 550lm 50°	4.1107				2	•	•	•	•			•	•						
60 G.2 LED	1x 8.5W 950lm	4.1927	4.1928	4.1929	4.2379	2	•	•	•	•	•	•	•	•	•	•	•			
2	60 Mounting Ring [required]					9.1746			•											
<b>Hedion 80</b>																				
80 LED	1x 12W 1200lm	4.1921	4.1922	4.1923	4.2380	3	•	•	•	•	•	•	•					•	•	•
80 LED	1x 25W 2300lm	4.1924	4.1925	4.1926	4.2381	3	•	•	•	•	•	•	•					•	•	•
3	80 Mounting Ring [required]					9.1743			•											
<b>Hedion Trim 35</b>																				
35	1x 11W 700lm 47°	4.2092	4.2093				•	•	•	•			•	•						
<b>Hedion Trim 60</b>																				
60 GU10	1x 50W GU10 QPAR16	4.2076					•	•	•	•										
60 LED	1x 8.5W 950lm	4.2089	4.2090	4.2091	4.2382		•	•	•	•	•	•	•	•	•	•				
<b>Hedion Trim 80</b>																				
80 LED	1x 12W 1200lm	4.2083	4.2084	4.2085	4.2383		•	•	•	•	•	•	•					•	•	•
80 LED	1x 25W 2300lm	4.2086	4.2087	4.2088	4.2384		•	•	•	•	•	•	•					•	•	•

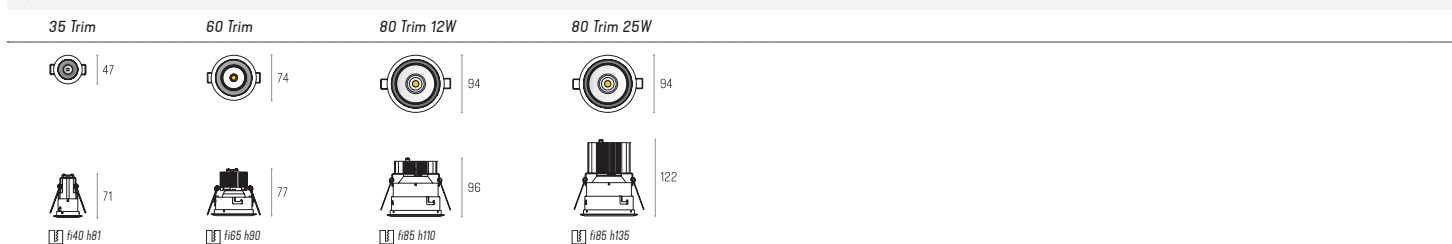
Lumen output from luminaire | Wartość lumenów z oprawy

• CRI98  
• CRI90

**Hedion Hedion Mounting Frames [required]**



**Hedion Trim**















# *Ideon*

*spotlight . track spotlight*



Ideon 2 edge LED [39 Mixed]

- Minimalistic spotlights
- Works great as a wall mounted luminaire
- Available both with integrated LED light source or for QR111 retrofit
- CRI90 3-step and CRI98 2-step as a standard
- **edge.LED** module replaceable without tools



Ideon 3 edge LED [03 White]



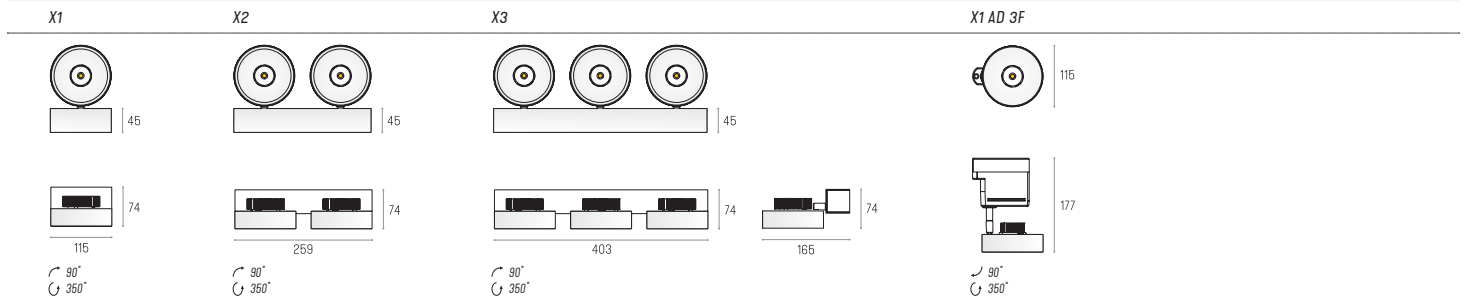
Ideon 1 edge LED [39 Mixed]

Model Order Codes Color CRI / Color temp. Optic

	On-Off	Alu / Grey .01	Black .02	White .03	Mixed .99	CR90 2700K .927	CR90 3000K .930	CR90 4000K .940	Spot 13° .S	Medium 32° .M	Wide 48° .W
<b>Ideon QR111</b>											
Ideon 1 Adaptor 3F   1x 0-50W G53 QR-LP 111	7.0365	●	●	●	●						
Ideon 1   1x 0-50W G53 QR-LP 111	2.0333	●	●	●	●						
Ideon 2   2x 0-50W G53 QR-LP 111	2.0334	●	●	●	●						
Ideon 3   3x 0-50W G53 QR-LP 111	2.0335	●	●	●	●						
<b>Ideon edge.LED</b>											
Ideon 1 Adaptor 3F edge.LED   1x 6.5W 600lm	7.0896	●	●	●	●	●	●	●	●	●	●
Ideon 1 edge.LED   1x 6.5W 600lm	2.0720	●	●	●	●	●	●	●	●	●	●
Ideon 2 edge.LED   2x 6.5W 600lm	2.0721	●	●	●	●	●	●	●	●	●	●
Ideon 3 edge.LED   3x 6.5W 600lm	2.0722	●	●	●	●	●	●	●	●	●	●

Lumen output from luminaire | Wartość lumenów z oprawy

**Ideon**



W2M Team · Hotel Harnaś, Bukowina Tatrzańska · Photo · Krzysztof Zgala









# ***Iner***

*recessed*

lher MR11 edgeLED [03 White] [03 White]



lher 1 trimless edgeLED [03 White]



lher 1 edgeLED [03 White]



- Round adjustable spotlights
- With or without trim
- Available both with integrated LED light source or for QR111 retrofit
- Easy positioning of light source thanks to cardanic mechanism
- Easy access to driver
- Very low mounting height
- CRI90 3-step and CRI98
- 2-step as a standard **edge.LED** module replaceable without tools

Model Order Codes Color CRI / Color temp. Optic

		On-Off	Switch_DALI	PhaseCut	CASAMBI Wireless	.01 Alu / Grey	.02 Black	.03 White	.99 Mixed	.927 CRI98 2700K	.930 CRI98 3000K	.940 CRI98 4000K	.S Spot 13°	.M Medium 32°	.W Wide 48°	.S Spot 18°	.M Medium 35°	.W Wide 55°
<b>Iner</b>																		
12V x1 QR111	1x G53 QR-LP111	4.0196				●	●	●	●	●	●	●	●	●	●	●	●	●
x1 edge.LED	1x 6.5W 600lm	4.0759	4.1497	4.1496	4.2385	●	●	●	●	●	●	●	●	●	●	●	●	●
x1 edge.LED	1x 12W 1200lm	4.0762	4.1499	4.1498	4.2386	●	●	●	●	●	●	●	●	●	●	●	●	●
12V 2 QR111	2x G53 QR-LP111	4.0197				●	●	●	●	●	●	●	●	●	●	●	●	●
x2 edge.LED	2x 6.5W 600lm	4.0760	4.1510	4.1509		●	●	●	●	●	●	●	●	●	●	●	●	●
x2 edge.LED	2x 12W 1200lm	4.0763	4.1512	4.1511		●	●	●	●	●	●	●	●	●	●	●	●	●
<b>Iner Trimless</b>																		
12V x1 QR111	1x G53 QR-LP111	4.0215				●	●	●	●	●	●	●	●	●	●	●	●	●
x1 edge.LED	1x 6.5W 600lm	4.0765	4.1506	4.1505	4.2387	●	●	●	●	●	●	●	●	●	●	●	●	●
x1 edge.LED	1x 12W 1200lm	4.0766	4.1508	4.1507	4.2388	●	●	●	●	●	●	●	●	●	●	●	●	●

Lumen output from luminaire | Wartość lumenów z oprawy

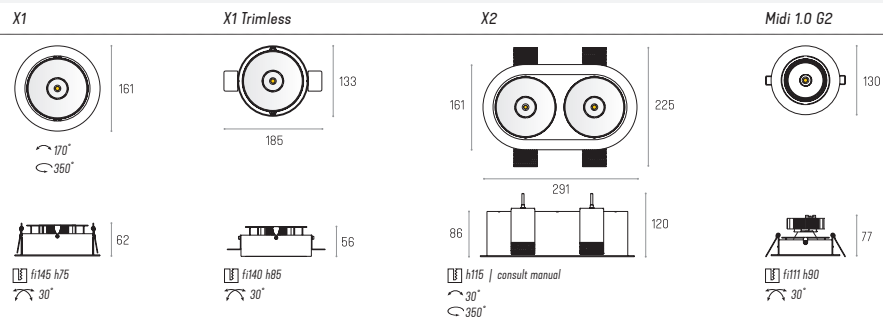
● CRI98  
● CRI90

		On-Off	Switch_DALI	PhaseCut		.01 Alu / Grey	.02 Black	.03 White	.99 Mixed	.927 CRI98 2700K	.930 CRI98 3000K	.940 CRI98 4000K	.S Spot 10°	.M Medium 17°	.W Wide 41°
<b>Iner Midi</b>															
Midi 1.0 G.2	1x 12W 1200lm	4.1905	4.1906	4.1907		●	●	●	●	●	●	●	●	●	●

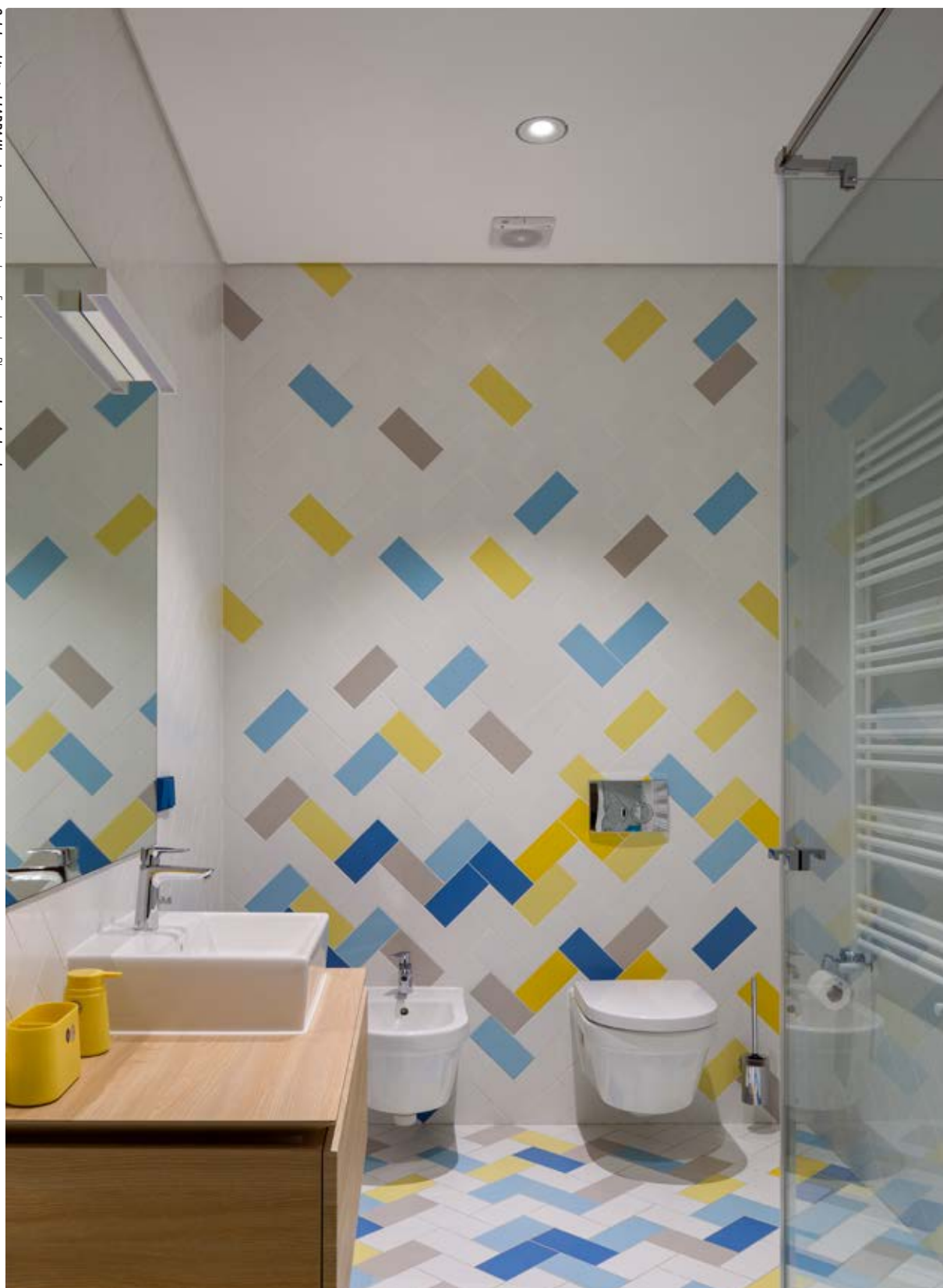
Lumen output from luminaire | Wartość lumenów z oprawy

● CRI98

**Iner**









A44. Architectural & Design Studio | LABRA Ukraine · ANDRR Beaury Salon, Lviv · Photo · Varyy Salybay







***Kiko***

*wall*



- Small bedside luminaire
- Version for LED retrofits
- Adjustable lamphead

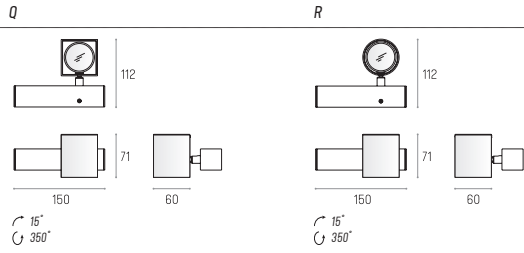


Model Order Codes Color

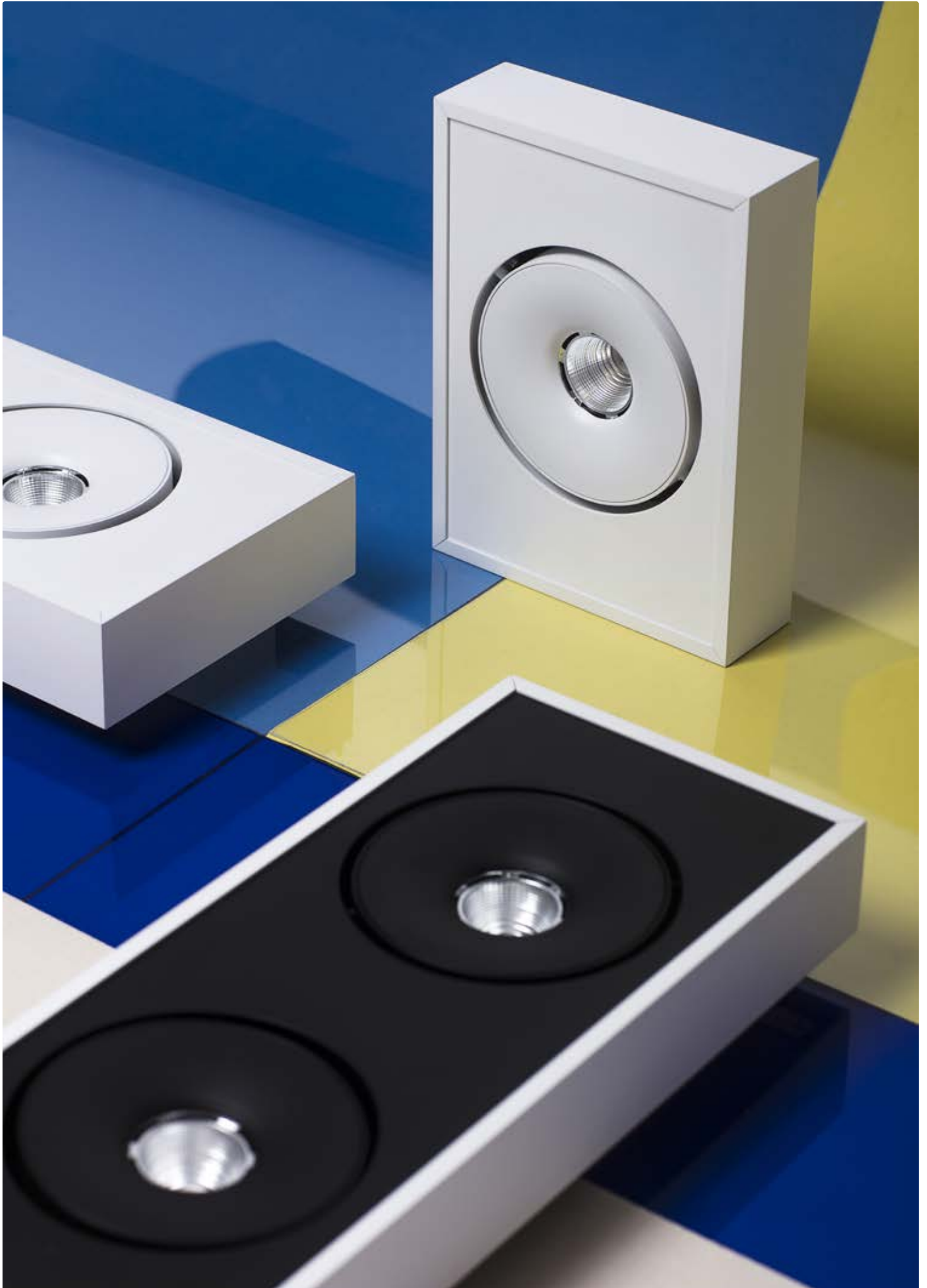
	On-Off	Alu / Grey Black White Mixed
		.01 .02 .03 .99
<b>Kiko</b>		
Kiko R   1x 35W GU10 QPAR16	1.0267	● ● ● ●
Kiko Q   1x 35W GU10 QPAR16	1.0268	● ● ● ●

Lumen output from luminaire | Wartość lumenów z oprawy

**Kiko**



MONOstudio · Showroom, Kraków · Photo · Krzysztof Zgoła



# ***Lava***

*surface . recessed trimless*

Lava X2 NT edge LED [03 White]



- Extremely low ceiling mounted luminaire, only **67mm** height
- Adjustable light sources
- LED light source or QR111 retrofit
- Easy positioning of light source
- Easy access to driver in recessed version
- Mounting frame **required** for recessed trimless version
- Very low mounting height
- CRI90 3-step and CRI98 2-step as a standard
- **edge.LED** module replaceable without tools

Lava X1 NT QR-LP-TH [03 White]



Lava X2 NP edge LED [03 White]



Lava X3 NT edge LED [99 Mixed]



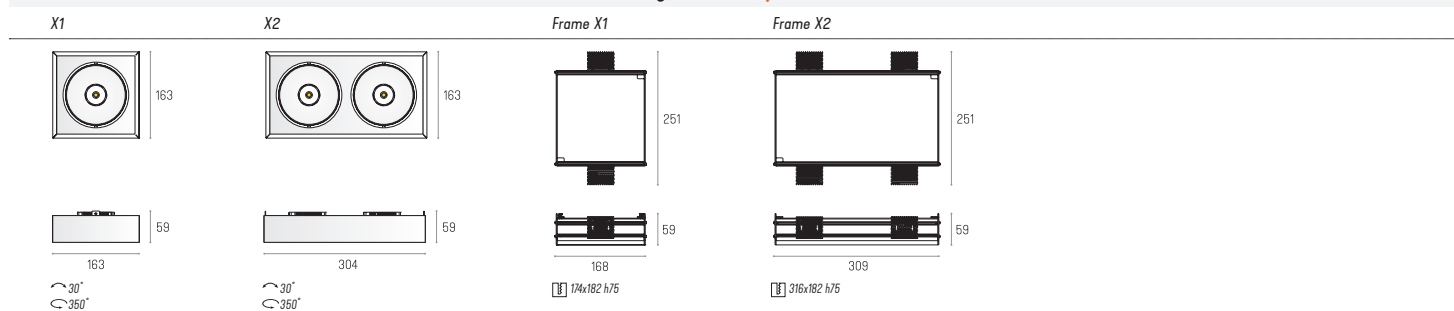


		On-Off	Switch-DALI	PhaseCut	CASAMBI Wireless	Accessories	Alu / Grey	Black	White	Mixed	CRI90 2700K	CRI90 3000K	CRI90 4000K	Spot 13°	Medium 32°	Wide 48°	Spot 18°	Medium 35°	Wide 55°
		—	—	—	—	—	.01	.02	.03	.99	.927	.930	.940	.S	.M	.W	.S	.M	.W
<b>Lava WP Trimless</b>																			
12V X1 QR111	1x G53 QR-LP 111	4.0965				①	●	●	●	●									
12V X2 QR111	2x G53 QR-LP 111	4.0966				②	●	●	●	●									
X1 edge.LED	1x 6.5W 600lm	4.1046	4.1058	4.1056	4.2389	①	●	●	●	●	●	●	●	●	●	●			
X2 edge.LED	2x 6.5W 600lm	4.1047	4.1064	4.1062	4.2390	②	●	●	●	●	●	●	●	●	●	●			
X1 edge.LED	1x 12W 1200lm	4.1048	4.1061	4.1059	4.2391	①	●	●	●	●	●	●	●				●	●	●
X2 edge.LED	2x 12W 1200lm	4.1049	4.1067	4.1065	4.2392	②	●	●	●	●	●	●	●				●	●	●
①	X1 Mounting Frame [required]					4.2100													
②	X2 Mounting Frame [required]					4.2101													
<b>Lava NT QR111</b>																			
X1	1x 0-50W G53 QR-LP 111	3.0401					●	●	●	●									
X2	2x 0-50W G53 QR-LP 111	3.0402					●	●	●	●									
X3	3x 0-50W G53 QR-LP 111	3.0403					●	●	●	●									
<b>Lava NT edge.LED</b>																			
X1 edge.LED	1x 6.5W 600lm	3.0725					●	●	●	●	●	●	●	●	●	●			
X2 edge.LED	2x 6.5W 600lm	3.0726					●	●	●	●	●	●	●	●	●	●			
X3 edge.LED	3x 6.5W 600lm	3.0727					●	●	●	●	●	●	●	●	●	●			

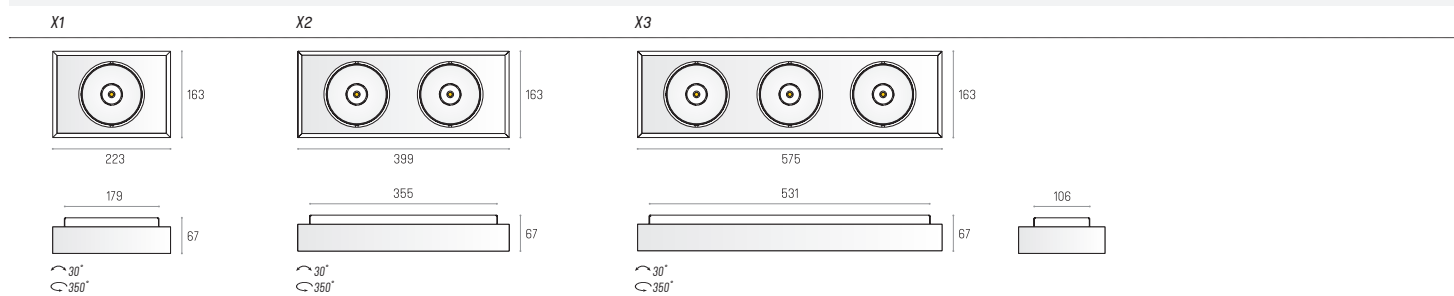
Lumen output from luminaire | Wartość lumenów z oprawy

● CRI98  
● CRI90

**Lava WP** **Lava WP Mounting Frames [required]**



**Lava NT**



















# ***Layer***

*surface*



- Adjustable light sources
- LED light source or QR111 retrofit
- Easy positioning of light source
- CRI90 3-step and CRI98 2-step as a standard
- **edge.LED** module replaceable without tools

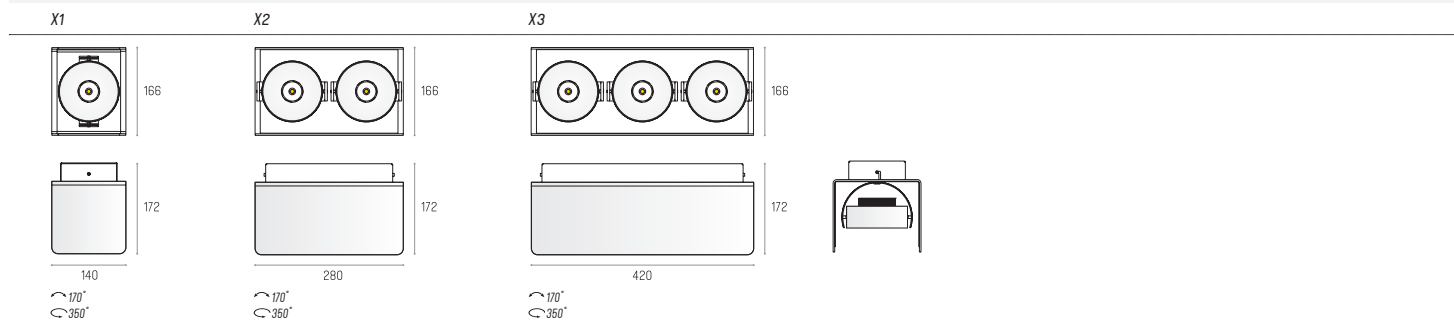


Model Order Codes Color CRI / Color temp. Optic

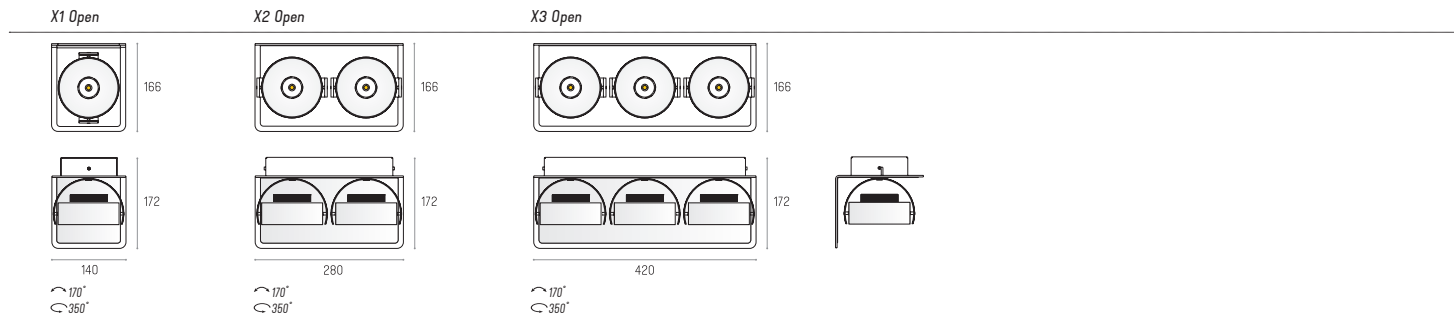
	On-Off	Switch_DALI	PhaseCut	White + Black .33	Black + White .44	Mixed .99	CR190 2700K .927	CR190 3000K .930	CR190 4000K .940	Spot 13° .S	Medium 32° .M	Wide 48° .W
<b>Layer</b>												
x1 QR111   1x 0-50W G53 QR-LP 111	1.0298			●	●	●						
x2 QR111   2x 0-50W G53 QR-LP 111	1.0299			●	●	●						
x3 QR111   3x 0-50W G53 QR-LP 111	3.0399			●	●	●						
x1 edge.LED   1x 6.5W 600lm	3.0737		3.1673	●	●	●	●	●	●	●	●	●
x2 edge.LED   2x 6.5W 600lm	3.0738	3.1677	3.1674	●	●	●	●	●	●	●	●	●
x3 edge.LED   3x 6.5W 600lm	3.0739	3.1678	3.1675	●	●	●	●	●	●	●	●	●
<b>Layer Open</b>												
x1 QR111   1x 0-50W G53 QR-LP 111	3.0392			●	●	●						
x2 QR111   2x 0-50W G53 QR-LP 111	3.0393			●	●	●						
x3 QR111   3x 0-50W G53 QR-LP 111	3.0394			●	●	●						
x1 edge.LED   1x 6.5W 600lm	3.0740		3.1679	●	●	●	●	●	●	●	●	●
x2 edge.LED   2x 6.5W 600lm	3.0741	3.1683	3.1680	●	●	●	●	●	●	●	●	●
x3 edge.LED   3x 6.5W 600lm	3.0742	3.1684	3.1681	●	●	●	●	●	●	●	●	●

Lumen output from luminaire | Wartość lumenów z oprawy

**Layer**



**Layer Open**















# ***Loop***

*surface*



Model	Order Codes	Color	CRI / Color temp.	Optic
	— On-Off — Switch_DALI — PhaseCut	.01 — Alu / Grey .02 — Black .03 — White .99 — Mixed	.927 — CRI90 2700K .930 — CRI90 3000K .940 — CRI90 4000K	.S — Spot 13° .M — Medium 32° .W — Wide 48°
<b>Loop</b>				
NT QR111   1x 0-50W G53 QR-LP 111	3.0416	● ● ● ●		
NT edge.LED   1x 6.5W 600lm	3.0804 3.1686 3.1685	● ● ● ● ●	● ● ●	● ● ●

Lumen output from luminaire | Wartość lumenów z oprawy

## Loop

NT



W2M Team . Hotel HARNAS, Bukowina Tatrzańska . Photo . Krzysztof Zgola



- Simple downlighter
- LED light source or QR111 retrofit
- CRI90 3-step and CRI98 2-step as a standard
- **edge.LED** module replaceable without tools



# ***Mono***

*surface . recessed . spotlight . track spotlight*

Mono NT 02 Low [99 Mixed]



- Pure, essential form
- NT version - extremely low luminaire, only **37mm** height & **900lm** | light source
- Driverless solution for compact design
- Adjustable **MOVE** version
- Eccentrically mounted adjusted lamphead
- Lens made of high grade optical PMMA
- CRI90 3-step as a standard

Mono Move 02 210 37 Low [99 Mixed]



Mono Move 02 NT Low [99 Mixed]



Mono NT 02 Low [99 Mixed]



Mono NT 02 Low [99 Mixed]

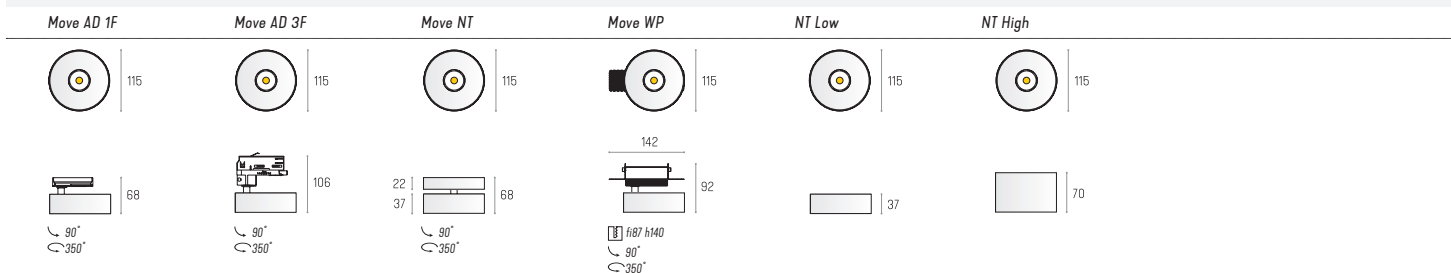


Model Order Codes Color CRI / Color temp. Optic

		On-Off	Alu / Grey .01	Black .02	White .03	Mixed .99	CR90 2700K .927	CR90 3000K .930	CR90 4000K .940	Spot 20° .S	Wide 50° .W
<b>Mono Move G2 edge.LED AC<sup>230</sup></b>											
Mono Move G2 NT	1x 10W 900lm	2.2095	●	●	●	●	●	●		●	●
Mono Move G2 WP	1x 10W 900lm	4.2098	●	●	●	●		●	●	●	●
Mono Move G2 Adaptor 1F	1x 10W 900lm	7.2096	●	●	●	●		●	●	●	●
Mono Move G2 Adaptor 3F	1x 10W 900lm	7.2097	●	●	●	●		●	●	●	●
<b>Mono NT edge.LED AC<sup>230</sup></b>											
Mono NT G2 Low	1x 10W 900lm	3.2094	●	●	●	●		●	●	●	●
Mono NT G2 High	1x 10W 900lm	3.2099	●	●	●	●		●	●	●	●

Lumen output from luminaire | Wartość lumenów z oprawy

**Mono G2**





NV Architecture · Private Apartment, Kazakhstan, Almaty · Photo · Sergey Savchenko



NV Architecture · Private Apartment, Kazakhstan, Almaty · Photo · Sergey Savchenko







Leo Duk Design · Apartment, Lutsk · Photo · Vladimír Kromich



*Magnetic System 48V*

# ***Multisystem***

*surface . suspended . recessed*



- System of aluminium profiles equipped with 48V electric tracks
- All luminaires equipped with special **48V** adapters and converters with **magnetic** mounting system
- Requires special central driver
- Luminaires can be **moved freely** along profiles
- Easy Click-in lamp mounting
- All luminaires fit in both tracks: surface and recessed trimless
- Suspension set available for surface track

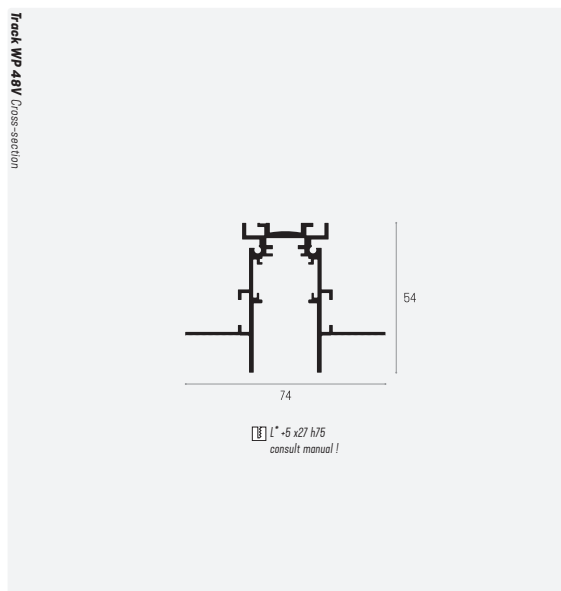
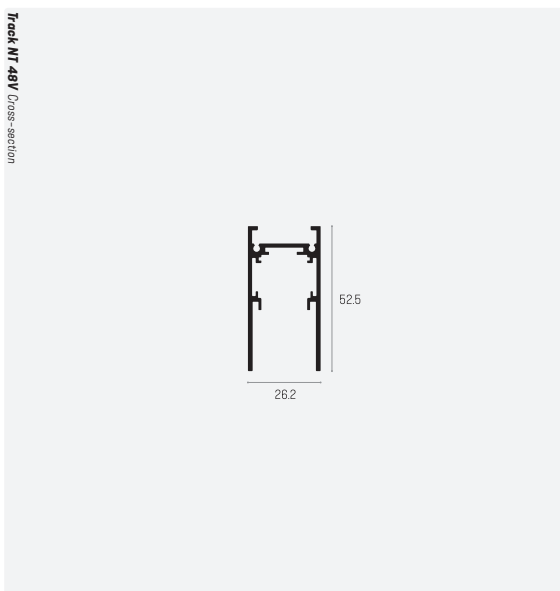
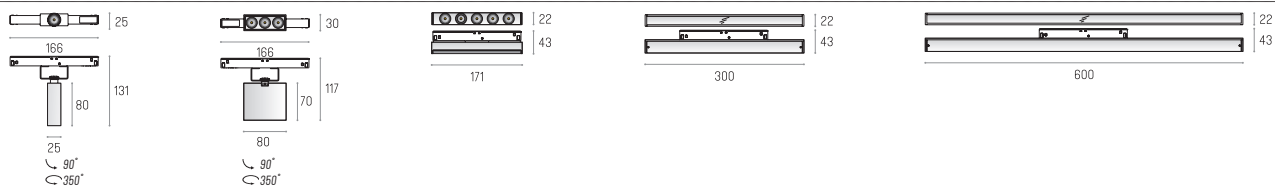
	Main Components	On-Off	Switch_DALI	Accessories	Black  .02	White  .03	Mixed  .99	CR190 2700K  .927	CR190 3000K  .930	CR190 4000K  .940
<b>Multisystem 48V Profiles</b>										
48V Track NT 100cm (surface)	7.2200				●	●				
48V Track NT 200cm (surface)	7.2201				●	●				
48V Track WP 100cm (recessed)	7.2202				●	●				
48V Track WP 200cm (recessed)	7.2203				●	●				
<b>Multisystem 48V   Electrical components</b>										
electric   End Feed (9501)				7.2210	●	●				
electric   Linear Connector (9503)				7.2211	●	●				
electric   Corner Connector 90° (9511)				7.2212	●	●				
electric   Pendant power supply				7.2217	●	●				
48V Driver 75W   Recessed		9.2234	9.2235							
48V Driver 150W   Recessed		9.2236	9.2237							
<b>Multisystem 48V   Mechanical components</b>										
mechanical   Corner Joint 90° for track NT				7.2215	●	●				
mechanical   Linear Joint for track WP				7.2218	●	●				
mechanical   Corner Joint 90° for track WP				7.2219						
mechanical   End Cap for track NT				7.2214	●	●				
mechanical   End Cap for Pendant Power Supply				7.2213	●	●				
mechanical   Pendant mounting				7.2216						
<b>Multisystem 48V   Luminaires</b>										
AD 48V Stik On 25x1   4.5W 400lm 43° 930		7.2220	7.2221		●	●	●	●	●	
AD 48V Stik On 35x1   6W 600lm 44° 930		7.2232	7.2233		●	●	●	●	●	
AD 48V Shift On 3x1   6W 450lm 47° 930		7.2222	7.2223		●	●	●	●	●	
AD 48V Shift In 5x1   10W 700lm 47° 930		7.2224	7.2225		●	●	●	●	●	
AD 48V Line In 300		7.2226	7.2227		●	●	●	●	●	
AD 48V Line In 600		7.2228	7.2229		●	●	●	●	●	

Lumen output from luminaire | Wartość lumenów z oprawy

.02 Black - RAL9005 ●  
 .03 White - RAL9010 ●  
 with fine structure | drobna struktura ● CR198  
 ● CR190

**Multisystem**

Spot AD 1F





SHK On 25x1 AD 48V [03 White]



SHK On 3x1 AD 48V [03 White]



SHK On 3x1 AD 48V [02 Black]



Line In 300 AD 48V [03 White]









Line In 300 AD 48V [03 White]



Sik On 25x1 AD 48V [03 White]



SHIK On 3x1 AD 48V [03 White]



SHIK On 3x1 AD 48V [02 Black]



# ***Multiva Evo***

*recessed trim . recessed trimless*

- Wide range of multipurpose recessed luminaires
- Three sizes 60|80|115 all models available in trim or trimless version
- Wide range of lumen output from **600lm** to **2300lm**
- Trimless version **requires** mounting frame
- Very low mounting height for all versions & sizes
- Easy access to driver
- **Magnetic** (tool-free) mounting of Trimless insets
- LED light source or QR111 retrofit in 115.x version
- CRI90 3-step and **CRI98** 2-step as a standard
- **edge.LED** module replaceable without tools



Multiva Evo

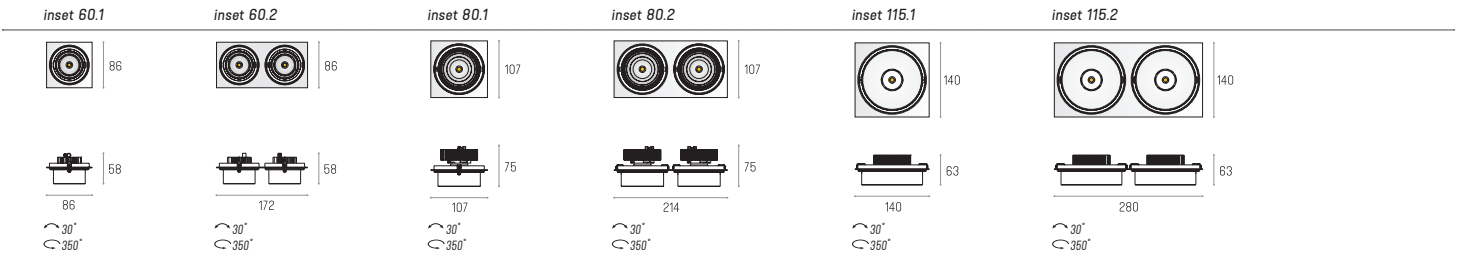
60.1	60.2	80.1	80.2	115.1	115.2
105	105	126	126	159	159
60	60	80	80	65	65
105	193	126	236	159	301
94x94 h75	94x182 h75	115x115 h80	115x224 h80	148x148 h80	148x290 h80
30°	30°	30°	30°	30°	30°
350°	350°	350°	350°	350°	350°

		On-Off	Switch-DALI	PhaseCut	CASAMBI Wireless	Accessories	Alu / Grey .01	Black .02	White .03	Mixed .99	CR190 2700K .927	CR190 3000K .930	CR190 4000K .940	Spot 13° .S	Medium 32° .M	Wide 48° .W	Spot 18° .S	Medium 35° .M	Wide 55° .W	Spot 10° .S	Medium 17° .M	Wide 41° .W
<b>Multiva Evo</b>																						
60.1 LED	1x 6.5W 600lm	4.1841	4.1842	4.1843	4.2393		●	●	●	●	●	●	●	●	●	●						
60.2 LED	2x 6.5W 600lm	4.1844	4.1845	4.1846	4.2394		●	●	●	●	●	●	●	●	●	●						
80.1 LED	1x 12W 1200lm	4.1835	4.1836	4.1837	4.2395		●	●	●	●	●	●	●							●	●	●
80.2 LED	2x 12W 1200lm	4.1838	4.1839	4.1840	4.2396		●	●	●	●	●	●	●							●	●	●
12V 115.1 QR111	1x G53 QR-LP 111	4.1821					●	●	●	●												
12V 115.2 QR111	2x G53 QR-LP 111	4.1828					●	●	●	●												
115.1 edge.LED	1x 6.5W 600lm	4.1822	4.1823	4.1824	4.2397		●	●	●	●	●	●	●	●	●	●						
115.2 edge.LED	2x 6.5W 600lm	4.1829	4.1830	4.1831	4.2398		●	●	●	●	●	●	●	●	●	●						
115.1 edge.LED	1x 12W 1200lm	4.1825	4.1826	4.1827	4.2399		●	●	●	●	●	●	●				●	●	●			
115.2 edge.LED	2x 12W 1200lm	4.1832	4.1833	4.1834	4.2400		●	●	●	●	●	●	●				●	●	●			
115.1 edge.LED	1x 25W 2300lm	4.1940	4.1941	4.1942	4.1943		●	●	●	●	●	●	●				●	●	●			
115.2 edge.LED	2x 25W 2300lm	4.1944	4.1945	4.1946	4.1947		●	●	●	●	●	●	●				●	●	●			
<b>Multiva Evo Trimless</b>																						
Inset 60.1 LED	1x 6.5W 600lm	4.1850	4.1851	4.1852	4.2401	1	●	●	●	●	●	●	●	●	●	●						
Inset 60.2 LED	2x 6.5W 600lm	4.1854	4.1855	4.1856	4.2402	2	●	●	●	●	●	●	●	●	●	●						
1	60.1 Mounting Frame [required]					4.1849	●	●	●	●												
2	60.2 Mounting Frame [required]					4.1853	●	●	●	●												
Inset 80.1 LED	1x 12W 1200lm	4.1860	4.1861	4.1862	4.2403	3	●	●	●	●	●	●	●							●	●	●
Inset 80.2 LED	2x 12W 1200lm	4.1864	4.1865	4.1866	4.2404	4	●	●	●	●	●	●	●							●	●	●
3	80.1 Mounting Frame [required]					4.1859	●	●	●	●												
4	80.2 Mounting Frame [required]					4.1863	●	●	●	●												
12V Inset 115.1 QR111	1x G53 QR-LP 111	4.1806				5	●	●	●	●												
12V Inset 115.2 QR111	2x G53 QR-LP 111	4.1814				6	●	●	●	●												
Inset 115.1 edge.LED	1x 6.5W 600lm	4.1807	4.1808	4.1809	4.2405	5	●	●	●	●	●	●	●	●	●	●						
Inset 115.2 edge.LED	2x 6.5W 600lm	4.1815	4.1816	4.1817	4.2406	6	●	●	●	●	●	●	●	●	●	●						
Inset 115.1 edge.LED	1x 12W 1200lm	4.1810	4.1811	4.1812	4.2407	5	●	●	●	●	●	●	●				●	●	●			
Inset 115.2 edge.LED	2x 12W 1200lm	4.1818	4.1819	4.1820	4.2408	6	●	●	●	●	●	●	●				●	●	●			
Inset 115.1 edge.LED	1x 25W 2300lm	4.1948	4.1949	4.1950	4.1951	5	●	●	●	●	●	●	●				●	●	●			
Inset 115.2 edge.LED	2x 25W 2300lm	4.1952	4.1953	4.1954	4.1955	6	●	●	●	●	●	●	●				●	●	●			
5	115.1 Mounting Frame [required]					4.1805	●	●	●	●												
6	115.2 Mounting Frame [required]					4.1813	●	●	●	●												

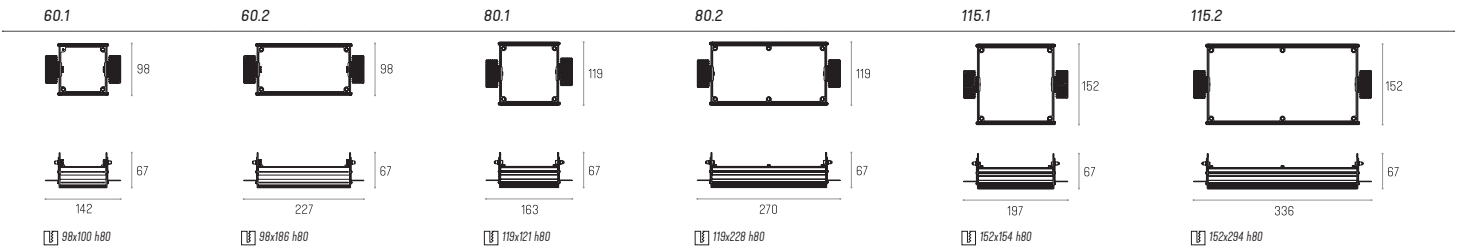
● CR198  
● CR190

Lumen output from luminaire | Wartość lumenów z oprawy

**Multiva Evo Trimless**



**Multiva Evo Trimless - Mounting Frames [required]**





Multiva Evo 115.2 Trimless edge LED [03 White]



Multiva Evo 115.1 OR-LP II [02 Black]



Multiva Evo 80.2 Trimless [03 White]

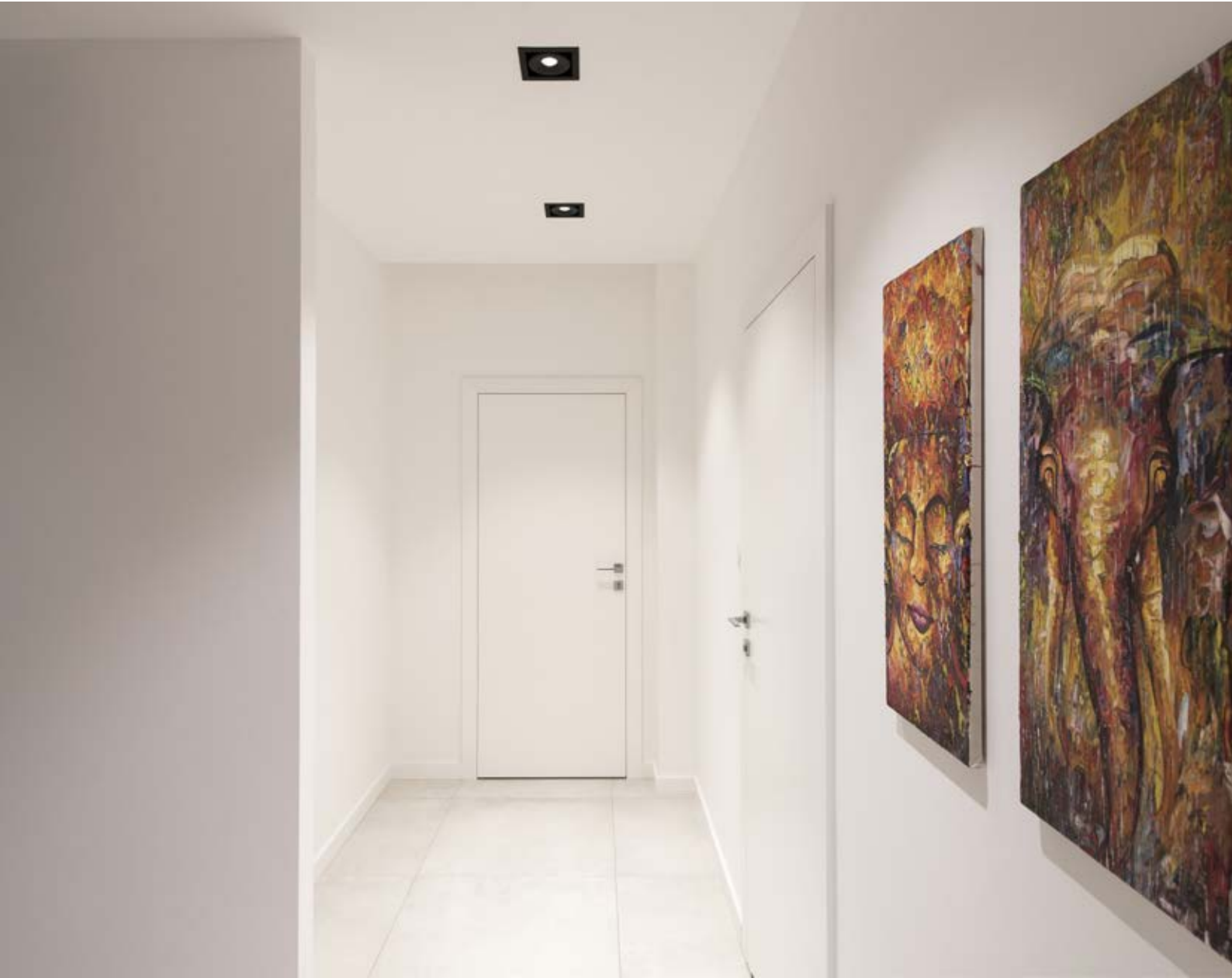


Multiva Evo 60.2 Trimless [89 Mixed]









OFFA STUDIO Mikolaj Bajnowicz | Light Effect · Private house, Poznan · Photo · Krzysztof Zgola

*Design Studio ARMZ | LABRA Ukraine · Apartment, Lviv · Photo · Nikolay Korsun*





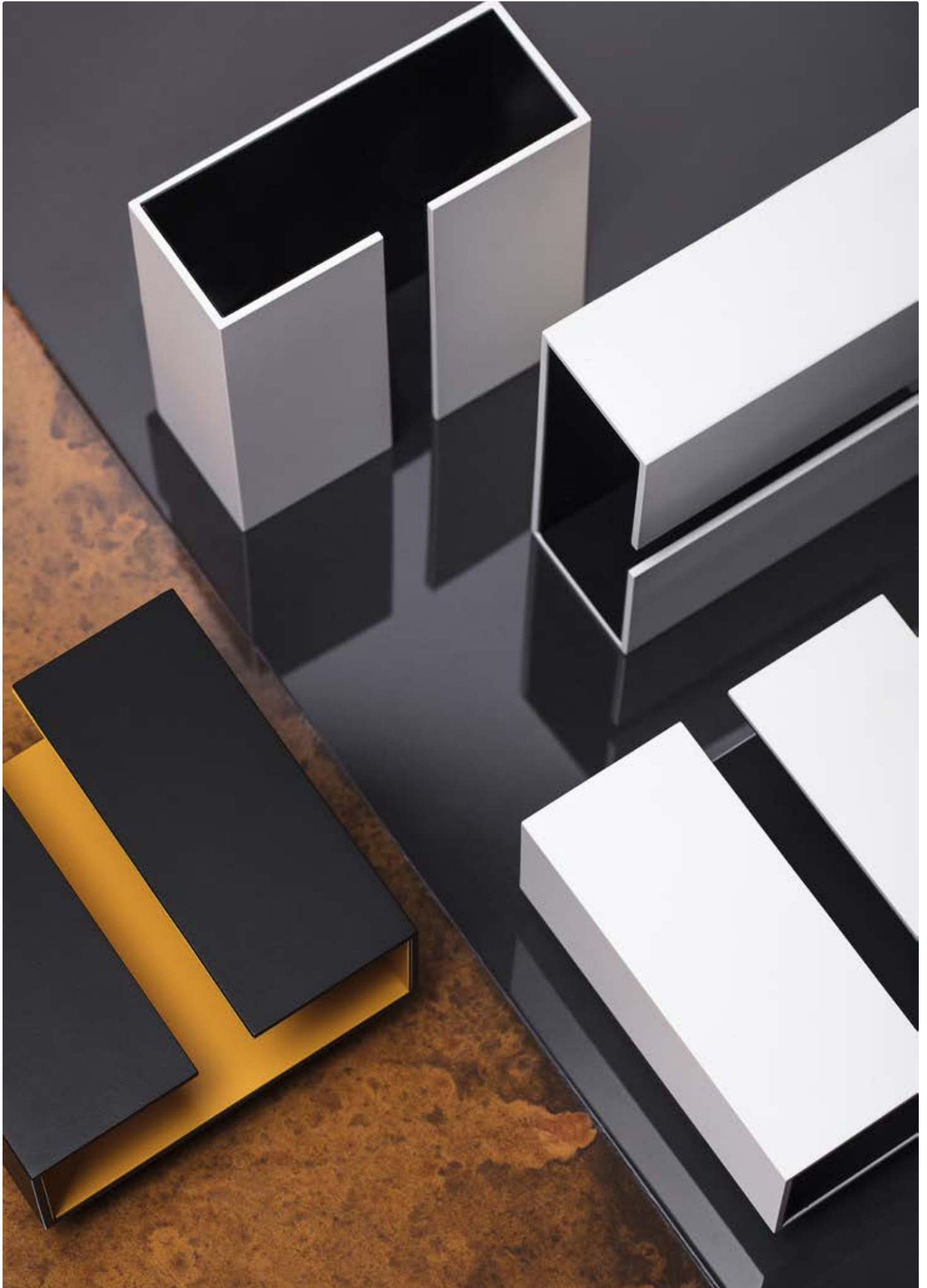












# ***Naveo***

*wall*

- Minimalistic wall lamp for general 'mood' lighting
- Inner and outer layers painted in different colors
- Two version – for classic light
- source E with integrated LED

Novo LED [33 White-Black]

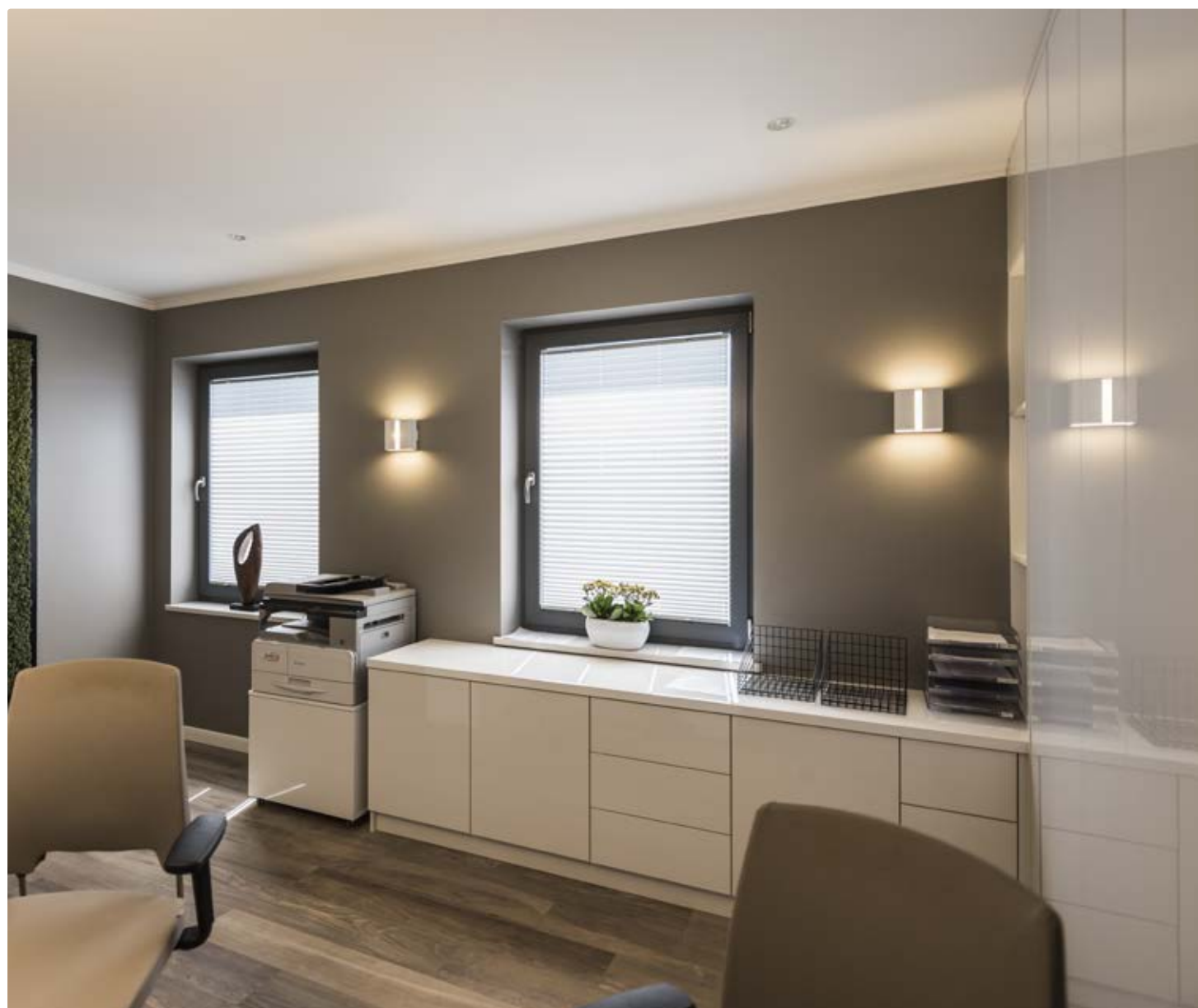
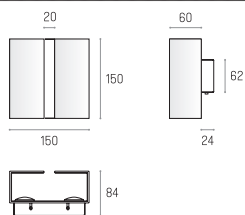


Model Order Codes Color

		On-Off	.01	.02	.03	.99	.33	.44	.56	.66
			Alu / Grey	Black	White	Mixed	White-Black	Black-White	White-Orange	Black-Orange
<b>Naveo</b>										
G9	2x 18W G9 QT14	<b>1.0366</b>	●	●	●	●	●	●	●	●
LED	2x 5W 3000K CRI80	<b>1.0599</b>	●	●	●	●	●	●	●	●

**Naveo**

LED



KAMA MUCHA Interior design · Notary Office, Poland · Photo · Krzysztof Zgola



# ***Neutra System***

*recessed trimless*



- Recessed trimless profile
- Two lighting modules
- Easy access to driver
- Tool-free installation of lighting modules
- **Requires** detailed drawing from customer
- Angle connections on request
- **CR198** 2-step as a standard



Model Order Codes Color CRI / Color temp. Optic

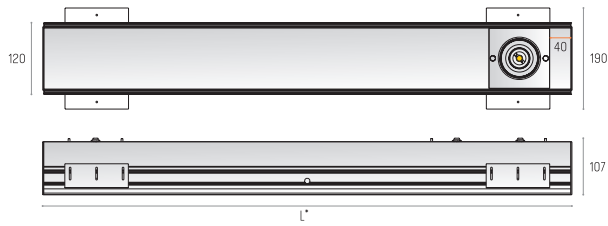
		On-Off	Switch-DALI	PhaseCut	CASAMBI Wireless	Alu / Grey	Black	White	Mixed	CR198 2700K	CR198 3000K	CR198 4000K	Spot 10°	Medium 17°	Wide 41°
		—	—	—	—	.01	.02	.03	.99	.927	.930	.940	.S	.M	.W
<b>Neutra System</b>															
Main Profile	1.0 m	6.1190				●	●	●	●						
Module 1.0	1x 12W 1200lm	6.1191	6.1193	6.1192	6.2409	●	●	●	●	●	●	●	●	●	●
Module 2.0	2x 12W 1200lm	6.1194	6.1196	6.1195	6.2410	●	●	●	●	●	●	●	●	●	●

Lumen output from luminaire | Wartość lumenów z oprawy

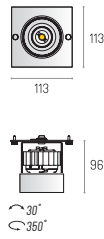
● CRI98

**Neutra System**

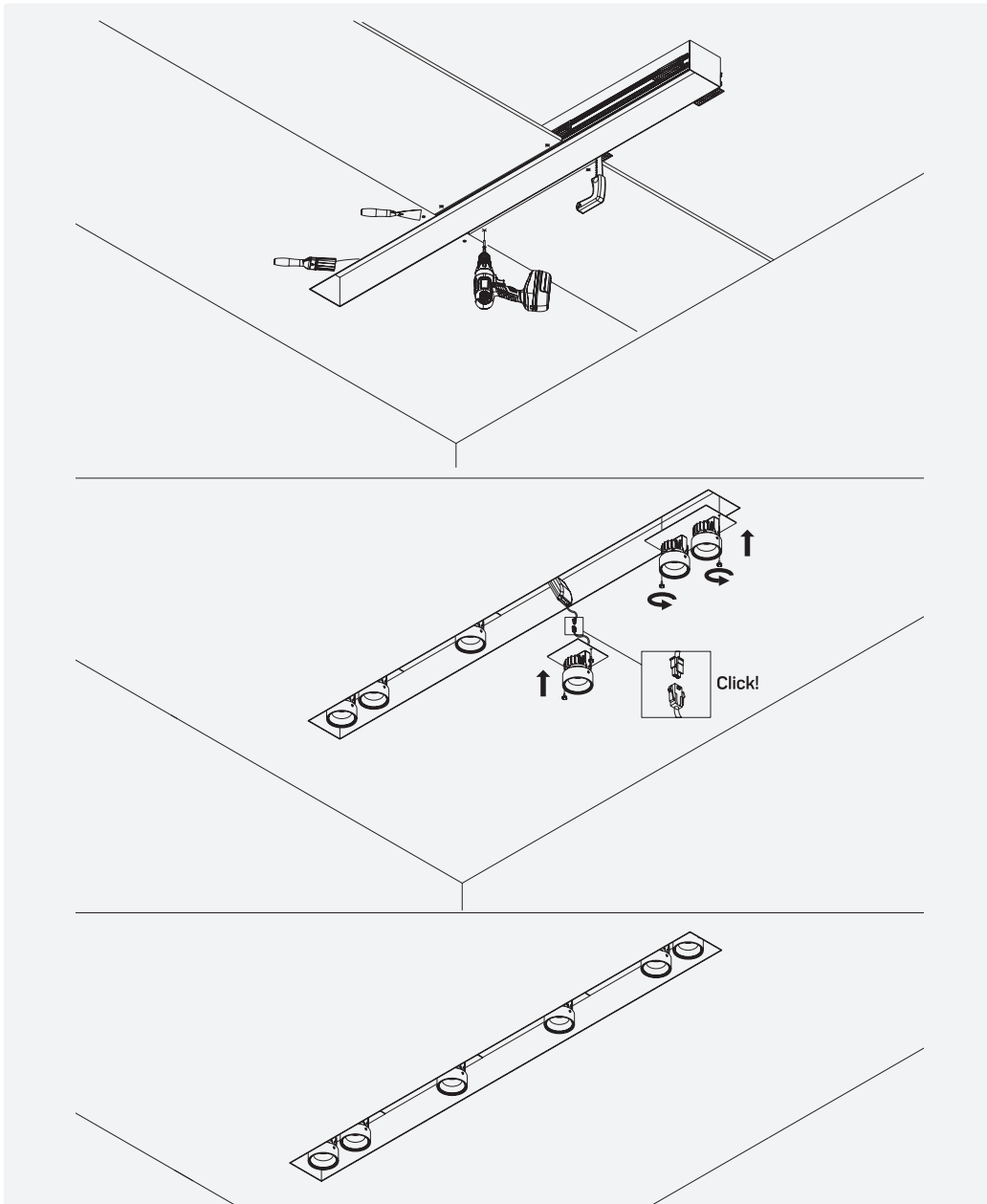
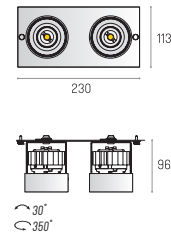
Main Profile



Module 1.0



Module 2.0









# **Nex**

*surface*



- Round adjustable spotlights
- Available both with integrated LED light source or QR111 retrofit
- Easy positioning of light source thanks to cardanic mechanism
- CRI90 3-step and **CRI98** 2-step as a standard
- **edge.LED** module replaceable without tools

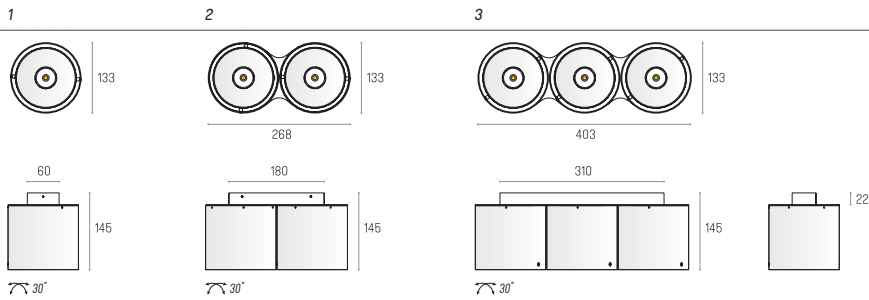
Model Order Codes Color CRI / Color temp. Optic

		On-Off	Switch_DALI	PhaseCut	Alu / Grey	Black	White	Mixed	CR190 2700K	CR190 3000K	CR190 4000K	Spot 13°	Medium 32°	Wide 48°	Spot 18°	Medium 36°	Wide 55°
		—	—	—	.01	.02	.03	.99	.927	.930	.940	.S	.M	.W	.S	.M	.W
<b>Nex NT QR111</b>																	
1 QR111	1x 0-50W G53 QR-LP 111	3.0405			●	●	●	●									
2 QR111	2x 0-50W G53 QR-LP 111	3.0406			●	●	●	●									
3 QR111	3x 0-50W G53 QR-LP 111	3.0407			●	●	●	●									
<b>Nex NT edge.LED</b>																	
1 edge.LED	1x 6,5W 600lm	3.0688	3.1526	3.1525	●	●	●	●	●	●	●	●	●	●			
2 edge.LED	2x 6,5W 600lm	3.0689	3.1529	3.1528	●	●	●	●	●	●	●	●	●	●			
3 edge.LED	3x 6,5W 600lm	3.0690	3.1532	3.1531	●	●	●	●	●	●	●	●	●	●			
1 edge.LED	1x 12W 1200lm	3.0816	3.1546	3.1545	●	●	●	●	●	●	●				●	●	●
2 edge.LED	2x 12W 1200lm	3.0817	3.1549	3.1548	●	●	●	●	●	●	●				●	●	●
3 edge.LED	3x 12W 1200lm	3.0818	3.1552	3.1551	●	●	●	●	●	●	●				●	●	●

Lumen output from luminaire | Wartość lumenów z oprawy

● CRI98  
● CRI90

**Nex**



MYKHALIKHA Architectural Bureau · Apartment Liviv · Photo · Alexander Angolovskiy





*IP54 . IP65*

# ***Panton***

*surface . recessed*



Panton 1.0 NT [03 White-Black]

- Round water-tight downlights
- Delicate rounded shape
- Lowest **IP54|65** surface mounted fitting on the market
- **21 & 37mm** height only
- Recessed version also available
- Driverless solution for compact design
- Lens in 2.0 ver. made of high grade optical PMMA
- **CR190** 3-step as a standard



Panton 1.0 NT [02 Black]



Panton 1.0 NT [03 White-Black]



Panton 2.0 NT [44 Black-White]











Panton 2.0 NT [03 White]

Model	Order Codes	Color	CRI / Color temp.	Optic
	On-Off	Alu / Grey Black White Mixed White-Black Black-White	CR180 2700K CR180 3000K CR180 4000K	Spot 20° Wide 50°
		.01 .02 .03 .99 .33 .44	.827 .830 .840	.S .W
<b>Panton 1.0</b>				
1.0 NT	1x 6W 400lm <b>IP54</b>	3.1913	● ● ● ● ● ●	● ●
1.0 WP	1x 6W 400lm <b>IP54</b>	4.1914	● ● ● ●	● ●
<b>Panton 2.0</b>				
2.0 NT	1x 10W 900lm <b>IP65</b>	3.1875	● ● ● ● ● ●	● ●
2.0 WP	1x 10W 900lm <b>IP65</b>	4.1876	● ● ● ●	● ●

Lumen output from luminaire | Wartość lumenów z oprawy

**Panton**

1.0 NT	1.0 WP	2.0 NT	2.0 WP
 85	 79	 120	 120
 21	 45 fi72 h60	 38	 48 fi100 h80









# ***Proxa***

*surface . suspended*



Katarzyna Kraszewska Architektura Wnętrz · Private apartment, Warszawa · Photo · Tom Kurek



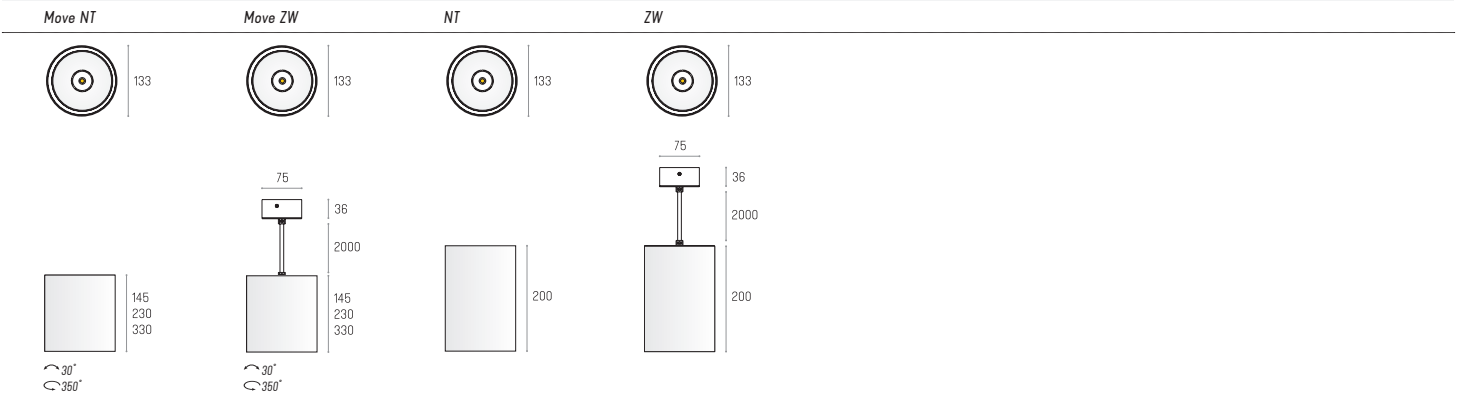


Model Order Codes Color CRI / Color temp. Optic

		On-Off	DALI	PhaseCut	Alu / Grey .01	Black .02	White .03	Mixed .99	CR190 2700K .927	CR190 3000K .930	CR190 4000K .940	Spot 13° .S	Medium 32° .M	Wide 48° .W	Spot 18° .S	Medium 35° .M	Wide 55° .W
<b>Proxa NT</b>																	
QR111	1x 0-50W G53 QR-LP 111	3.0414			●	●	●	●									
edge.LED	1x 12W 1200lm	3.0820	3.1540	3.1539	●	●	●	●	●	●	●				●	●	●
<b>Proxa Move NT</b>																	
H145 QR111	1x 0-50W G53 QR-LP 111	3.0373			●	●	●	●									
H230 QR111	1x 0-50W G53 QR-LP 111	3.0374			●	●	●	●									
H330 QR111	1x 0-50W G53 QR-LP 111	3.0556			●	●	●	●									
H145 edge.LED	1x 6.5W 600lm	3.0729	3.1662	3.1661	●	●	●	●	●	●	●	●	●	●			
H230 edge.LED	1x 6.5W 600lm	3.0730	3.1664	3.1663	●	●	●	●	●	●	●	●	●	●			
H330 edge.LED	1x 6.5W 600lm	3.0731	3.1666	3.1665	●	●	●	●	●	●	●	●	●	●			
<b>Proxa ZW</b>																	
QR111	1x 0-50W G53 QR-LP 111	5.0415			●	●	●	●									
edge.LED	1x 12W 1200lm	5.0821	5.1543	3.1542	●	●	●	●	●	●	●				●	●	●
<b>Proxa Move ZW</b>																	
H145 QR111	1x 0-50W G53 QR-LP 111	5.0846			●	●	●	●									
H230 QR111	1x 0-50W G53 QR-LP 111	5.0847			●	●	●	●									
H330 QR111	1x 0-50W G53 QR-LP 111	5.0848			●	●	●	●									
H145 edge.LED	1x 6.5W 600lm	5.0732	5.1668	5.1667	●	●	●	●	●	●	●	●	●	●			
H230 edge.LED	1x 6.5W 600lm	5.0733	5.1670	5.1669	●	●	●	●	●	●	●	●	●	●			
H330 edge.LED	1x 6.5W 600lm	5.0734	5.1672	5.1671	●	●	●	●	●	●	●	●	●	●			

● CR198  
● CR190

**Proxa**



- Tubular downlights with or without adjustable lamphead
- Surface mounted or suspended
- CRI90 3-step and CRI98 2-step as a standard
- edge.LED module replaceable without tools



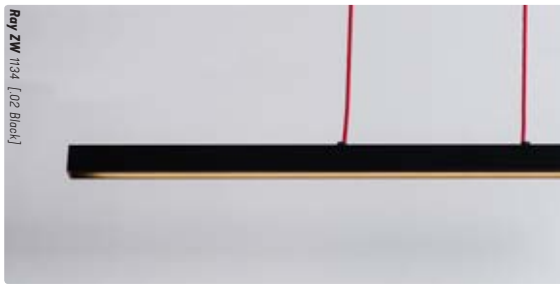




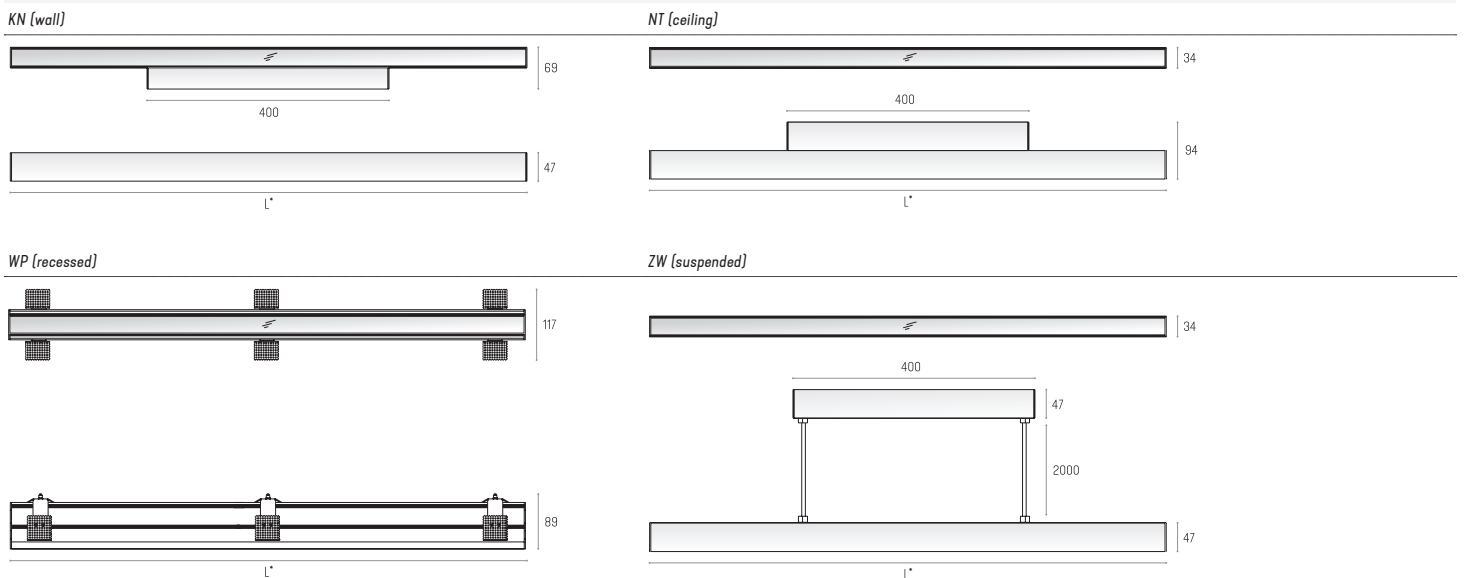
# **Ray**

*wall . surface . suspended . recessed*

- Recessed cover gives lightness and slightly reduces glare
- Surface mounted, suspended, recessed trimless or wall mounted luminaires
- Many lengths to choose from
- Two covers available
  - DF** - classic diffused opal
  - MP** - microprismatic satin
- **CRISO** 3-step as a standard



**Ray**



Ⓜ L' = 5 x 60 h110

Model	Order Codes	Color	CRI / Color temp.	Optic	
		On-Off - Switch-DALI	Alu / Grey - Black - White - Mixed .01 .02 .03 .99	CR90 2700K - CR90 3000K - CR90 4000K .927 .930 .940	Diffused - Microprismatic .DF .MP
<b>Ray KN (wall)</b>					
304mm LP	8W 850lm	6.0600			
574mm LP	15W 1700lm	6.0601	6.1565		
574mm HP	26W 3400lm	6.0602	6.1566		
854mm LP	21W 2550lm	6.0603	6.1567		
854mm HP	40W 5100lm	6.0604	6.1568		
1134mm LP	27W 3400lm	6.0605	6.1569		
1134mm HP	53W 6800lm	6.0606	6.1570		
1414mm LP	34W 4300lm	6.0607	6.1571		
1414mm HP	65W 8500lm	6.0608	6.1572		
1694mm LP	40W 5100lm	6.0609	6.1573		
1694mm HP	78W 10200lm	6.0610	6.1574		
<b>Ray NT (ceiling)</b>					
574mm LP	15W 1700lm	6.0612	6.1575		
574mm HP	26W 3400lm	6.0613	6.1576		
854mm LP	21W 2550lm	6.0614	6.1577		
854mm HP	40W 5100lm	6.0615	6.1578		
1134mm LP	27W 3400lm	6.0616	6.1579		
1134mm HP	53W 6800lm	6.0617	6.1580		
1414mm LP	34W 4300lm	6.0618	6.1581		
1414mm HP	65W 8500lm	6.0619	6.1582		
1694mm LP	40W 5100lm	6.0620	6.1583		
1694mm HP	78W 10200lm	6.0621	6.1584		
<b>Ray WP G2 (recessed)</b>					
574mm LP	15W 1700lm	6.0914	6.1738		
574mm HP	26W 3400lm	6.0635	6.1595		
854mm LP	21W 2550lm	6.0915	6.1739		
854mm HP	40W 5100lm	6.0637	6.1597		
1134mm LP	27W 3400lm	6.0916	6.1740		
1134mm HP	53W 6800lm	6.0639	6.1599		
1414mm LP	34W 4300lm	6.0917	6.1741		
1414mm HP	65W 8500lm	6.0641	6.1601		
1694mm LP	40W 5100lm	6.0918	6.1742		
1694mm HP	78W 10200lm	6.0643	6.1603		
<b>Ray ZW (suspended)</b>					
574mm LP	15W 1700lm	6.0622	6.1585		
574mm HP	26W 3400lm	6.0623	6.1586		
854mm LP	21W 2550lm	6.0624	6.1587		
854mm HP	40W 5100lm	6.0625	6.1588		
1134mm LP	27W 3400lm	6.0626	6.1589		
1134mm HP	53W 6800lm	6.0627	6.1590		
1414mm LP	34W 4300lm	6.0628	6.1591		
1414mm HP	65W 8500lm	6.0629	6.1592		
1694mm LP	40W 5100lm	6.0630	6.1593		
1694mm HP	78W 10200lm	6.0631	6.1594		

Lumen output from light source | Wartość lumenów ze źródła światła

Roy ZW multicolor 854 [03 White]



- Recessed cover gives lightness and slightly reduces glare
- Surface mounted, suspended, recessed trimless or wall mounted luminaires
- Many lengths to choose from
- Two light distribution angles to choose from
- Ring around lens always black
- Additionally recessed light source limits glare effect
- **CRI90** 3-step as a standard

Roy ZW multicolor 854 [03 White]



Roy WP multicolor 854 [03 White]





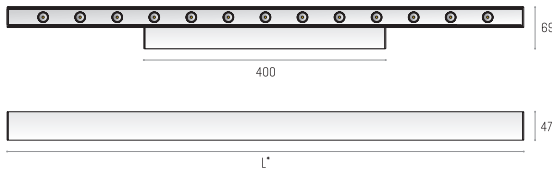
Model Order Codes Color CRI / Color temp.

		On-Off 	Switch-DALI 	Alu / Grey   .01	Black   .02	White   .03	Mixed   .99	CR90 2700K   .927	CR90 3000K   .930	CR90 4000K   .940	Medium 28°   .M	Wide 50°   .W
<b>Ray KN multi.dot</b>												
574mm	17W 1600lm	1.2250	1.2251	●	●	●	●	●	●	●	●	●
854mm	26W 2400lm	1.2252	1.2253	●	●	●	●	●	●	●	●	●
1134mm	34W 3200lm	1.2254	1.2255	●	●	●	●	●	●	●	●	●
1414mm	42W 4000lm	1.2256	1.2257	●	●	●	●	●	●	●	●	●
<b>Ray NT multi.dot</b>												
574mm	17W 1600lm	3.2258	3.2259	●	●	●	●	●	●	●	●	●
854mm	26W 2400lm	3.2260	3.2261	●	●	●	●	●	●	●	●	●
1134mm	34W 3200lm	3.2262	3.2263	●	●	●	●	●	●	●	●	●
1414mm	42W 4000lm	3.2264	3.2265	●	●	●	●	●	●	●	●	●
<b>Ray WP multi.dot</b>												
574mm	17W 1600lm	4.2266	4.2267	●	●	●	●	●	●	●	●	●
854mm	26W 2400lm	4.2268	4.2269	●	●	●	●	●	●	●	●	●
1134mm	34W 3200lm	4.2270	4.2271	●	●	●	●	●	●	●	●	●
1414mm	42W 4000lm	4.2272	4.2273	●	●	●	●	●	●	●	●	●
<b>Ray ZW multi.dot</b>												
574mm	17W 1600lm	5.2274	5.2275	●	●	●	●	●	●	●	●	●
854mm	26W 2400lm	5.2276	5.2277	●	●	●	●	●	●	●	●	●
1134mm	34W 3200lm	5.2278	5.2279	●	●	●	●	●	●	●	●	●
1414mm	42W 4000lm	5.2280	5.2281	●	●	●	●	●	●	●	●	●

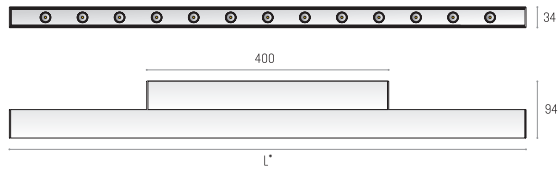
Lumen output from luminaire | Wartość lumenów z oprawy

**Ray multi.dot**

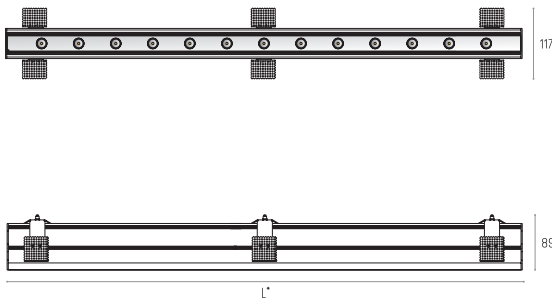
KN (wall)



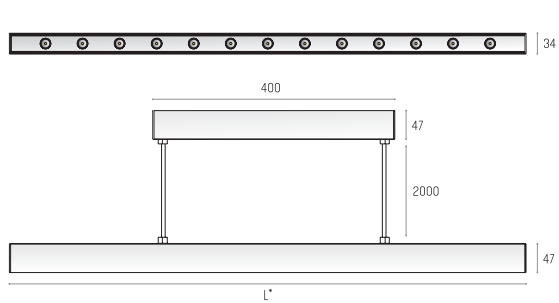
NT (ceiling)



WP (recessed)



ZW (suspended)



⊠ L' -5 x50 h110





**IF  
THE PLAN  
DOESN'T  
WORK  
CHANGE  
THE PLAN  
BUT NEVER  
THE GOAL**



KAMA MUCHA interior design · Notary Office Poland · Photo · Krzysztof Zgola

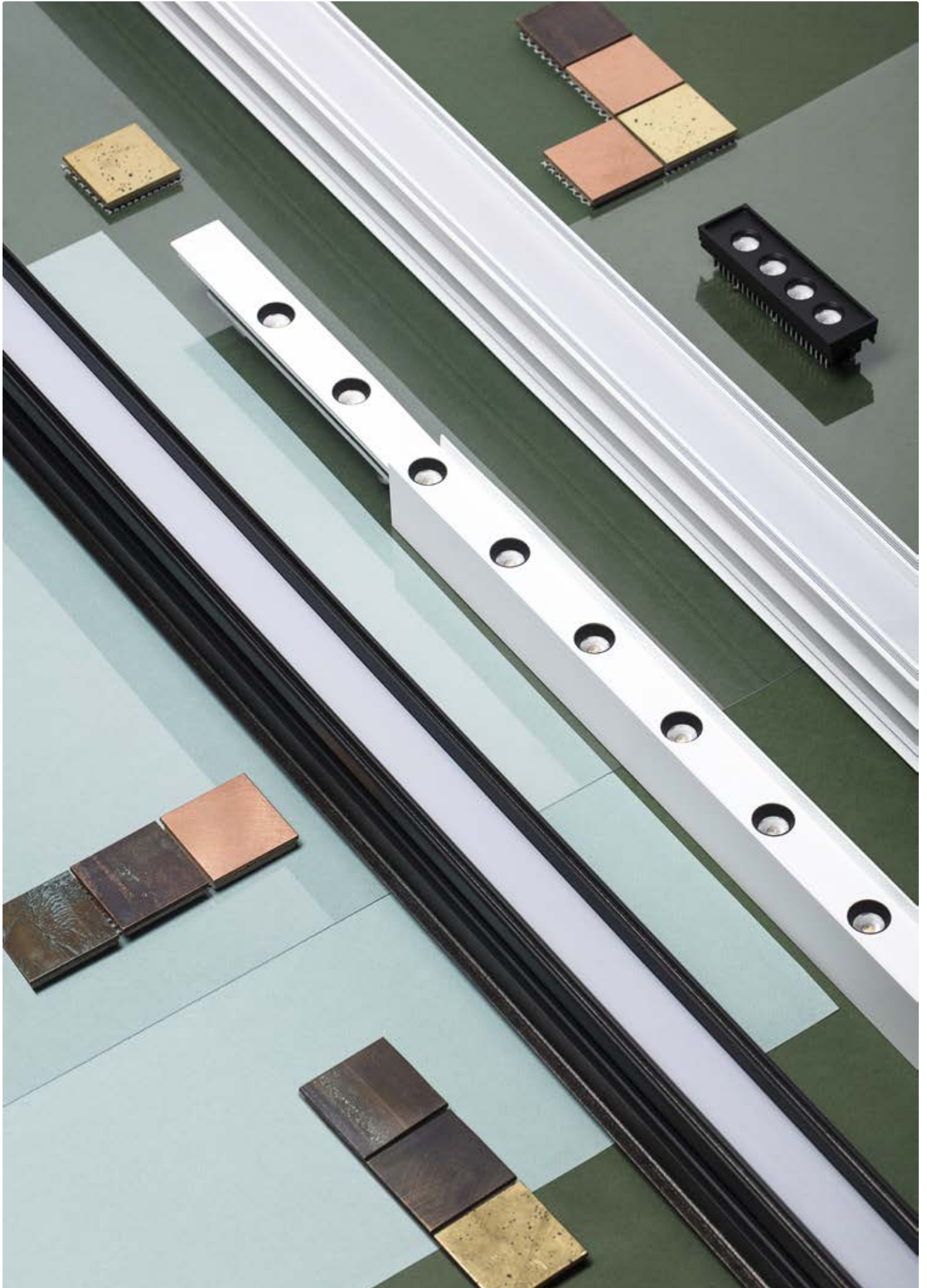


BESIGN Studio Arch. Magdalena Borowiec · AIRFLOW Office Gdynia · Photo · Jakub Nowowski, Michał Morzy







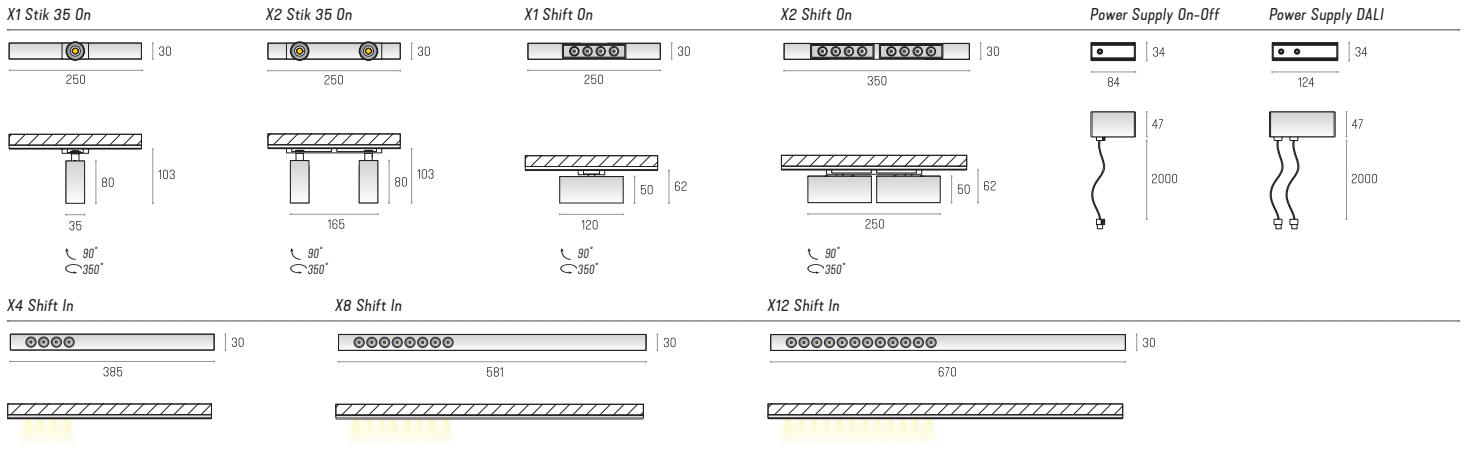




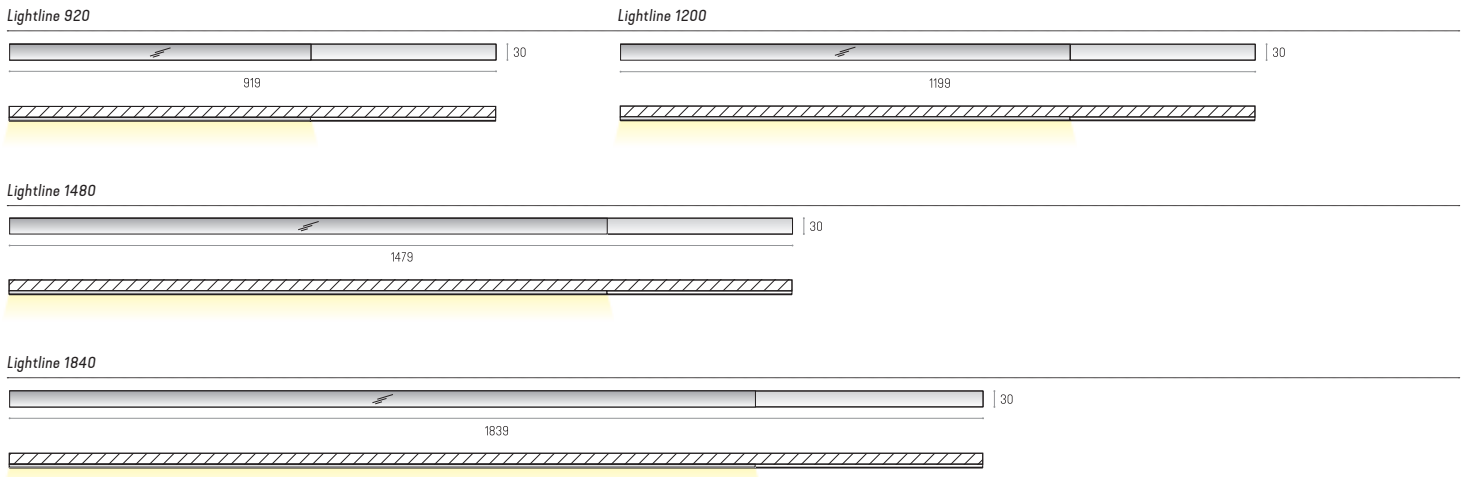
# ***Ray System***

*surface . suspended . recessed*

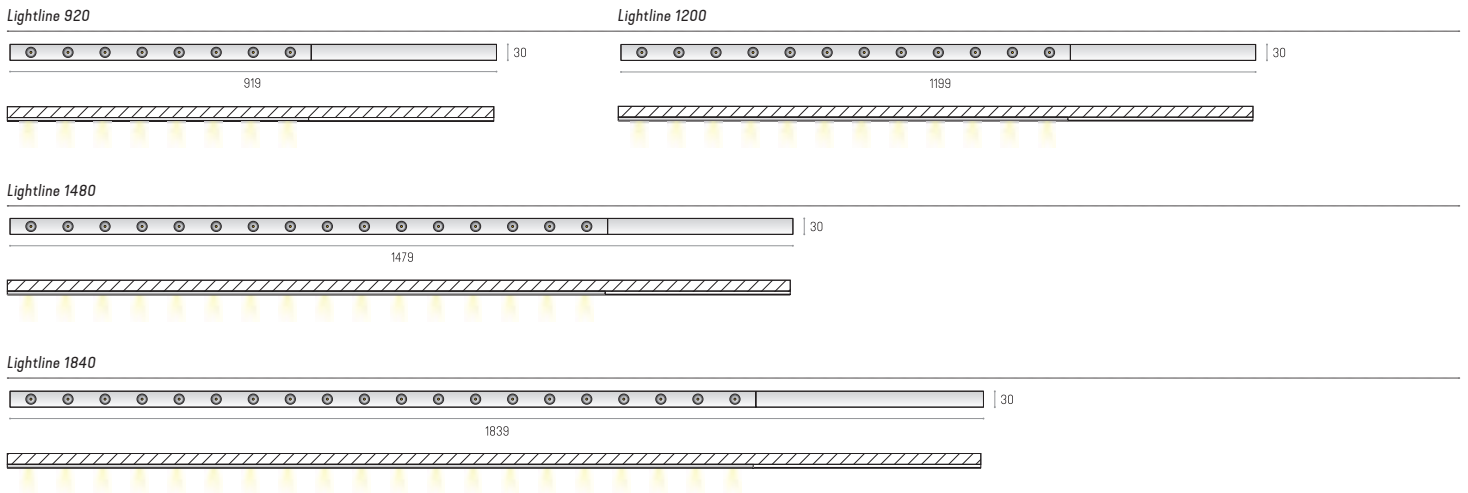
**Ray System NT Modules**



**Ray System NT Lightline**



**Ray System NT multi.dot**



Model Order Codes Color CRI / Color temp. Optic

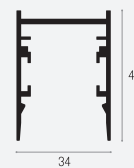
	On-Off —	Switch_DALI —	Accessories —	Alu / Grey — .01	Black — .02	White — .03	Mixed — .99	CR190 2700K — .927	CR190 3000K — .930	CR190 4000K — .940	Diffused — .DF	Microprismatic — .MP	Medium 28° — .M	Wide 50° — .W
<b>Ray System NT (surface)</b>														
Main Profile   1.0 m	6.2345			●	●	●	●							
Lightline 920mm LP   12W 1700lm	6.2310	6.2311		●	●	●	●	●	●		●	●		
Lightline 1200mm LP   19W 2500lm	6.2314	6.2315		●	●	●	●	●	●		●	●		
Lightline 1480mm LP   25W 3300lm	6.2318	6.2319		●	●	●	●	●	●		●	●		
Lightline 1840mm LP   31W 4100lm	6.2322	6.2323		●	●	●	●	●	●		●	●		
Lightline 920mm HP   23W 3000lm	6.2312	6.2313		●	●	●	●	●	●		●	●		
Lightline 1200mm HP   35W 4500lm	6.2316	6.2317		●	●	●	●	●	●		●	●		
Lightline 1480mm HP   46W 6000lm	6.2320	6.2321		●	●	●	●	●	●		●	●		
Lightline 1840mm HP   57W 7500lm	6.2324	6.2325		●	●	●	●	●	●		●	●		
X1 Stik 35 On-Ray Move   1x 6W 600lm 44°	6.2302			●	●	●	●	●	●	●				
X2 Stik 35 On-Ray Move   2x 6W 600lm 44°	6.2304	6.2305		●	●	●	●	●	●	●				
X1 Shift On-Ray-Move   1x 11W 700lm 37°	6.2294			●	●	●	●	●	●					
X2 Shift On-Ray-Move   2x 11W 700lm 37°	6.2295	6.2296		●	●	●	●	●	●					
4X1 Shift In-Ray G2   1x 9W 800lm	6.2282			●	●	●	●	●	●				●	●
8X1 Shift In-Ray G2   1x 17W 1600lm	6.2284	6.2285		●	●	●	●	●	●				●	●
12X1 Shift In-Ray G2   1x 26W 2400lm	6.2286	6.2287		●	●	●	●	●	●				●	●
multi.dot 920   17W 1600lm	6.2326	6.2327		●	●	●	●	●	●				●	●
multi.dot 1200   26W 2400lm	6.2328	6.2329		●	●	●	●	●	●				●	●
multi.dot 1480   34W 3200lm	6.2330	6.2331		●	●	●	●	●	●				●	●
multi.dot 1840   42W 4000lm	6.2332	6.2333		●	●	●	●	●	●				●	●
<b>Ray System suspension accessories</b>														
Pendant mounting (200cm)			6.2344											
Power supply On-Off (3x 0,5)			6.2342	●	●	●	●							
Power supply DALI (5x 0,5)			6.2343	●	●	●	●							

LIGHTLINE – Lumen output from light source | Wartość lumenów ze źródła światła  
STIK, SHIFT, MULTI.DOT – Lumen output from luminaire | Wartość lumenów z oprawy

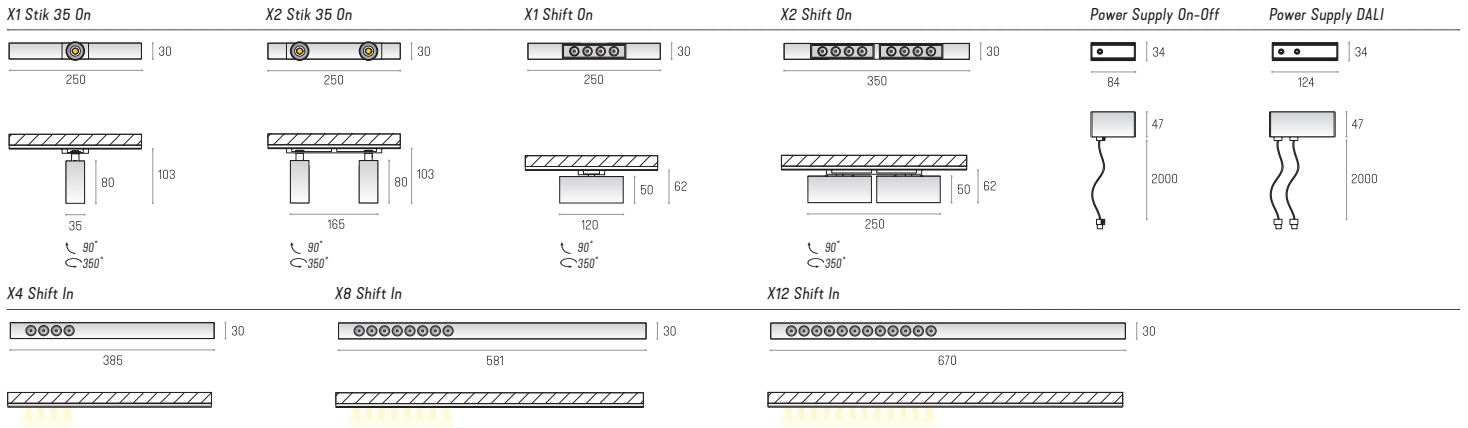
● CR198  
● CR190

- System solution based on Ray luminaires
- Surface mounted & recessed trimless profiles
- Recessed cover gives lightness and slightly reduces glare
- Many modules to choose from
- Always **custom-made**
- No visible mouting elements
- Low profile (47mm height)
- **Requires** detailed drawing from client
- **Angle connections available on request**
- Suspension kit available for surface profile
- **CR190** 3-step and **CR198** 2-step as a standard

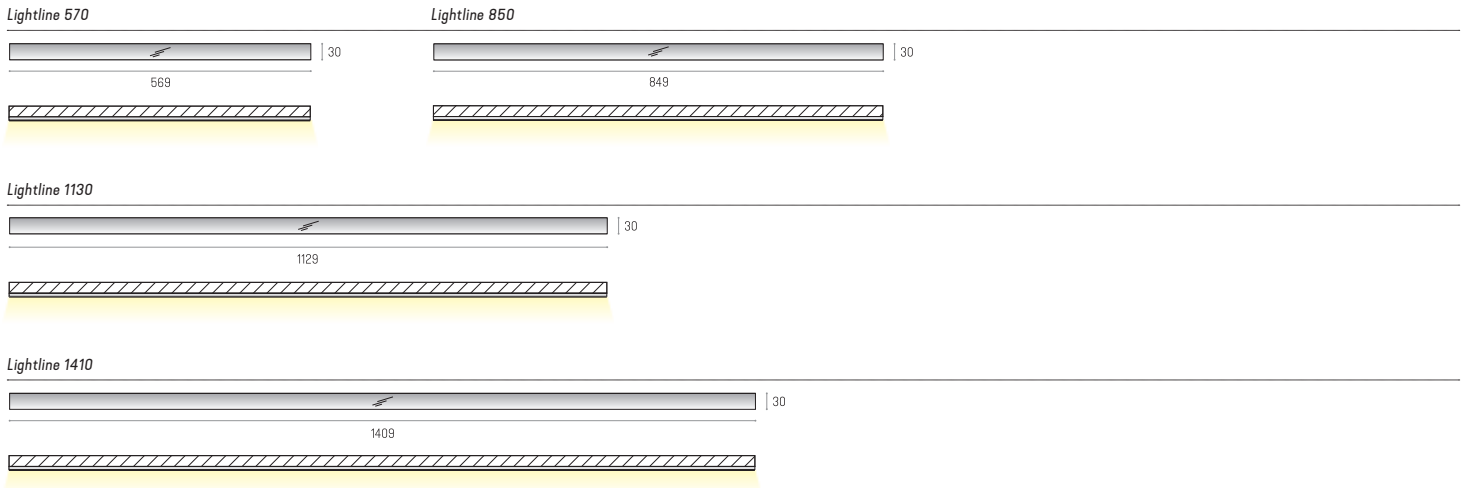
Ray System NT Main Profile cross-section



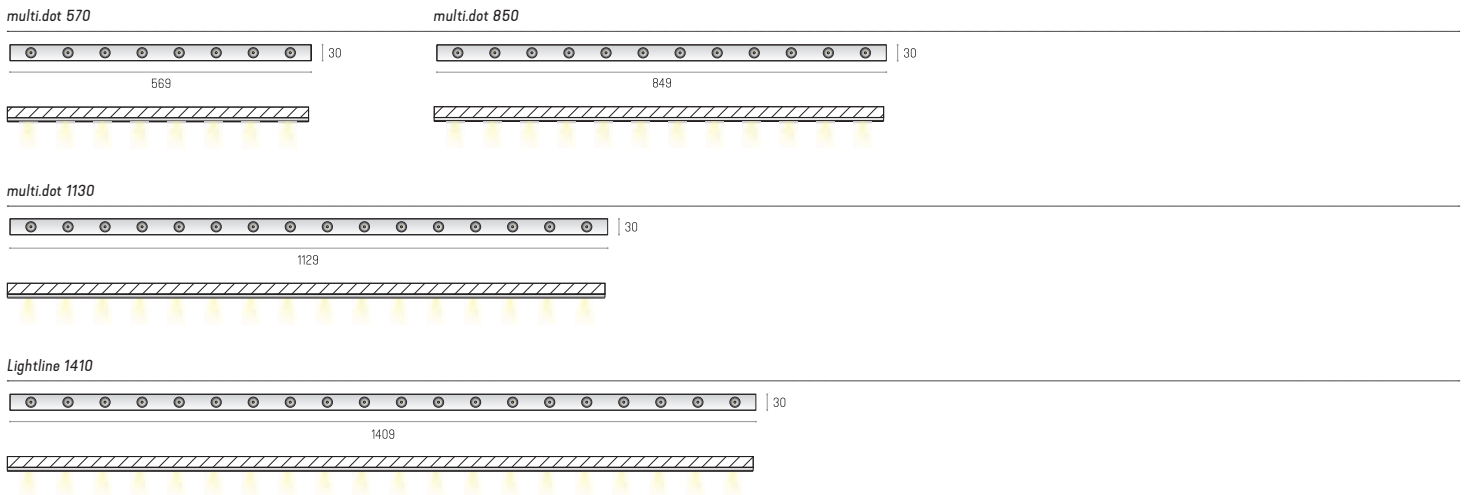
**Ray System WP Modules**



**Ray System WP Lightline**



**Ray System WP multi.dot**



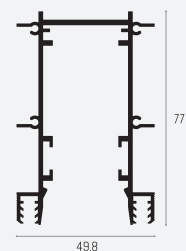
Model	Order Codes	Color	CRI / Color temp.	Optic
	On-Off — —	Switch...DALI — —	Alu / Grey — — Black — White — Mixed — — CRI90 2700K — CRI90 3000K — CRI90 4000K — — — Diffused — Microprismatic — Medium 28° — Wide 50°	
			.01 .02 .03 .99 .927 .930 .940	.DF .MP .M .W
<b>Ray System WP Continuous lightline</b>				
Low Power Lightline	6.1996	6.1997	● ● ● ●	● ●
High Power Lightline	6.1998	6.1999	● ● ● ●	● ●
<b>Ray System WP (recessed)</b>				
Main Profile   1.0 m	6.2000		● ● ● ●	● ●
Lightline 570mm LP   12W 1700lm	6.2012	6.2016	● ● ● ●	● ●
Lightline 850mm LP   19W 2500lm	6.2013	6.2017	● ● ● ●	● ●
Lightline 1130mm LP   25W 3300lm	6.2014	6.2018	● ● ● ●	● ●
Lightline 1410mm LP   31W 4100lm	6.2015	6.2019	● ● ● ●	● ●
Lightline 570mm HP   23W 3000lm	6.2004	6.2008	● ● ● ●	● ●
Lightline 850mm HP   35W 4500lm	6.2005	6.2009	● ● ● ●	● ●
Lightline 1130mm HP   46W 6000lm	6.2006	6.2010	● ● ● ●	● ●
Lightline 1410mm HP   57W 7500lm	6.2007	6.2011	● ● ● ●	● ●
X1 Stik 35 On-Ray Move   1x 6W 600lm 44°	6.2306	6.2307	● ● ● ● ● ● ● ●	
X2 Stik 35 On-Ray Move   2x 6W 600lm 44°	6.2308	6.2309	● ● ● ● ● ● ● ●	
X1 Shift On-Ray-Move   1x 11W 700lm 37°	6.2298	6.2299	● ● ● ● ● ● ● ●	
X2 Shift On-Ray-Move   2x 11W 700lm 37°	6.2300	6.2301	● ● ● ● ● ● ● ●	
4X1 Shift In-Ray G2   1x 9W 800lm	6.2288	6.2289	● ● ● ● ● ● ● ●	● ●
8X1 Shift In-Ray G2   1x 17W 1600lm	6.2290	6.2291	● ● ● ● ● ● ● ●	● ●
12X1 Shift In-Ray G2   1x 26W 2400lm	6.2292	6.2293	● ● ● ● ● ● ● ●	● ●
multi.dot 570   17W 1600lm	6.2334	6.2335	● ● ● ● ● ● ● ●	● ●
multi.dot 850   26W 2400lm	6.2336	6.2337	● ● ● ● ● ● ● ●	● ●
multi.dot 1130   34W 3200lm	6.2338	6.2339	● ● ● ● ● ● ● ●	● ●
multi.dot 1410   42W 4000lm	6.2340	6.2341	● ● ● ● ● ● ● ●	● ●

LIGHTLINE – Lumen output from light source | Wartość lumenów ze źródła światła  
STIK, SHIFT, MULTI.DOT – Lumen output from luminaire | Wartość lumenów z oprawy

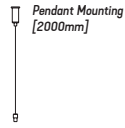
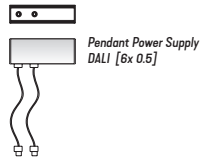
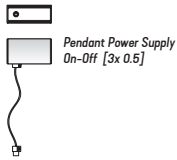
● CRI98  
● CRI90

- System solution based on Ray luminaires
- Surface mounted & recessed trimless profiles
- Recessed cover gives lightness and slightly reduces glare
- Many modules to choose from
- Always **custom-made**
- No visible mouting elements
- Low profile (47mm height)
- **Requires** detailed drawing from client
- **Angle connections available on request**
- Suspension kit available for surface profile
- **CRI90** 3-step and **CRI 98** 2-step as a standard

Ray System WP Main Profile cross-section

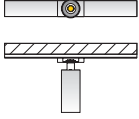


□ L\* -5 x60 h110

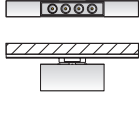


Ray NT Main Profile

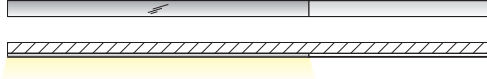
x1 Stik 35 On-Ray Move



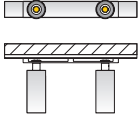
x1 Shift On-Ray Move



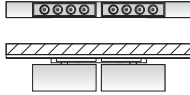
Lightline NT 920



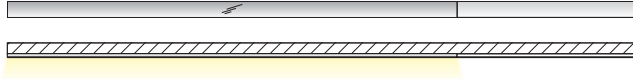
x2 Stik 35 On-Ray Move



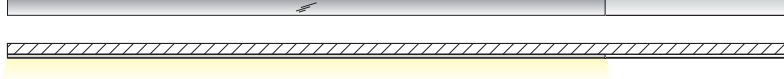
x2 Shift On-Ray Move



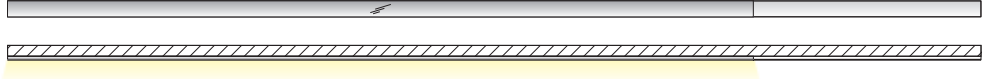
Lightline NT 1200



Lightline NT 1480

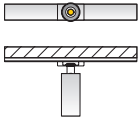


Lightline NT 1840

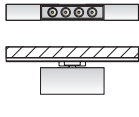


Ray WP Main Profile

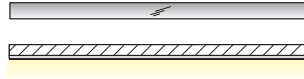
x1 Stik 35 On-Ray Move



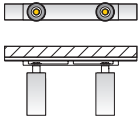
x1 Shift On-Ray Move



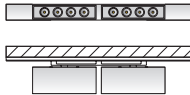
Lightline WP 570



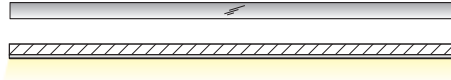
x2 Stik 35 On-Ray Move



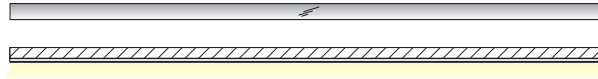
x2 Shift On-Ray Move



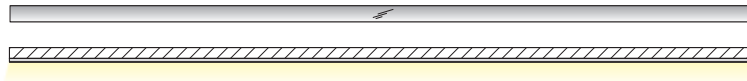
Lightline WP 850



Lightline WP 1130

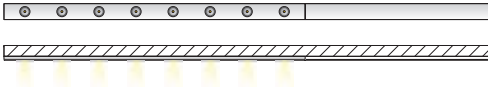


Lightline WP 1410

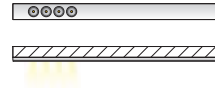




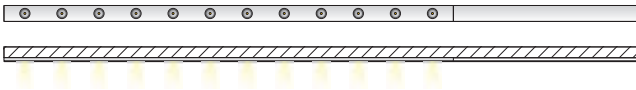
multi.dot NT 920



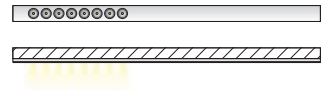
Shift In G2 X4



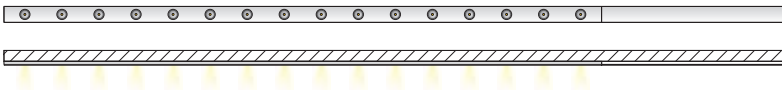
multi.dot NT 1200



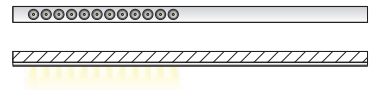
Shift In G2 X8



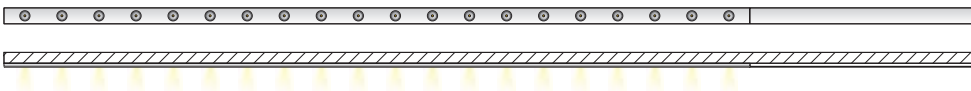
multi.dot NT 1480



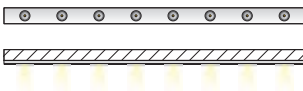
Shift In G2 X12



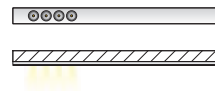
multi.dot NT 1840



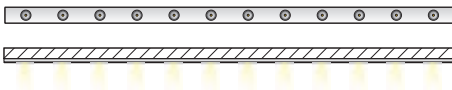
multi.dot WP 570



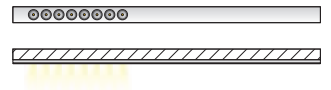
Shift In G2 X4



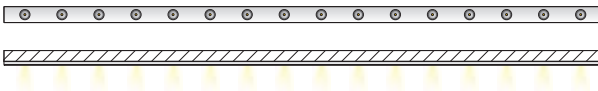
multi.dot WP 850



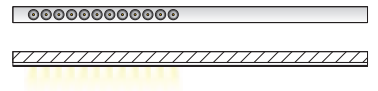
Shift In G2 X8



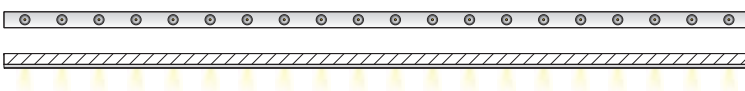
multi.dot WP 1130



Shift In G2 X12



multi.dot WP 1410









Ray System NT [02 Black]

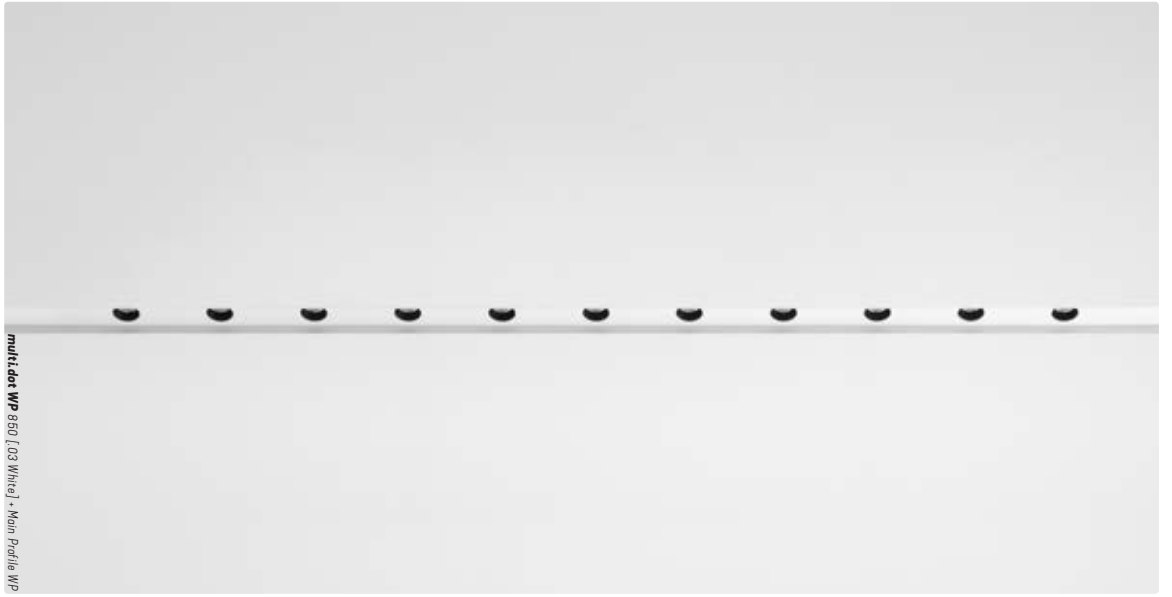


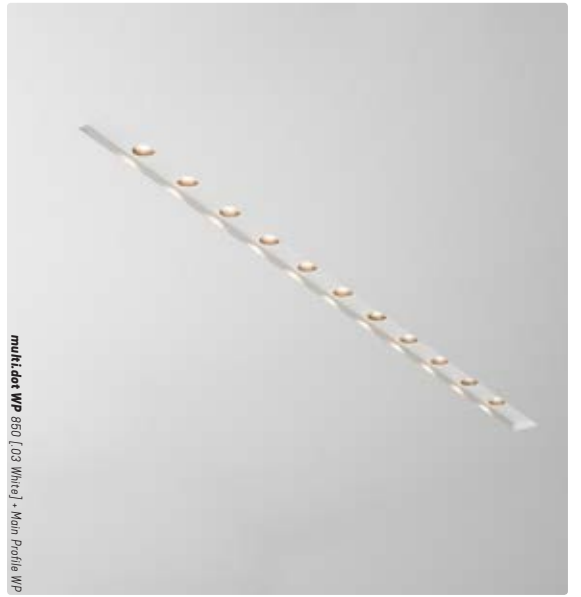
X1 Shift-On-Ray Move [03 White] - Main Profile WP



Shift-In-Ray old version [02 Black] - Main Profile WP







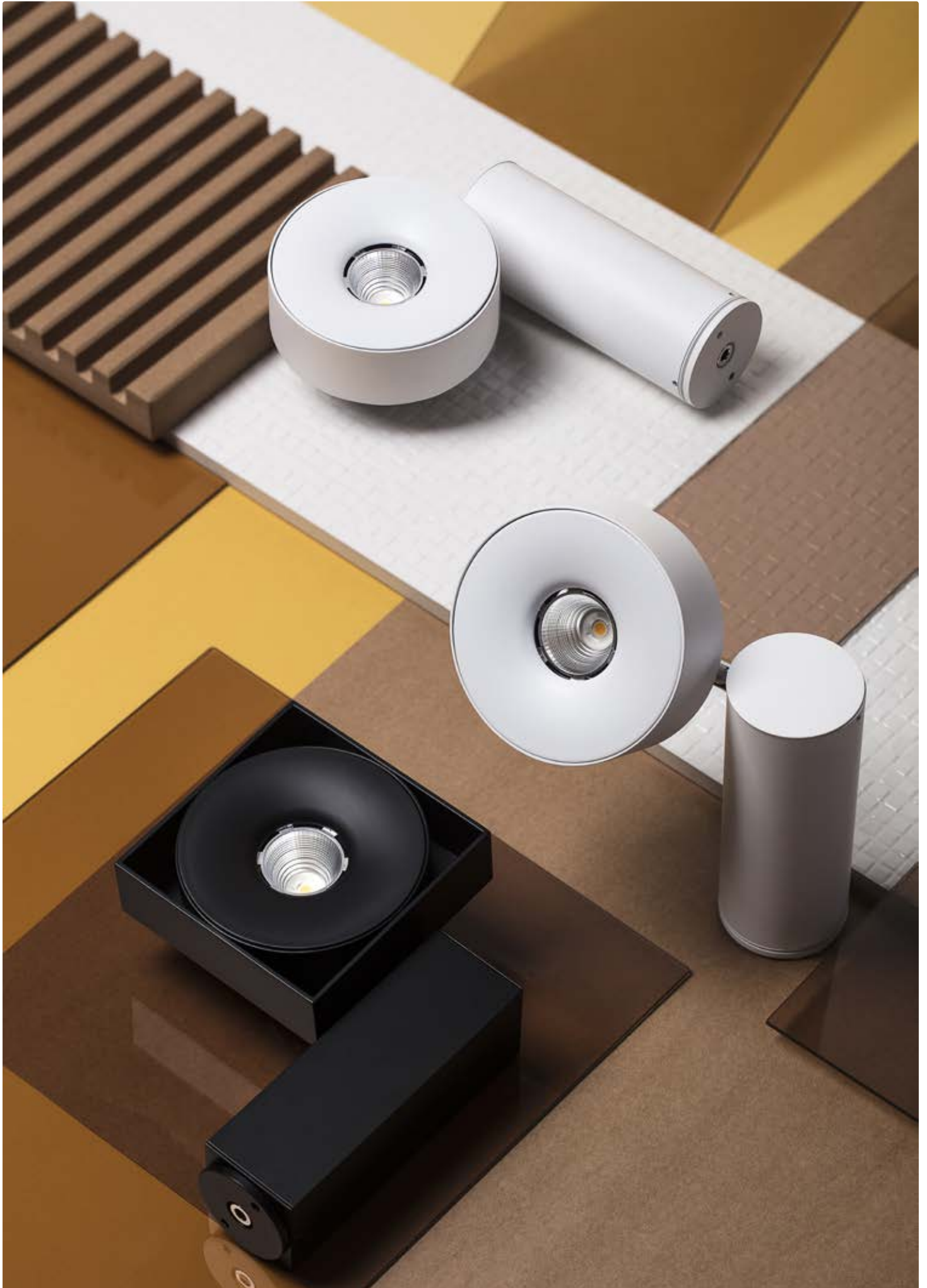


MOKKA Architekti · Private apartment, Kraków · Visualization



3D Studio GIZMO . Visualisation . Uliana Smolska







# ***Robotic***

*spotlight . track spotlight*

Robotic 01 08-12 11 [03 White]



Robotic R1 edge LED 10 10 31 [03 White]



Robotic R2 edge LED [02 Black]



Robotic R1 edge LED [99 Mixed]



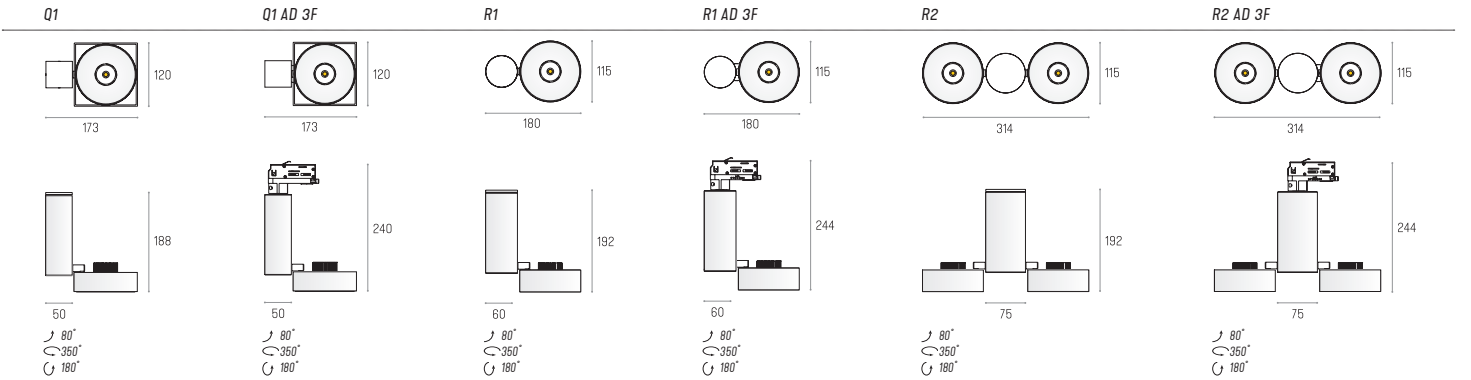
Model Order Codes Color CRI / Color temp. Optic

	On-Off	DALI*	PhaseCut	CASAMBI Wireless	Alu / Grey .01	Black .02	White .03	Mixed .99	CR190 2700K .927	CR190 3000K .930	CR190 4000K .940	Spot 13° .S	Medium 32° .M	Wide 48° .W	Spot 18° .S	Medium 35° .M	Wide 55° .W
<b>Robotic R</b>																	
R1   1x 0-50W G53 QR-LP 111	2.0123				●	●	●	●									
R1 Adaptor 3F   1x 0-50W G53 QR-LP 111	7.0139				●	●	●	●									
R2   2x 0-50W G53 QR-LP 111	2.0124				●	●	●	●									
R2 Adaptor 3F   2x 0-50W G53 QR-LP 111	7.0140				●	●	●	●									
R1 edge.LED   1x 6.5W 600lm	2.0708	2.1701	2.1687	2.2411	●	●	●	●	●	●	●	●	●	●			
R1 Adaptor 3F edge.LED   1x 6.5W 600lm	7.0710	7.1703	7.1689	7.2412	●	●	●	●	●	●	●	●	●	●			
R1 edge.LED   1x 12W 1200lm	2.0709	2.1702	2.1688	2.2413	●	●	●	●	●	●	●				●	●	●
R1 Adaptor 3F edge.LED   1x 12W 1200lm	7.0711	7.1704	7.1690	7.2414	●	●	●	●	●	●	●				●	●	●
R2 edge.LED   2x 6.5W 600lm	2.0716	2.1705	2.1695	2.2415	●	●	●	●	●	●	●	●	●	●			
R2 Adaptor 3F edge.LED   2x 6.5W 600lm	7.0718	7.1749	7.1697	7.2416	●	●	●	●	●	●	●	●	●	●			
R2 edge.LED   2x 12W 1200lm	2.0717	2.1750	2.1696	2.2417	●	●	●	●	●	●	●				●	●	●
R2 Adaptor 3F edge.LED   2x 12W 1200lm	7.0719	7.1751	7.1698	7.2418	●	●	●	●	●	●	●				●	●	●
<b>Robotic Q</b>																	
Q1   1x 0-50W G53 QR-LP 111	2.0121				●	●	●	●									
Q1 Adaptor 3F   1x 0-50W G53 QR-LP 111	7.0137				●	●	●	●									
Q1 edge.LED   1x 6.5W 600lm	2.0712		2.1691		●	●	●	●	●	●	●	●	●	●			
Q1 Adaptor 3F edge.LED   1x 6.5W 600lm	7.0714		7.1693		●	●	●	●	●	●	●	●	●	●			
Q1 edge.LED   1x 12W 1200lm	2.0713				●	●	●	●	●	●	●				●	●	●
Q1 Adaptor 3F edge.LED   1x 12W 1200lm	7.0715				●	●	●	●	●	●	●				●	●	●

Lumen output from luminaire | Wartość lumenów z oprawy

● CR198  
● CR190

Robotic



- Versatile family of spotlights
- Adjustable lamphead 80° | 180°
- Available with integrated LED or for QR111 retrofits
- Ceiling mounted or with 3 phase adapter
- CR190 3-step and CR198 2-step as a standard
- edge.LED module replaceable without tools









Oknoplast Showroom, Piekary Śląskie . Photo . **Tomasz Zdrzewski ARCHIFOLIO**





# ***Runda***

*wall*

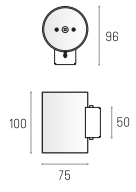


- Wall mounted luminaire
- For classic G9 light sources or with integrated PowerLED's
- CRI90 3-step as a standard in LED version

Model Order Codes Color CRI / Color temp. Optic

		On-Off		Alu / Grey   Black   White   Mixed
				.01 .02 .03 .99
<b>Runda</b>				
Runda G9	1x max 25W G9 QT14		<b>1.0296</b>	● ● ● ●
Runda LED	2x 2W 3000K CRI90		<b>1.0295</b>	● ● ● ●

**Runda**  
G9 & LED



Private Apartments, Kraków - Photo: Wojciech Koszyk



# ***Shift***

*wall . surface . recessed . spotlight . track spotlight*



Shift 12.1 10.3F [03 White]



Shift 12.1 10.3F Trimless [02 Black]



Shift 12.1 10.3F [02 Black]

- Versatile family of adjustable spotlights & downlights
- State-of-the-art optics & anti-glare screen in **12.1** version
- Magnetic [**tool-free**] mounting of inner body in trimless version
- No visible mounting elements
- Very low glare **UGR-19**
- 'dark light' optics in **12.1** version
- Ceiling mounted, recessed or with 3 phase adapter
- Screen around optics always black
- **CRI90** 3-step as a standard



Shift 10 10.1F [03 White]



Shift 10 10.1F Trimless [03 White]



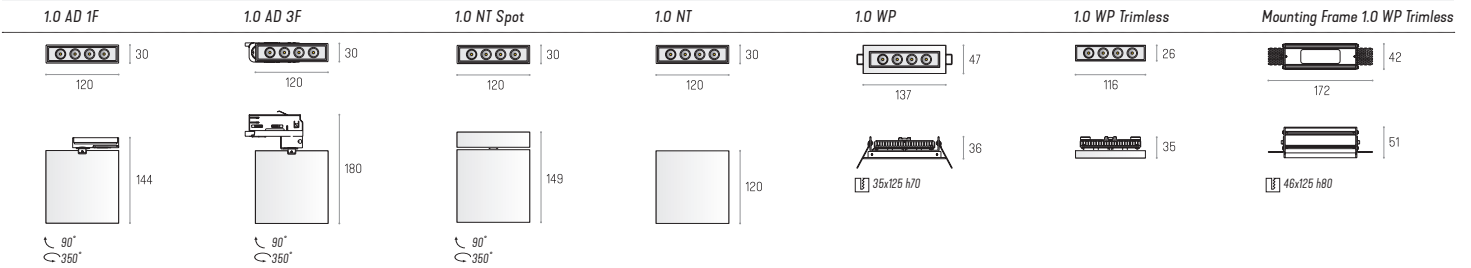
Shift 10 Spot NT [03 White]

Model Order Codes Color CRI / Color temp. Optic

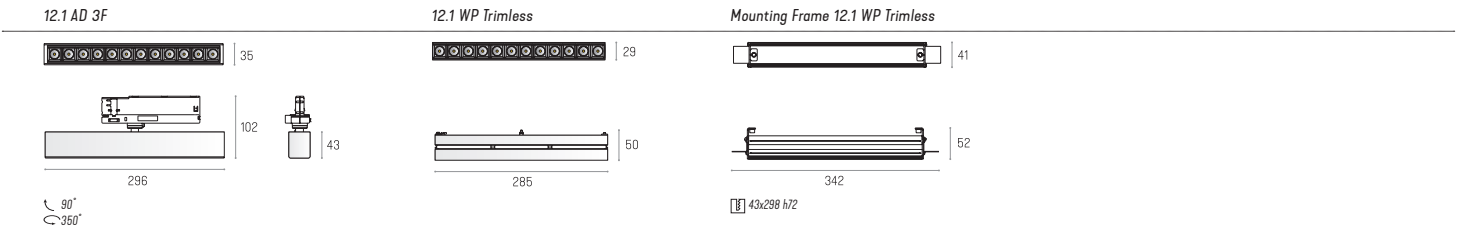
		On-Off	DALI	PhaseCut	Accessories	.01 — Alu / Grey	.02 — Black	.03 — White	.99 — Mixed	.927 — CR190 2700K	.930 — CR190 3000K	.940 — CR190 4000K	.S — Spot 18°	.W — Wide 45°
<b>Shift 1.0</b>														
1.0 Spot NT	1x 11W 700lm 37°	2.1230	2.1231	2.1232		●	●	●	●		●	●		
1.0 Adaptor 1F	1x 11W 700lm 37°	7.1233		7.1234		●	●	●	●		●	●		
1.0 Adaptor 3F	1x 11W 700lm 37°	7.1235	7.1236	7.1237		●	●	●	●		●	●		
<b>Shift 1.0 NT</b>														
1.0 NT	1x 11W 700lm 37°	3.1238	3.1239	3.1240		●	●	●	●		●	●		
<b>Shift 1.0 WP</b>														
1.0 WP	1x 11W 700lm 37°	4.1244	4.1245	4.1246		●	●	●	●		●	●		
1.0 WP Trimless	1x 11W 700lm 37°	4.1247	4.1248	4.1249	1	●	●	●	●		●	●		
1	1.0 WP Trimless Mounting frame [ required ]				4.2102									
<b>Shift 12.1</b>														
12.1 Adaptor 3F	1x 18W 1600lm	7.1879	7.1880			●	●	●	●		●	●	●	●
<b>Shift 12.1 WP</b>														
12.1 WP Trimless	1x 18W 1600lm	4.2158	4.2159	4.2160			●				●	●	●	●
12.1 WP Trimless Mounting frame [ required ]					4.2188	●	●	●	●					

Lumen output from luminaire | Wartość lumenów z oprawy

**Shift 1.0**



**Shift 12.1**









SHIT 123 AD 3E [03 White]







# ***Solid***

*surface . recessed*



Solid 1532 edge.LED [99 Mixed]

- Wide range of surface mounted luminaires with adjustable lampheads
- 110.x version with best in class 50mm **mini.LED** light sources with **900lm** light output
- **tool-free** mounting of inner body with
- No visible mounting elements
- Both lines available with integrated LED's or with QR1111 QPAR16 retrofits
- **CR190** 3-step and **CR198** 2-step as a standard
- **edge.LED** module replaceable without tools



Solid 1533 edge.LED [99 Mixed]



Solid 1531 10R-UP 111 [23 White-Black]

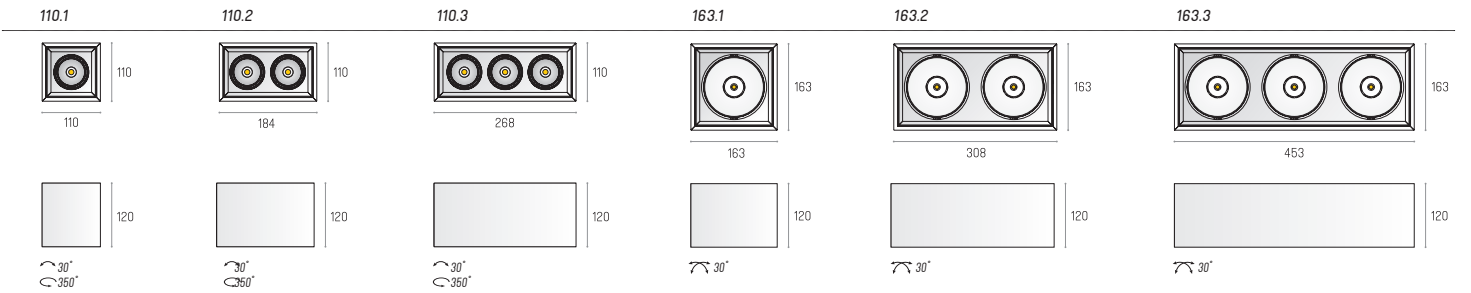
Model Order Codes Color CRI / Color temp. Optic

		On-Off	Switch-DALI	PhaseCut	CASAMBI Wireless	.01 Alu   Grey	.02 Black	.03 White	.33 White + Black	.99 Mixed	.927 CRI90 2700K	.930 CRI90 3000K	.940 CRI90 4000K	.S Spot 13°	.M Medium 32°	.W Wide 48°	.S Spot 18°	.M Medium 35°	.W Wide 55°
<b>Solid 163.x</b>																			
163.1 QR111	1x 0-50W G53 QR-LP 111	3.0651				●	●	●	●	●									
163.2 QR111	2x 0-50W G53 QR-LP 111	3.0652				●	●	●	●	●									
163.3 QR111	3x 0-50W G53 QR-LP 111	3.0653				●	●	●	●	●									
163.1 edge.LED	1x 6.5W 600lm	3.0655	3.1443	3.1442	3.2419	●	●	●	●	●	●	●	●	●	●	●			
163.2 edge.LED	2x 6.5W 600lm	3.0656	3.1445	3.1444	3.2420	●	●	●	●	●	●	●	●	●	●	●			
163.3 edge.LED	3x 6.5W 600lm	3.0657	3.1447	3.1446	3.2421	●	●	●	●	●	●	●	●	●	●	●			
163.1 edge.LED	1x 12W 1200lm	3.0659	3.1481	3.1480	3.2422	●	●	●	●	●	●	●	●				●	●	●
163.2 edge.LED	2x 12W 1200lm	3.0660	3.1483	3.1482	3.2423	●	●	●	●	●	●	●	●				●	●	●
163.3 edge.LED	3x 12W 1200lm	3.0661	3.1485	3.1484	3.2424	●	●	●	●	●	●	●	●				●	●	●
<b>Solid 110.x</b>																			
110.1 GU10	1x 8W GU10 QPAR16 LED	3.0704				●	●	●	●	●									
110.2 GU10	2x 8W GU10 QPAR16 LED	3.0705				●	●	●	●	●									
110.3 GU10	3x 8W GU10 QPAR16 LED	3.0706				●	●	●	●	●									
110.1 LED	1x 6.5W 600lm	3.0700				●	●	●	●	●	●	●	●	●	●	●			
110.2 LED	2x 6.5W 600lm	3.0701				●	●	●	●	●	●	●	●	●	●	●			
110.3 LED	3x 6.5W 600lm	3.0702				●	●	●	●	●	●	●	●	●	●	●			
110.1 mini.LED	1x 8.5W 850lm 47°	3.1896				●	●	●	●	●	●	●	●						
110.2 mini.LED	2x 8.5W 850lm 47°	3.1897				●	●	●	●	●	●	●	●						
110.3 mini.LED	3x 8.5W 850lm 47°	3.1898				●	●	●	●	●	●	●	●						

Lumen output from luminaire | Wartość lumenów z oprawy

● CRI98  
● CRI90

**Solid 110 | 163**





- Range of surface mounted and trimless recessed luminaires
- **tool-free** mounting of inner body with no visible mounting elements
- **Requires** mounting frames
- Cover made of opal PMMA
- CRI80 3-step as a standard



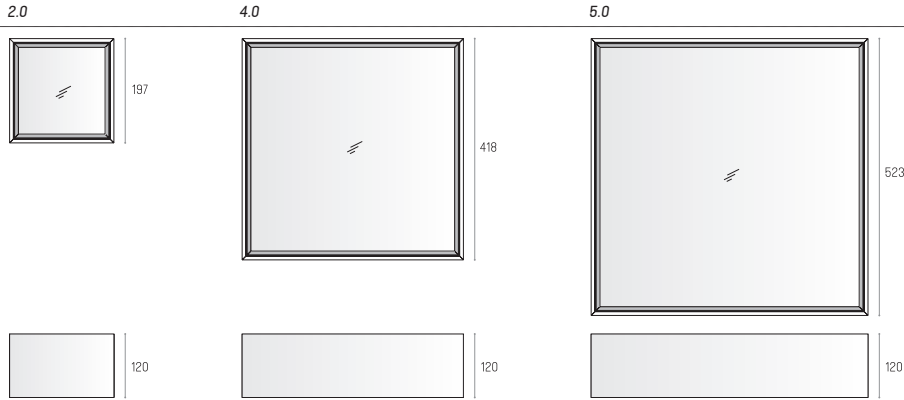


Model Order Codes Color CRI / Color temp. Optic

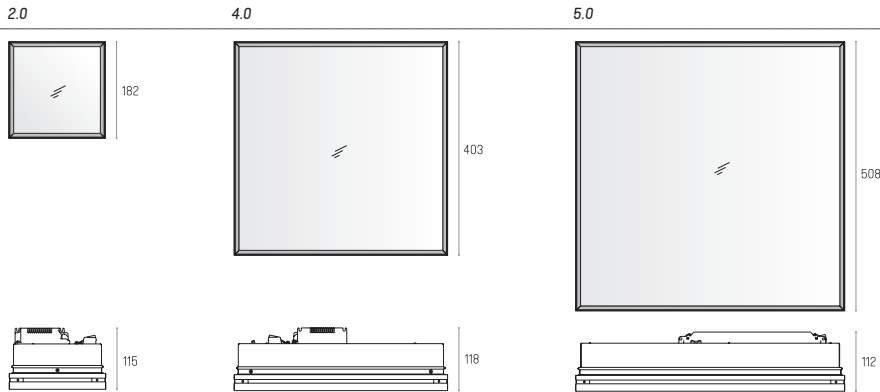
		On-Off	Switch-DALI	CASAMBI Wireless	Accessories	Alu / Grey	Black	White	White + Black	Mixed	CR180 2700K	CR180 3000K	CR180 4000K
		—	—	—	—	.01	.02	.03	.33	.99	.827	.830	.840
<b>Solid Area NT</b>													
2.0 NT	23W 2800lm	3.1250	3.1251	3.2425	①	●	●	●	●	●	●	●	●
4.0 NT	35W 4800lm	3.1252	3.1253	3.2426	②	●	●	●	●	●	●	●	●
5.0 NT	47W 7200lm	3.1254	3.1255	3.2427	③	●	●	●	●	●	●	●	●
<b>Solid Area WP</b>													
2.0 WP	23W 2800lm	4.1256	4.1257	4.2428		●	●	●	●	●	●	●	●
4.0 WP	35W 4800lm	4.1258	4.1259	4.2429		●	●	●	●	●	●	●	●
5.0 WP	47W 7200lm	4.1260	4.1261	4.2430		●	●	●	●	●	●	●	●
①	2.0 WP - mounting frame	[ required ]			4.2103								
②	4.0 WP - mounting frame	[ required ]			4.2104								
③	5.0 WP - mounting frame	[ required ]			4.2105								

Lumen output from light source | Wartość lumenów ze źródła światła

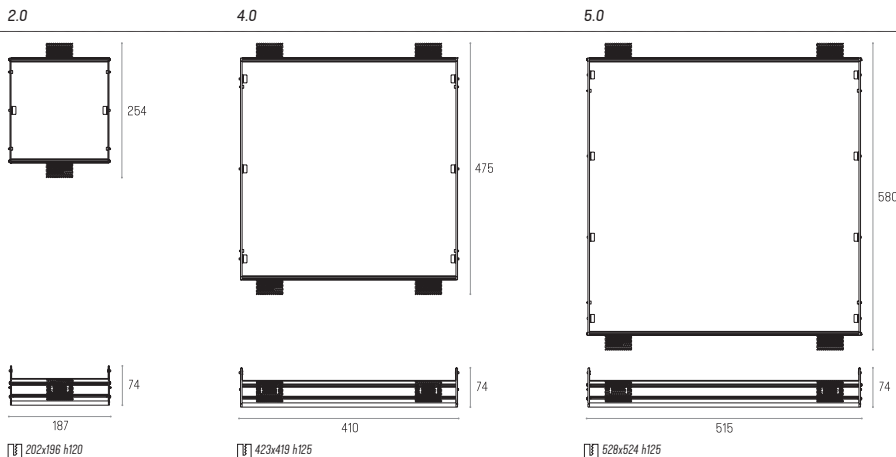
**Solid Area NT**



**Solid Area WP**



**Mounting Frames Solid Area WP [ required ]**



Solid Lightbox NT



Solid Lightbox 135.2 NT [02 Black]



Solid Lightbox 185.2 NT [33 White-Black]



Solid Lightbox 135.1 NT [02 Black]



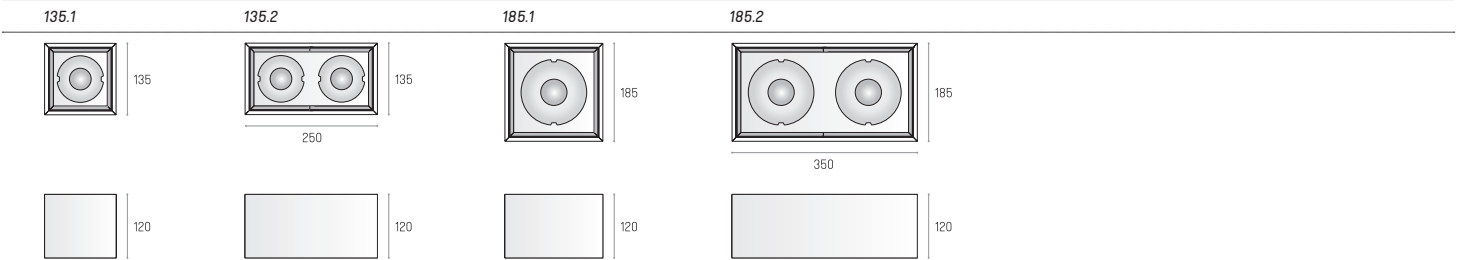
- Range of simplified downlights  
Surface mounted or recessed  
trimless
- Driverless solution
- No visible mounting elements
- CRI80 3-step as a standard

Model Order Codes Color CRI / Color temp. Optic

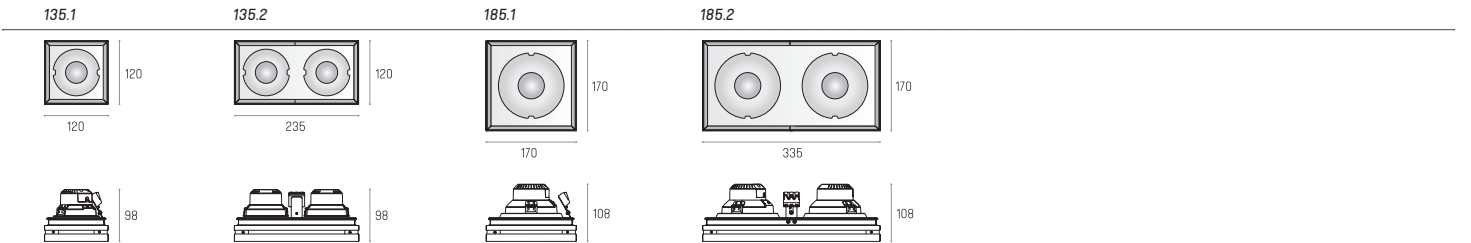
		On-Off	Accessories	Alu / Grey	Black	White	White + Black	Mixed	CR180 2700K	CR180 3000K	CR180 4000K	Wide 60°	X-Wide 90°
				.01	.02	.03	.33	.99	.827	.830	.840	.W	.XW
<b>Solid Lightbox NT</b>													
135.1 NT	1x 12W 1000lm	3.1084		●	●	●	●	●	●	●	●	●	●
135.2 NT	1x 12W 1000lm	3.1085		●	●	●	●	●	●	●	●	●	●
185.1 NT	1x 23W 2000lm	3.1086		●	●	●	●	●	●	●	●	●	●
185.2 NT	2x 23W 2000lm	3.1087		●	●	●	●	●	●	●	●	●	●
<b>Solid Lightbox WP</b>													
135.1 WP	1x 12W 1000lm	4.1093	1	●	●	●	●	●	●	●	●	●	●
135.2 WP	1x 12W 1000lm	4.1094	2	●	●	●	●	●	●	●	●	●	●
185.1 WP	1x 23W 2000lm	4.1095	3	●	●	●	●	●	●	●	●	●	●
185.2 WP	2x 23W 2000lm	4.1096	4	●	●	●	●	●	●	●	●	●	●
1	135.1 WP - mounting frame [ required ]		4.2106										
2	135.2 WP - mounting frame [ required ]		4.2107										
3	185.1 WP - mounting frame [ required ]		4.2108										
4	185.2 WP - mounting frame [ required ]		4.2109										

Lumen output from luminaire | Wartość lumenów z oprawy

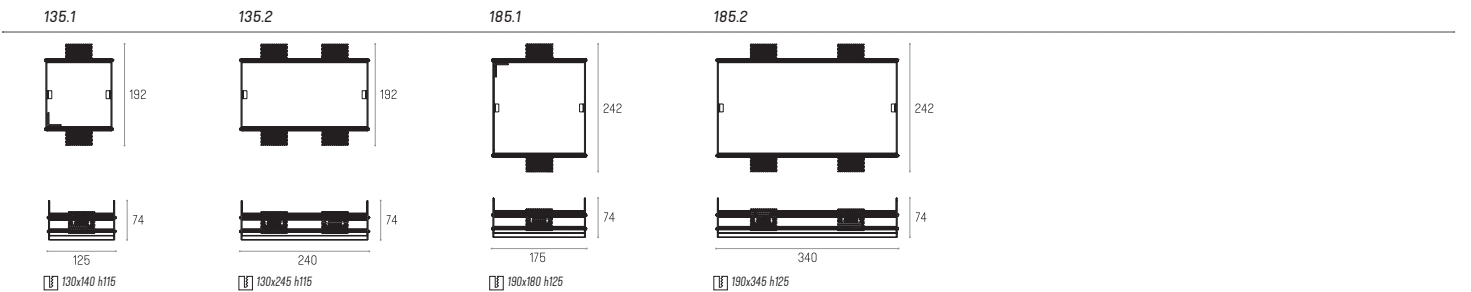
**Solid Lightbox NT**



**Solid Lightbox WP**



**Mounting Frames Solid Lightbox WP [ required ]**

















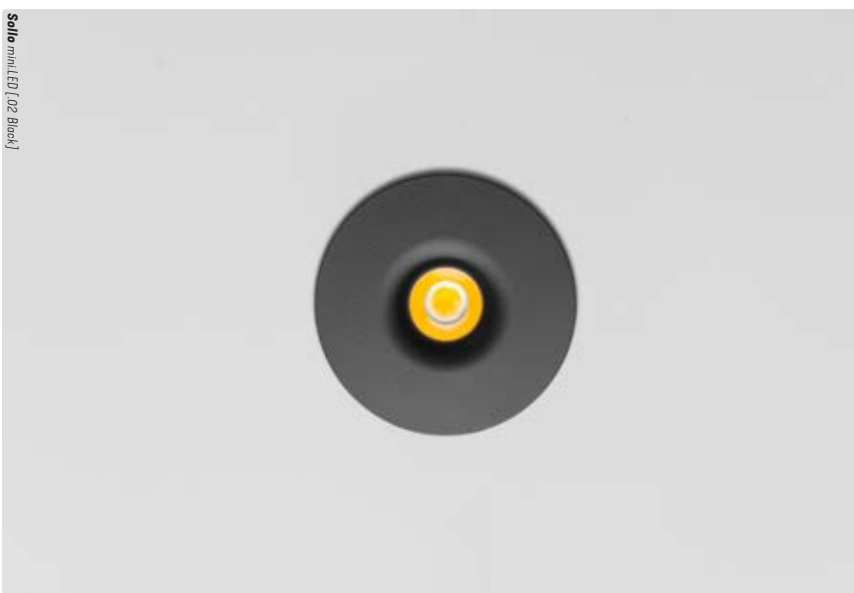


# **Sollo**

*recessed trim*



- Range of recessed downlights with trim
- mini.LED version with best in class 50mm light sources with **900lm** light output
- **tool-free** mounting
- No visible mounting elements
- **CR190** 3-step and **CR198** 2-step as a standard



Model Order Codes Color CRI / Color temp. Optic

		On-Off	Switch-DALI	PhaseCut	CASAMBI Wireless	Alu / Grey .01	Black .02	White .03	Mixed .99	CR190 2700K .927	CR190 3000K .930	CR190 4000K .940	Spot 13° .S	Medium 32° .M	Wide 48° .W	Spot 18° .S	Medium 35° .M	Wide 55° .W
<b>Sollo</b>																		
Sollo mini.LED	1x 8.5W 950lm 47°	4.1910	4.1911	4.2357	4.2431	●	●	●	●	●	●	●						
Sollo R50	1x 5W 480lm	4.0534	4.1537	4.1747	4.2432	●	●	●	●	●	●	●	●	●	●			
Sollo R74	1x 12W 1200lm	4.0536	4.1538	4.1748	4.2433	●	●	●	●	●	●	●				●	●	●

Lumen output from luminaire | Wartość lumenów z oprawy

● CR198  
● CR190

**Sollo**



BODM Architects · Office, Kraków · Photo · Bartek Sanikowski



*designed by Dominika Drezner*

# ***Sporto***

*suspended . semi – recessed*



Sporto 600 ZW [02 Black]

- Designed by **Dominika Drezner**
- Minimalistic lighting object
- Integrated LED light source
- Works best with groups joined in multiplied combinations
- Cover made of PMMA
- Suspension made of very thin, almost transparent line
- No visible mounting elements on main body
- **CR190** 3-step as a standard



Sporto 600 ZW [02 Black]



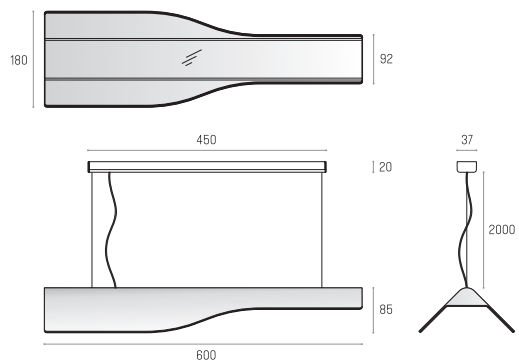
Model Order Codes Color CRI / Color temp.

		On-Off	Switch-DALI	Alu / Grey - .01	Black - .02	White - .03	Mixed - .99	CR190 2700K - .927	CR190 3000K - .930	CR190 4000K - .940
<b>Sporto</b>										
600 ZW	1x 23W 3000lm	5.2165	5.2166	●	●	●	●	●	●	
600 Semi-WP	1x 23W 3000lm	5.2112	5.2113	●	●	●	●	●	●	

Lumen output from light source | Wartość lumenów ze źródła światła

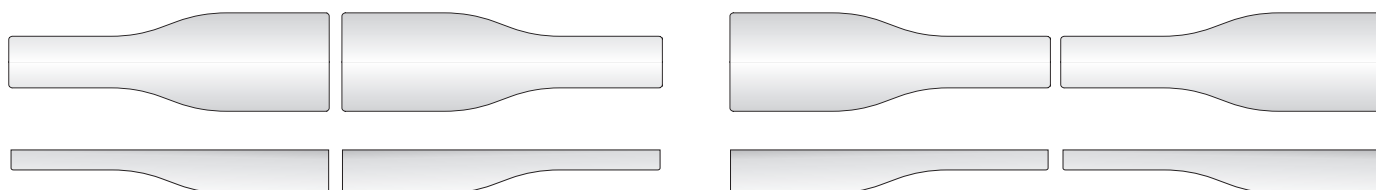
### Sporto

600 ZW



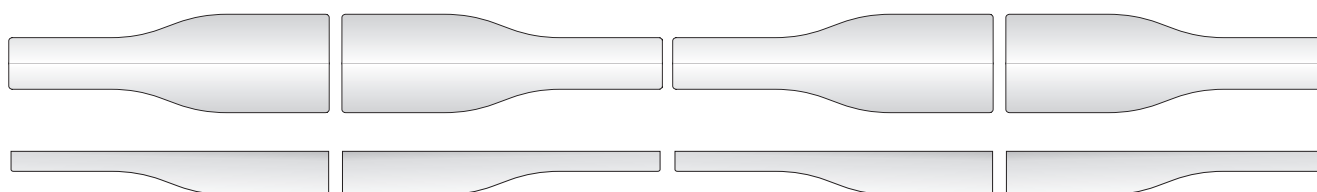
### Sporto - linear combinations

single



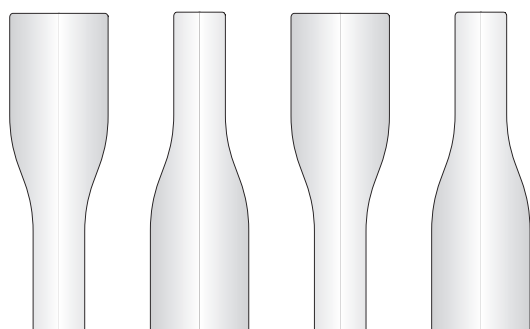
### Sporto - linear combination

system



### Sporto - side by side

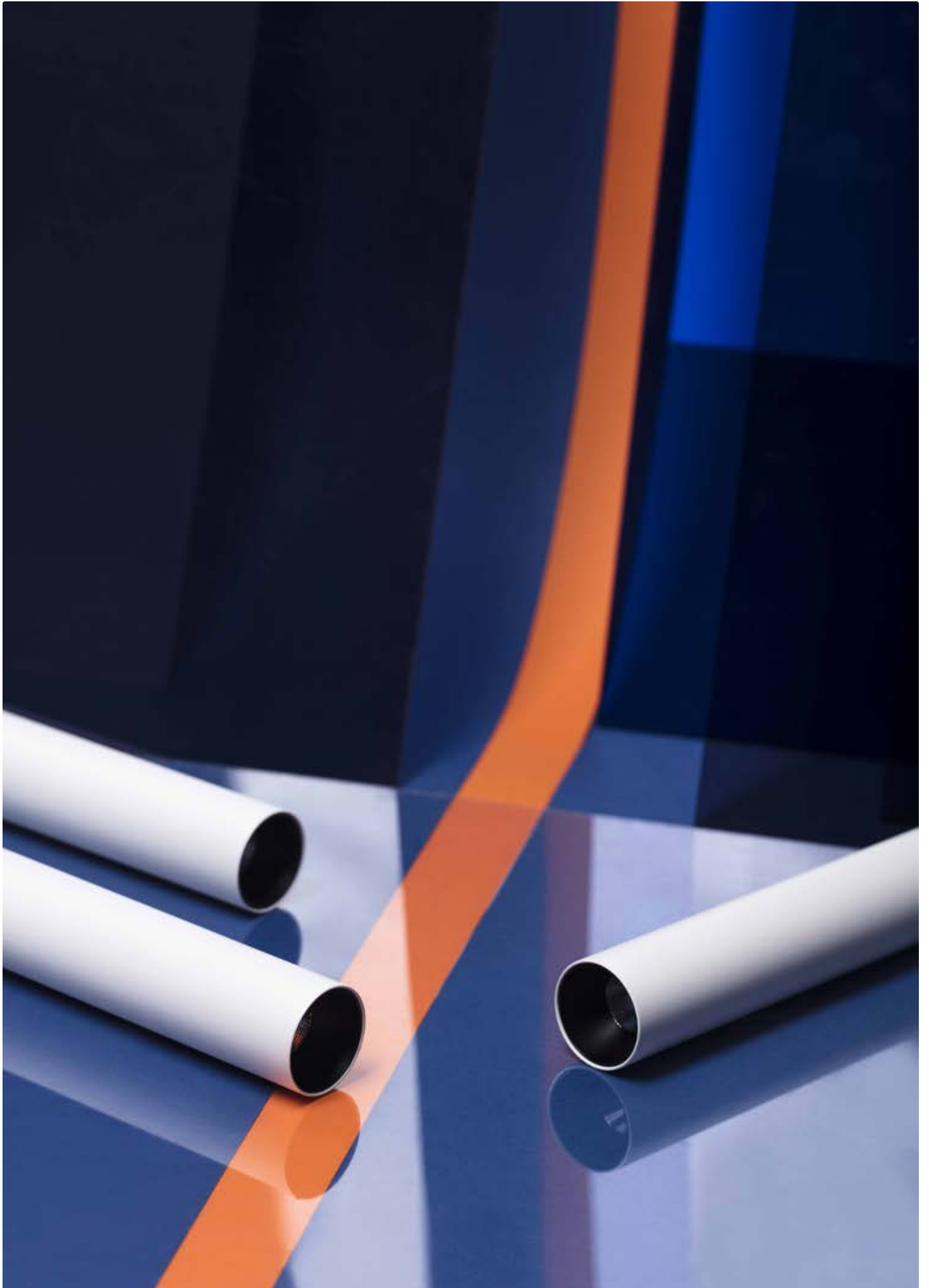
single



Spectro 600 Semi-MP (02 Blue)







# ***Stik***

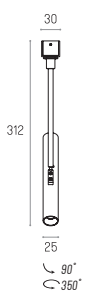
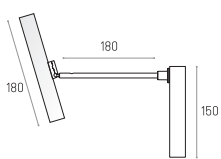
*wall . recessed . spotlight . track spotlight*

- Range of spotlights in very narrow diameter (25 & 35mm)
- Anodized joint always black
- Inner ring around light source always black
- Deeply recessed optics reduces glare effect
- CRI90 3-step and **CRI98** 2-step as a standard



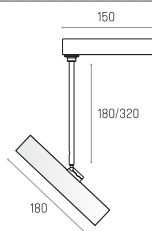
**Stik 25 KN**

25.1 wall KN

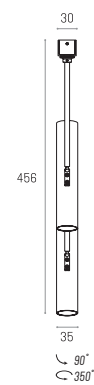
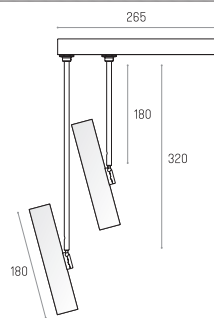


**Stik 35**

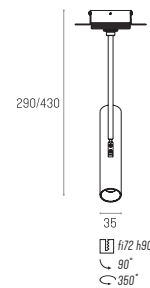
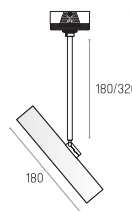
35.1 NT



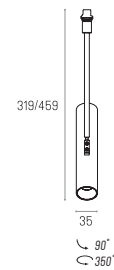
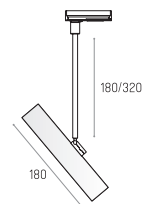
35.2 NT



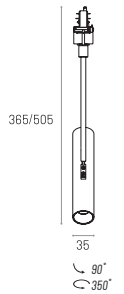
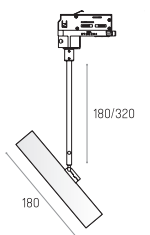
35.2 WP



35.1 AD 1F



35.1 AD 3F

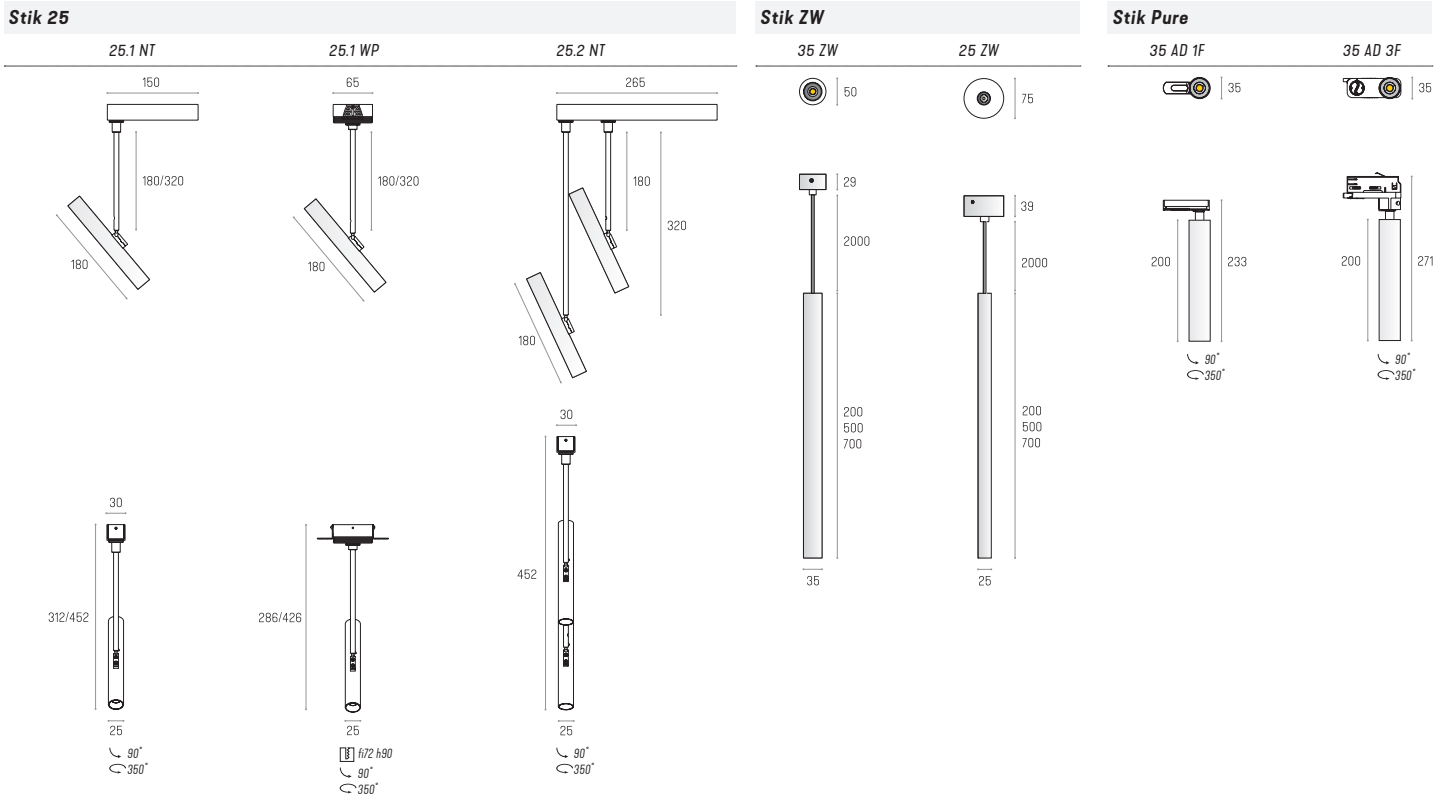


Model Order Codes Color CRI / Color temp.

		On-Off	Accessories	Alu / Grey - .01	Black - .02	White - .03	Mixed - .99	CR190 2700K - .927	CR190 3000K - .930	CR190 4000K - .940
<b>Stik 25 spotlight</b>										
25.1 NT H180	1x 2.5W 200lm 43°	2.1262		●	●	●	●	●	●	
25.1 NT H320	1x 2.5W 200lm 43°	2.1263		●	●	●	●	●	●	
25.2 NT	2x 2.5W 200lm 43°	2.1264		●	●	●	●	●	●	
<b>Stik 35 spotlight</b>										
35.1 NT H180	1x 6W 600lm 44°	2.1271		●	●	●	●	●	●	●
35.1 NT H320	1x 6W 600lm 44°	2.1272		●	●	●	●	●	●	●
35.2 NT	2x 6W 600lm 44°	2.1273		●	●	●	●	●	●	●
35.1 Adaptor 1F H180	1x 6W 600lm 44°	7.1274		●	●	●	●	●	●	●
35.1 Adaptor 1F H320	1x 6W 600lm 44°	7.1275		●	●	●	●	●	●	●
35.1 Adaptor 3F H180	1x 6W 600lm 44°	7.1276		●	●	●	●	●	●	●
35.1 Adaptor 3F H320	1x 6W 600lm 44°	7.1277		●	●	●	●	●	●	●
<b>Stik Pure</b>										
PURE 35 Adaptor 1F	1x 6W 600lm 44°	7.1908		●	●	●	●	●	●	●
PURE 35 Adaptor 3F	1x 6W 600lm 44°	7.1909		●	●	●	●	●	●	●
<b>Stik WP</b>										
25.1 WP H180	1x 2.5W 200lm CRI90 3000K 43°	4.1269	①	●	●	●	●	●	●	
25.1 WP H320	1x 2.5W 200lm CRI90 3000K 43°	4.1270	①	●	●	●	●	●	●	
35.1 WP H180	1x 6W 600lm 44°	4.1278	①	●	●	●	●	●	●	●
35.1 WP H320	1x 6W 600lm 44°	4.1279	①	●	●	●	●	●	●	●
① 25.1 / 35.1 Mounting ring	[ required ]		4.2110			●				
<b>Stik ZW</b>										
25 200mm ZW	1x 4.5W 350lm 43°	5.1767		●	●	●	●	●	●	
25 500mm ZW	1x 4.5W 350lm 43°	5.1763		●	●	●	●	●	●	
25 700mm ZW	1x 4.5W 350lm 43°	5.1764		●	●	●	●	●	●	
35 200mm ZW	1x 8.5W 900lm 44°	5.1768		●	●	●	●	●	●	●
35 500mm ZW	1x 8.5W 900lm 44°	5.1765		●	●	●	●	●	●	●
35 700mm ZW	1x 8.5W 900lm 44°	5.1766		●	●	●	●	●	●	●
<b>Stik KN (wall)</b>										
25.1 Wall KN H180	1x 2.5W 200lm 43°	1.1267		●	●	●	●	●	●	

Lumen output from luminaire | Wartość lumenów z oprawy

● CRI98  
● CRI90



SHK 361 INT [02 Black]



SHK 251 INT [03 White]



SHK 2W







STIK Pure 36 AD 3F [02 Black]



STIK Pure 36 AD 3F [03 White]



STIK 28.2 NT [03 White]



STIK 28.1 NT [03 White]



STIK 35.1 NT [02 Black]



STIK 35.1 NP [02 Black]



AP Interior . Pracownia Zdobnicza GOSIENIECKI, Ehbog . Photo . Michał Polakowski MP Images





# ***Stinger***

*spotlight . track spotlight*

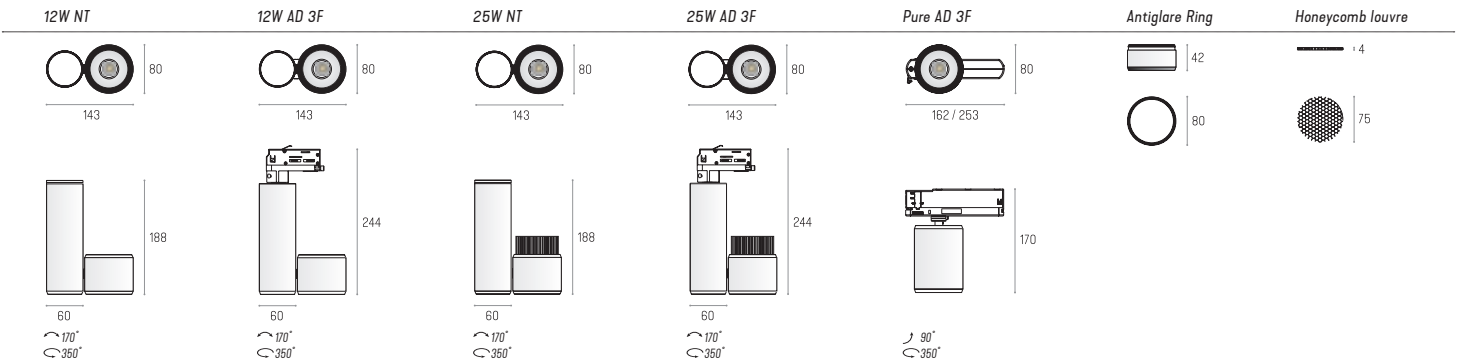


Model Order Codes Color CRI / Color temp. Optic

	On-Off	Switch-DALI	PhaseCut	CASAMBI Wireless	Accessories	Alu / Grey - .01	Black - .02	White - .03	Mixed - .99	CR198 2700K - .927	CR198 3000K - .930	CR198 4000K - .940	Spot 12° - .S	Medium 42° - .M	Wide 63° - .W
<b>Stinger Pure</b>															
80 Adaptor 3F 12W   1x 12W 1200lm	7.1883	7.1884			●	●	●	●	●	●	●	●	●	●	●
80 Adaptor 3F 25W   1x 25W 2300lm	7.1885	7.1886			●	●	●	●	●	●	●	●	●	●	●
<b>Stinger</b>															
80 NT 12W   1x 12W 1200lm	2.1770	2.1771	2.1772	2.2434	●	●	●	●	●	●	●	●	●	●	●
80 NT 25W   1x 25W 2300lm	2.1776	2.1777	2.1778	2.2435	●	●	●	●	●	●	●	●	●	●	●
80 Adaptor 3F 12W   1x 12W 1200lm	7.1773	7.1774	7.1775	7.2436	●	●	●	●	●	●	●	●	●	●	●
80 Adaptor 3F 25W   1x 25W 2300lm	7.1779	7.1780	7.1781	7.2437	●	●	●	●	●	●	●	●	●	●	●
<b>Stinger accessories</b>															
● Honeycomb louvre* [optional]					9.1800.02										
● Antiglare ring* [optional]					9.1801	●	●	●	●						
● Optic SPOT** [optional]					9.1802.02										
● Optic MEDIUM** [optional]					9.1803.02										
● Optic WIDE** [optional]					9.1804.02										

\* Przesłona plastra miodu (honeycomb) i pierścienie antyodblaskowe mogą być zamontowane jednocześnie. \*\*W jednej oprawie może być zamontowana tylko jedna optyka.  
 \* Honeycomb louvre and antiglare ring can be used together. \*\*Only one optic can be used at a time.  
 Lumen output from luminaire | Wartość lumenów z oprawy

**Stinger 80**



- High quality hybrid reflector made of optical polycarbonate
- Additional flange around lens limits glare effect
- **tool-free** replaceable accessories
- **Honeycomb** louvre and antiglare ring (inside) always black
- **CR198** 2-step as a standard
- **Optics** replaceable without tools



AD 3F 12W [03 White]

AD 3F 25W [03 White] + Antiglare Ring [03 White]









Stinger Pure A10 3F [03 White] - Angolare Ring [03 White]



Stinger Pure A10 3F [02 Black]



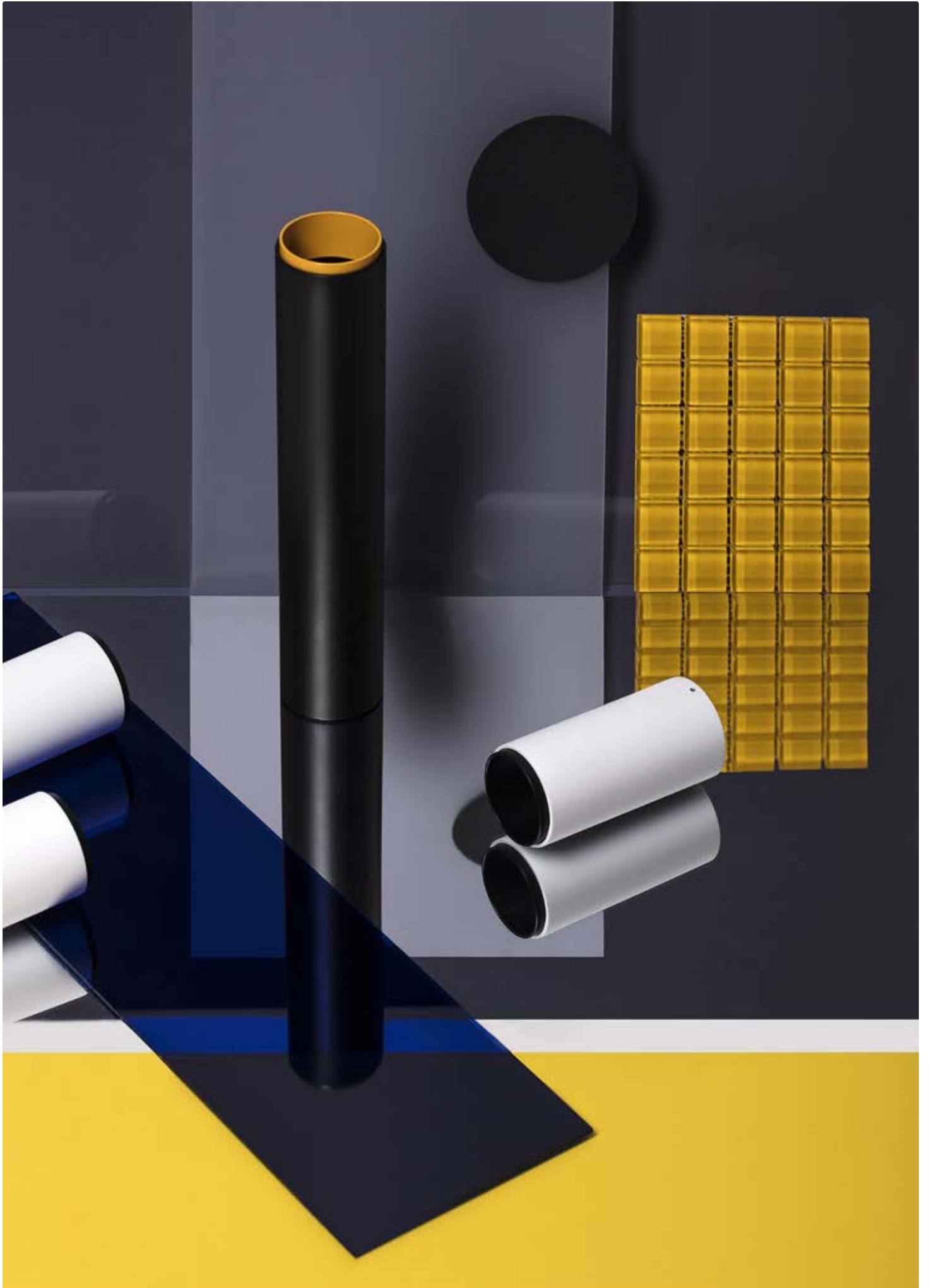
Stinger Pure A10 3F [03 White] - Angolare Ring [03 White]

Stinger 80 ALU 3E 230V [ CO3 ] [ WWH ] + Anghelou Ring [ CO3 ] [ WWH ]





AP Interior . The Museum of Archaeology and History, Elizga . Photo . Michal Poldowski MP Images



# ***Texo***

*surface . suspended . spotlight . track spotlight*

Model

Order Codes

Color

	On-Off	.01	.02	.03	.99	.33	.88	.56	.44	.77	.66
		Alu / Grey	Black	White	Mixed	White + Black	White + Gold	White + Orange	Black + White	Black + Gold	Black + Orange
<b>Texo ZW</b>											
H200   1x 50W GU10 QPAR16	5.0042	●	●	●	●						
H300   1x 50W GU10 QPAR16	5.0043	●	●	●	●						
H400   1x 50W GU10 QPAR16	5.0247	●	●	●	●						
H500   1x 50W GU10 QPAR16	5.0248	●	●	●	●						
H600   1x 50W GU10 QPAR16	5.0249	●	●	●	●						
<b>Texo Cut ZW</b>											
H160   1x 50W GU10 QPAR16	5.0825	●	●	●	●						
H260   1x 50W GU10 QPAR16	5.0826	●	●	●	●						
H360   1x 50W GU10 QPAR16	5.0827	●	●	●	●						
H460   1x 50W GU10 QPAR16	5.0828	●	●	●	●						
H560   1x 50W GU10 QPAR16	5.0829	●	●	●	●						
H660   1x 50W GU10 QPAR16	5.0830	●	●	●	●						
<b>Texo Pro ZW</b>											
H200   1x 8W GU10 QPAR16 LED	5.1022				●	●	●	●	●	●	●
H300   1x 8W GU10 QPAR16 LED	5.1023				●	●	●	●	●	●	●
H400   1x 8W GU10 QPAR16 LED	5.1024				●	●	●	●	●	●	●
H500   1x 8W GU10 QPAR16 LED	5.1025				●	●	●	●	●	●	●
H600   1x 8W GU10 QPAR16 LED	5.1026				●	●	●	●	●	●	●
<b>Texo Cut Pro ZW</b>											
H160   1x 8W GU10 QPAR16 LED	5.0957				●	●	●	●	●	●	●
H260   1x 8W GU10 QPAR16 LED	5.0958				●	●	●	●	●	●	●
H360   1x 8W GU10 QPAR16 LED	5.0959				●	●	●	●	●	●	●
H460   1x 8W GU10 QPAR16 LED	5.0960				●	●	●	●	●	●	●
H560   1x 8W GU10 QPAR16 LED	5.0961				●	●	●	●	●	●	●
H660   1x 8W GU10 QPAR16 LED	5.0962				●	●	●	●	●	●	●



Texo Cut Pro ZW H200 [77 Black-Gold]



Texo ZW suspension box [66 Black-Orange]



Model	Order Codes	Color	CRI / Color temp.	Optic	
	On-Off	Accessories	.01 Alu   Grey .02 Black .03 White .99 Mixed .33 White + Black .88 White + Gold .56 White + Orange .44 Black + White .77 Black + Gold .66 Black + Orange	.827 CRI80 2700K .830 CRI80 3000K .840 CRI80 4000K	.S Spot 27° .M Medium 35° .W Wide 55°
<b>Texo Single</b>					
Pro NT	1x 8W GU10 QPAR16 LED	2.1027			
Pro Adaptor 1F	1x 8W GU10 QPAR16 LED	7.1029			
Pro Adaptor 3F	1x 8W GU10 QPAR16 LED	7.1028			
<b>Texo Single Cut</b>					
Cut Pro NT	1x 8W GU10 QPAR16 LED	2.1033			
Cut Pro Adaptor 1F	1x 8W GU10 QPAR16 LED	7.1035			
Cut Pro Adaptor 3F	1x 8W GU10 QPAR16 LED	7.1034			
<b>Texo Single WP</b>					
Pro WP	1x 8W GU10 QPAR16 LED	4.1108	①		
Cut Pro WP	1x 8W GU10 QPAR16 LED	4.1109	①		
① SINGLE WP Mounting ring	[ required ]		4.2111		
<b>Texo NT</b>					
H100	1x 50W GU10 QPAR16	3.0004	● ● ● ●		
H200	1x 50W GU10 QPAR16	3.0186	● ● ● ●		
H300	1x 50W GU10 QPAR16	3.0187	● ● ● ●		
H400	1x 50W GU10 QPAR16	3.0244	● ● ● ●		
H500	1x 50W GU10 QPAR16	3.0245	● ● ● ●		
H600	1x 50W GU10 QPAR16	3.0246	● ● ● ●		
<b>Texo Cut NT</b>					
H160	1x 50W GU10 QPAR16	3.0256	● ● ● ●		
H260	1x 50W GU10 QPAR16	3.0257	● ● ● ●		
H360	1x 50W GU10 QPAR16	3.0258	● ● ● ●		
H460	1x 50W GU10 QPAR16	3.0259	● ● ● ●		
H560	1x 50W GU10 QPAR16	3.0260	● ● ● ●		
H660	1x 50W GU10 QPAR16	3.0261	● ● ● ●		
<b>Texo Pro NT</b>					
H100	1x 8W GU10 QPAR16 LED	3.1013		● ● ● ● ● ● ● ●	
H200	1x 8W GU10 QPAR16 LED	3.1014		● ● ● ● ● ● ● ●	
H300	1x 8W GU10 QPAR16 LED	3.1015		● ● ● ● ● ● ● ●	
H400	1x 8W GU10 QPAR16 LED	3.1016		● ● ● ● ● ● ● ●	
H500	1x 8W GU10 QPAR16 LED	3.1017		● ● ● ● ● ● ● ●	
H600	1x 8W GU10 QPAR16 LED	3.1018		● ● ● ● ● ● ● ●	
<b>Texo Cut Pro NT</b>					
H160	1x 8W GU10 QPAR16 LED	3.0951		● ● ● ● ● ● ● ●	
H260	1x 8W GU10 QPAR16 LED	3.0952		● ● ● ● ● ● ● ●	
H360	1x 8W GU10 QPAR16 LED	3.0953		● ● ● ● ● ● ● ●	
H460	1x 8W GU10 QPAR16 LED	3.0954		● ● ● ● ● ● ● ●	
H560	1x 8W GU10 QPAR16 LED	3.0955		● ● ● ● ● ● ● ●	
H660	1x 8W GU10 QPAR16 LED	3.0956		● ● ● ● ● ● ● ●	
<b>Texo Move</b>					
NT	1x 50W GU10 QPAR16	3.0272	● ● ● ●		
<b>Texo XS / XL</b>					
XS.50 NT	1x 6W 550lm 50°	3.1185	● ● ● ●	● ●	
XS.50 Adaptor 1F	1x 6W 550lm 50°	7.1186	● ● ● ●	● ●	
XS.50 Adaptor 3F	1x 6W 550lm 50°	7.1187	● ● ● ●	● ●	
XL.75 NT H100	1x 10W 900lm	3.1181	● ● ● ●	● ●	● ● ●
XL.75 NT H150	1x 10W 900lm	3.1182	● ● ● ●	● ●	● ● ●
XL.75 Adaptor 3F H100	1x 10W 900lm	7.1183	● ● ● ●	● ●	● ● ●
XL.75 Adaptor 3F H150	1x 10W 900lm	7.1184	● ● ● ●	● ●	● ● ●

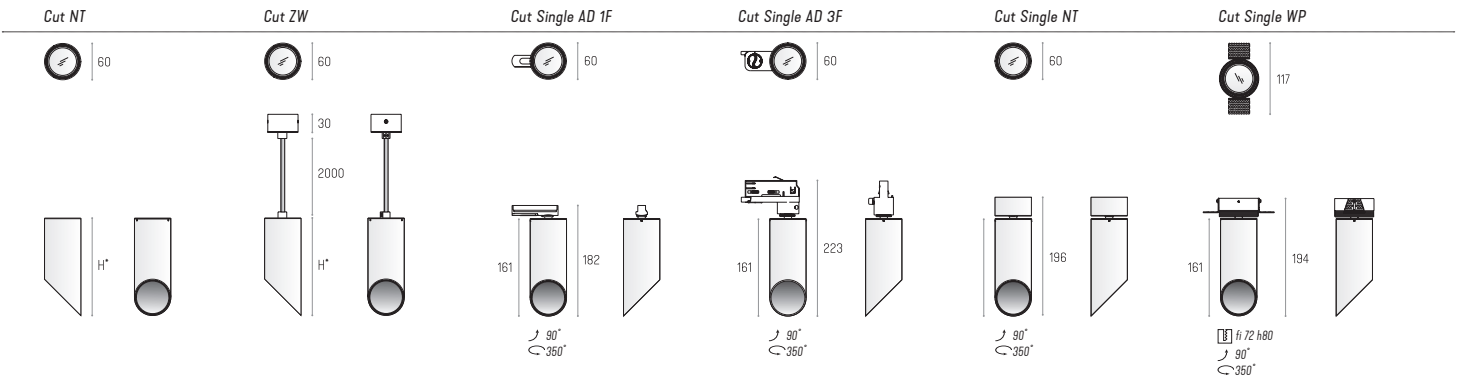
Lumen output from luminaire | Wartość lumenów z oprawy



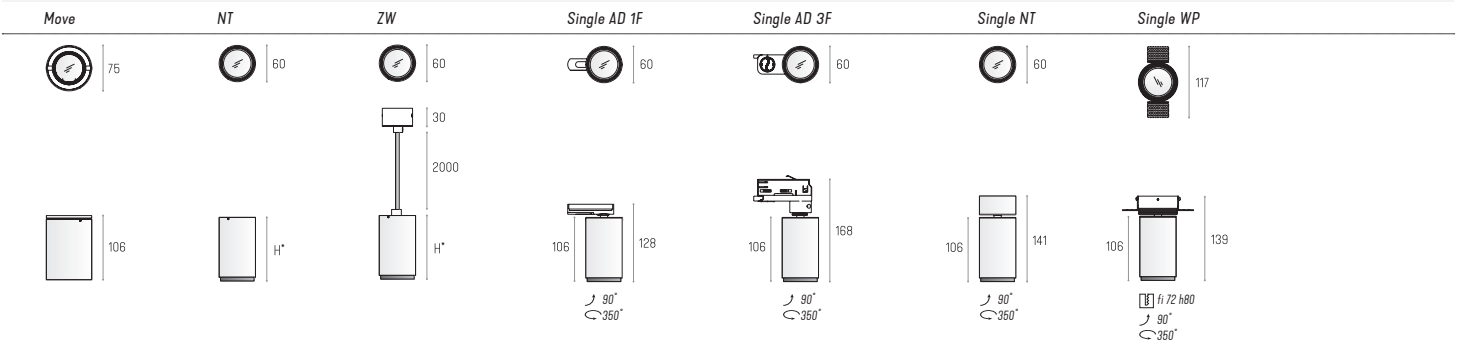
- Extensive & popular range of surface mounted and suspended downlights & spotlights
- **PRO** version with additional inner ring mounted on rubber o-rings, Inner ring can be retracted without use of tools
- Wide range of available heights for ceiling mounted & suspended versions
- Other body lengths on request
- **XS & XL** version with driverless solution for compact design
- Adjustable spotlights available for 1 & 3 Phase track
- All models available for LED retrofit



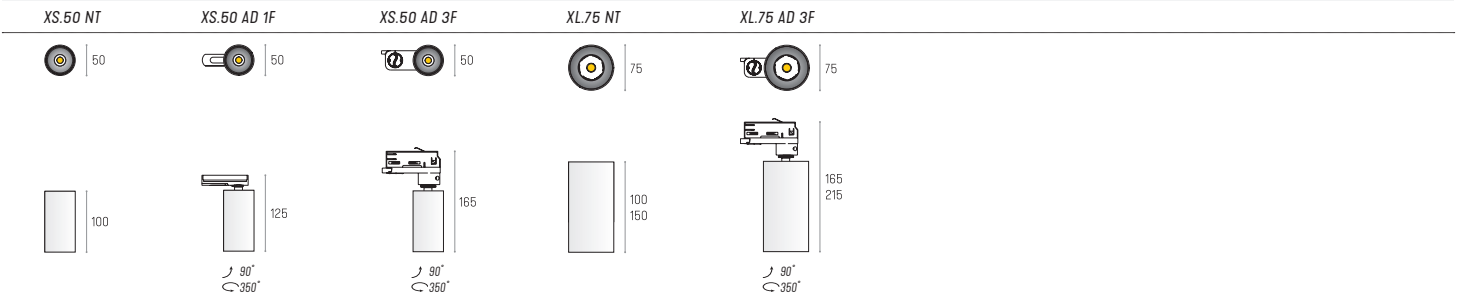
**Texo Cut Pro**



**Texo Pro**



**Texo XS | XL**







XS.50 AD 3F [.33 White-Black]

XL.75 H150 AD 3F [.33 White-Black]





















# ***Tida***

*wall . surface . suspended . spotlight . track spotlight*



- Range of square shaped down-lights and spotlights
- Wide range of available heights for ceiling mounted & suspended versions
- Other body lengths on request
- Adjustable spotlights available for 3 Phase track or surface mounted
- All models available for LED retrofits



Model Order Codes Color

	On-Off		Alu / Grey   .01	Black   .02	White   .03	Mixed   .99
<b>Tida Duo</b>						
Tida Duo NT   1x 50W GU10 QPAR16		2.0286	●	●	●	●
Tida Duo Adaptor 3F   1x 50W GU10 QPAR16		7.0287	●	●	●	●
<b>Tida KN</b>						
Tida 200 KN   2x 35W GU10 QPAR16		1.0208	●	●	●	●
<b>Tida NT</b>						
H100   1x 50W GU10 QPAR16		3.0005	●	●	●	●
H200   1x 50W GU10 QPAR16		3.0188	●	●	●	●
H300   1x 50W GU10 QPAR16		3.0189	●	●	●	●
H400   1x 50W GU10 QPAR16		3.0339	●	●	●	●
H500   1x 50W GU10 QPAR16		3.0340	●	●	●	●
H600   1x 50W GU10 QPAR16		3.0341	●	●	●	●
<b>Tida ZW</b>						
H200   1x 50W GU10 QPAR16		5.0044	●	●	●	●
H300   1x 50W GU10 QPAR16		5.0045	●	●	●	●
H400   1x 50W GU10 QPAR16		5.0336	●	●	●	●
H500   1x 50W GU10 QPAR16		5.0337	●	●	●	●
H600   1x 50W GU10 QPAR16		5.0338	●	●	●	●

**Tida**

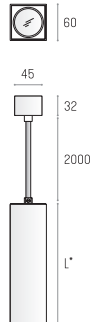
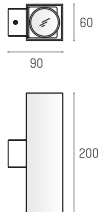
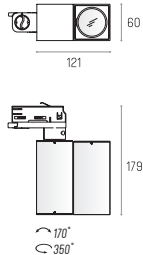
Duo AD 3F

Duo NT

200 KN

NT

ZW





A44. Architectural & Design Studio | LAB RA Ukraine · Apartment Lviv · Photo · Yuriy Solobov

MYKHAILIYKA Architectural Bureau · Apartment Lviv · Photo · Alexander Angelovskiy







# *Tommy*

*spotlight . track spotlight*



Tommy 100 AD 3F [03 White]

- High quality polycarbonate reflector
- Additional inner ring around lens limits glare effect
- Inner ring always black
- **CR198** 2-step as a standard
- Available for 3 phase track & ceiling mounted



Tommy 100 NT [02 Black]



Tommy 100 NT [02 Black]



Tommy 100 AD 3F [03 White]




Model Order Codes Color CRI / Color temp. Optic

		On-Off	Switch_DALI	PhaseCut	CASAMBI Wireless	.01 Alu / Grey	.02 Black	.03 White	.99 Mixed	.927 CRI98 2700K	.930 CRI98 3000K	.940 CRI98 4000K	.S Spot 26°	.M Medium 40°	.W Wide 55°
<b>Tommy</b>															
100 NT	1x 25W 2300lm	2.1280	2.1281	2.1282	2.2438	●	●	●	●	●	●	●	●	●	●
100 Adaptor 3F	1x 25W 2300lm	7.1283	7.1284	7.1285	7.2439	●	●	●	●	●	●	●	●	●	●

Lumen output from luminaire | Wartość lumenów z oprawy

● CRI98

**Tommy 100**

NT	AD 3F
 100	 100
 272	 305
90° 360°	90° 360°



Tommy 100 AD 3F [03 White]





# ***Track***

*1F . 3F DALI . surface . recessed*

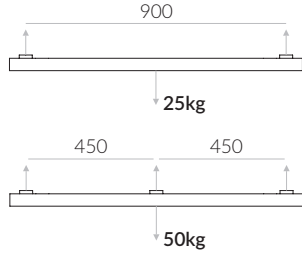
**Track 3F DALI - technical overview**

Available colors | Dostępna kolorystyka

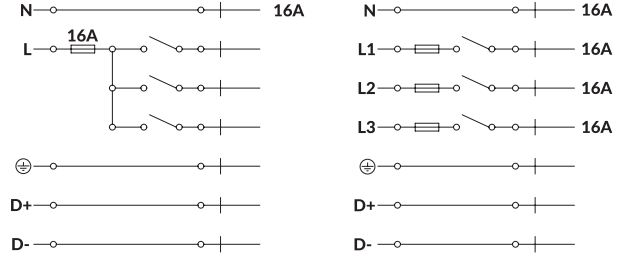
**.02 Black - RAL 9005**

**.03 White - RAL 9010**

Weight limit | Dopuszczalne obciążenie



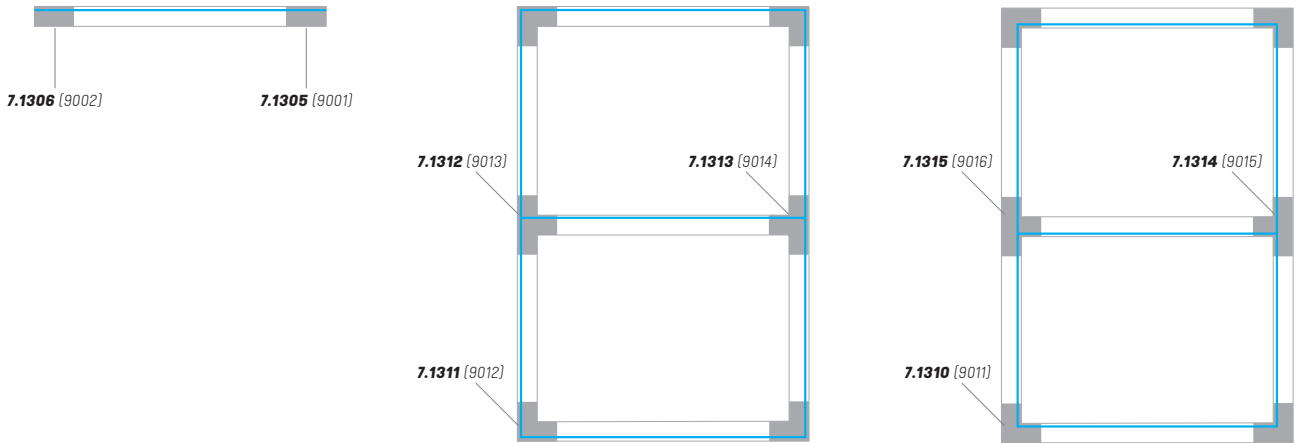
Electrical diagram | Schemat elektryczny



**Track 3F DALI - example use of end feeds & connectors**

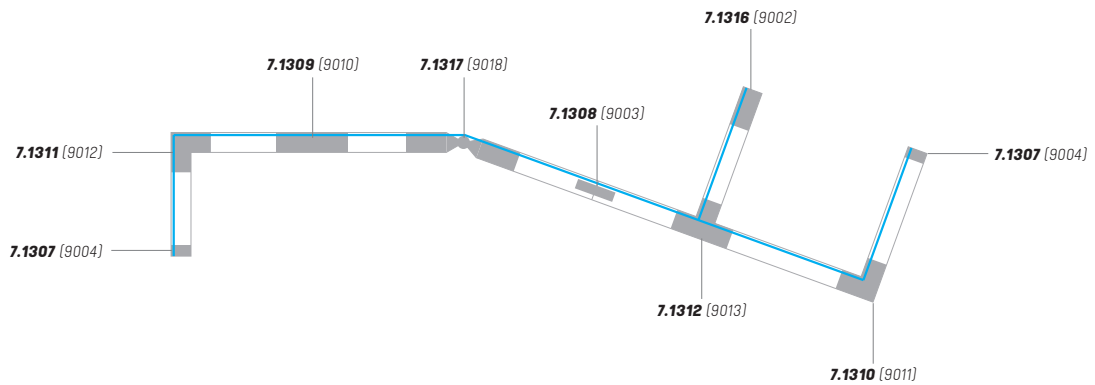
End feeds usage | użycie końcówek zasilających

Usage of L-feed & T-feed connectors | Użycie łączników zasilających "L" i "T"



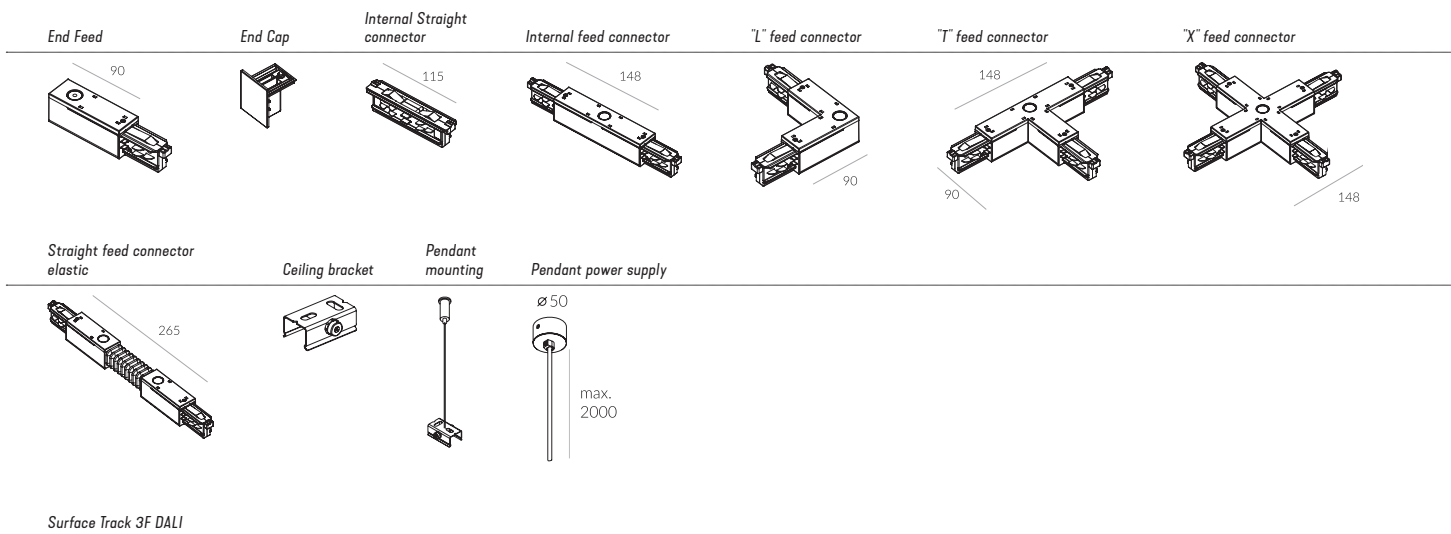
**Track 3F DALI**

Example use of system components | Przykładowe użycie elementów systemu



	Components		Black RAL9005   .02	White RAL9010   .03
<b>Track 3F DALI [ en ]</b>		<b>Track 3F DALI [ pl ]</b>	colour	
Surface Track 3F 100cm (9000-1)	7.1301	Szyna Natynkowa 3F 100cm (9000-1)	●	●
Surface Track 3F 200cm (9000-2)	7.1302	Szyna Natynkowa 3F 200cm (9000-2)	●	●
End feed LEFT (9001)	7.1305	Zasilanie końcowe LEWE (9001)	●	●
End feed RIGHT (9002)	7.1306	Zasilanie końcowe PRAWE (9002)	●	●
End Cap (9004)	7.1307	Zasłepka (9004)	●	●
Ceiling bracket (S-9000/111)	7.1319	Mocowanie natynkowe (S-9000/111)		
Internal straight connector (9003)	7.1308	Łącznik prosty wewnętrzny (9003)	●	●
Internal feed connector (9010)	7.1309	Łącznik środkowy zasilający (9010)	●	●
X-Feed connector (9017)	7.1316	Łącznik „X” zasilający (9017)	●	●
Straight feed connector – elastic (9018)	7.1317	Łącznik zasilający prosty – elastyczny (9018)	●	●
„L” feed connector inner RIGHT (9011)	7.1310	Łącznik „L” zasilający wewnętrzny PRAWY (9011)	●	●
„L” feed connector outer LEFT (9012)	7.1311	Łącznik „L” zasilający zewnętrzny LEWY (9012)	●	●
„T” feed connector outer RIGHT (9013)	7.1312	Łącznik „T” zasilający zewnętrzny PRAWY (9013)	●	●
„T” feed connector outer LEFT (9014)	7.1313	Łącznik „T” zasilający zewnętrzny LEWY (9014)	●	●
„T” feed connector inner RIGHT (9015)	7.1314	Łącznik „T” zasilający wewnętrzny PRAWY (9015)	●	●
„T” feed connector inner LEFT (9016)	7.1315	Łącznik „T” zasilający wewnętrzny LEWY (9016)	●	●
Pendant mounting	9.0970	Mocowanie zwieszane		
Pendant power supply (5x 0,5)	9.0971	Zasilanie zwieszane (5x 0,5)	●	●

**Track 3F DALI – system components**



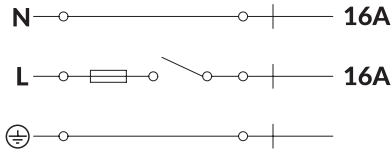
**Track 1F BASIC - technical overview**

Available colors | Dostępna kolorystyka

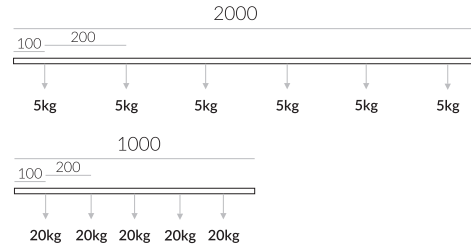
**.02 Black - RAL 9005**

**.03 White - RAL 9010**

Electrical diagram | Schemat elektryczny



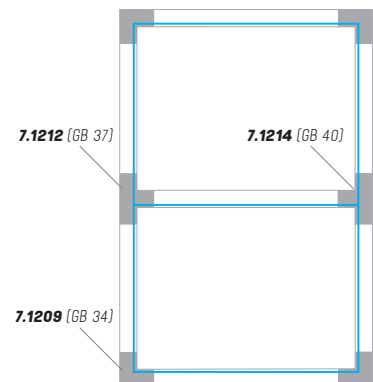
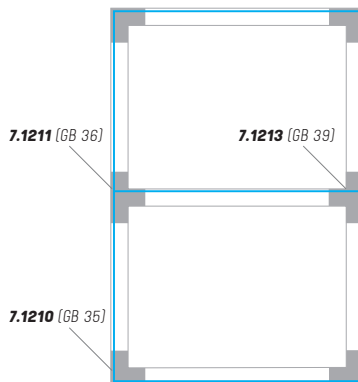
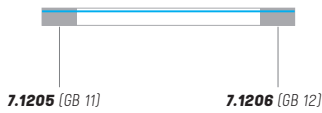
Weight limit | Dopuszczalne obciążenie



**Track 1F BASIC - example use of end feeds & connectors**

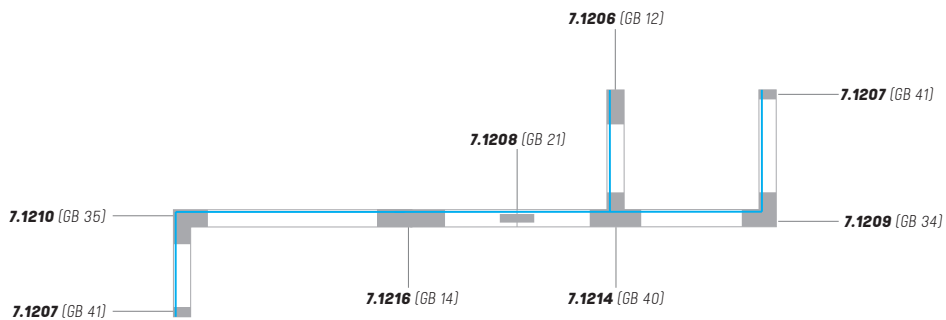
End feeds usage | Użycie końcówek zasilających

Usage of L-feed & T-feed connectors | Użycie łączników zasilających "L" i "T"



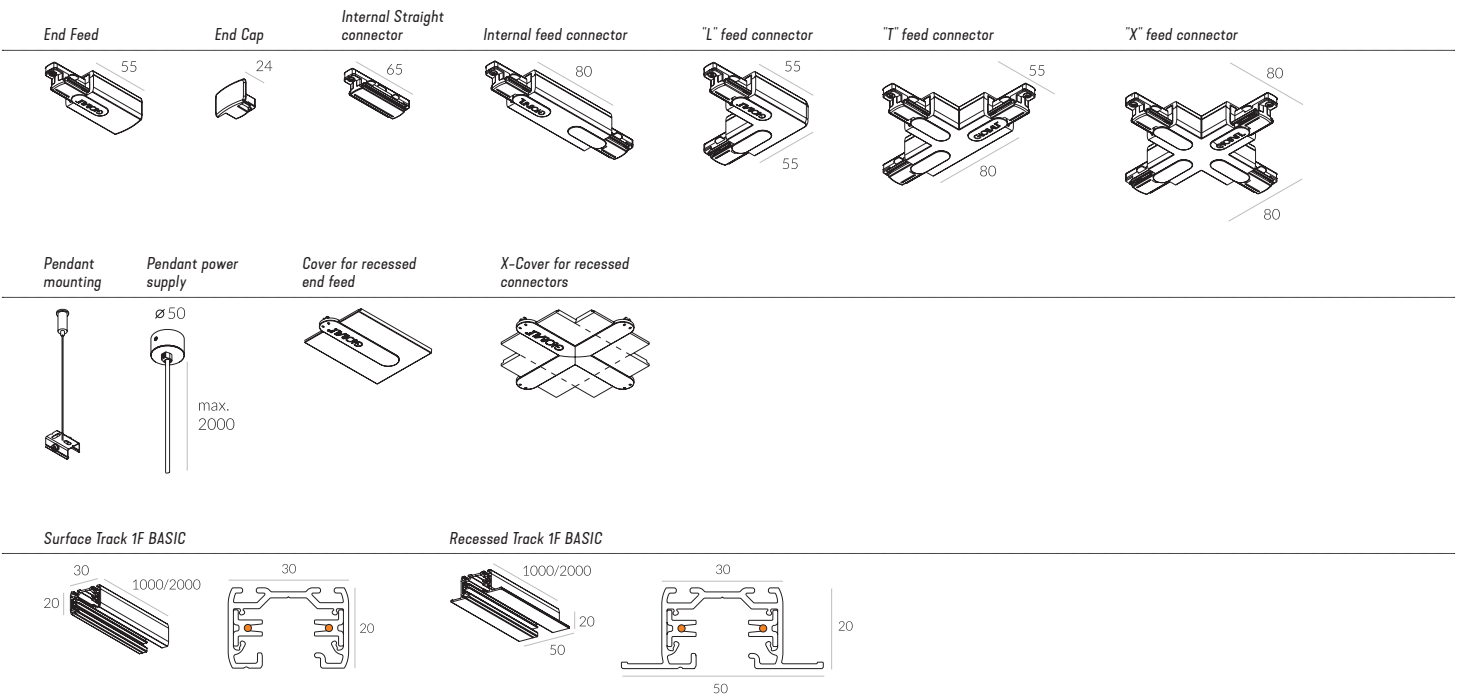
**Track 1F BASIC**

Example use of system components | Przykładowe użycie elementów systemu



	Components		Black RAL9005   .02	White RAL9010   .03
<b>Track 1F BASIC [ en ]</b>		<b>Track 1F BASIC [ pl ]</b>	colour	
Surface Track 1F 100cm (GB2100)	7.1201	Szyna Natynkowa 1F 100cm (GB2100)	●	●
Surface Track 1F 200cm (GB2200)	7.1202	Szyna Natynkowa 1F 200cm (GB2100)	●	●
Recessed Track 1F 100cm (GB2100)	7.1203	Szyna Wpuszczana 1F 100cm (GBF2100)	●	●
Recessed Track 1F 200cm (GB2200)	7.1204	Szyna Wpuszczana 1F 200cm (GBF2100)	●	●
End feed LEFT (GB11)	7.1205	Zasilanie końcowe LEWE (GB11)	●	●
End feed RIGHT (GB12)	7.1206	Zasilanie końcowe PRAWE (GB12)	●	●
End Cap (GB41)	7.1207	Zasłepka (GB41)	●	●
Internal straight connector (GB21)	7.1208	Łącznik prosty wewnętrzny (GB21)	●	●
Internal feed connector (GB14)	7.1216	Łącznik środkowy zasilający (GB14)	●	●
X-Feed connector (GB38)	7.1215	Łącznik „X” zasilający (GB38)	●	●
„L” feed connector inner RIGHT (GB34)	7.1209	Łącznik „L” zasilający wewnętrzny PRAWY (GB34)	●	●
„L” feed connector outer LEFT (GB35)	7.1210	Łącznik „L” zasilający zewnętrzny LEWY (GB35)	●	●
„T” feed connector outer RIGHT (GB36)	7.1211	Łącznik „T” zasilający zewnętrzny PRAWY (GB36)	●	●
„T” feed connector outer LEFT (GB37)	7.1212	Łącznik „T” zasilający zewnętrzny LEWY (GB37)	●	●
„T” feed connector inner RIGHT (GB39)	7.1213	Łącznik „T” zasilający wewnętrzny PRAWY (GB39)	●	●
„T” feed connector inner LEFT (GB40)	7.1214	Łącznik „T” zasilający wewnętrzny LEWY (GB40)	●	●
Pendant mounting	7.1217	Mocowanie zwieszane		
Pendant power supply (3x 0,5)	7.1218	Zasilanie zwieszane (3x 0,5)	●	●
Straight cover for recessed end feed (GBF10)	7.1219	Zasłepka prosta dla zasilania końcowego (GBF10)	●	●
X cover for recessed track (GBF30)	7.1220	Zasłepka X dla szyny wpuszczanej (GBF30)	●	●
Mounting bracket for recessed track	9.2360	Łapa montażowa do szyny wpuszczanej		

**Track 1F BASIC - system components**



Private apartment, Kraków . Photo . **Krzysztof Zgola**



**STRADOM 15** . Apartments for rent, Kraków . Photo . **Krzysztof Zgola**



**Leo D'uk Design** . Apartament, Lutsk . Photo . **Vladimir Khomich**



Anna Stach Atelier, Hairdressers Salon . Photo . **Wojciech Koszyk**



A44. Architectural & Design Studio | LABRA Ukraine . Vinyl Club, Lviv . Photo . **Yuriy Salabay**







# ***Tubular***

*surface*



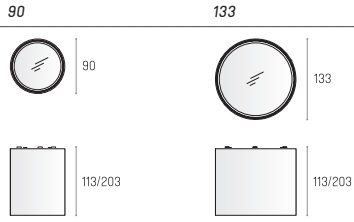
- Downlights with deep recessed light source
- Inner ring, when it is black, limits the glare effect (not available with white ring)
- Two covers to choose from
  - DF** - classic diffused opal
  - MP** - microprismatic satin
- CRIBO 3-step as a standard

Model Order Codes Color CRI / Color temp. Optic

		On-Off - -	DALI - -	Alu   Grey - Black - White - Mixed - White + Black	CR180 2700K - CR180 3000K - CR180 4000K	Diffused - Microprismatic					
		.01	.02	.03	.99	.33	.827	.830	.840	.DF	.MP
<b>Tubular NT</b>											
90 H110	8W 930lm	3.1097		•	•	•	•	•	•	•	•
90 H200	8W 930lm	3.1098		•	•	•	•	•	•	•	•
133 H110	15W 1400lm	3.1099	3.1158	•	•	•	•	•	•	•	•
133 H200	15W 1400lm	3.1100	3.1159	•	•	•	•	•	•	•	•

Lumen output from light source | Wartość lumenów ze źródła światła

**Tubular**



Tubular 90 [133] [33 White-Black] Diffused



Tubular 90 [133] [33 White-Black] Microprismatic







# ***Tweet***

*surface . recessed*



50.1 miniLED NT [.03 White]

50.2 miniLED NT [.33 White-Black]

50.1 miniLED NT [.02 Black]

- Versatile family with minimal impact
- Three versions:  
Surface, Recessed with Trim,  
Recessed Trimless
- Trimless version **requires**  
mounting frame
- Very low mounting height for  
all versions & sizes
- Easy access to driver (recessed)
- **Magnetic** (tool-free) mounting  
of insets in surface mounted  
and trimless version
- LED light source or QPAR16 LED  
retrofit
- mini.LED in surface version has  
driverless solution for compact  
dimensions
- CRI90 3-step and **CRI98**  
2-step as a standard
- **mini.LED** module replaceable  
without tools

Tweet NT 50.2 miniLED [.33 White-Black]



Tweet NT 50.1 miniLED [.02 Black]



Tweet Trimless 50.2 miniLED [.99 Mixed]



Tweet 50.2 miniLED [.99 Mixed]





















Model Order Codes Color CRI / Color temp.

		On-Off	Switch-DALI	PhaseCut	CASAMBI Wireless	Accessories	Alu / Grey	Black	White	Mixed	White + Black	CR190 2700K	CR190 3000K	CR190 4000K
		—	—	—	—	—	.01	.02	.03	.99	.33	.927	.930	.940
<b>Tweet NT</b>														
50.1	1x 7W GU10 QPAR16 LED	3.2127					●	●	●	●	●			
50.2	2x 7W GU10 QPAR16 LED	3.2128					●	●	●	●	●			
50.1 mini.LED	1x 6W 550lm 47°	3.2129					●	●	●	●	●	●	●	
50.2 mini.LED	2x 6W 550lm 47°	3.2130					●	●	●	●	●	●	●	
<b>Tweet</b>														
50.1	1x 7W GU10 QPAR16 LED	4.1140					●	●	●	●	●			
50.2	2x 7W GU10 QPAR16 LED	4.1141					●	●	●	●	●			
50.1 mini.LED	1x 8.5W 850lm 47°	4.1160	4.1408	4.1407	4.2440		●	●	●	●	●	●	●	●
50.2 mini.LED	2x 8.5W 850lm 47°	4.1161	4.1410	4.1409	4.2441		●	●	●	●	●	●	●	●
<b>Tweet Trimless</b>														
50.1	1x 7W GU10 QPAR16 LED	4.1142				①	●	●	●	●	●			
50.2	2x 7W GU10 QPAR16 LED	4.1143				②	●	●	●	●	●			
50.1 mini.LED	1x 8.5W 850lm 47°	4.1162	4.1414	4.1413	4.2442	①	●	●	●	●	●	●	●	●
50.2 mini.LED	2x 8.5W 850lm 47°	4.1163	4.1416	4.1415	4.2443	②	●	●	●	●	●	●	●	●
①	50.1 Mounting Frame [required]					4.1756								
②	50.2 Mounting Frame [required]					4.1757								

Lumen output from luminaire | Wartość lumenów z oprawy

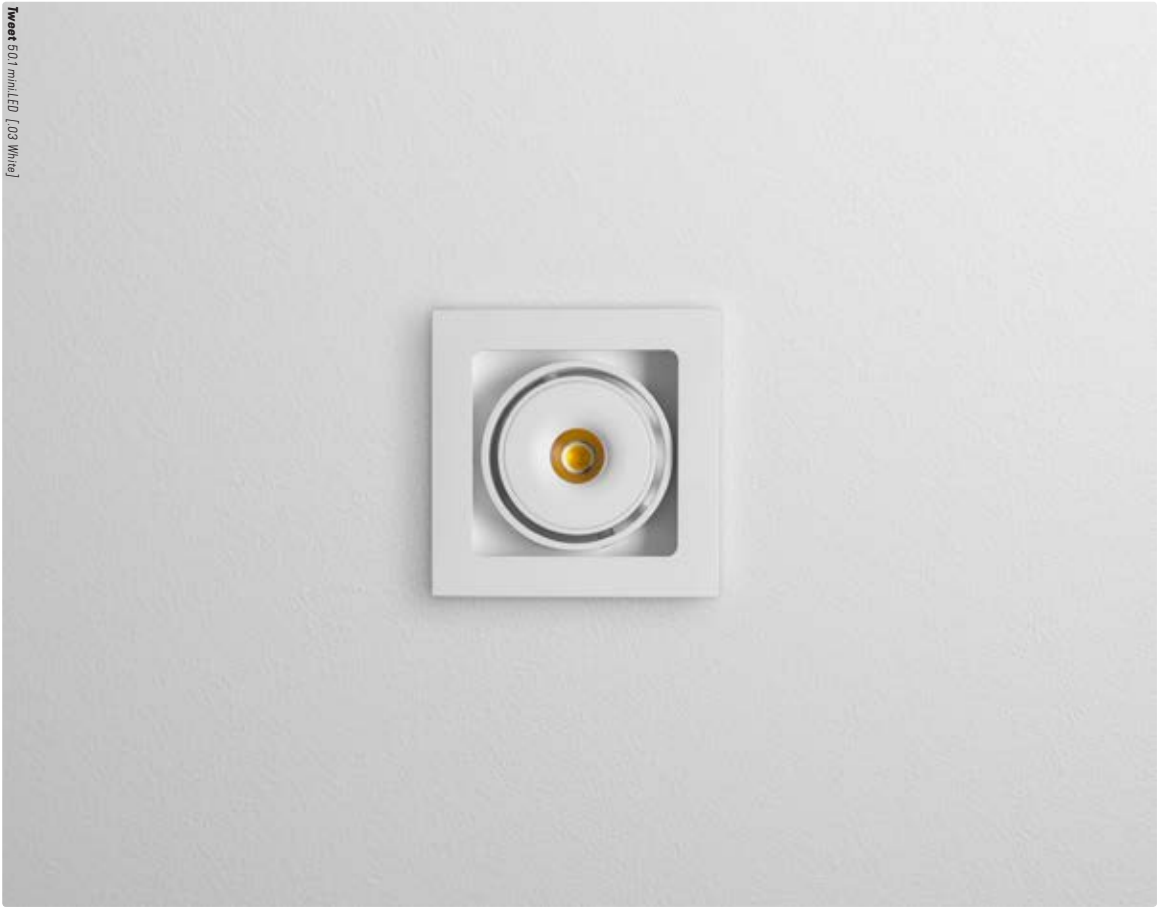
● CRI98  
● CRI90

**Tweet** **Mounting Frames Tweet Trimless [required]**

50.1 NT	50.2 NT	50.1 WP	50.2 WP	50.1 Trimless	50.2 Trimless	50.1 Trimless	50.2 Trimless
							
85	85	99	99	80	80	151	151
							
85	166	99	170	80	151	89	156
↻ 30° ↻ 350°	↻ 30° ↻ 350°	☒ 84x87 h75 ↻ 30° ↻ 350°	☒ 84x158 h75 ↻ 30° ↻ 350°	↻ 30° ↻ 350°	↻ 30° ↻ 350°	☒ 100x89 h75	☒ 100x160 h75







**Twæx 601 miniLED** [03 White]



**Twæx NT 601 miniLED** [33 White-Black]



**Twæx Trimless 60.2 miniLED** [99 Mixed]













# ***Versa***

*wall . surface . suspended*



*Versas NT 900 [03 White]*

- Works best in public areas
- Three versions:  
Surface mounted, Suspended  
and wall mounted
- Cover made of opal PMMA
- Available with LED light source  
and for classic T5 fluorescent  
lamps
- CRI90 3-step as a standard  
in LED version



*Versas ZW 900 [03 White]*



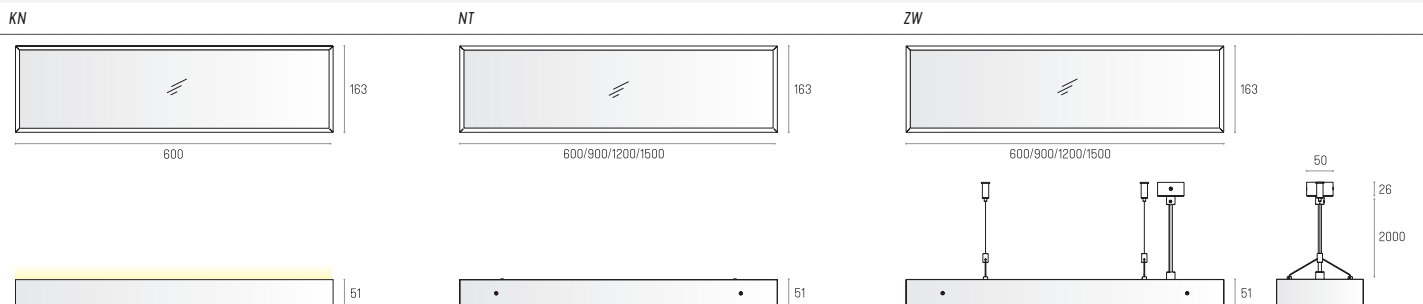
*Versas KW [03 White]*

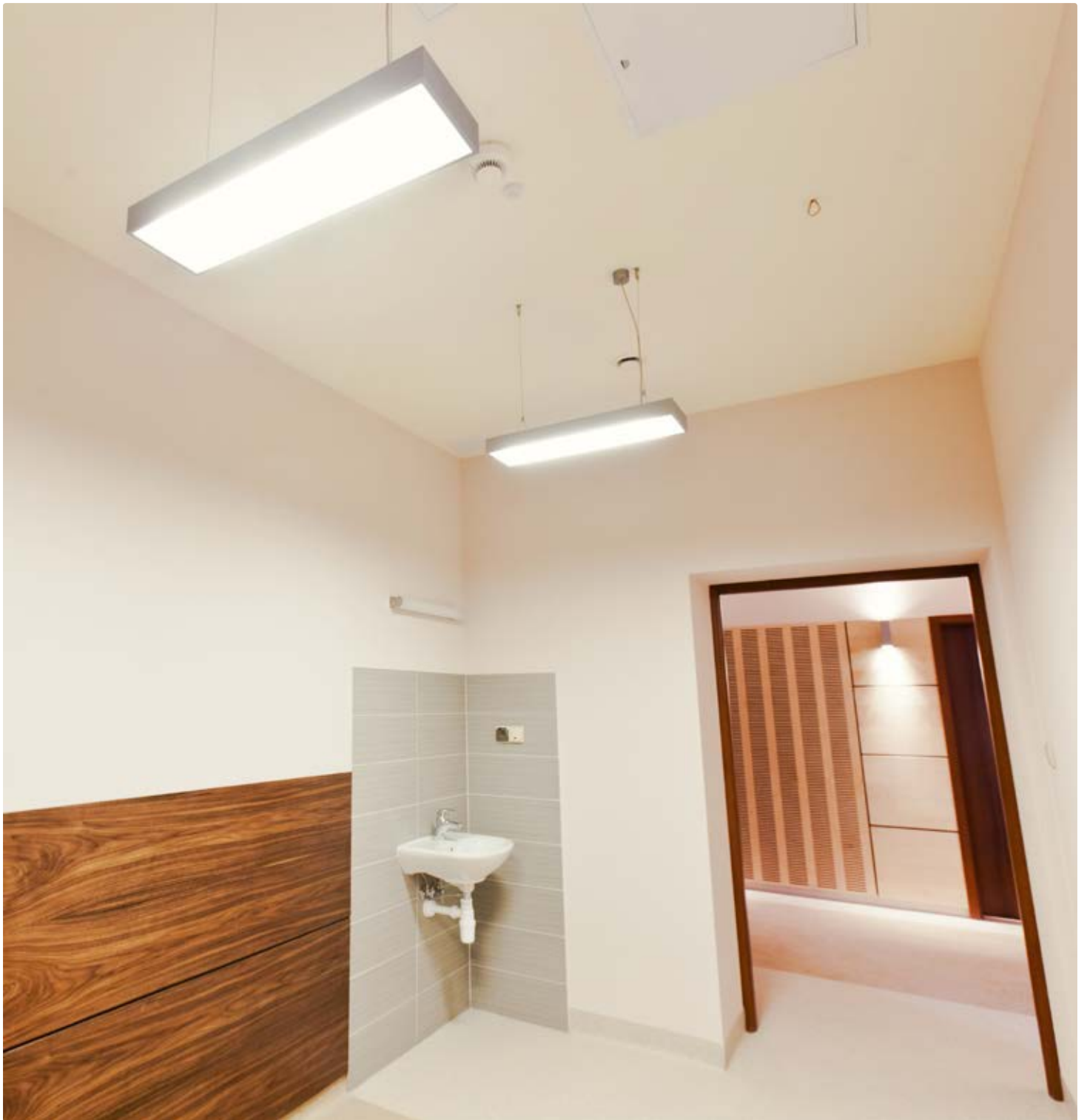


Model	Order Codes	Color	CRI / Color temp.
	On-Off	Alu / Grey Black White Mixed	CR190 2700K CR190 3000K CR190 4000K
		.01 .02 .03 .99	.927 .930 .940
<b>Versa NT T5</b>			
600mm   2x 14W T5 G5	6.0036	● ● ● ●	
600mm   2x 24W T5 G5	6.0051	● ● ● ●	
900mm   2x 21W T5 G5	6.0037	● ● ● ●	
900mm   2x 39W T5 G5	6.0052	● ● ● ●	
1200mm   2x 28W T5 G5	6.0038	● ● ● ●	
1200mm   2x 54W T5 G5	6.0053	● ● ● ●	
1500mm   2x 35W T5 G5	6.0039	● ● ● ●	
1500mm   2x 49W T5 G5	6.0054	● ● ● ●	
1500mm   2x 80W T5 G5	6.0055	● ● ● ●	
<b>Versa NT LED</b>			
600mm LP   26W 3400lm	6.0905	● ● ● ●	● ●
600mm HP   50W 6800lm	6.0785	● ● ● ●	● ●
900mm LP   38W 5100lm	6.0906	● ● ● ●	● ●
900mm HP   75W 10200lm	6.0786	● ● ● ●	● ●
1200mm LP   50W 6800lm	6.0907	● ● ● ●	● ●
1200mm HP   100W 13600lm	6.0787	● ● ● ●	● ●
1500mm LP   63W 8500lm	6.0908	● ● ● ●	● ●
1500mm HP   126W 17000lm	6.0788	● ● ● ●	● ●
<b>Versa ZW T5</b>			
600mm   2x 14W T5 G5	6.0032	● ● ● ●	
600mm   2x 24W T5 G5	6.0046	● ● ● ●	
900mm   2x 21W T5 G5	6.0033	● ● ● ●	
900mm   2x 39W T5 G5	6.0047	● ● ● ●	
1200mm   2x 28W T5 G5	6.0034	● ● ● ●	
1200mm   2x 54W T5 G5	6.0048	● ● ● ●	
1500mm   2x 35W T5 G5	6.0035	● ● ● ●	
1500mm   2x 49W T5 G5	6.0049	● ● ● ●	
1500mm   2x 80W T5 G5	6.0050	● ● ● ●	
<b>Versa ZW LED</b>			
600mm LP   26W 3400lm	6.0909	● ● ● ●	● ●
600mm HP   50W 6800lm	6.0852	● ● ● ●	● ●
900mm LP   38W 5100lm	6.0910	● ● ● ●	● ●
900mm HP   75W 10200lm	6.0853	● ● ● ●	● ●
1200mm LP   50W 6800lm	6.0911	● ● ● ●	● ●
1200mm HP   100W 13600lm	6.0854	● ● ● ●	● ●
1500mm LP   63W 8500lm	6.0912	● ● ● ●	● ●
1500mm HP   126W 17000lm	6.0855	● ● ● ●	● ●
<b>Versa KN</b>			
KN   2x 24W T5 G5	1.0387	● ● ● ●	● ●

Lumen output from light source | Wartość lumenów ze źródła światła

**Versa**









**Walk'y**

*wall recessed*

Malky 230V [02 Black]



Malky 230V [02 Black]



Malky 230V [02 Black]



- Orientation | step light
- Assymmetrically placed light source
- Designed for mounting in plasterboard
- Special conbox available for mounting in solid walls (concrete|brick)
- CRI90 3-step as a standard



Model Order Codes Color CRI / Color temp. Optic

	On-Off	Accessories	Alu / Grey - .01	Black - .02	White - .03	Mixed - .99
<b>Walk'y</b>						
Walk'y 230V   1x 1.5W 90lm CRI90 3000K	4.0317	1	●	●	●	●
1 Concrete mounting box [ optional ]		9.0390	●	●	●	●

Lumen output from luminaire | Wartość lumenów z oprawy

**Walk'y**

Walk'y 230V

Conbox

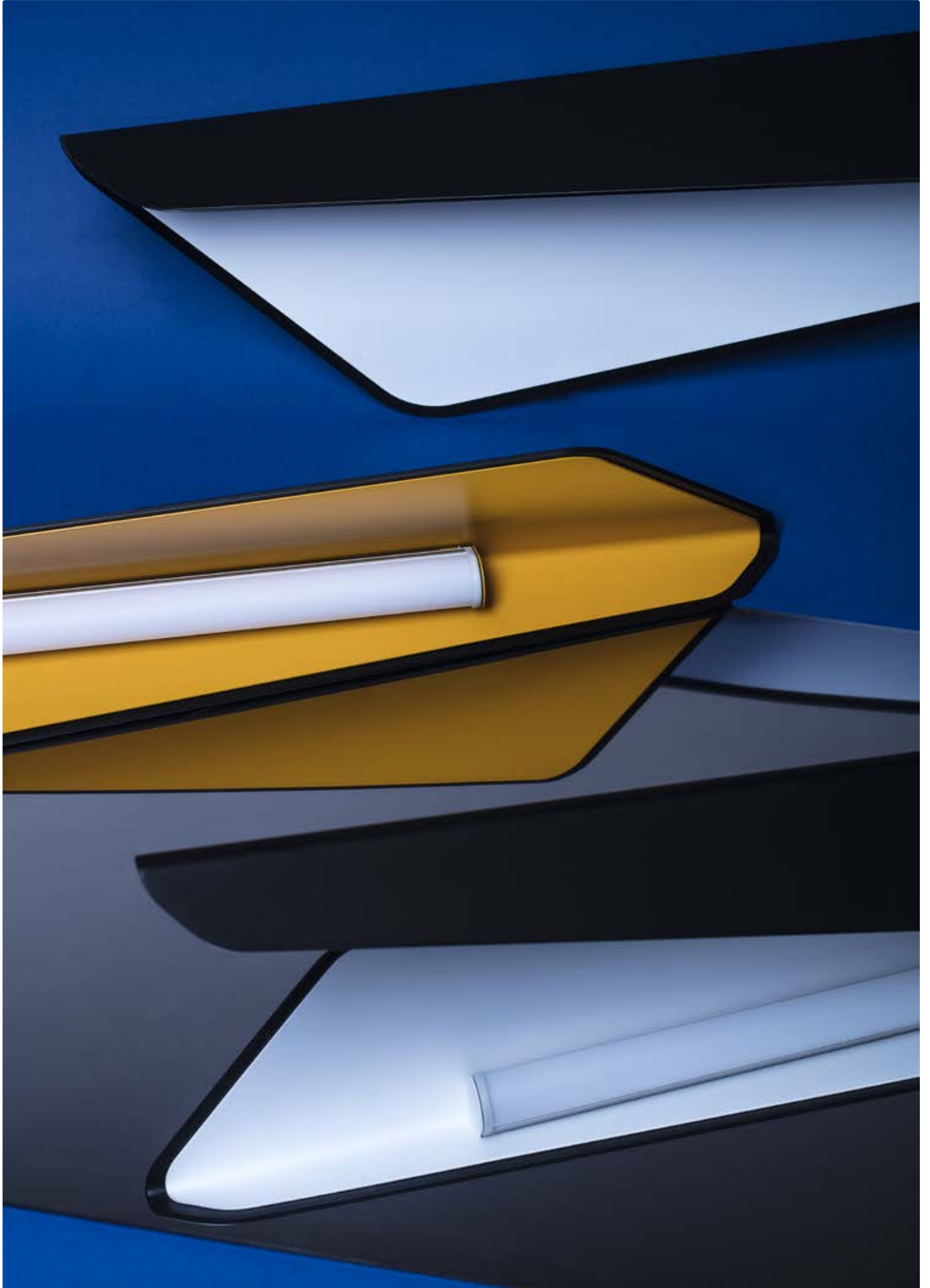


85x65 h85

83x82 h90 | consult manual



PW Interior Jaroslav Horak . Private apartment, Frydek-Mistek . Photo - Jaroslav Horak



# **Wave**

*wall . suspended*



- Iconic position in LABRA menu
- Original lighting object
- Eyecatcher - Ideal for reception halls, representative office spaces, dining rooms etc.
- Wall mounted version can be installed as a downlighter or uplighter
- 3 available sizes
- **CRISO** 3-step as a standard



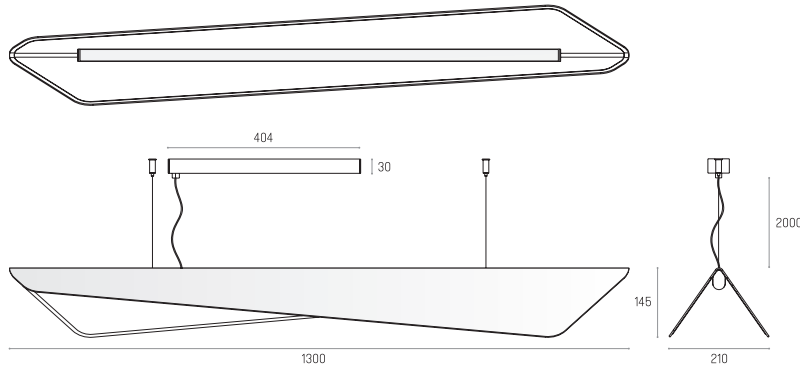
Model Order Codes Color CRI / Color temp.

		On-Off	Switch-DALI	Black .02	White .03	Black + White .44	Black + Orange .66	Mixed .99	CR190 2700K .927	CR190 3000K .930	CR190 4000K .940
<b>Wave KN</b>											
MAX Minimal	1x 14W 1100lm	1.1179		●	●	●	●	●	●	●	
<b>Wave</b>											
MAX Minimal	1x 27W 2200lm	5.1177	5.1178	●	●	●	●	●	●	●	
MAX	1x 25W 1900lm	5.0424	5.0844	●	●	●	●	●	●	●	
MAX Superior	1x 45W 3800lm	5.1188	5.1189	●	●	●	●	●	●	●	

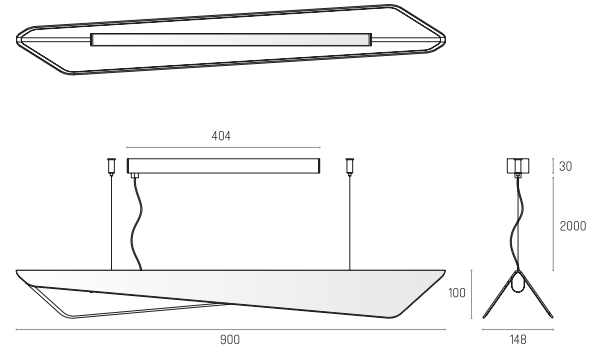
Lumen output from luminaire | Wartość lumenów z oprawy

**Wave**

Wave Max

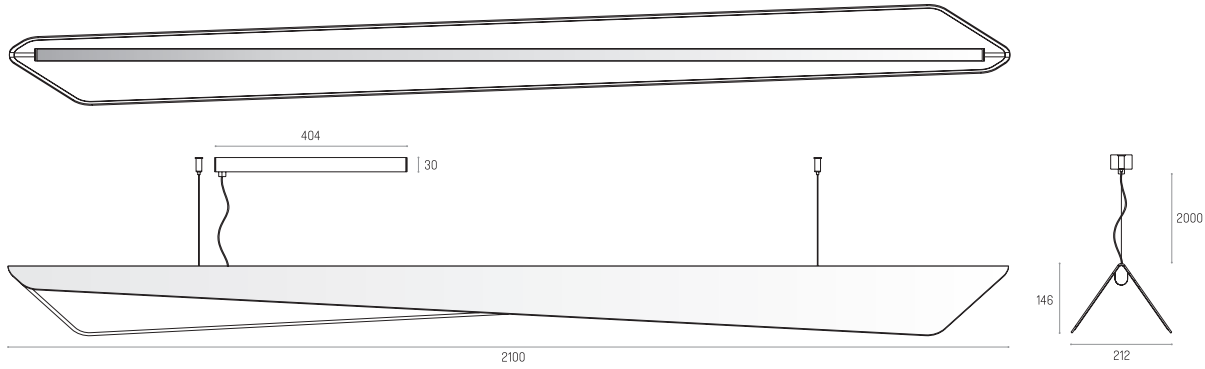


Wave Max Minimal



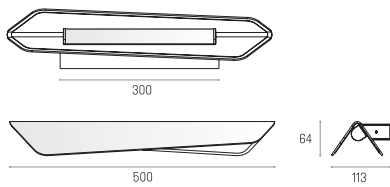
**Wave**

Wave Max Superior

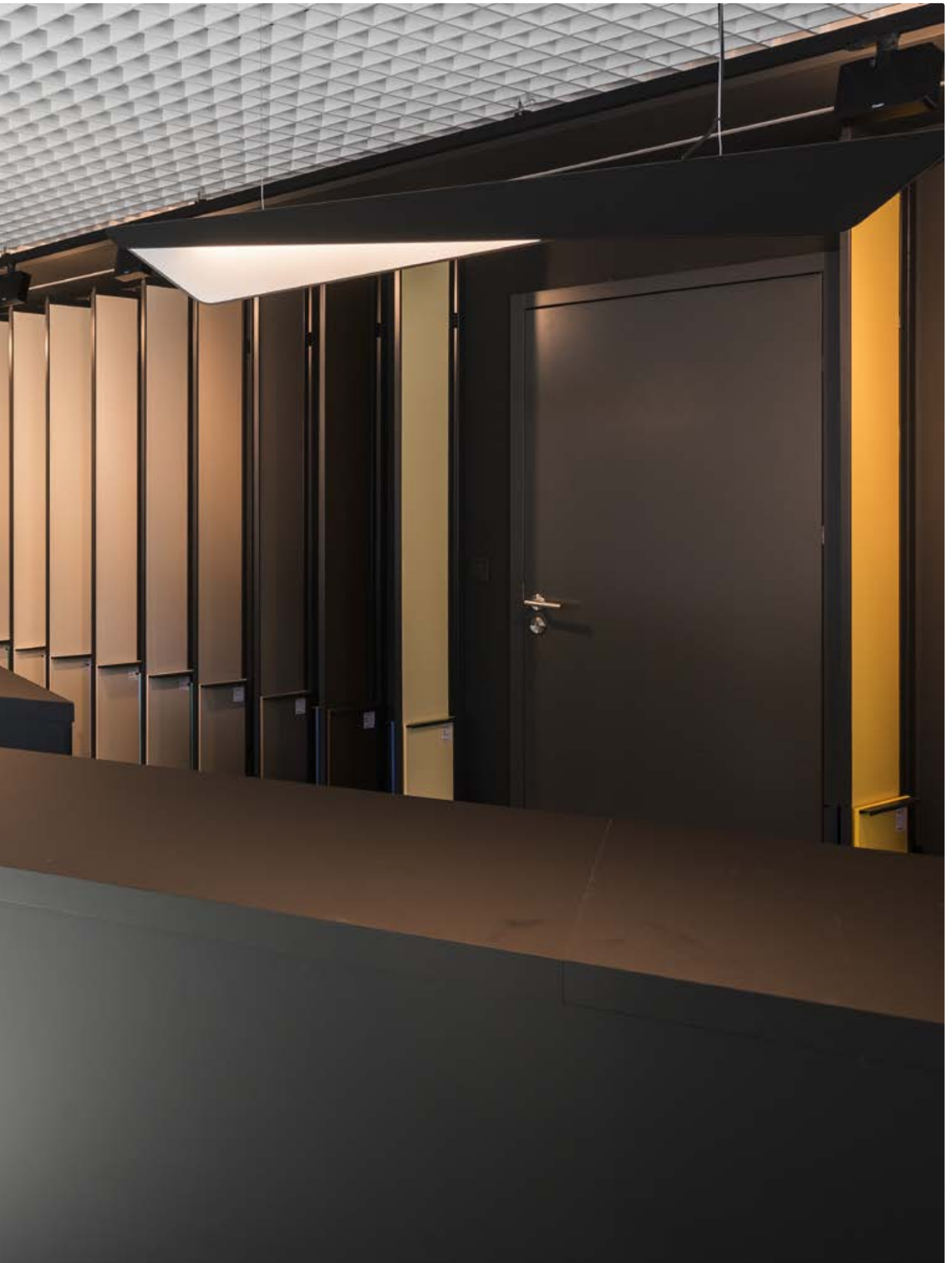


**Wave**

Wave MAX Minimal KN



















# ***Yon***

*wall . surface . recessed . suspended*

- Works best in office spaces
- Two versions:  
Surface mounted & Suspended
- Eyecatching asymmetrical body
- Innovative **linear lenses** made of optical PMMA
- Antiglare screen around lenses always black
- High lumen output with minimal losses
- Two light distribution angles
- Optimized longitudinal UGR
- CRI80 3-step as a standard



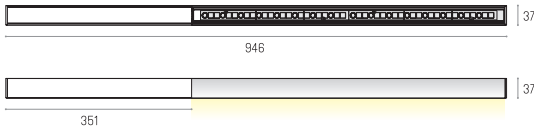
Model Order Codes Color CRI / Color temp. Optic

		On-Off	Switch_DALI	Alu   Grey	Black	White	Mixed	White + Black	CR180 2700K	CR180 3000K	CR180 4000K	Wide 60°	X-Wide 90°
		—	—	.01	.02	.03	.99	.33	.827	.830	.840	.W	.XW
<b>Yon 37 Lens</b>													
NT 946	18W 1900lm	3.2169	3.2170	●	●	●	●	●	●	●	●	●	●
NT 1246	27W 2800lm	3.2171	3.2172	●	●	●	●	●	●	●	●	●	●
NT 1546	36W 3800lm	3.2173	3.2174	●	●	●	●	●	●	●	●	●	●
ZW 633	18W 1900lm	5.2175	5.2176	●	●	●	●	●	●	●	●	●	●
ZW 933	27W 2800lm	5.2177	5.2178	●	●	●	●	●	●	●	●	●	●
ZW 1233	36W 3800lm	5.2179	5.2180	●	●	●	●	●	●	●	●	●	●

Lumen output from luminaire | Wartość lumenów z oprawy

**Yon 37 Lens NT**

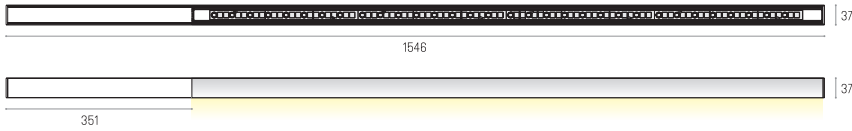
NT 946



NT 1246

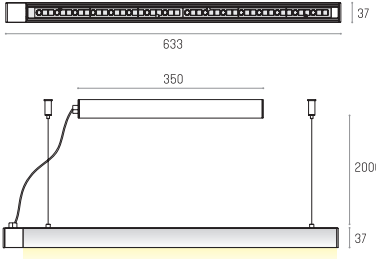


NT 1546

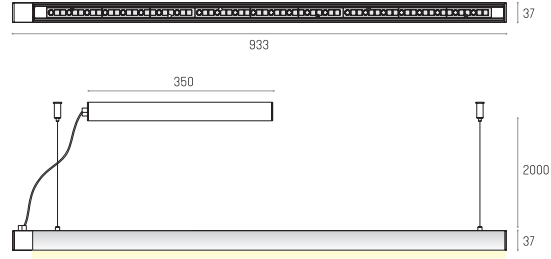


**Yon 37 Lens ZW**

ZW 633



ZW 933



ZW 1233











Yon KN 600 T5 [01 White]



Yon NT 600 T5 [02 Black]



Yon ZW 600 T5 [02 Black]

Kultura Projektowania | AP Interior · Private apartment, Politechn Zdroj · Photo · Michal Polakowski MP Images



- Four versions:
- Surface mounted, Suspended recessed and wall mounted
- Cover made of opal PMMA
- Available with LED light source and for classic T5 fluorescent lamps
- **CR190** 3-step as a standard in LED version

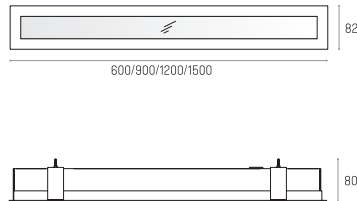
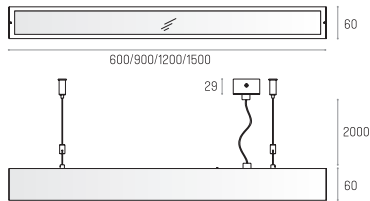
Model	Order Codes	Color	CRI / Color temp.
	On-Off - Switch-DALI	Alu / Grey - Black - White - Mixed	CR90 2700K - CR90 3000K - CR90 4000K
		.01 .02 .03 .99	.927 .930 .940
<b>YON WPT5</b>			
600mm   1x 14W T5 G5	6.0199	● ● ● ●	
600mm   1x 24W T5 G5	6.0200	● ● ● ●	
900mm   1x 21W T5 G5	6.0201	● ● ● ●	
900mm   1x 39W T5 G5	6.0202	● ● ● ●	
1200mm   1x 28W T5 G5	6.0203	● ● ● ●	
1200mm   1x 54W T5 G5	6.0204	● ● ● ●	
1500mm   1x 35W T5 G5	6.0205	● ● ● ●	
1500mm   1x 49W T5 G5	6.0206	● ● ● ●	
1500mm   1x 80W T5 G5	6.0207	● ● ● ●	
<b>YON WP LED</b>			
600mm LP   15W 1700lm	6.0919	6.1621	● ●
600mm HP   25W 3400lm	6.0781	6.1622	● ●
900mm LP   21W 2550lm	6.0920	6.1623	● ●
900mm HP   37W 5100lm	6.0782	6.1624	● ●
1200mm LP   25W 3400lm	6.0921	6.1625	● ●
1200mm HP   49W 6800lm	6.0783	6.1626	● ●
1500mm LP   31W 4200lm	6.0922	6.1627	● ●
1500mm HP   61W 8500lm	6.0784	6.1628	● ●
<b>YON ZWT5</b>			
600mm   1x 14W T5 G5	6.0020	● ● ● ●	
600mm   1x 24W T5 G5	6.0057	● ● ● ●	
900mm   1x 21W T5 G5	6.0021	● ● ● ●	
900mm   1x 39W T5 G5	6.0058	● ● ● ●	
1200mm   1x 28W T5 G5	6.0022	● ● ● ●	
1200mm   1x 54W T5 G5	6.0059	● ● ● ●	
1500mm   1x 35W T5 G5	6.0023	● ● ● ●	
1500mm   1x 49W T5 G5	6.0060	● ● ● ●	
1500mm   1x 80W T5 G5	6.0061	● ● ● ●	
<b>YON ZW LED</b>			
600mm LP   15W 1700lm	6.0680	6.1629	● ●
600mm HP   25W 3400lm	6.0769	6.1630	● ●
900mm LP   21W 2550lm	6.0682	6.1631	● ●
900mm HP   37W 5100lm	6.0770	6.1632	● ●
1200mm LP   25W 3400lm	6.0684	6.1633	● ●
1200mm HP   49W 6800lm	6.0771	6.1634	● ●
1500mm LP   31W 4200lm	6.0686	6.1635	● ●
1500mm HP   61W 8500lm	6.0772	6.1636	● ●

Lumen output from light source | Wartość lumenów ze źródła światła

**Yon**

ZW (suspended)

WP (recessed)



LT-16 x69 h90 | consult manual



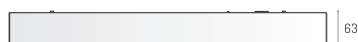
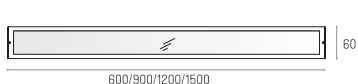
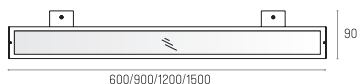
Model	Order Codes	Color	CRI / Color temp.
	On-Off   Switch-DALI 	Alu / Grey   Black   White   Mixed 	CR90 2700K   CR90 3000K   CR90 4000K
		.01 .02 .03 .99	.927 .930 .940
<b>Yon KN T5</b>			
600mm   1x 14W T5 G5	6.0028	● ● ● ●	
600mm   1x 24W T5 G5	6.0067	● ● ● ●	
900mm   1x 21W T5 G5	6.0029	● ● ● ●	
900mm   1x 39W T5 G5	6.0068	● ● ● ●	
1200mm   1x 28W T5 G5	6.0030	● ● ● ●	
1200mm   1x 54W T5 G5	6.0069	● ● ● ●	
1500mm   1x 35W T5 G5	6.0031	● ● ● ●	
1500mm   1x 49W T5 G5	6.0070	● ● ● ●	
1500mm   1x 80W T5 G5	6.0071	● ● ● ●	
<b>Yon KN LED</b>			
600mm LP   15W 1700lm	6.0901	6.1605	● ●
600mm HP   25W 3400lm	6.0777	6.1606	● ●
900mm LP   21W 2550lm	6.0902	6.1607	● ●
900mm HP   37W 5100lm	6.0778	6.1608	● ●
1200mm LP   25W 3400lm	6.0903	6.1609	● ●
1200mm HP   49W 6800lm	6.0779	6.1610	● ●
1500mm LP   31W 4200lm	6.0904	6.1611	● ●
1500mm HP   61W 8500lm	6.0780	6.1612	● ●
<b>Yon NT T5</b>			
600mm   1x 14W T5 G5	6.0024	● ● ● ●	
600mm   1x 24W T5 G5	6.0062	● ● ● ●	
900mm   1x 21W T5 G5	6.0025	● ● ● ●	
900mm   1x 39W T5 G5	6.0063	● ● ● ●	
1200mm   1x 28W T5 G5	6.0026	● ● ● ●	
1200mm   1x 54W T5 G5	6.0064	● ● ● ●	
1500mm   1x 35W T5 G5	6.0027	● ● ● ●	
1500mm   1x 49W T5 G5	6.0065	● ● ● ●	
1500mm   1x 80W T5 G5	6.0066	● ● ● ●	
<b>Yon NT LED</b>			
600mm LP   15W 1700lm	6.0820	6.1613	● ●
600mm HP   25W 3400lm	6.0773	6.1614	● ●
900mm LP   21W 2550lm	6.0821	6.1615	● ●
900mm HP   37W 5100lm	6.0774	6.1616	● ●
1200mm LP   25W 3400lm	6.0822	6.1617	● ●
1200mm HP   49W 6800lm	6.0775	6.1618	● ●
1500mm LP   31W 4200lm	6.0823	6.1619	● ●
1500mm HP   61W 8500lm	6.0776	6.1620	● ●

Lumen output from light source | Wartość lumenów ze źródła światła

## Yon

KN (wall)

NT (surface)



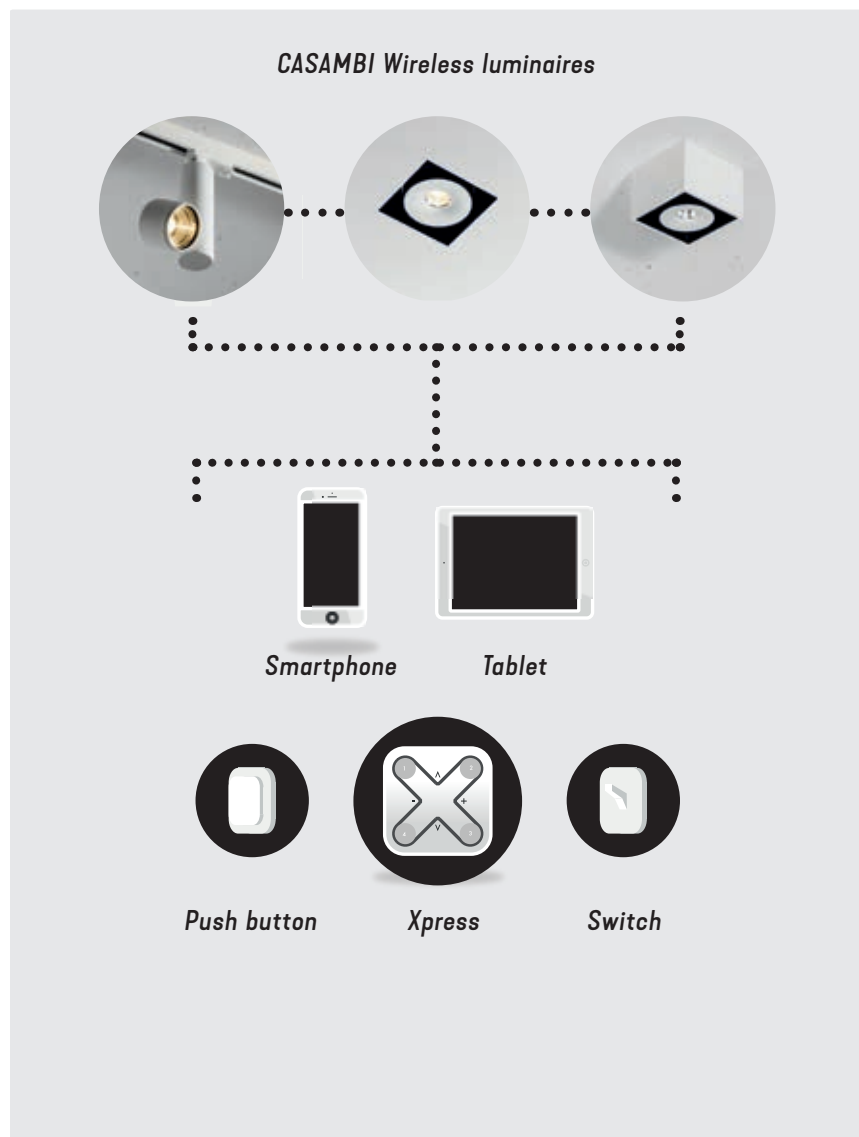












## CASAMBI Wireless Dimming

- From **0.1%** to 100% dimming
- **Requires** devices with Bluetooth 4.0 (Low Energy)
- Up to **127** devices in one network
- Mesh network between luminaires
- **Requires** devices with Android 4.4 KitKat or iPhone 4S or later, iPad 3 or later, iPod touch 5th generation
- Easy setup

All information based on [www.casambi.com](http://www.casambi.com)

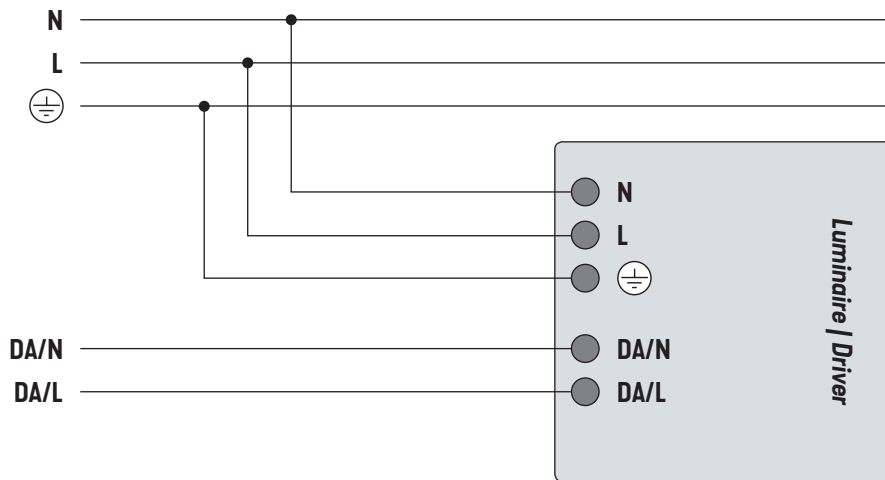
For more detailed info please go to website:

[casambi.com/static/data-sheets/Specification.pdf](http://casambi.com/static/data-sheets/Specification.pdf)

For best experience with CASAMBI wireless system, please check easy to use CASAMBI-made short user guide at: [casambi.com/downloads.html](http://casambi.com/downloads.html)

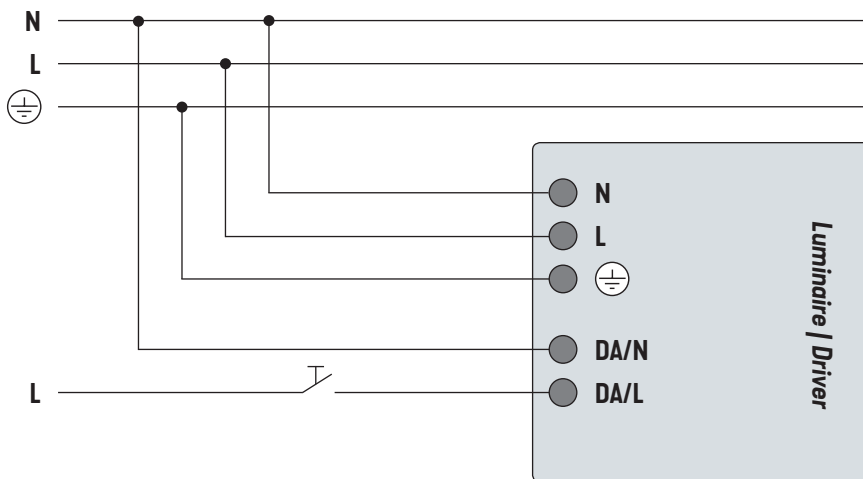


System operation requires downloading a free application from Google Play for Android or Apple App Store for iOS



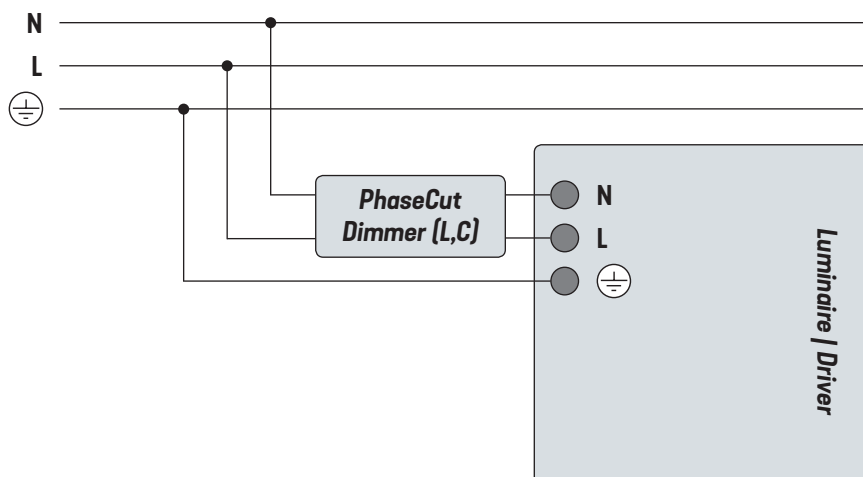
## DALI

- From **1%** to 100% dimming
- **Requires** 5 wires
- Control wires (DA) should be carried away from power cables
- Always connect ground cable, lack of it may cause failure
- Fully digital control, for use even in most sophisticated installations



## SwitchDIM

- From **1%** to 100% dimming
- **Requires** 4 wires
- Control wires (DA) should be carried away from power cables
- Always connect ground cable, lack of it may cause failure
- Max. 25 pcs. on one circuit  
Use only momentary bell buttons (without warning lights)
- Easy to use system, no central control unit required



## PhaseCut

- From **10%** to 100% dimming **depending on the dimmer used**
- **Requires** 3 wires
- Dimming type: Leading Edge and Trailing Edge
- Easy to use system, no central control unit required, but dependent from dimmer unit

Montaż opraw musi zostać wykonany przez uprawnionego elektryka zgodnie z instrukcją montażu i lokalnymi wymaganiami bezpieczeństwa dotyczącymi opraw oświetleniowych. Zabrania się montowania oprawy w przypadku stwierdzenia jakiegokolwiek uszkodzenia elementów montażowych lub elektrycznych, może to spowodować zagrożenie dla zdrowia i życia ludzkiego.

Montaż, demontaż, przeglądy konserwacyjne itp. czy wszelkiego rodzaju naprawy związane z oprawą mogą być przeprowadzane tylko przez osoby posiadające wymagane kwalifikacje, niezbędne jest również zapoznanie się z niniejszą instrukcją. Producent zaleca dodatkowo stosowanie ochronnych rękawiczek przy montażu opraw.

Wszelkie prace przeprowadzane przy oprawie muszą być wykonywane przy odłączonym zasilaniu sieciowym. Dotyczy to każdorazowo czyszczenia oprawy, wymiany źródła światła, przeglądu oprawy. Za każdym razem należy sprawdzić mocowanie oprawy oraz mocowanie źródła światła.

Zabronione jest montowanie w oprawie źródeł światła o mocy innej (wyższej) niż podana na oprawie. Niezastosowanie się do zalecenia może spowodować uszkodzenie lub zniszczenie oprawy a nawet stanowić zagrożenie dla instalacji elektrycznej bądź dla zdrowia i życia ludzkiego

Zabronione jest:

- w oprawach LED – dotykaniu powierzchni diody LED
- w oprawach LED – wpatrywanie się w świecącą diodę LED
- zbliżanie się do diody LED z materiałami wymienionymi w instrukcji obsługi LED
- w oprawach LED – stosowanie innych zasilaczy niż te dostarczone przez producenta
- użytkowanie opraw przy innych parametrach zasilania niż te podane na tabliczce znamionowej
- użytkowania oprawy w środowisku niezgodnym z przeznaczeniem (patrz oznaczenie klas szczelności IPxx)
- umieszczanie oprawy w mniejszej odległości od jakiegokolwiek obiektu niż ta zalecana przez producenta opraw bądź źródła światła.
- okrywanie w jakikolwiek sposób, jakimkolwiek materiałem opraw wpuszczanych/podstropowych.
- użytkowanie opraw w temperaturze otoczenia wyższej niż +25°C i niższej niż 0°C
- użytkowanie opraw w warunkach mogących zaszkodzić układom elektronicznym, powłoce lakierniczej, konstrukcji oprawy tzn. [wysoka temperatura, wysoka wilgotność, wstrząsy, wibracje, pole elektromagnetyczne, wysokie promieniowanie UV, substancje niebezpieczne chemicznie – sole, kwasy, zasady, chlor, zapylenie]
- obciążanie oprawy jakimikolwiek dodatkowymi elementami

Powierzchnie lakiernicze oraz przesłony PMMA i PC (plexi) czyścić miękką, wilgotną ściereczką, można zastosować powszechnie stosowane środkiobojętne chemicznie (nie wolno stosować środków mogących zarysować powierzchnię lakierniczą – przykładem takiego środka jest ogólnie znany „CIF”). Przed czyszczeniem oprawę należy

**bezwzględnie wyłączyć** oraz pozwolić jej ostygnąć do temp. pokojowej. Reflektory i odbłyśniki należy czyścić czystym sprężonym powietrzem.

W przypadku opraw ze źródłem halogenowym należy zwrócić szczególną uwagę na miejsce montażu – powinno ono być odpowiednio dobrane ze względu na wytwarzanie bardzo dużej temperatury przez źródła światła – co powoduje nagrzewanie się elementów oprawy.

Po okresie eksploatacji oprawy nie wolno wyrzucać, należy ją oddać do punktu utylizacji lub do producenta – zgodnie z Dyrektywą 2002/96/WE Rady Parlamentu Europejskiego z dnia 27 stycznia 2003r. w sprawie zużytego sprzętu elektronicznego i elektrotechnicznego [WEEE]

Niniejszą instrukcję należy zachować

Luminaires must be installed by a licensed electrician in accordance with the instruction manual and national safety regulations. Installation must not be performed if any electrical or non-electrical element is damaged as it may be hazardous to health and safety.

Assembly, disassembly, maintenance inspection etc. or any luminaire repairs must be conducted by qualified persons only. It is also essential to read this instruction manual carefully. In addition, the manufacturer recommends wearing protective gloves while installing the product.

All installation and servicing work must be performed when disconnected from the power supply. This applies to luminaire cleaning, maintenance inspection and replacing the light source. It is necessary that the luminaire and light source is securely mounted every time.

It is forbidden to use lights sources with the voltage different from the one indicated on the luminaire. Failure to comply with the recommended guidelines may not only cause luminaire damage or destruction but also may constitute a serious risk to wiring system or human health and life.

It is forbidden to:

- in LED luminaires – touch the surface of the LED
- in LED luminaires – look directly at the LED when it is switched on
- get close to the LED with materials that are specified in the LED Instruction Manual (see LED Instruction Manual)
- in LED luminaires – use a different ballast than the one supplied by the manufacturer
- use different power supply other than the one indicated on the luminaire label
- use the luminaires in environments contrary to their intended use (see Ingress Protection Rating IPxx)
- install the luminaire nearer to any object than recommended by the manufacturer;
- cover recessed luminaires with any material during use
- use the luminaires at an ambient temperature higher than +25°C and lower than 0°C
- use luminaires in locations that may cause damage to electronic circuit, paint coating, or luminaire construction. The risk factors include i.a. high temperature, high humidity, shock, vibrations, electromagnetic field, UV radiation, dustiness, inert substances – salts, acids, alkali, chlorine.
- add weight, or any other materials to the luminaires;

Diffusers PMMA and PC (plexi) as well as painted surfaces should be cleaned with soft damp cloth using commonly known mild ph-neutral, alcohol-free liquid detergents (do not apply any chemicals that might scratch the painted surface – e.g. a well-known cleaning product CIF). The luminaire **must be switched off** and allowed to cool down to room temperature before cleaning. Reflectors should be blown over with compressed air.

Before installing the luminaire with the halogen light bulb make sure that the selected installation spot is safe due to extremely high temperature generation by the light source – which cause the luminaire elements to heat up.

According to European Directive 2002/96/EC of the European Parliament and of the Council of 27 January 2003, luminaires are defined as Waste Electrical and Electronic Equipment (WEEE) and as such, they cannot be disposed of as municipal solid waste. At the end of their life cycle, they must therefore be consigned to the manufacturer or a waste disposal site intended for electronic waste.

Save this instruction for further use.

Oprawy oświetleniowe produkcji firmy LABRA objęte są Gwarancją od daty wystawienia paragonu/faktury VAT: oprawy ze zintegrowanym źródłem LED – **60 MIESIĘCY (5 lat)** – oprawy niezintegrowane na wymienne źródła – **24 MIESIĄCE (2 lata)**

Montaż oprawy oraz jej użytkowanie powinny być zgodne z jej przeznaczeniem i instrukcją montażu/użytkowania.

Gwarancja obejmuje tylko wady ukryte Produktu powstałe w procesie produkcji, ujawnione w czasie eksploatacji. W zakres napraw reklamacyjnych wchodzi wady: materiału, powłoki lakierniczej lub montażu podzespołów.

Gwarancja nie obejmuje zużycia oprawy wynikającego z eksploatacji i normalnego użytkowania oraz uszkodzeń spowodowanych:

- niewłaściwym transportem lub przechowywaniem, niewłaściwym montażem, użytkowaniem lub konserwacją,
- nieprawidłowym zasilaniem (np. nieprawidłowym podłączeniem, wadliwą instalacją elektryczną, przepięciami w sieci zasilającej, spadkami napięć i zdarzeniami losowymi),
- przeróbkami i zmianami konstrukcyjnymi lub naprawami wykonanymi przez nieupoważnione osoby.
- użytkowaniem opraw w temperaturze otoczenia powyżej +25°C

Gwarancja nie obejmuje elementów normalnie zużywających się w czasie eksploatacji np. klasyczne źródła światła, przeguby, podkładkiślizgowe, zatrzaski, wewnętrzna powierzchnia lakiernicza, miejsca montażu zatrzasków

W przypadku stwierdzenia uszkodzenia (zniszczenia) produktu przy dostawie oraz reklamacji wynikającej ze szkód powstałych w czasie transportu zastosowanie mają warunki reklamacji usługi transportowej, właściwe dla firmy przewozowej. Kupujący zobowiązany jest każdorazowo do szczegółowej kontroli dostawy. Jeżeli zabezpieczenie transportowe produktu będzie nosiło jakiegokolwiek ślady naruszenia albo stwierdzony zostanie brak lub uszkodzenie towaru, wówczas Kupujący winien umieścić adnotację o rodzaju szkody na liście przewozowym oraz zażądać spisania protokołu szkody.

Firma LABRA Sp. z o.o. nie odpowiada za straty pośrednie lub bezpośrednie (np. koszty montażu, demontażu itp.) spowodowane ujawnieniem wady produktu, ograniczając swoją odpowiedzialność wyłącznie do samego Produktu.

Gwarancja wygasa w przypadku dokonania zmiany w oprawie lub systemie, zastosowania nieoryginalnych zamienników lub dokonania napraw przez nieuprawnione osoby, jeżeli ingerencja nie została ustalona z Producentem oraz nie podpisano z nim uzgodnienia w tym zakresie. Gwarancja wygasa również w momencie zerwania plomby gwarancyjnej bądź jej nieczytelności. Warunkiem rozpatrzenia reklamacji jest uregulowana należność za reklamowany towar. Reklamacje przyjmowane są wyłącznie na podstawie prawidłowo wypełnionego druku „ZGŁOSZENIE REKLAMACJI” wraz z załączonym dowodem zakupu w postaci kopii faktury, potwierdzającym datę nabycia reklamowanego towaru oraz dane osoby reklamującej. Wypełniony druk „ZGŁOSZENIE REKLAMACJI” należy przesać wraz z reklamowanym towarem na adres: LABRA Sp. z o.o., Olszyny, ul. Koszykarska 4, 32-551 Babice lub w formie elektronicznej na adres e-mail: [biuro@labra.pl](mailto:biuro@labra.pl). Reklamowany towar musi zostać zapakowany tak aby nie było ryzyka uszkodzenia go w trakcie transportu. Wymagane jest zapakowanie produktu w osobne opakowanie/pudełko na każdy produkt oraz drugie opakowanie zbiorcze/transportowe, nawet w przypadku przesyłania pojedynczej oprawy. Oprawa musi zostać zapakowana w materiał zabezpieczający przed ocieraniem się oprawy o pudełko, producent zaleca warstwową folię bąbelkową, miękką piankę, gąbkę lub podobne materiały o odpowiedniej możliwości zabezpieczenia oprawy. Za odpowiednie zapakowanie reklamowanego produktu odpowiada Zgłaszający reklamację. Reklamowany towar musi posiadać czytelną, nienaruszoną nalepkę VOID z podaną datą produkcji.

Uprawnionym do reklamacji jest wyłącznie Kupujący. Jeżeli wykrycie wady dokonane zostało przez inną osobę, wówczas zgłoszenie reklamacji odbywa się za pośrednictwem Kupującego, u którego wadliwy produkt został nabyty. Kupujący zobowiązany jest dostarczyć wszelkich informacji niezbędnych do rozpatrzenia zgłoszenia reklamacyjnego, których zażąda firma LABRA (np. dotyczących eksploatacji produktu, sposobu powstania usterki itp.)

Reklamowane produkty dostarczane są do firmy LABRA na koszt zgłaszającego reklamację. W przypadku konieczności przyjazdu przedstawicieli firmy LABRA do reklamującego i uznania przez nich celu przyjazdu za niezgodny z warunkami gwarancji LABRA, reklamujący zostanie obciążony kosztami dojazdu, pobytu itp.

O sposobie rozpatrzenia zasadnego zgłoszenia reklamacyjnego decyduje firma LABRA oceniając rodzaj usterki. Sposobami rozpatrzenia reklamacji są: naprawa produktu, wymiana produktu na nowy, zwrot kwoty uiszczonej za towar przez Kupującego lub rekompensata w postaci obniżenia ceny produktu. Firma LABRA poinformuje kupującego o sposobie i czasie realizacji zgłoszenia reklamacyjnego w terminie 14 dni roboczych od daty jego otrzymania. W szczególnych przypadkach czas rozpatrzenia zgłoszenia reklamacyjnego może ulec wydłużeniu, o czym reklamujący zostanie niezwłocznie poinformowany.

LABRA warrants that the luminaires will be free from defects in materials and workmanship from the date of purchase (invoice/receipt date). – luminaires with integrated LED light source – **SIXTY (60) MONTHS, (5 years)** – luminaires without integrated LED light source – **TWENTY FOUR (24) MONTHS (2 years)**

The luminaire must be installed and utilized in accordance with its intended purpose and the manufacturer's instruction provided with Product. The warranty covers only hidden, manufacturing defects that have been discovered in Product utilization. The scope of the warranty repairs includes: material defects, paint coating defects and component assembly defects.

EXCLUSIONS – The warranty does not cover defects resulted from normal wear and tear as well as damage caused by:

- transport and improper storage;
- misuse, improper installation or maintenance;
- incorrect power supply (e.g. improper installation, defective electrical installation, overvoltage in the supply network, voltage fluctuations, surges and other random unforeseeable incidents),
- unauthorized alteration, modification or repair of the product performed by unqualified or unauthorized personnel;
- using the luminaires at an ambient temperature higher than +25°C

The warranty does not cover damage to components caused by normal wear and tear e.g. traditional light sources, swivels, sliding washers, clamps, internal paint coating, place of latch assembly etc.

In the event that damage is caused during shipment, the warranty conditions of the relevant shipment service will apply. It is the responsibility of the Customer to inspect the condition of items upon delivery. If the packaging shows any evidence of tampering or if the product is damaged or the shipment fails to arrive, the Customer needs to indicate the type of damage on the consignment letter and request a damage report.

LABRA Sp. z o.o. shall not be liable for any direct or indirect loss (e.g. the cost of installation, dismantling etc.) during which the product is found to be defective. LABRA Sp. z o.o. limits its responsibility solely to the Product itself. The warranty will be considered void in the event of: any modification to the luminaire or the system, the use of third party accessories or components; the necessary repairs being performed by unauthorised personnel without the written consent of the Manufacturer; the warranty seal being ripped, damaged or unreadable;

Complaints will only be processed under the following conditions: the invoice has been fully paid; the Complaint Form has been completed correctly; a copy of the invoice has been provided that should include the date of purchase and customer details. The damaged product needs to be sent with the completed form by post to: LABRA Sp. z o.o., Koszykarska 4, Olszyny, 32-551 Babice or via email to [biuro@labra.pl](mailto:biuro@labra.pl). The product needs to be packed in a way to prevent any further risk of damage during shipment. First, all of the product components need to be wrapped individually and then put together in one package [even if only one luminaire is being sent]. The luminaire needs to be packed in the protective material. The manufacturer recommends multiple layers of bubble wrap, soft foam, sponge or similar materials that will be able to protect the luminaire. It is the responsibility of the customer to ensure the product is adequately packaged and the VOID label with the date of production is clearly attached. The Customer is the only person entitled to lodge a complaint. If a defect has been discovered by someone other than the Customer, the complaint needs to be made directly through the Customer who originally purchased the defective product. The Customer is obliged to provide all the information requested by LABRA Sp. z o.o. to process the complaint (e.g. relating to product utilisation, circumstances of the damage caused and the like). Costs incurred for the shipment of defective products to LABRA Sp. z o.o. will be the Customer's responsibility. In the event that a LABRA Sp. z o.o. representative is required to visit the Customer in order to honour the claim and deems that it is not in accordance with the warranty conditions then the cost of travel, stay etc. will be the responsibility of the customer.

Defects in the luminaires will be evaluated by LABRA Sp. z o.o., who will have sole discretion in determining whether the product is covered by the warranty conditions. If LABRA Sp. z o.o. acknowledges the product to be defective, they will have the right to repair or replace the product, provide a refund or compensation in the form of a discount towards the product. LABRA Sp. z o.o. will notify the Customer about the status and processing time of the complaint within 14 business days from the date of submission. In special cases the processing time may be extended and the Customer will be immediately notified.

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1.0006	41	2.1272	277	3.0403	127	3.1252	255	3.1662	199	4.0765	115	4.1505	115	4.1912	31
1.0208	311	2.1273	277	3.0405	189	3.1253	255	3.1663	199	4.0766	115	4.1506	115	4.1914	193
1.0267	123	2.1280	317	3.0406	189	3.1254	255	3.1664	199	4.0868	19	4.1507	115	4.1921	101
1.0268	123	2.1281	317	3.0407	189	3.1255	255	3.1665	199	4.0869	19	4.1508	115	4.1922	101
1.0290	41	2.1282	317	3.0414	199	3.1340	77	3.1666	199	4.0870	19	4.1509	115	4.1923	101
1.0295	241	2.1430	45	3.0416	145	3.1341	77	3.1673	137	4.0871	19	4.1510	115	4.1924	101
1.0296	241	2.1432	45	3.0548	19	3.1342	77	3.1674	137	4.0965	127	4.1511	115	4.1925	101
1.0298	137	2.1488	89	3.0548	19	3.1343	77	3.1675	137	4.0966	127	4.1512	115	4.1926	101
1.0299	137	2.1489	89	3.0549	19	3.1344	77	3.1677	137	4.1046	127	4.1537	267	4.1927	101
1.0366	179	2.1492	89	3.0549	19	3.1345	77	3.1678	137	4.1047	127	4.1538	267	4.1928	101
1.0387	345	2.1493	89	3.0554	19	3.1346	77	3.1679	137	4.1048	127	4.1747	267	4.1929	101
1.0598	41	2.1687	233	3.0554	19	3.1347	77	3.1680	137	4.1049	127	4.1748	267	4.1930	53
1.0599	179	2.1688	233	3.0555	19	3.1348	77	3.1681	137	4.1056	127	4.1756	335	4.1931	53
1.1104	69	2.1691	233	3.0555	19	3.1349	77	3.1683	137	4.1058	127	4.1757	335	4.1932	53
1.1105	69	2.1695	233	3.0556	199	3.1350	77	3.1684	137	4.1059	127	4.1805	165	4.1933	53
1.1179	355	2.1696	233	3.0651	253	3.1351	77	3.1685	145	4.1061	127	4.1806	165	4.1934	53
1.1267	277	2.1701	233	3.0652	253	3.1352	77	3.1686	145	4.1062	127	4.1807	165	4.1935	53
1.2250	207	2.1702	233	3.0653	253	3.1353	77	3.1875	193	4.1064	127	4.1808	165	4.1936	53
1.2251	207	2.1705	233	3.0655	253	3.1354	77	3.1896	253	4.1065	127	4.1809	165	4.1937	53
1.2252	207	2.1712	89	3.0656	253	3.1355	77	3.1897	253	4.1067	127	4.1810	165	4.1938	53
1.2253	207	2.1713	89	3.0657	253	3.1356	77	3.1898	253	4.1093	257	4.1811	165	4.1939	53
1.2254	207	2.1714	89	3.0659	253	3.1357	77	3.1913	193	4.1094	257	4.1812	165	4.1940	53
1.2255	207	2.1715	89	3.0660	253	3.1358	77	3.2050	53	4.1095	257	4.1813	165	4.1940	165
1.2256	207	2.1722	89	3.0661	253	3.1359	77	3.2051	53	4.1096	257	4.1814	165	4.1941	53
1.2257	207	2.1735	89	3.0688	189	3.1360	77	3.2053	53	4.1106	101	4.1815	165	4.1941	165
2.0119	45	2.1750	233	3.0689	189	3.1361	77	3.2054	53	4.1107	101	4.1816	165	4.1942	53
2.0121	233	2.1770	285	3.0690	189	3.1362	77	3.2056	53	4.1108	295	4.1817	165	4.1942	165
2.0123	233	2.1771	285	3.0700	253	3.1363	77	3.2057	53	4.1109	295	4.1818	165	4.1943	53
2.0124	233	2.1772	285	3.0701	253	3.1364	77	3.2077	53	4.1140	335	4.1819	165	4.1943	165
2.0225	45	2.1776	285	3.0702	253	3.1365	77	3.2079	53	4.1141	335	4.1820	165	4.1944	53
2.0286	311	2.1777	285	3.0704	253	3.1366	77	3.2081	53	4.1142	335	4.1821	165	4.1944	165
2.0312	89	2.1778	285	3.0705	253	3.1367	77	3.2094	149	4.1143	335	4.1822	165	4.1945	53
2.0333	109	2.1915	89	3.0706	253	3.1368	77	3.2099	149	4.1160	335	4.1823	165	4.1945	165
2.0334	109	2.1916	89	3.0725	127	3.1369	77	3.2127	335	4.1161	335	4.1824	165	4.1946	165
2.0335	109	2.1917	89	3.0726	127	3.1370	77	3.2128	335	4.1162	335	4.1825	165	4.1947	165
2.0432	45	2.2095	149	3.0727	127	3.1371	77	3.2129	335	4.1163	335	4.1826	165	4.1948	165
2.0692	89	2.2367	27	3.0729	199	3.1372	77	3.2130	335	4.1165	19	4.1827	165	4.1949	165
2.0696	89	2.2368	27	3.0730	199	3.1373	77	3.2139	77	4.1166	19	4.1828	165	4.1950	165
2.0698	89	2.2369	27	3.0731	199	3.1374	77	3.2140	77	4.1168	19	4.1829	165	4.1951	165
2.0708	233	2.2370	27	3.0737	137	3.1375	77	3.2141	77	4.1169	19	4.1830	165	4.1952	165
2.0709	233	2.2371	27	3.0738	137	3.1376	77	3.2142	77	4.1171	19	4.1831	165	4.1953	165
2.0712	233	2.2372	27	3.0739	137	3.1377	77	3.2143	77	4.1172	19	4.1832	165	4.1954	165
2.0713	233	2.2373	89	3.0740	137	3.1378	77	3.2144	77	4.1174	19	4.1833	165	4.1955	165
2.0716	233	2.2375	89	3.0741	137	3.1379	77	3.2169	365	4.1175	19	4.1834	165	4.2047	53
2.0717	233	2.2377	89	3.0742	137	3.1380	77	3.2170	365	4.1244	245	4.1835	165	4.2048	53
2.0720	109	2.2411	233	3.0804	145	3.1381	77	3.2171	365	4.1245	245	4.1836	165	4.2049	53
2.0721	109	2.2413	233	3.0816	189	3.1382	77	3.2172	365	4.1246	245	4.1837	165	4.2059	53
2.0722	109	2.2415	233	3.0817	189	3.1383	77	3.2173	365	4.1247	245	4.1838	165	4.2060	53
2.0840	89	2.2417	233	3.0818	189	3.1417	19	3.2174	365	4.1248	245	4.1839	165	4.2062	53
2.0925	89	2.2434	285	3.0820	199	3.1418	19	3.2185	53	4.1249	245	4.1840	165	4.2063	53
2.0978	27	2.2435	285	3.0951	295	3.1420	19	3.2186	53	4.1256	255	4.1841	165	4.2065	53
2.0979	27	2.2438	317	3.0952	295	3.1421	19	3.2187	53	4.1257	255	4.1842	165	4.2066	53
2.0981	27	3.0004	295	3.0953	295	3.1442	253	3.2258	207	4.1258	255	4.1843	165	4.2076	101
2.0982	27	3.0005	311	3.0954	295	3.1443	253	3.2259	207	4.1259	255	4.1844	165	4.2083	101
2.0983	27	3.0118	89	3.0955	295	3.1444	253	3.2260	207	4.1260	255	4.1845	165	4.2084	101
2.0985	27	3.0186	295	3.0956	295	3.1445	253	3.2261	207	4.1261	255	4.1846	165	4.2085	101
2.0986	27	3.0187	295	3.1013	295	3.1446	253	3.2262	207	4.1269	277	4.1849	165	4.2086	101
2.0987	27	3.0188	311	3.1014	295	3.1447	253	3.2263	207	4.1270	277	4.1850	165	4.2087	101
2.0989	27	3.0189	311	3.1015	295	3.1480	253	3.2264	207	4.1278	277	4.1851	165	4.2088	101
2.0997	27	3.0244	295	3.1016	295	3.1481	253	3.2265	207	4.1279	277	4.1852	165	4.2089	101
2.0998	27	3.0245	295	3.1017	295	3.1482	253	3.2419	253	4.1407	335	4.1853	165	4.2090	101
2.0999	27	3.0246	295	3.1018	295	3.1483	253	3.2420	253	4.1408	335	4.1854	165	4.2091	101
2.1027	295	3.0256	295	3.1084	257	3.1484	253	3.2421	253	4.1409	335	4.1855	165	4.2092	101
2.1033	295	3.0257	295	3.1085	257	3.1485	253	3.2422	253	4.1410	335	4.1856	165	4.2093	101
2.1068	27	3.0258	295	3.1086	257	3.1525	189	3.2423	253	4.1413	335	4.1859	165	4.2098	149
2.1069	27	3.0259	295	3.1087	257	3.1526	189	3.2424	253	4.1414	335	4.1860	165	4.2100	127
2.1071	27	3.0260	295	3.1097	329	3.1528	189	3.2425	255	4.1415	335	4.1861	165	4.2101	127
2.1072	27	3.0261	295	3.1098	329	3.1529	189	3.2426	255	4.1416	335	4.1862	165	4.2102	245
2.1073	27	3.0272	295	3.1099	329	3.1531	189	3.2427	255	4.1422	19	4.1863	165	4.2103	255
2.1075	27	3.0339	311	3.1100	329	3.1532	189	4.0196	115	4.1423	19	4.1864	165	4.2104	255
2.1076	27	3.0340	311	3.1158	329	3.1539	199	4.0197	115	4.1424	19	4.1865	165	4.2105	255
2.1077	27	3.0341	311	3.1159	329	3.1540	199	4.0215	115	4.1425	19	4.1866	165	4.2106	257
2.1079	27	3.0373	199	3.1181	295	3.1542	199	4.0317	351	4.1426	19	4.1876	193	4.2107	257
2.1230	245	3.0374	199	3.1182	295	3.1545	189	4.0534	267	4.1427	19	4.1903	101	4.2108	257
2.1231	245	3.0392	137	3.1185	295	3.1546	189	4.0536	267	4.1428	19	4.1904	101	4.2109	257
2.1232	245	3.0393	137	3.1238	245	3.1548	189	4.0557	101	4.1429	19	4.1905	115	4.2110	277
2.1262	277	3.0394	137	3.1239	245	3.1549	189	4.0759	115	4.1496	115	4.1906	115	4.2111	295
2.1263	277	3.0399	137	3.1240	245	3.1551	189	4.0760	115	4.1497	115	4.1907	115	4.2158	245
2.1264	277	3.0401	127	3.1250	255	3.1552	189								

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4.2188	245	5.0847	199	6.0052	345	6.0781	369	6.1606	371	6.2307	219	7.1186	295	7.1884	285
4.2266	207	5.0848	199	6.0053	345	6.0782	369	6.1607	371	6.2308	219	7.1187	295	7.1885	285
4.2267	207	5.0957	295	6.0054	345	6.0783	369	6.1608	371	6.2309	219	7.1201	323	7.1886	285
4.2268	207	5.0958	295	6.0055	345	6.0784	369	6.1609	371	6.2310	217	7.1202	323	7.1908	277
4.2269	207	5.0959	295	6.0057	369	6.0785	345	6.1610	371	6.2311	217	7.1203	323	7.1909	277
4.2270	207	5.0960	295	6.0058	369	6.0786	345	6.1611	371	6.2312	217	7.1204	323	7.1918	89
4.2271	207	5.0961	295	6.0059	369	6.0787	345	6.1612	371	6.2313	217	7.1205	323	7.1919	89
4.2272	207	5.0962	295	6.0060	369	6.0788	345	6.1613	371	6.2314	217	7.1206	323	7.1920	89
4.2273	207	5.1022	295	6.0061	369	6.0820	371	6.1614	371	6.2315	217	7.1207	323	7.2096	149
4.2357	267	5.1023	295	6.0062	371	6.0821	371	6.1615	371	6.2316	217	7.1208	323	7.2097	149
4.2363	19	5.1024	295	6.0063	371	6.0822	371	6.1616	371	6.2317	217	7.1209	323	7.2145	77
4.2364	19	5.1025	295	6.0064	371	6.0823	371	6.1617	371	6.2318	217	7.1210	323	7.2146	77
4.2365	19	5.1026	295	6.0065	371	6.0852	345	6.1618	371	6.2319	217	7.1211	323	7.2147	77
4.2366	19	5.1177	355	6.0066	371	6.0853	345	6.1619	371	6.2320	217	7.1212	323	7.2148	77
4.2379	101	5.1178	355	6.0067	371	6.0854	345	6.1620	371	6.2321	217	7.1213	323	7.2149	77
4.2380	101	5.1188	355	6.0068	371	6.0855	345	6.1621	369	6.2322	217	7.1214	323	7.2150	77
4.2381	101	5.1189	355	6.0069	371	6.0901	371	6.1622	369	6.2323	217	7.1215	323	7.2200	157
4.2382	101	5.1543	199	6.0070	371	6.0902	371	6.1623	369	6.2324	217	7.1216	323	7.2201	157
4.2383	101	5.1667	199	6.0071	371	6.0903	371	6.1624	369	6.2325	217	7.1217	323	7.2202	157
4.2384	101	5.1668	199	6.0199	369	6.0904	371	6.1625	369	6.2326	217	7.1218	323	7.2203	157
4.2385	115	5.1669	199	6.0200	369	6.0905	345	6.1626	369	6.2327	217	7.1219	323	7.2210	157
4.2386	115	5.1670	199	6.0201	369	6.0906	345	6.1627	369	6.2328	217	7.1220	323	7.2211	157
4.2387	115	5.1671	199	6.0202	369	6.0907	345	6.1628	369	6.2329	217	7.1233	245	7.2212	157
4.2388	115	5.1672	199	6.0203	369	6.0908	345	6.1629	369	6.2330	217	7.1234	245	7.2213	157
4.2389	127	5.1763	277	6.0204	369	6.0909	345	6.1630	369	6.2331	217	7.1235	245	7.2214	157
4.2390	127	5.1764	277	6.0205	369	6.0910	345	6.1631	369	6.2332	217	7.1236	245	7.2215	157
4.2391	127	5.1765	277	6.0206	369	6.0911	345	6.1632	369	6.2333	217	7.1237	245	7.2216	157
4.2392	127	5.1766	277	6.0207	369	6.0912	345	6.1633	369	6.2334	219	7.1274	277	7.2217	157
4.2393	165	5.1767	277	6.0600	205	6.0914	205	6.1634	369	6.2335	219	7.1275	277	7.2218	157
4.2394	165	5.1768	277	6.0601	205	6.0915	205	6.1635	369	6.2336	219	7.1276	277	7.2219	157
4.2395	165	5.2068	53	6.0602	205	6.0916	205	6.1636	369	6.2337	219	7.1277	277	7.2220	157
4.2396	165	5.2069	53	6.0603	205	6.0917	205	6.1738	205	6.2338	219	7.1283	317	7.2221	157
4.2397	165	5.2071	53	6.0604	205	6.0918	205	6.1739	205	6.2339	219	7.1284	317	7.2222	157
4.2398	165	5.2072	53	6.0605	205	6.0919	369	6.1740	205	6.2340	219	7.1285	317	7.2223	157
4.2399	165	5.2074	53	6.0606	205	6.0920	369	6.1741	205	6.2341	219	7.1301	321	7.2224	157
4.2400	165	5.2075	53	6.0607	205	6.0921	369	6.1742	205	6.2342	217	7.1302	321	7.2225	157
4.2401	165	5.2112	271	6.0608	205	6.0922	369	6.1996	219	6.2343	217	7.1305	321	7.2226	157
4.2402	165	5.2113	271	6.0609	205	6.1190	183	6.1997	219	6.2344	217	7.1306	321	7.2227	157
4.2403	165	5.2165	271	6.0610	205	6.1191	183	6.1998	219	6.2345	217	7.1307	321	7.2228	157
4.2404	165	5.2166	271	6.0612	205	6.1192	183	6.1999	219	6.2346	63	7.1308	321	7.2229	157
4.2405	165	5.2175	365	6.0613	205	6.1193	183	6.2000	219	6.2347	63	7.1309	321	7.2232	157
4.2406	165	5.2176	365	6.0614	205	6.1194	183	6.2004	219	6.2348	63	7.1310	321	7.2233	157
4.2407	165	5.2177	365	6.0615	205	6.1195	183	6.2005	219	6.2349	63	7.1311	321	7.2374	89
4.2408	165	5.2178	365	6.0616	205	6.1196	183	6.2006	219	6.2350	63	7.1312	321	7.2376	89
4.2428	255	5.2179	365	6.0617	205	6.1565	205	6.2007	219	6.2351	63	7.1313	321	7.2378	89
4.2429	255	5.2180	365	6.0618	205	6.1566	205	6.2008	219	6.2352	63	7.1314	321	7.2412	233
4.2430	255	5.2274	207	6.0619	205	6.1567	205	6.2009	219	6.2353	63	7.1315	321	7.2414	233
4.2431	267	5.2275	207	6.0620	205	6.1568	205	6.2010	219	6.2354	63	7.1316	321	7.2416	233
4.2432	267	5.2276	207	6.0621	205	6.1569	205	6.2011	219	6.2355	63	7.1317	321	7.2418	233
4.2433	267	5.2277	207	6.0622	205	6.1570	205	6.2012	219	6.2356	63	7.1319	321	7.2436	285
4.2440	335	5.2278	207	6.0623	205	6.1571	205	6.2013	219	6.2409	183	7.1431	45	7.2437	285
4.2441	335	5.2279	207	6.0624	205	6.1572	205	6.2014	219	6.2410	183	7.1433	45	7.2439	317
4.2442	335	5.2280	207	6.0625	205	6.1573	205	6.2015	219	7.0127	45	7.1490	89	9.0193	41
4.2443	335	5.2281	207	6.0626	205	6.1574	205	6.2016	219	7.0137	233	7.1491	89	9.0194	41
5.0042	295	6.0020	369	6.0627	205	6.1575	205	6.2017	219	7.0139	233	7.1494	89	9.0195	41
5.0043	295	6.0021	369	6.0628	205	6.1576	205	6.2018	219	7.0140	233	7.1495	89	9.0390	351
5.0044	311	6.0022	369	6.0629	205	6.1577	205	6.2019	219	7.0226	45	7.1689	233	9.0970	321
5.0045	311	6.0023	369	6.0630	205	6.1578	205	6.2114	63	7.0287	311	7.1690	233	9.0971	321
5.0247	295	6.0024	371	6.0631	205	6.1579	205	6.2282	217	7.0313	89	7.1693	233	9.1743	101
5.0248	295	6.0025	371	6.0635	205	6.1580	205	6.2284	217	7.0318	89	7.1697	233	9.1744	101
5.0249	295	6.0026	371	6.0637	205	6.1581	205	6.2285	217	7.0365	109	7.1698	233	9.1746	101
5.0300	35	6.0027	371	6.0639	205	6.1582	205	6.2286	217	7.0433	45	7.1703	233	9.1769	31
5.0301	35	6.0028	371	6.0641	205	6.1583	205	6.2287	217	7.0693	89	7.1704	233	9.1800	285
5.0336	311	6.0029	371	6.0643	205	6.1584	205	6.2288	219	7.0697	89	7.1716	89	9.1801	285
5.0337	311	6.0030	371	6.0680	369	6.1585	205	6.2289	219	7.0699	89	7.1717	89	9.1802	285
5.0338	311	6.0031	371	6.0682	369	6.1586	205	6.2290	219	7.0710	233	7.1718	89	9.1803	285
5.0415	199	6.0032	345	6.0684	369	6.1587	205	6.2291	219	7.0711	233	7.1719	89	9.1804	285
5.0424	355	6.0033	345	6.0686	369	6.1588	205	6.2292	219	7.0714	233	7.1723	89	9.2135	77
5.0732	199	6.0034	345	6.0769	369	6.1589	205	6.2293	219	7.0715	233	7.1736	89	9.2136	77
5.0733	199	6.0035	345	6.0770	369	6.1590	205	6.2294	217	7.0718	233	7.1749	233	9.2137	77
5.0734	199	6.0036	345	6.0771	369	6.1591	205	6.2295	217	7.0719	233	7.1751	233	9.2138	77
5.0821	199	6.0037	345	6.0772	369	6.1592	205	6.2296	217	7.0896	109	7.1773	285	9.2234	157
5.0825	295	6.0038	345	6.0773	371	6.1593	205	6.2298	219	7.0899	89	7.1774	285	9.2235	157
5.0826	295	6.0039	345	6.0774	371	6.1594	205	6.2299	219	7.0926	89	7.1775	285	9.2236	157
5.0827	295	6.0046	345	6.0775	371	6.1595	205	6.2300	219	7.1028	295	7.1779	285	9.2237	157
5.0828	295	6.0047	345	6.0776	371	6.1597	205	6.2301	219	7.1029	295	7.1780	285	9.2360	323
5.0829	295	6.0048	345	6.0777	371	6.1599	205	6.2302	217	7.1034	295	7.1781	285		
5.0830	295	6.0049	345	6.0778	371	6.1601	205	6.2304	217	7.1035	295	7.1879</			

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