

HOLECTRON
LED TECH

Linear lighting

2018.1





Contents

PRODUCT RANGE

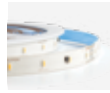


Indoor

FLEXIBLE LED STRIPS



White.
56 LEDs/m
NICHIA LED
(page 12)



White.
56 LEDs/m
OSRAM LED
(page 14)



White.
112 LEDs/m
NICHIA LED
(page 16)



White.
112 LEDs/m
OSRAM LED
(page 18)



White.
140 LEDs/m
OSRAM LED
(page 20)



White.
224 LEDs/m
OSRAM LED
(page 22)



Tunable white.
56+56 LEDs/m
NICHIA LED
(page 26)



Tunable white.
70+70 LEDs/m
OSRAM LED
(page 28)



RGB.
48 LEDs/m
NICHIA LED
(page 30)



RGB.
96 LEDs/m
NICHIA LED
(page 32)



RGB+White.
48+48 LEDs/m
NICHIA LED
(page 34)

CONTINUOUS LINE
MODULAR SYSTEMS



**Ula S
Clear**
(page 40)



**Ula M
Opal**
(page 44)



**Ula L
Opal**
(page 48)

Outdoor

WATERPROOF
FLEXIBLE LED STRIPS



Aqua IP67
(page 56)

CONTINUOUS LINE
MODULAR SYSTEMS



**Ula S Clear
IP67**
(page 64)



**Ula M Opal
IP67**
(page 68)



**Ula L Opal
IP67**
(page 72)

Linear luminaires



**Neman
Pendant**
(page 80)



**Neman
Surface**
(page 82)



**Neman
Recessed**
(page 84)



Quality first

WE PRODUCE ONLY THE HIGHEST QUALITY LINEAR LED LIGHTING PRODUCTS FOR PROFESSIONAL LIGHTING APPLICATIONS



HOLECTRON produces high-quality LED products and light sources for professional lighting applications. Our R&D, production and sales departments are located in Europe, the city of Vilnius, the capital of Lithuania.

All of our LED products are made using the highest quality electronic components. We use most advanced modern SMT mounters and automatic assembly machines.

Pinpoint accurate assembling process, high usage individual strip testing before our product leaves the factory – this is how we guarantee only the highest quality LED products delivery to our global customers.

We care about our customers' success, therefore we concentrate on precision manufacturing and maintaining the efficiency of our products by guaranteeing a 5-year warranty. Moreover, we provide product quality consultations, specific calculations for your projects and recommendations for every client's project.

OUR INDOOR PRODUCTS RANGE:

Constant voltage flexible LED strips:
Flexible LED strips with NICHIA or OSRAM LEDs.
Tunable white flexible LED strips with NICHIA LEDs.
RGB flexible LED strips with NICHIA LEDs.
RGB+White flexible LED strips with NICHIA LEDs.

Constant current flexible LED strips:
White light CC flexible LED strip with NICHIA LEDs.

LED light fixtures:
Continuous line modular light systems.
Continuous line luminaires.

OUR OUTDOOR PRODUCTS RANGE:

Constant voltage flexible LED strips:
IP67 flexible LED tapes.
IP67 side flexible LED tapes.
IP67 outdoor modular LED light systems.
IP65 wide beam angle LED modules for backlighting.

LED light fixtures:
Continuous line modular light systems.



Product benefits

INDOOR/OUTDOOR LINEAR LED LIGHTING



**5-year
warranty**



**Made in
Europe**

up to
7106 lm/m
Luminous
flux



**3 STEP
MacAdam LEDs**



**Over 650
LED strips
modifications**

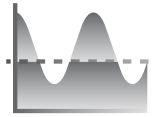


**Thermally conductive
adhesive tape**





CRI 80+
CRI 90+
CRI 95+
SPECIAL



**Stabilized
current**

up to
181 lm/W
Luminous
efficacy

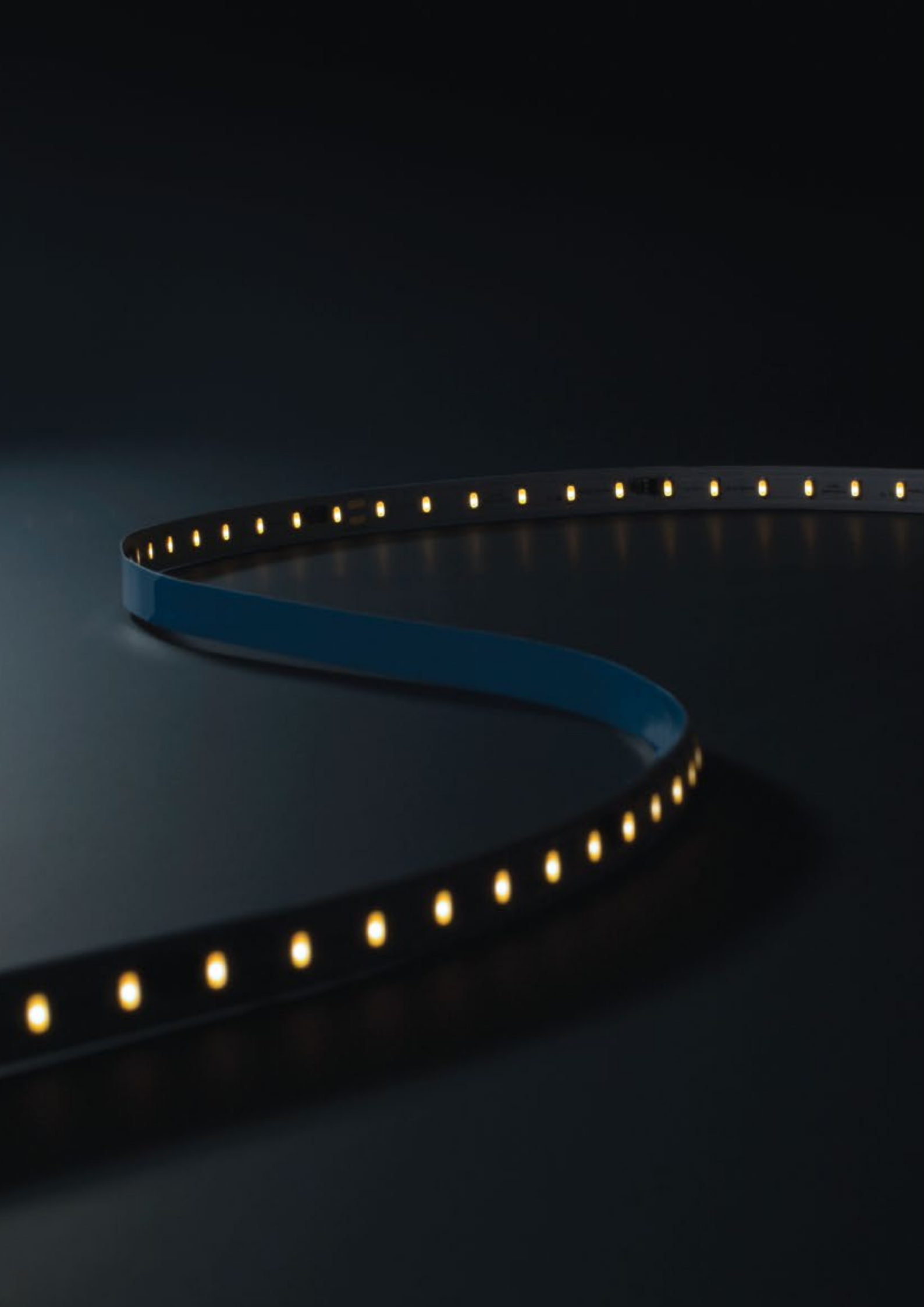
 **NICHIA LED**
OSRAM LED
Highest quality
LED chips



**Customization
for your project**



**Production line focused
only for LED strips**



Flexible LED strips

INDOOR LINEAR LIGHTING

HOLECTRON
LED TECH

White light

56 LEDs/m
NICHIA LED



56 LEDs/m
OSRAM LED



112 LEDs/m
NICHIA LED



112 LEDs/m
OSRAM LED



140 LEDs/m
OSRAM LED



224 LEDs/m
OSRAM LED



Tunable white

56+56 LEDs/m
NICHIA LED



70+70 LEDs/m
OSRAM LED



RGB

48 LEDs/m
NICHIA LED



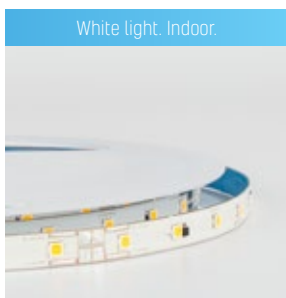
96 LEDs/m
NICHIA LED



RGB+White

48+48 LEDs/m
NICHIA LED





White light. Indoor.

FL-56/N White light. NICHIA 56 LEDs/m

INDOOOR FLEXIBLE LED STRIPS

NICHIA	Stabilized current	3 STEP MacAdam	Made in Europe	5-year warranty	UL approved	LM80 Certified product	>60 000 hours L90B10
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General information

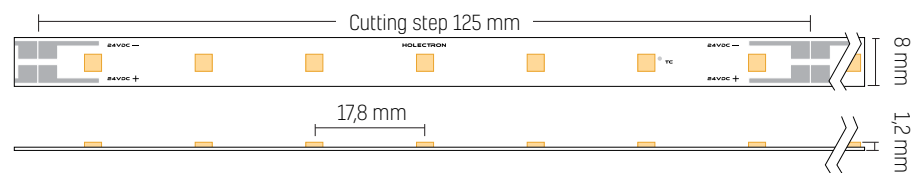
To produce our indoor flexible LED strips, we use 3-step MacAdam NICHIA LEDs from Japan, durable copper PCB and a current stabilization system inside the LED strip.

Thermal conductive adhesive tape guarantees perfect heat transfer to the mounting surface. All of our product features guarantee extra long lifetime and stable performance.

Our flexible LED light strips are designed for long-term professional lighting applications and perfectly fit in any linear or curved applications.

Disclaimer: the product details seen in photo may appear slightly different in real product.

Lumen package	800 lm/m	1500 lm/m	2200 lm/m	2900 lm/m	3500 lm/m
Power	4.8 W/m	9.6 W/m	14.4 W/m	19.2 W/m	24.0 W/m
Maximum length	10 m	5 m	4 m	3 m	3 m
LEDs/m	56 LEDs/m				
Voltage	24VDC (22,5-25VDC)				
Tape width	8 mm				
Cutting step	125 mm				
Tc temperature	<75°C				
Operating temperature	-35°C – 50°C				
Beam angle	120°				
Dimmable	Yes				
Strip length per reel	10 m or 50 m				



Order code

Order code example: **FL-56-24/N3-830**

Product: **FL-56** - Power: **POWER** / Type: **N3** - Spectrum: **SPECTRUM**

Power options:
See table below
(Lumen values).

Spectrum options:
See table below
(Lumen values).

Lumen values

CRI 80+

			POWER W/m							
SPECTRUM	CRI	KELVINS	4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.6 W/m)	48 (48.0 W/m)
820	CRI 80+	2000K	530 lm/m	1003 lm/m	1434 lm/m	1881 lm/m	2296 lm/m	-	-	-
822	CRI 80+	2200K	573	1084	1550	2033	2482	-	-	-
825	CRI 80+	2500K	636	1204	1720	2257	2756	-	-	-
827	CRI 80+	2700K	747	1413	2019	2649	3235	-	-	-
830	CRI 80+	3000K	769	1456	2080	2730	3332	-	-	-
835	CRI 80+	3500K	774	1464	2093	2746	3352	-	-	-
840	CRI 80+	4000K	774	1464	2093	2746	3352	-	-	-
850	CRI 80+	5000K	834	1573	2243	2938	3582	-	-	-
857	CRI 80+	5700K	796	1500	2140	2802	3417	-	-	-
865	CRI 80+	6500K	796	1500	2140	2802	3417	-	-	-
			174 lm/W	164 lm/W	156 lm/W	153 lm/W	149 lm/W	-	-	-

CRI 90+

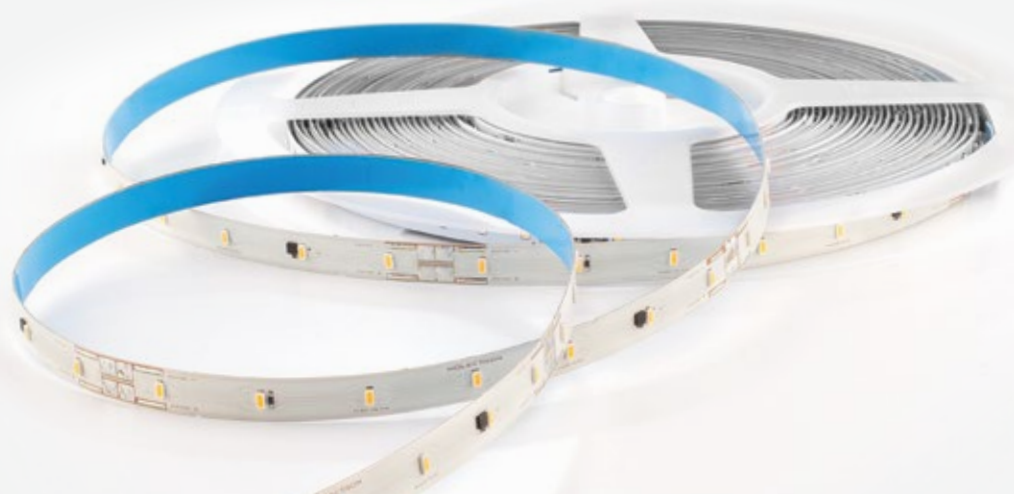
			POWER W/m							
SPECTRUM	CRI	KELVINS	4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.6 W/m)	48 (48.0 W/m)
920	CRI 90+	2000K	451 lm/m	842 lm/m	1191 lm/m	1550 lm/m	1881 lm/m	-	-	-
922	CRI 90+	2200K	488	911	1289	1677	2035	-	-	-
925	CRI 90+	2500K	530	988	1398	1819	2208	-	-	-
927	CRI 90+	2700K	628	1182	1681	2197	2675	-	-	-
930	CRI 90+	3000K	644	1211	1724	2253	2743	-	-	-
935	CRI 90+	3500K	660	1241	1766	2309	2811	-	-	-
940	CRI 90+	4000K	667	1254	1785	2333	2840	-	-	-
950	CRI 90+	5000K	703	1326	1890	2474	3015	-	-	-
957	CRI 90+	5700K	698	1317	1878	2458	2995	-	-	-
965	CRI 90+	6500K	694	1309	1866	2442	2976	-	-	-
			146 lm/W	138 lm/W	131 lm/W	129 lm/W	126 lm/W	-	-	-

CRI 98+

			POWER W/m								
SPECTRUM	CRI	KELVINS	4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.6 W/m)	48 (48.0 W/m)	
027	CRI 98+	2700K	-	-	-	-	-	-	-	-	
030	CRI 98+	3000K	-	-	-	-	-	-	-	-	
035	CRI 98+	3500K	-	-	-	-	-	-	-	-	
040	CRI 98+	4000K	Luminous flux values coming soon				-	-	-	-	-
050	CRI 98+	5000K	-	-	-	-	-	-	-	-	
057	CRI 98+	5700K	-	-	-	-	-	-	-	-	
065	CRI 98+	6500K	-	-	-	-	-	-	-	-	

SPECIAL

			POWER W/m								
SPECTRUM	CRI	KELVINS	4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.6 W/m)	48 (48.0 W/m)	
W30	SPECIAL	White fabrics 3000K	-	-	-	-	-	-	-	-	
W32	SPECIAL	White fabrics 3200K	-	-	-	-	-	-	-	-	
W35	SPECIAL	White fabrics 3500K	-	-	-	-	-	-	-	-	
W40	SPECIAL	White fabrics 4000K	-	-	-	-	-	-	-	-	
P27	SPECIAL	Produce 2700K	-	-	-	-	-	-	-	-	
P30	SPECIAL	Produce 3000K	Luminous flux values coming soon				-	-	-	-	-
P35	SPECIAL	Produce 3500K	-	-	-	-	-	-	-	-	
P40	SPECIAL	Produce 4000K	-	-	-	-	-	-	-	-	
P50	SPECIAL	Produce 5000K	-	-	-	-	-	-	-	-	
MEAT	SPECIAL	Meat	-	-	-	-	-	-	-	-	
MEAT-R	SPECIAL	Meat [richer]	-	-	-	-	-	-	-	-	



White light. Indoor.

FL-56/0 White light. OSRAM 56 LEDs/m

INDOOOR FLEXIBLE LED STRIPS

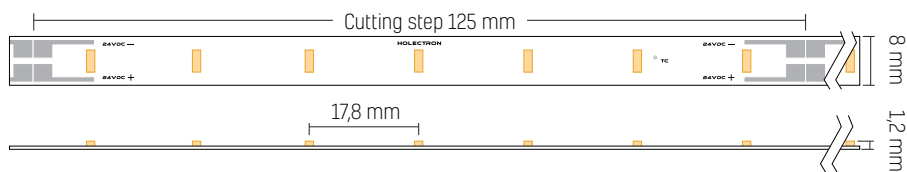
OSRAM High quality LED	Stabilized current	3 STEP MacAdam	Made in Europe	5-year warranty	UL approved	LM80 Certified product
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General information

To produce our indoor flexible LED strips, we use 3-step MacAdam OSRAM LEDs from Germany, durable copper PCB and a current stabilization system inside the LED strip. Thermal conductive adhesive tape guarantees perfect heat transfer to the mounting surface. All of our product features guarantee extra long lifetime and stable performance. Our flexible LED light strips are designed for long-term professional lighting applications and perfectly fit in any linear or curved applications.

Disclaimer: the product details seen in photo may appear slightly different in real product.

Lumen package	700 lm/m	1300 lm/m	1800 lm/m	2400 lm/m
Power	4.8 W/m	9.6 W/m	14.4 W/m	19.2 W/m
Maximum length	9 m	4,5 m	3,5 m	2,5 m
LEDs/m	56 LEDs/m			
Voltage	24VDC (22,5-25VDC)			
Tape width	8 mm			
Cutting step	125 mm			
Tc temperature	<75°C			
Operating temperature	-35°C – 50°C			
Beam angle	120°			
Dimmable	Yes			
Strip length per reel	10 m or 50 m			



Order code

Order code example: **FL-56-19/03-830**

Product: **FL-56** - Power: **POWER** / Type: **03** - Spectrum: **SPECTRUM**

Power options:
See table below
(Lumen values).

Spectrum options:
See table below
(Lumen values).

Lumen values

CRI 80+

SPECTRUM	CRI	KELVINS	POWER W/m							
			4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.6 W/m)	48 (48.0 W/m)
822	CRI 80+	2200K	515 lm/m	957 lm/m	1343 lm/m	-	-	-	-	-
825	CRI 80+	2500K	572	1058	1478	-	-	-	-	-
827	CRI 80+	2700K	606	1122	1581	2043	-	-	-	-
830	CRI 80+	3000K	657	1216	1713	2214	-	-	-	-
835	CRI 80+	3500K	657	1216	1713	2214	-	-	-	-
840	CRI 80+	4000K	713	1320	1860	2404	-	-	-	-
850	CRI 80+	5000K	713	1320	1860	2404	-	-	-	-
865	CRI 80+	6500K	713	1320	1860	2404	-	-	-	-
			149 lm/W	138 lm/W	129 lm/W	125 lm/W	-	-	-	-

CRI 90+

SPECTRUM	CRI	KELVINS	POWER W/m							
			4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.6 W/m)	48 (48.0 W/m)
922	CRI 90+	2200K	473 lm/m	813 lm/m	1137 lm/m	-	-	-	-	-
927	CRI 90+	2700K	463	864	1295	-	-	-	-	-
930	CRI 90+	3000K	470	871	1379	-	-	-	-	-
935	CRI 90+	3500K	482	887	1405	-	-	-	-	-
940	CRI 90+	4000K	509	952	1452	-	-	-	-	-
950	CRI 90+	5000K	540	1003	1470	-	-	-	-	-
965	CRI 90+	6500K	512	952	1446	-	-	-	-	-
			113 lm/W	104 lm/W	102 lm/W	-	-	-	-	-



White light. Indoor.



FL-112/N White light. NICHIA 112 LEDs/m

INDOOOR FLEXIBLE LED STRIPS

NICHIA	Stabilized current	3 STEP MacAdam	Made in Europe	5-year warranty	UL approved	LM80 Certified product	>60 000 hours L90B10
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General information

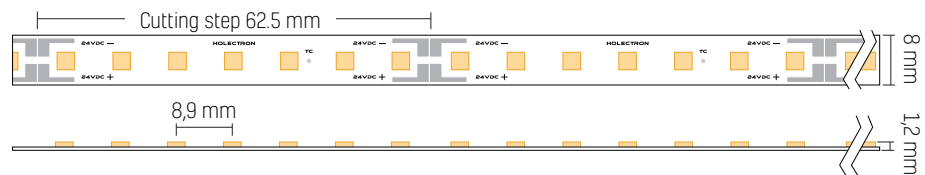
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Lumen package lm/m	800	1600	2300	3100	3900	5100	7100
Power	4,8 W/m	9,6 W/m	14,4 W/m	19,2 W/m	24 W/m	33,4 W/m	48 W/m
Maximum length	14 m	7 m	4,5 m	3,5 m	3 m	2 m	1,5 m
LEDs/m	112 LEDs/m						
Voltage	24VDC (22,5-25VDC)						
Tape width	8 mm						
Cutting step	62.5 mm						
Tc temperature	<75°C						
Operating temperature	-35°C – 50°C						
Beam angle	120°						
Dimmable	Yes						
Strip length per reel	10 m or 50 m						



Order code

Order code example: **FL-112-24/N3-830**

Product: **FL-112** - Power: **POWER** / Type: **N3** - Spectrum: **SPECTRUM**

Power options:
See table below
(Lumen values).

Spectrum options:
See table below
(Lumen values).

Lumen values

CRI 80+

SPECTRUM	CRI	KELVINS	POWER W/m							
			4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)
820	CRI 80+	2000K	553 lm/m	1048 lm/m	1505 lm/m	1981 lm/m	2511 lm/m	-	3287 lm/m	4562 lm/m
822	CRI 80+	2200K	597	1133	1627	2141	2714	-	3553	4931
825	CRI 80+	2500K	663	1258	1806	2378	3013	-	3944	5475
827	CRI 80+	2700K	779	1476	2120	2791	3537	-	4630	6426
830	CRI 80+	3000K	802	1521	2185	2875	3643	-	4769	6620
835	CRI 80+	3500K	807	1530	2197	2892	3665	-	4797	6659
840	CRI 80+	4000K	807	1530	2197	2892	3665	-	4797	6659
850	CRI 80+	5000K	870	1647	2361	3101	3921	-	5128	7106
857	CRI 80+	5700K	830	1571	2252	2958	3740	-	4892	6778
865	CRI 80+	6500K	830	1571	2252	2958	3740	-	4892	6778
			181 lm/W	172 lm/W	164 lm/W	162 lm/W	163 lm/W	-	154 lm/W	148 lm/W

CRI 90+

SPECTRUM	CRI	KELVINS	POWER W/m							
			4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)
920	CRI 90+	2000K	476 lm/m	893 lm/m	1272 lm/m	1663 lm/m	2094 lm/m	-	2719 lm/m	3738 lm/m
922	CRI 90+	2200K	515	966	1376	1799	2265	-	2942	4043
925	CRI 90+	2500K	559	1048	1493	1952	2457	-	3191	4386
927	CRI 90+	2700K	659	1242	1779	2334	2943	-	3846	5315
930	CRI 90+	3000K	675	1274	1824	2393	3024	-	3944	5450
935	CRI 90+	3500K	692	1306	1869	2452	3098	-	4042	5584
940	CRI 90+	4000K	699	1319	1888	2478	3130	-	4083	5642
950	CRI 90+	5000K	734	1388	1990	2613	3304	-	4321	5981
957	CRI 90+	5700K	729	1379	1977	3050	3283	-	4293	5942
965	CRI 90+	6500K	724	1370	1964	2580	3262	-	4265	5904
			153 lm/W	145 lm/W	138 lm/W	159 lm/W	138 lm/W	-	129 lm/W	125 lm/W

CRI 98+

SPECTRUM	CRI	KELVINS	POWER W/m							
			4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)
027	CRI 98+	2700K								
030	CRI 98+	3000K								
035	CRI 98+	3500K								
040	CRI 98+	4000K								
050	CRI 98+	5000K								
057	CRI 98+	5700K								
065	CRI 98+	6500K								

Luminous flux values coming soon

SPECIAL

SPECTRUM	CRI	KELVINS	POWER W/m							
			4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)
W30	SPECIAL	White fabrics 3000K								
W32	SPECIAL	White fabrics 3200K								
W35	SPECIAL	White fabrics 3500K								
W40	SPECIAL	White fabrics 4000K								
P27	SPECIAL	Produce 2700K								
P30	SPECIAL	Produce 3000K								
P35	SPECIAL	Produce 3500K								
P40	SPECIAL	Produce 4000K								
P50	SPECIAL	Produce 5000K								
MEAT	SPECIAL	Meat								
MEAT-R	SPECIAL	Meat (richer)								

Luminous flux values coming soon



White light. Indoor.



FL-112/O White light. OSRAM 112 LEDs/m

INDOOOR FLEXIBLE LED STRIPS

OSRAM High quality LEDs	 Stabilized current	 3 STEP MacAdam	 Made in Europe	 5-year warranty	 UL approved	LM80 Certified product
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General information

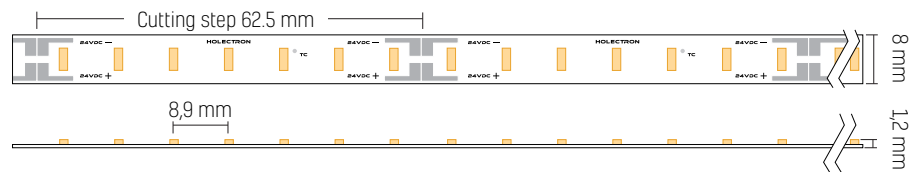
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Disclaimer: the product details seen in photo may appear slightly different in real product.

Lumen package	750 lm/m	1400 lm/m	1900 lm/m	2500 lm/m	3200 lm/m	4200 lm/m
Power	4,8 W/m	9,6 W/m	14,4 W/m	19,2 W/m	24 W/m	33,4 W/m
Maximum length	10 m	6 m	4 m	3 m	2,5 m	2 m
LEDs/m	112 LEDs/m					
Voltage	24VDC (22,5-25VDC)					
Tape width	8 mm					
Cutting step	62.5 mm					
Tc temperature	<75°C					
Operating temperature	-35°C – 50°C					
Beam angle	120°					
Dimmable	Yes					
Strip length per reel	10 m or 50 m					



Order code

Order code example: **FL-112-19/03-830**

Product: **FL-112** - Power: **POWER** / Type: **03** - Spectrum: **SPECTRUM**

Power options:
See table below
(Lumen values).

Spectrum options:
See table below
(Lumen values).

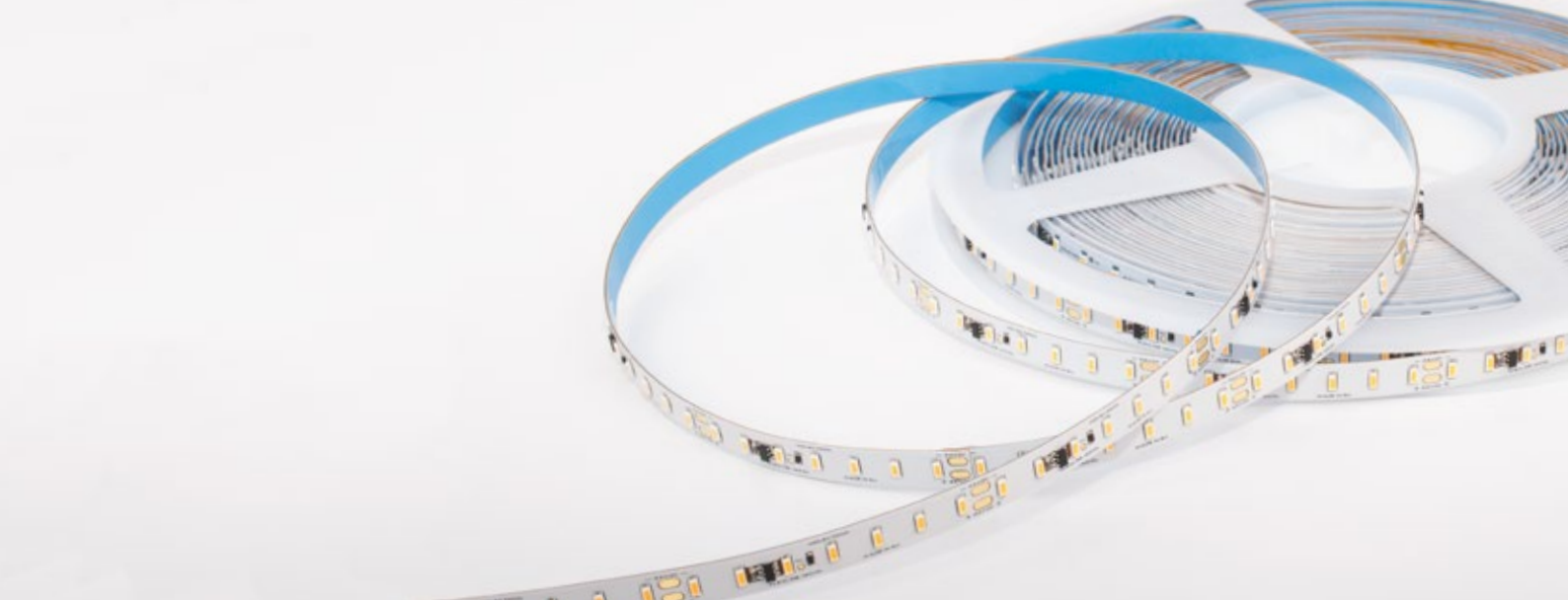
Lumen values

CRI 80+

		POWER W/m								
SPECTRUM	CRI	KELVINS	4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)
822	CRI 80+	2200K	518 lm/m	1011 lm/m	1443 lm/m	1878 lm/m	2258 lm/m	-	2997 lm/m	-
825	CRI 80+	2500K	577	1126	1602	2077	2490	-	3290	-
827	CRI 80+	2700K	654	1191	1689	2198	2765	-	3578	-
830	CRI 80+	3000K	708	1291	1830	2382	2996	-	3877	-
835	CRI 80+	3500K	708	1291	1830	2382	2996	-	3877	-
840	CRI 80+	4000K	769	1401	1986	2585	3252	-	4209	-
850	CRI 80+	5000K	769	1401	1986	2585	3252	-	4209	-
865	CRI 80+	6500K	769	1401	1986	2585	3252	-	4209	-
			160 lm/W	146 lm/W	138 lm/W	135 lm/W	136 lm/W	-	126 lm/W	-

CRI 90+

		POWER W/m								
SPECTRUM	CRI	KELVINS	4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)
922	CRI 90+	2200K	432 lm/m	890 lm/m	1260 lm/m	1633 lm/m	1917 lm/m	-	2520 lm/m	-
927	CRI 90+	2700K	491	910	1301	1695	2179	-	2865	-
930	CRI 90+	3000K	540	926	1319	1712	2325	-	3077	-
935	CRI 90+	3500K	546	947	1345	1743	2363	-	3134	-
940	CRI 90+	4000K	533	999	1430	1865	2432	-	3214	-
950	CRI 90+	5000K	571	1060	1514	1968	2472	-	3278	-
965	CRI 90+	6500K	541	1003	1432	1863	2422	-	3193	-
			119 lm/W	110 lm/W	105 lm/W	103 lm/W	103 lm/W	-	98 lm/W	-



White light. Indoor.



FL-140/O White light. OSRAM 140 LEDs/m

INDOOOR FLEXIBLE LED STRIPS

OSRAM High quality LEDs	 Stabilized current	 3 STEP MacAdam	 Made in Europe	 5-year warranty	 UL approved	LM80 Certified product
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General information

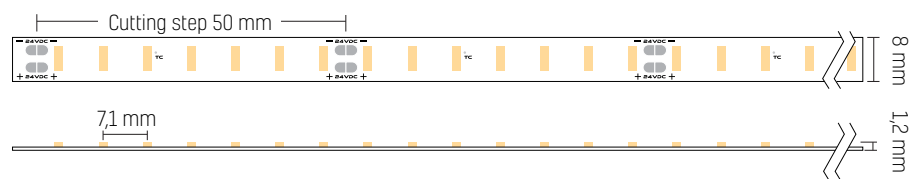
To produce our indoor flexible LED strips, we use 3-step MacAdam OSRAM LEDs from Germany, durable copper PCB and a current stabilization system inside the LED strip.

Thermal conductive adhesive tape guarantees perfect heat transfer to the mounting surface. All of our product features guarantee extra long lifetime and stable performance.

Our flexible LED light strips are designed for long-term professional lighting applications and perfectly fit in any linear or curved applications.

Disclaimer: the product details seen in photo may appear slightly different in real product.

Lumen package	1400 lm/m	2000 lm/m	2600 lm/m	3200 lm/m	3700 lm/m
Power	9,6 W/m	14,4 W/m	19,2 W/m	24 W/m	28,8 W/m
Maximum length	10 m	6 m	5 m	4 m	3 m
LEDs/m	140 LEDs/m				
Voltage	24VDC (22,5-25VDC)				
Tape width	8 mm				
Cutting step	50 mm				
Tc temperature	<75°C				
Operating temperature	-35°C – 50°C				
Beam angle	120°				
Dimmable	Yes				
Strip length per reel	10 m or 50 m				



Order code

Order code example: **FL-140-19/02-830**

Product: **FL-140** - Power: **POWER** / Type: **02** - Spectrum: **SPECTRUM**

Power options:
See table below
(Lumen values).

Spectrum options:
See table below
(Lumen values).

Lumen values

CRI 80+

		POWER W/m								
SPECTRUM	CRI	KELVINS	4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)
822	CRI 80+	2200K	-	1039 lm/m	1502 lm/m	1933 lm/m	2337 lm/m	2744 lm/m	-	-
825	CRI 80+	2500K	-	1157	1668	2142	2583	3028	-	-
827	CRI 80+	2700K	-	1216	1741	2244	2720	3211	-	-
830	CRI 80+	3000K	-	1317	1886	2432	2947	3479	-	-
835	CRI 80+	3500K	-	1317	1886	2432	2947	3479	-	-
840	CRI 80+	4000K	-	1430	2048	2640	3200	3770	-	-
850	CRI 80+	5000K	-	1430	2048	2640	3200	3770	-	-
865	CRI 80+	6500K	-	1430	2048	2640	3200	3770	-	-
			-	149 lm/W	142 lm/W	138 lm/W	133 lm/W	131 lm/W	-	-

CRI 90+

		POWER W/m								
SPECTRUM	CRI	KELVINS	4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)
922	CRI 90+	2200K	-	865 lm/m	1261 lm/m	1626 lm/m	1996 lm/m	2331 lm/m	-	-
927	CRI 90+	2700K	-	936	1354	1744	2262	2649	-	-
930	CRI 90+	3000K	-	954	1374	1764	2410	2826	-	-
935	CRI 90+	3500K	-	963	1389	1790	2448	2872	-	-
940	CRI 90+	4000K	-	1027	1486	1916	2515	2956	-	-
950	CRI 90+	5000K	-	1092	1576	2026	2559	3004	-	-
965	CRI 90+	6500K	-	1033	1491	1918	2509	2945	-	-
			-	114 lm/W	109 lm/W	106 lm/W	107 lm/W	104 lm/W	-	-



White light. Indoor.



FL-224/O White light. OSRAM 224 LEDs/m

INDOOOR FLEXIBLE LED STRIPS

OSRAM High quality LEDs	 3 STEP MacAdam	 Made in Europe	 5-year warranty	 UL approved	LM80 Certified product
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General information

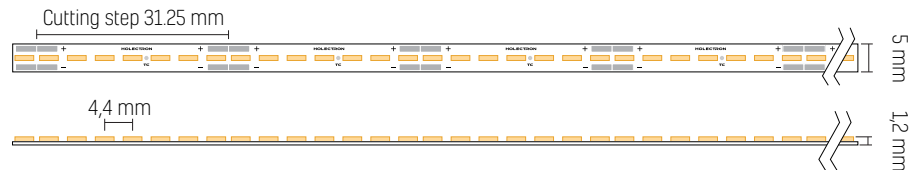
To produce our indoor flexible LED strips, we use 3-step MacAdam OSRAM LEDs from Germany, durable copper PCB and a current stabilization system inside the LED strip.

Thermal conductive adhesive tape guarantees perfect heat transfer to the mounting surface. All of our product features guarantee extra long lifetime and stable performance.

Our flexible LED light strips are designed for long-term professional lighting applications and perfectly fit in any linear or curved applications.

Disclaimer: the product details seen in photo may appear slightly different in real product.

Lumen package	1500 lm/m	2100 lm/m	2700 lm/m
Power	9,6 W/m	14,4 W/m	19,2 W/m
Maximum length	3 m	2 m	1,5 m
LEDs/m	224 LEDs/m		
Voltage	24VDC (22,5-25VDC)		
Tape width	5 mm		
Cutting step	31.25 mm		
Tc temperature	<75°C		
Operating temperature	-35°C – 50°C		
Beam angle	120°		
Dimmable	Yes		
Strip length per reel	10 m or 50 m		



Order code

Order code example: **FL-224-24/03-830**

Product: **FL-224** - Power: **POWER** / Type: **03** - Spectrum: **SPECTRUM**

Power options:
See table below
(Lumen values).

Spectrum options:
See table below
(Lumen values).

Lumen values

CRI 80+

SPECTRUM	CRI	KELVINS	POWER W/m							
			4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)
822	CRI 80+	2200K	-	1020 lm/m	1571 lm/m	2011 lm/m	-	-	-	-
825	CRI 80+	2500K	-	1138	1750	2236	-	-	-	-
827	CRI 80+	2700K	-	1285	1819	2315	-	-	-	-
830	CRI 80+	3000K	-	1392	1971	2509	-	-	-	-
835	CRI 80+	3500K	-	1392	1971	2509	-	-	-	-
840	CRI 80+	4000K	-	1511	2139	2723	-	-	-	-
850	CRI 80+	5000K	-	1511	2139	2723	-	-	-	-
865	CRI 80+	6500K	-	1511	2139	2723	-	-	-	-
			-	157 lm/W	149 lm/W	142 lm/W	-	-	-	-

CRI 90+

SPECTRUM	CRI	KELVINS	POWER W/m							
			4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)
922	CRI 90+	2200K	-	851 lm/m	1330 lm/m	1710 lm/m	-	-	-	-
927	CRI 90+	2700K	-	968	1512	1945	-	-	-	-
930	CRI 90+	3000K	-	1065	1634	2087	-	-	-	-
935	CRI 90+	3500K	-	1075	1652	2112	-	-	-	-
940	CRI 90+	4000K	-	1049	1654	2137	-	-	-	-
950	CRI 90+	5000K	-	1123	1726	2207	-	-	-	-
965	CRI 90+	6500K	-	1064	1667	2146	-	-	-	-
			-	117 lm/W	120 lm/W	115 lm/W	-	-	-	-



NICHIA 112 LEDs/m CRI 95+
INDOOR FLEXIBLE LED STRIPS





TW-56/N Tunable white. NICHIA 56+56 LEDs/m

INDOOR FLEXIBLE LED STRIPS

NICHIA Highest quality LED	Stabilized current	3 STEP MacAdam	Made in Europe	5-year warranty	UL approved	LM80 Certified product	>60 000 hours L90B10
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General information

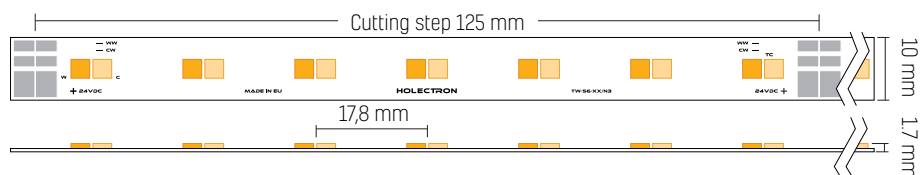
To produce our indoor flexible LED strips, we use 3-step MacAdam NICHIA LEDs from Japan, durable copper PCB and a current stabilization system inside the LED strip.

Thermal conductive adhesive tape guarantees perfect heat transfer to the mounting surface. All of our product features guarantee extra long lifetime and stable performance.

Our flexible LED light strips are designed for long-term professional lighting applications and perfectly fit in any linear or curved applications where human circadian rhythm effect is needed.

Disclaimer: the product details seen in photo may appear slightly different in real product.

Lumen package	1500 lm/m	2900 lm/m	4900 lm/m	6700 lm/m
Power	9,6 W/m	19,2 W/m	33,4 W/m	48 W/m
Maximum length	8 m	5 m	2,5 m	2 m
LEDs/m	56 cold + 56 warm LEDs/m			
Voltage	24VDC			
Tape width	10 mm			
Cutting step	125 mm			
Tc temperature	<75°C			
Operating temperature	-35°C – 50°C			
Beam angle	120°			
Dimmable	Yes			
Strip length per reel	10 m or 50 m			



Order code

Order code example: **TW-56-19/N3-822/865**

Product: **TW-56** - Power: **POWER** / Type: **N3** - Spectrum: **SPECTRUM**

Power options:
See table below
(Lumen values).

Spectrum options:
See table below
(Lumen values).

Lumen values

CRI 80+

SPECTRUM	CRI	KELVINS	POWER W/m						
			9	14	19	24	28	33	48
			(9.6 W/m)	(14.4 W/m)	(19.2 W/m)	(24.0 W/m)	(28.8 W/m)	(33.8 W/m)	(48.0 W/m)
820/865	CRI 80+	2000-6500K	1326 lm/m	-	2503 lm/m	-	-	4141 lm/m	5670 lm/m
825/857	CRI 80+	2500-5700K	1432	-	2704	-	-	4473	6126
827/857	CRI 80+	2700-5700K	1543	-	2913	-	-	4820	6602
827/850	CRI 80+	2700-5000K	1581	-	2986	-	-	4940	6766
			165 lm/W	-	156 lm/W	-	-	148 lm/W	141 lm/W

CRI 90+

SPECTRUM	CRI	KELVINS	POWER W/m						
			9	14	19	24	28	33	48
			(9.6 W/m)	(14.4 W/m)	(19.2 W/m)	(24.0 W/m)	(28.8 W/m)	(33.8 W/m)	(48.0 W/m)
920/965	CRI 90+	2000-6500K	1145 lm/m	-	2151 lm/m	-	-	3529 lm/m	4821 lm/m
925/957	CRI 90+	2500-5700K	1228	-	2305	-	-	3780	5164
927/950	CRI 90+	2700-5000K	1331	-	2508	-	-	4135	5647
			139 lm/W	-	131 lm/W	-	-	124 lm/W	118 lm/W

CRI 98+

SPECTRUM	CRI	KELVINS	POWER W/m						
			9	14	19	24	28	33	48
			(9.6 W/m)	(14.4 W/m)	(19.2 W/m)	(24.0 W/m)	(28.8 W/m)	(33.8 W/m)	(48.0 W/m)
027/065	CRI 98+	2700-6500K							
027/057	CRI 98+	2700-5700K							
027/050	CRI 98+	2700-5000K							
027/040	CRI 98+	2700-4000K							

Luminous flux values coming soon



TW-70/0 Tunable white. OSRAM 70+70 LEDs/m

INDOOR FLEXIBLE LED STRIPS

OSRAM High quality LEDs	 Stabilized current	 3 STEP MacAdam	 Made in Europe	 5-year warranty	 UL approved	LM80 Certified product
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General information

To produce our indoor flexible LED strips, we use 3-step MacAdam OSRAM LEDs from Germany, durable copper PCB and a current stabilization system inside the LED strip. Thermal conductive adhesive tape guarantees perfect heat transfer to the mounting surface. All of our product features guarantee extra long lifetime and stable performance.

Our flexible LED light strips are designed for long-term professional lighting applications and perfectly fit in any linear or curved applications where human circadian rhythm effect is needed.

Disclaimer: the product details seen in photo may appear slightly different in real product.

Lumen package	1300 lm/m	2400 lm/m	3900 lm/m	5400 lm/m
Power	9,6 W/m	19,2 W/m	33 W/m	48 W/m
Maximum length	6 m	3 m	2 m	1,5 m
LEDs/m	70 cold + 70 warm LEDs/m			
Voltage	24VDC (22,5-25VDC)			
Tape width	10 mm			
Cutting step	100 mm			
Tc temperature	<75°C			
Operating temperature	-35°C – 50°C			
Beam angle	120°			
Dimmable	Yes			
Strip length per reel	10 m or 50 m			



Order code

Order code example: **TW-70-19/03-822/865**

Product: **TW-70** - Power: **POWER** / Type: **03** - Spectrum: **SPECTRUM**

Power options:
See table below
(Lumen values).

Spectrum options:
See table below
(Lumen values).

Lumen values

CRI 80+

		POWER W/m							
SPECTRUM	CRI	KELVINS	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)
820/865	CRI 80+	2000-6500K	1234 lm/m	-	2286 lm/m	-	-	3701 lm/m	-
825/857	CRI 80+	2500-5700K	1234	-	2286	-	-	3701	-
827/857	CRI 80+	2700-5700K	1293	-	2391	-	-	3858	-
827/850	CRI 80+	2700-5000K	1323	-	2442	-	-	3974	5437
			138 lm/W	-	127 lm/W	-	-	120 lm/W	113 lm/W

CRI 90+

		POWER W/m							
SPECTRUM	CRI	KELVINS	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)
927/950	CRI 90+	2700-5000K	1050 lm/m	-	1976 lm/m	-	-	3162 lm/m	-
927/965	CRI 90+	2700-6500K	991	-	1855	-	-	2968	-
			109 lm/W	-	103 lm/W	-	-	96 lm/W	-



RGB-48/N Color mixing. NICHIA 48 LEDs/m

INDOOOR FLEXIBLE LED STRIPS

NICHIA Highest quality LED	Stabilized current	3 STEP MacAdam	Made in Europe	5-year warranty	UL approved	LM80 Certified product	>60 000 hours L90B10
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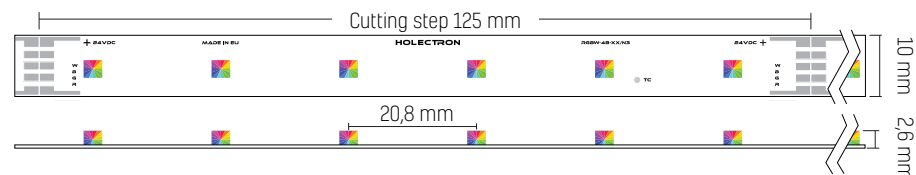
General information

To produce our indoor flexible LED strips, we use NICHIA LEDs from Japan, durable copper PCB and a current stabilization system inside the LED strip. Thermal conductive adhesive tape guarantees perfect heat transfer to the mounting surface. All of our product features guarantee extra long lifetime and stable performance.

Our flexible LED light strips are designed for long-term professional lighting applications and perfectly fit in any linear or curved applications where strong colorful effect is your goal.

Disclaimer: the product details seen in photo may appear slightly different in real product.

Lumen package	RGB 607 lm/m
Power	14.4 W/m
Maximum length	4,5 m
LEDs/m	48 LEDs/m
Voltage	24VDC (22,5-25VDC)
Tape width	10 mm
Cutting step	125 mm
Tc temperature	<75°C
Operating temperature	-35°C – 50°C
Beam angle	120°
Dimmable	Yes
Strip length per reel	10 m or 50 m



Order codeOrder code example: **RGB-48-14/N3**

Product: **RGB-48** - Power: **14** / Type: **N3**

Power options:
Currently we offer
only 14.4 W/m for
48 RGB LEDs/m LED strips.

Lumen values**RGB**

Total RGB luminous flux - 607 lm/m

COLOR	POWER W/m							
	4 <small>(4.8 W/m)</small>	9 <small>(9.6 W/m)</small>	14 <small>(14.4 W/m)</small>	19 <small>(19.2 W/m)</small>	24 <small>(24.0 W/m)</small>	28 <small>(28.8 W/m)</small>	33 <small>(33.8 W/m)</small>	48 <small>(48.0 W/m)</small>
Red	-	-	120 lm/m	-	-	-	-	-
Green	-	-	393 lm/m	-	-	-	-	-
Blue	-	-	94 lm/m	-	-	-	-	-
	-	-	-	-	-	-	-	-



RGB-96/N Color mixing. NICHIA 96 LEDs/m

INDOOOR FLEXIBLE LED STRIPS

NICHIA Highest quality LED	Stabilized current	3 STEP MacAdam	Made in Europe	5-year warranty	UL approved	LM80 Certified product	>60 000 hours L90B10
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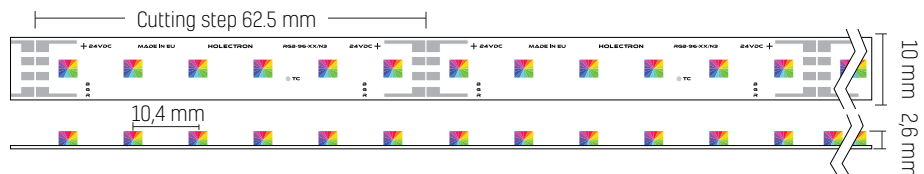
General information

To produce our indoor flexible LED strips, we use NICHIA LEDs from Japan, durable copper PCB and a current stabilization system inside the LED strip. Thermal conductive adhesive tape guarantees perfect heat transfer to the mounting surface. All of our product features guarantee extra long lifetime and stable performance.

Our flexible LED light strips are designed for long-term professional lighting applications and perfectly fit in any linear or curved applications where strong colorful effect is your goal.

Disclaimer: the product details seen in photo may appear slightly different in real product.

Lumen package	RGB 1214 lm/m
Power	28.8 W/m
Maximum length	3 m [10 ft]
LEDs/m	96 LEDs/m
Voltage	24VDC (22,5-25VDC)
Tape width	10 mm
Cutting step	62.5 mm [2.46 in]
Tc temperature	<75°C
Operating temperature	-35°C – 50°C
Beam angle	120°
Dimmable	Yes
Strip length per reel	10 m or 50 m



Order codeOrder code example: **RGB-96-28/N3**

Product:

RGB-96

Power:

28

Type:

N3

Power options:
Currently we offer
only 28.8 W/m for
96 RGB LEDs/m LED strips.

Lumen values**RGB**

Total RGB luminous flux - 1214 lm/m

COLOR	POWER W/m							
	4 <small>(4.8 W/m)</small>	9 <small>(9.6 W/m)</small>	14 <small>(14.4 W/m)</small>	19 <small>(19.2 W/m)</small>	24 <small>(24.0 W/m)</small>	28 <small>(28.8 W/m)</small>	33 <small>(33.8 W/m)</small>	48 <small>(48.0 W/m)</small>
Red	-	-	-	-	-	240 lm/m	-	-
Green	-	-	-	-	-	786 lm/m	-	-
Blue	-	-	-	-	-	188 lm/m	-	-



RGB+White, Indoor.



RGBW-48/N Color mixing+white. 48+48 LEDs/m

INDOOR FLEXIBLE LED STRIPS

NICHIA Highest quality LED	Stabilized current	3 STEP MacAdam	Made in Europe	5-year warranty	UL approved	LM80 Certified product	>60 000 hours L90B10
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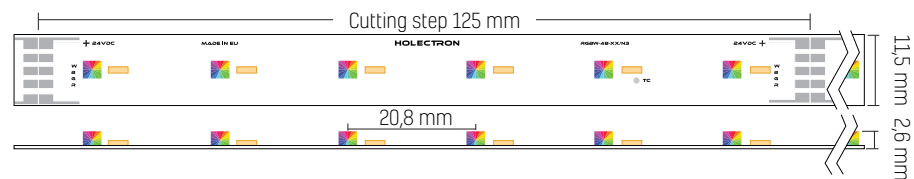
General information

To produce our indoor flexible LED strips, we use NICHIA LEDs from Japan, durable copper PCB and a current stabilization system inside the LED strip. Thermal conductive adhesive tape guarantees perfect heat transfer to the mounting surface. All of our product features guarantee extra long lifetime and stable performance.

Our flexible LED light strips are designed for long-term professional lighting applications and perfectly fit in any linear or curved applications where you need bright and smooth color effect.

Disclaimer: the product details seen in photo may appear slightly different in real product.

Lumen package	RGB+W 600+600 lm/m	RGB+W 600+1100 lm/m
Power	19,2 W/m	24 W/m
Maximum length	4 m	3,5 m
LEDs/m	48 RGB + 48 White LEDs/m	
Voltage	24VDC (22,5-25VDC)	
Tape width	11,5 mm	
Cutting step	125 mm	
Tc temperature	<75°C	
Operating temperature	-35°C – 50°C	
Beam angle	120°	
Dimmable	Yes	
Strip length per reel	10 m or 50 m	



Order code

Order code example: **RGBW-48-24/N3-830**

Product: **RGBW-48** - Power: **POWER** / Type: **N3** - Spectrum: **SPECTRUM**

Power options:
See table below
(Lumen values).

Spectrum options:
See table below
(Lumen values).

Lumen values

CRI 80+

RED - 120 lm/m
GREEN - 393 lm/m
BLUE - 94 lm/m
Total RGB - 607 lm/m

		POWER W/m								
SPECTRUM	CRI	KELVINS	4 [4.8 W/m]	9 [9.6 W/m]	14 [14.4 W/m]	19 [19.2 W/m]	24 [24.0 W/m]	28 [28.8 W/m]	33 [33.8 W/m]	48 [48.0 W/m]
822	CRI 80+	2200K	-	-	-	426 lm/m	796 lm/m	-	-	-
825	CRI 80+	2500K	-	-	-	474 lm/m	881 lm/m	-	-	-
827	CRI 80+	2700K	-	-	-	543 lm/m	1021 lm/m	-	-	-
830	CRI 80+	3000K	-	-	-	543 lm/m	1021 lm/m	-	-	-
835	CRI 80+	3500K	-	-	-	543 lm/m	1021 lm/m	-	-	-
840	CRI 80+	4000K	-	-	-	589 lm/m	1108 lm/m	-	-	-
850	CRI 80+	5000K	-	-	-	589 lm/m	1108 lm/m	-	-	-
865	CRI 80+	6500K	-	-	-	589 lm/m	1108 lm/m	-	-	-

CRI 90+

RED - 120 lm/m
GREEN - 393 lm/m
BLUE - 94 lm/m
Total RGB - 607 lm/m

		POWER W/m								
SPECTRUM	CRI	KELVINS	4 [4.8 W/m]	9 [9.6 W/m]	14 [14.4 W/m]	19 [19.2 W/m]	24 [24.0 W/m]	28 [28.8 W/m]	33 [33.8 W/m]	48 [48.0 W/m]
927	CRI 90+	2700K	-	-	-	359 lm/m	673 lm/m	-	-	-
930	CRI 90+	3000K	-	-	-	383 lm/m	719 lm/m	-	-	-
935	CRI 90+	3500K	-	-	-	390 lm/m	726 lm/m	-	-	-
940	CRI 90+	4000K	-	-	-	399 lm/m	740 lm/m	-	-	-
950	CRI 90+	5000K	-	-	-	420 lm/m	790 lm/m	-	-	-
957	CRI 90+	5700K	-	-	-	446 lm/m	835 lm/m	-	-	-
965	CRI 90+	6500K	-	-	-	422 lm/m	789 lm/m	-	-	-



RGBW NICHIA 96 LEDs/m
INDOOR FLEXIBLE LED STRIPS





Modular LED lights

INDOOR LINEAR LIGHTING

HOLECTRON
LED TECH

White



56 LEDs/m
NICHIA LED

56 LEDs/m
OSRAM LED

112 LEDs/m
NICHIA LED

112 LEDs/m
OSRAM LED

140 LEDs/m
OSRAM LED

224 LEDs/m
OSRAM LED

Ula S Clear



Ula M Opal



Ula L Opal



Tunable White



56+56 LEDs/m
NICHIA LED

70+70 LEDs/m
OSRAM LED

RGB



48 LEDs/m
NICHIA LED

96 LEDs/m
NICHIA LED

RGB+White



48+48 LEDs/m
NICHIA LED



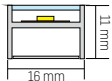
Ula S Clear

INDOOR MODULAR LED LIGHT SYSTEMS

 Stabilized current	 3 STEP MacAdam	 Made in Europe	 5-year warranty	 UL approved	 LM80 Certified product	>60 000 hours icon" data-bbox="705 378 755 405"/> >60 000 hours L90B10
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General information

Our modular LED lighting systems can be made with any of our LED strips up to a power of 24 W/m. Modules can be easily connected to each other seamlessly without any spaces in-between. Easy to install. Product seamlessly integrates with the mountable surface.



General technical details

Housing color	Grey / black / white / custom RAL
Cover	Clear / Opal (on request only)
Light source	Any LED strip up to 24 W/m
Cutting step	See chosen LED strip cutting step
Max connection run	See chosen LED strip maximum connection run
Beam angle	120°
Connection	Input: plug; Output: socket
Light output ratio (LOR)	85%
Dimmable	YES
Operating temperature	-35°C – 50°C
Storage temperature	-40°C – 80°C
Voltage	24VDC (22,5-25VDC)

Order code

Product:	Light:	Wattage:	LED:	Spectrum:	Color:	Length:																	
Ula S	LIGHT TYPE	- POWER /	N3	- SPECTRUM	COLOR	LENGTH																	
	Options: ▶ See tables on the next page. ■ FL-56 (White NICHIA) ■ TW-56 (Tunable w NICHIA) ■ RGB-48 (RGB NICHIA) ■ RGBW-48 (RGB+W NICHIA) Available to create custom product with any LED strip we offer (page 53).	Options: ▶ See tables on the next page.	Options: ▶ See tables on the next page.	Options: AG - grey PB - black PW - white	Options: <table border="1"> <thead> <tr> <th>Code</th> <th>Length</th> </tr> </thead> <tbody> <tr><td>L125</td><td>125 mm</td></tr> <tr><td>L250</td><td>250 mm</td></tr> <tr><td>L500</td><td>500 mm</td></tr> <tr><td>L1000</td><td>1000 mm</td></tr> <tr><td>L1500</td><td>1500 mm</td></tr> <tr><td>L2000</td><td>2000 mm</td></tr> <tr><td>L3000</td><td>3000 mm</td></tr> <tr><td>Lxxx</td><td>Custom</td></tr> </tbody> </table> Custom=n*125 mm n = segments quantity	Code	Length	L125	125 mm	L250	250 mm	L500	500 mm	L1000	1000 mm	L1500	1500 mm	L2000	2000 mm	L3000	3000 mm	Lxxx	Custom
Code	Length																						
L125	125 mm																						
L250	250 mm																						
L500	500 mm																						
L1000	1000 mm																						
L1500	1500 mm																						
L2000	2000 mm																						
L3000	3000 mm																						
Lxxx	Custom																						

Order code example: **Ula S FL-56-24/N3-830 AG L1750**

White

FL-56



Max connection run:
4.8 W/m - 10 m
9.6 W/m - 5 m
14.4 W/m - 4 m
19.2 W/m - 3 m
24.0 W/m - 3 m

POWER

	CRI	KELVINS	POWER							
			4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)
820	CRI 80+	2000K	451 lm/m	853 lm/m	1219 lm/m	1599 lm/m	1952 lm/m	-	-	-
822	CRI 80+	2200K	487	921	1318	1728	2110	-	-	-
825	CRI 80+	2500K	541	1023	1462	1918	2343	-	-	-
827	CRI 80+	2700K	635	1201	1716	2252	2750	-	-	-
830	CRI 80+	3000K	654	1238	1768	2321	2832	-	-	-
835	CRI 80+	3500K	658	1244	1779	2334	2849	-	-	-
840	CRI 80+	4000K	658	1244	1779	2334	2849	-	-	-
850	CRI 80+	5000K	709	1337	1907	2497	3045	-	-	-
857	CRI 80+	5700K	677	1275	1819	2382	2904	-	-	-
865	CRI 80+	6500K	677	1275	1819	2382	2904	-	-	-
			148 lm/W	139 lm/W	132 lm/W	130 lm/W	127 lm/W	-	-	-
920	CRI 90+	2000K	383 lm/m	716 lm/m	1012 lm/m	1318 lm/m	1599 lm/m	-	-	-
922	CRI 90+	2200K	415	774	1096	1425	1730	-	-	-
925	CRI 90+	2500K	451	840	1188	1546	1877	-	-	-
927	CRI 90+	2700K	534	1005	1429	1867	2274	-	-	-
930	CRI 90+	3000K	547	1029	1465	1915	2332	-	-	-
935	CRI 90+	3500K	561	1055	1501	1963	2389	-	-	-
940	CRI 90+	4000K	567	1066	1517	1983	2414	-	-	-
950	CRI 90+	5000K	598	1127	1607	2103	2563	-	-	-
957	CRI 90+	5700K	593	1119	1596	2089	2546	-	-	-
965	CRI 90+	6500K	590	1113	1586	2076	2530	-	-	-
			125 lm/W	117 lm/W	112 lm/W	110 lm/W	107 lm/W	-	-	-

SPECTRUM

Tunable W

TW-56



Max connection run:
9.6 W/m - 8 m
19.2 W/m - 5 m

POWER

	CRI	KELVINS	POWER						
			9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)
820/865	CRI 80+	2000-6500K	1127 lm/m	-	2128 lm/m	-	-	-	-
825/857	CRI 80+	2500-5700K	1217	-	2298	-	-	-	-
827/857	CRI 80+	2700-5700K	1312	-	2476	-	-	-	-
827/850	CRI 80+	2700-5000K	1344	-	2538	-	-	-	-
			140 lm/W	-	132 lm/W	-	-	-	-
920/965	CRI 90+	2000-6500K	973 lm/m	-	1828 lm/m	-	-	-	-
925/957	CRI 90+	2500-5700K	1044	-	1959	-	-	-	-
927/950	CRI 90+	2700-5000K	1131	-	2132	-	-	-	-
			118 lm/W	-	111 lm/W	-	-	-	-

SPECTRUM

RGB

RGB-48



Max connection run:
14.4 W/m - 4,5 m
28,0 W/m - 3 m

POWER

	RGB	KELVINS	4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)
-	Red	-	-	-	102 lm/m	-	-	204 lm/m	-	-
-	Green	-	-	-	334 lm/m	-	-	668 lm/m	-	-
-	Blue	-	-	-	80 lm/m	-	-	160 lm/m	-	-
					Total 516	Total 1032				

Max connection run:
14.4 W/m - 4,5 m
28,0 W/m - 3 m

RGB+W

RGBW-48



Max connection run:
19.2 W/m - 4 m
24.0 W/m - 3,5 m

19.2 W/m: Total RGB - 516 lm/m
R - 102; G - 334; B - 80

24.0 W/m: Total RGB - 516 lm/m
R - 102; G - 334; B - 80

POWER

	CRI	KELVINS	POWER							
			4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)
822	CRI 80+	2200K	-	-	-	362 lm/m	677 lm/m	-	-	-
825	CRI 80+	2500K	-	-	-	403	749	-	-	-
827	CRI 80+	2700K	-	-	-	462	868	-	-	-
830	CRI 80+	3000K	-	-	-	462	868	-	-	-
835	CRI 80+	3500K	-	-	-	462	868	-	-	-
840	CRI 80+	4000K	-	-	-	501	942	-	-	-
850	CRI 80+	5000K	-	-	-	501	942	-	-	-
865	CRI 80+	6500K	-	-	-	501	942	-	-	-
922	CRI 90+	2200K	-	-	-	305 lm/m	572 lm/m	-	-	-
927	CRI 90+	2700K	-	-	-	326	611	-	-	-
930	CRI 90+	3000K	-	-	-	332	617	-	-	-
935	CRI 90+	3500K	-	-	-	339	629	-	-	-
940	CRI 90+	4000K	-	-	-	357	672	-	-	-
950	CRI 90+	5000K	-	-	-	379	710	-	-	-
965	CRI 90+	6500K	-	-	-	359	671	-	-	-

SPECTRUM

Accessories for Ula S Clear

End cap



Order code	Color
AH101.EC.PG	Grey painted
AH101.EC.PB	Black painted
AH101.EC.PW	White painted

Mounting bracket



Order code	Type
AH101.FIX	Mounting bracket

Magnet mounting bracket



Order code	Type
AH101.FIX.MAG	Magnet mounting bracket

Adjustable angle mounting bracket



Order code	Type
AH101.FIX.ADJ	Adjustable angle mounting bracket

Socket connectors



Order code	Type: socket
CON-PH-TP-2F Lxxx	2-pin socket
CON-PH-TP-3F Lxxx	3-pin socket
CON-PH-TP-4F Lxxx	4-pin socket
CON-PH-TP-5F Lxxx	5-pin socket

Plug connectors



Order code	Type: plug
CON-PH-TP-2M Lxxx	2-pin plug
CON-PH-TP-3M Lxxx	3-pin plug
CON-PH-TP-4M Lxxx	4-pin plug
CON-PH-TP-5M Lxxx	5-pin plug

Socket/plug wire extensions



Order code	Type: extension
CON-PH-TP-2M/2F Lxxx	2-pin extension
CON-PH-TP-3M/3F Lxxx	3-pin extension
CON-PH-TP-4M/4F Lxxx	4-pin extension
CON-PH-TP-5M/5F Lxxx	5-pin extension

Wire length



Value	Length
L150	150 mm
L500	500 mm
L1000	1000 mm
L2000	2000 mm



Ula S Clear

INDOOR MODULAR LED LIGHT SYSTEMS



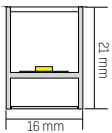
Ula M Opal

INDOOR MODULAR LED LIGHT SYSTEMS

 Stabilized current	 3 STEP MacAdam	 Made in Europe	 5-year warranty	 UL approved	 LM80 Certified product	 >60 000 hours L90B10
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General information

Our modular LED lighting systems can be made with any of our LED strips up to a power of 24 W/m. Modules can be easily connected to each other seamlessly without any spaces in-between. Easy to install. Product seamlessly integrates with the mountable surface.



General technical details

Housing color	Grey / black / white / custom RAL
Cover	Opal / Clear (on request only)
Light source	Any LED strip up to 24 W/m
Cutting step	See chosen LED strip cutting step
Max connection run	See chosen LED strip maximum connection run
Beam angle	120°
Connection	Input: plug; Output: socket
Light output ratio (LOR)	60%
Dimmable	YES
Operating temperature	-35°C – 50°C
Storage temperature	-40°C – 80°C
Voltage	24VDC (22,5-25VDC)

Order code

Product:

Ula M

Light:

LIGHT TYPE

Options:

► See tables on the next page.

- **FL-112** (White NICHIA)
- **RGB-96** (RGB NICHIA)

Available to create custom product with any LED strip we offer (page 53).

Wattage:

POWER / N3

Options:

► See tables on the next page.

LED:

SPECTRUM

Options:

► See tables on the next page.

Spectrum:

Color:

COLOR

Options:

AG - grey
PB - black
PW - white

Length:

LENGTH

Options:

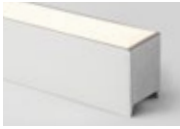
Code	Length
L125	125 mm
L250	250 mm
L500	500 mm
L1000	1000 mm
L1500	1500 mm
L2000	2000 mm
L3000	3000 mm
Lxxx	Custom

Custom=n*125 mm
n = segments quantity

Order code example: **Ula M FL-56-24/N3-830 AG L1750**

White

FL-112



Max connection run:
 4.8 W/m - 14 m
 9.6 W/m - 7 m
 14.4 W/m - 4,5 m
 19.2 W/m - 3,5 m
 24.0 W/m - 3 m

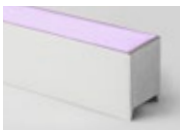
SPECTRUM

POWER

	CRI	KELVINS	4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)
820	CRI 80+	2000K	332 lm/m	629 lm/m	903 lm/m	1189 lm/m	1507 lm/m	-	-	-
822	CRI 80+	2200K	358	680	976	1285	1628	-	-	-
825	CRI 80+	2500K	398	755	1084	1427	1808	-	-	-
827	CRI 80+	2700K	467	886	1272	1675	2122	-	-	-
830	CRI 80+	3000K	481	913	1311	1725	2186	-	-	-
835	CRI 80+	3500K	484	918	1318	1735	2199	-	-	-
840	CRI 80+	4000K	484	918	1318	1735	2199	-	-	-
850	CRI 80+	5000K	522	988	1417	1861	2353	-	-	-
857	CRI 80+	5700K	498	943	1351	1775	2244	-	-	-
865	CRI 80+	6500K	498	943	1351	1775	2244	-	-	-
			109 lm/W	103 lm/W	98 lm/W	97 lm/W	98 lm/W	-	-	-
920	CRI 90+	2000K	286 lm/m	536 lm/m	763 lm/m	998 lm/m	1256 lm/m	-	-	-
922	CRI 90+	2200K	309	580	826	1079	1359	-	-	-
925	CRI 90+	2500K	335	629	896	1171	1474	-	-	-
927	CRI 90+	2700K	395	745	1067	1400	1766	-	-	-
930	CRI 90+	3000K	405	764	1094	1436	1814	-	-	-
935	CRI 90+	3500K	415	784	1121	1471	1859	-	-	-
940	CRI 90+	4000K	419	791	1133	1487	1878	-	-	-
950	CRI 90+	5000K	440	833	1194	1568	1982	-	-	-
957	CRI 90+	5700K	437	827	1186	1830	1970	-	-	-
965	CRI 90+	6500K	434	822	1178	1548	1957	-	-	-
			92 lm/W	87 lm/W	83 lm/W	95 lm/W	83 lm/W	-	-	-

RGB

RGB-96



Max connection run:
 28,8 W/m - 3 m

POWER

RGB	4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)
Red	-	-	-	-	-	144 lm/m	-	-
Green	-	-	-	-	-	472 lm/m	-	-
Blue	-	-	-	-	-	113 lm/m	-	-
						Total 728		

Accessories for Ula M Opal

End cap



Order code	Color
AH102.EC PG	Grey painted
AH102.EC PB	Black painted
AH102.EC PW	White painted

Mounting bracket



Order code	Type
AH101.FIX	Mounting bracket

Magnet mounting bracket



Order code	Type
AH101.FIX MAG	Magnet mounting bracket

Adjustable angle mounting bracket



Order code	Type
AH101.FIX ADJ	Adjustable angle mounting bracket

Socket connectors



Order code	Type: socket
CON-PH-TP-2F Lxxx	2-pin socket
CON-PH-TP-3F Lxxx	3-pin socket
CON-PH-TP-4F Lxxx	4-pin socket
CON-PH-TP-5F Lxxx	5-pin socket

Plug connectors



Order code	Type: plug
CON-PH-TP-2M Lxxx	2-pin plug
CON-PH-TP-3M Lxxx	3-pin plug
CON-PH-TP-4M Lxxx	4-pin plug
CON-PH-TP-5M Lxxx	5-pin plug

Socket/plug wire extensions



Order code	Type: extension
CON-PH-TP-2M/2F Lxxx	2-pin extension
CON-PH-TP-3M/3F Lxxx	3-pin extension
CON-PH-TP-4M/4F Lxxx	4-pin extension
CON-PH-TP-5M/5F Lxxx	5-pin extension

Wire length



Value	Length
L150	150 mm
L500	500 mm
L1000	1000 mm
L2000	2000 mm



Ula M Opal

INDOOR MODULAR LED LIGHT SYSTEMS



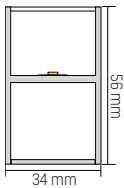
Ula L Opal

INDOOR MODULAR LED LIGHT SYSTEMS

 Stabilized current	 3 STEP MacAdam	 Made in Europe	 5-year warranty	 UL approved	 LM80 Certified product	>60 000 hours icon" data-bbox="705 378 755 405"/> >60 000 hours L90B10
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General information

Our modular LED lighting systems can be made with any of our LED strips up to a power of 48 W/m. Modules can be easily connected to each other seamlessly without any spaces in-between. Easy to install. Product seamlessly integrates with the mountable surface.



General technical details

Housing color	Grey / black / white / custom RAL
Cover	Opal / Clear (on request only)
Light source	Any LED strip up to 48 W/m
Cutting step	See chosen LED strip cutting step
Max connection run	See chosen LED strip maximum connection run
Beam angle	120°
Connection	Input: plug; Output: socket
Light output ratio (LOR)	60%
Dimmable	YES
Operating temperature	-35°C – 50°C
Storage temperature	-40°C – 80°C
Voltage	24VDC (22,5-25VDC)

Order code

Product:	Light:	Wattage:	LED:	Spectrum:	Color:	Length:																	
Ula L	LIGHT TYPE	- POWER /	N3	- SPECTRUM	COLOR	LENGTH																	
	Options: ▶ See tables on the next page. ■ FL-56 (White NICHIA) ■ TW-56 (Tunable w NICHIA) ■ RGB-48 (RGB NICHIA) ■ RGBW-48 (RGB+W NICHIA) Available to create custom product with any LED strip we offer (page 53).	Options: ▶ See tables on the next page.	Options: ▶ See tables on the next page.	Options: AG - grey PB - black PW - white	Options: <table border="1"> <thead> <tr> <th>Code</th> <th>Length</th> </tr> </thead> <tbody> <tr><td>L125</td><td>125 mm</td></tr> <tr><td>L250</td><td>250 mm</td></tr> <tr><td>L500</td><td>500 mm</td></tr> <tr><td>L1000</td><td>1000 mm</td></tr> <tr><td>L1500</td><td>1500 mm</td></tr> <tr><td>L2000</td><td>2000 mm</td></tr> <tr><td>L3000</td><td>3000 mm</td></tr> <tr><td>Lxxx</td><td>Custom</td></tr> </tbody> </table> Custom=n*125 mm n = segments quantity	Code	Length	L125	125 mm	L250	250 mm	L500	500 mm	L1000	1000 mm	L1500	1500 mm	L2000	2000 mm	L3000	3000 mm	Lxxx	Custom
Code	Length																						
L125	125 mm																						
L250	250 mm																						
L500	500 mm																						
L1000	1000 mm																						
L1500	1500 mm																						
L2000	2000 mm																						
L3000	3000 mm																						
Lxxx	Custom																						

Order code example: **Ula L FL-56-24/N3-830 AG L1750**

White

FL-56



Max connection run:
 4.8 W/m - 10 m
 9.6 W/m - 5 m
 14.4 W/m - 4 m
 19.2 W/m - 3 m
 24.0 W/m - 3 m
 33.8 W/m - 2 m
 48.0 W/m - 1,5 m

SPECTRUM

		POWER							
CRI	KELVINS	4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)
820	CRI 80+ 2000K	318 lm/m	602 lm/m	860 lm/m	1129 lm/m	1378 lm/m	-	1972 lm/m	2737 lm/m
822	CRI 80+ 2200K	344	650	930	1220	1489	-	2132	2959
825	CRI 80+ 2500K	382	722	1032	1354	1654	-	2366	3285
827	CRI 80+ 2700K	448	848	1211	1589	1941	-	2778	3856
830	CRI 80+ 3000K	461	874	1248	1638	1999	-	2861	3972
835	CRI 80+ 3500K	464	878	1256	1648	2011	-	2878	3995
840	CRI 80+ 4000K	464	878	1256	1648	2011	-	2878	3995
850	CRI 80+ 5000K	500	944	1346	1763	2149	-	3077	4264
857	CRI 80+ 5700K	478	900	1284	1681	2050	-	2935	4067
865	CRI 80+ 6500K	478	900	1284	1681	2050	-	2935	4067
		104 lm/W	98 lm/W	93 lm/W	92 lm/W	90 lm/W	-	92 lm/W	89 lm/W
920	CRI 90+ 2000K	271 lm/m	505 lm/m	715 lm/m	930 lm/m	1129 lm/m	-	1631 lm/m	2243 lm/m
922	CRI 90+ 2200K	293	547	773	1006	1221	-	1765	2426
925	CRI 90+ 2500K	318	593	839	1091	1325	-	1915	2632
927	CRI 90+ 2700K	377	709	1009	1318	1605	-	2308	3189
930	CRI 90+ 3000K	386	727	1034	1352	1646	-	2366	3270
935	CRI 90+ 3500K	396	745	1060	1385	1687	-	2425	3350
940	CRI 90+ 4000K	400	752	1071	1400	1704	-	2450	3385
950	CRI 90+ 5000K	422	796	1134	1484	1809	-	2593	3589
957	CRI 90+ 5700K	419	790	1127	1475	1797	-	2576	3565
965	CRI 90+ 6500K	416	785	1120	1465	1786	-	2559	3542
		88 lm/W	83 lm/W	79 lm/W	77 lm/W	75 lm/W	-	78 lm/W	75 lm/W

Tunable W

TW-56



Max connection run:
 9.6 W/m - 8 m
 19.2 W/m - 5 m
 33.8 W/m - 2,5 m
 48.0 W/m - 2 m

SPECTRUM

		POWER						
CRI	KELVINS	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)
820/865	CRI 80+ 2000-6500K	796 lm/m	-	1502 lm/m	-	-	2485 lm/m	3402 lm/m
825/857	CRI 80+ 2500-5700K	859	-	1622	-	-	2684	3676
827/857	CRI 80+ 2700-5700K	926	-	1748	-	-	2892	3961
827/850	CRI 80+ 2700-5000K	949	-	1792	-	-	2964	4060
		99 lm/W	-	93 lm/W	-	-	89 lm/W	85 lm/W
920/965	CRI 90+ 2000-6500K	687 lm/m	-	1291 lm/m	-	-	2117	2893 lm/m
925/957	CRI 90+ 2500-5700K	737	-	1383	-	-	2268	3098
927/950	CRI 90+ 2700-5000K	799	-	1505	-	-	2481	3388
		83 lm/W	-	78 lm/W	-	-	74 lm/W	71 lm/W

RGB

RGB-48



Max connection run:
 14,4 W/m - 4,5 m
 28,8 W/m - 3 m

SPECTRUM

		POWER							
RGB	KELVINS	4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)
-	Red	-	-	72 lm/m	-	-	144 lm/m	-	-
-	Green	-	-	236 lm/m	-	-	472 lm/m	-	-
-	Blue	-	-	56 lm/m	-	-	113 lm/m	-	-
					Total 364				Total 728

RGB+W

RGBW-48



Max connection run:
 19,2 W/m - 4 m
 24 W/m - 3,5 m

Total RGB - 364 lm/m
 R - 72; G - 236; B - 56.

SPECTRUM

		POWER							
CRI	KELVINS	4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)
822	CRI 80+ 2200K	-	-	-	256 lm/m	478 lm/m	-	-	-
825	CRI 80+ 2500K	-	-	-	284	529	-	-	-
827	CRI 80+ 2700K	-	-	-	326	613	-	-	-
830	CRI 80+ 3000K	-	-	-	326	613	-	-	-
835	CRI 80+ 3500K	-	-	-	326	613	-	-	-
840	CRI 80+ 4000K	-	-	-	353	665	-	-	-
850	CRI 80+ 5000K	-	-	-	353	665	-	-	-
865	CRI 80+ 6500K	-	-	-	353	665	-	-	-
922	CRI 90+ 2200K	-	-	-	215 lm/m	404 lm/m	-	-	-
927	CRI 90+ 2700K	-	-	-	230	431	-	-	-
930	CRI 90+ 3000K	-	-	-	234	436	-	-	-
935	CRI 90+ 3500K	-	-	-	239	444	-	-	-
940	CRI 90+ 4000K	-	-	-	252	474	-	-	-
950	CRI 90+ 5000K	-	-	-	268	501	-	-	-
965	CRI 90+ 6500K	-	-	-	253	473	-	-	-

Accessories for Ula L Opal

End cap



Order code	Color
AH111.EC PG	Grey painted
AH111.EC PB	Black painted
AH111.EC PW	White painted

Mounting bracket



Order code	Type
AH111.FIX	Mounting bracket

Socket connectors



F

L

Order code	Type: socket
CON-PH-TP-2F Lxxx	2-pin socket
CON-PH-TP-3F Lxxx	3-pin socket
CON-PH-TP-4F Lxxx	4-pin socket
CON-PH-TP-5F Lxxx	5-pin socket

Plug connectors



M

L

Order code	Type: plug
CON-PH-TP-2M Lxxx	2-pin plug
CON-PH-TP-3M Lxxx	3-pin plug
CON-PH-TP-4M Lxxx	4-pin plug
CON-PH-TP-5M Lxxx	5-pin plug

Socket/plug wire extensions



M

L

F

Order code	Type: extension
CON-PH-TP-2M/2F Lxxx	2-pin extension
CON-PH-TP-3M/3F Lxxx	3-pin extension
CON-PH-TP-4M/4F Lxxx	4-pin extension
CON-PH-TP-5M/5F Lxxx	5-pin extension

Wire length (L)

Lxxx values

Value	Length
L150	150 mm
L500	500 mm
L1000	1000 mm
L2000	2000 mm



Ula L Opal

INDOOR MODULAR LED LIGHT SYSTEMS

Make your own customised product



Make your own customised product

Order code

Order code example: **Ula S FL-56-24/N3-830 AG L1500**

Product:

Options:

Ula S (Clear)
Ula M (Opal)
Ula L (Opal)

Light source:

Options:

Insert LED strip code from
 chosen LED strip product page.

i.e. FL-56-23/N2-830

See table below for more info
 about LED strip options for this
 product.

Housing color:

Options:

AG - grey
 PB - black
 PW - white

Length:

Options:

Code	Length
L125	125 mm
L250	250 mm
L500	500 mm
L1000	1000 mm
L1500	1500 mm
L2000	2000 mm
L3000	3000 mm
Lxxxx	Custom

Custom=n*125 mm
 n = segments quantity

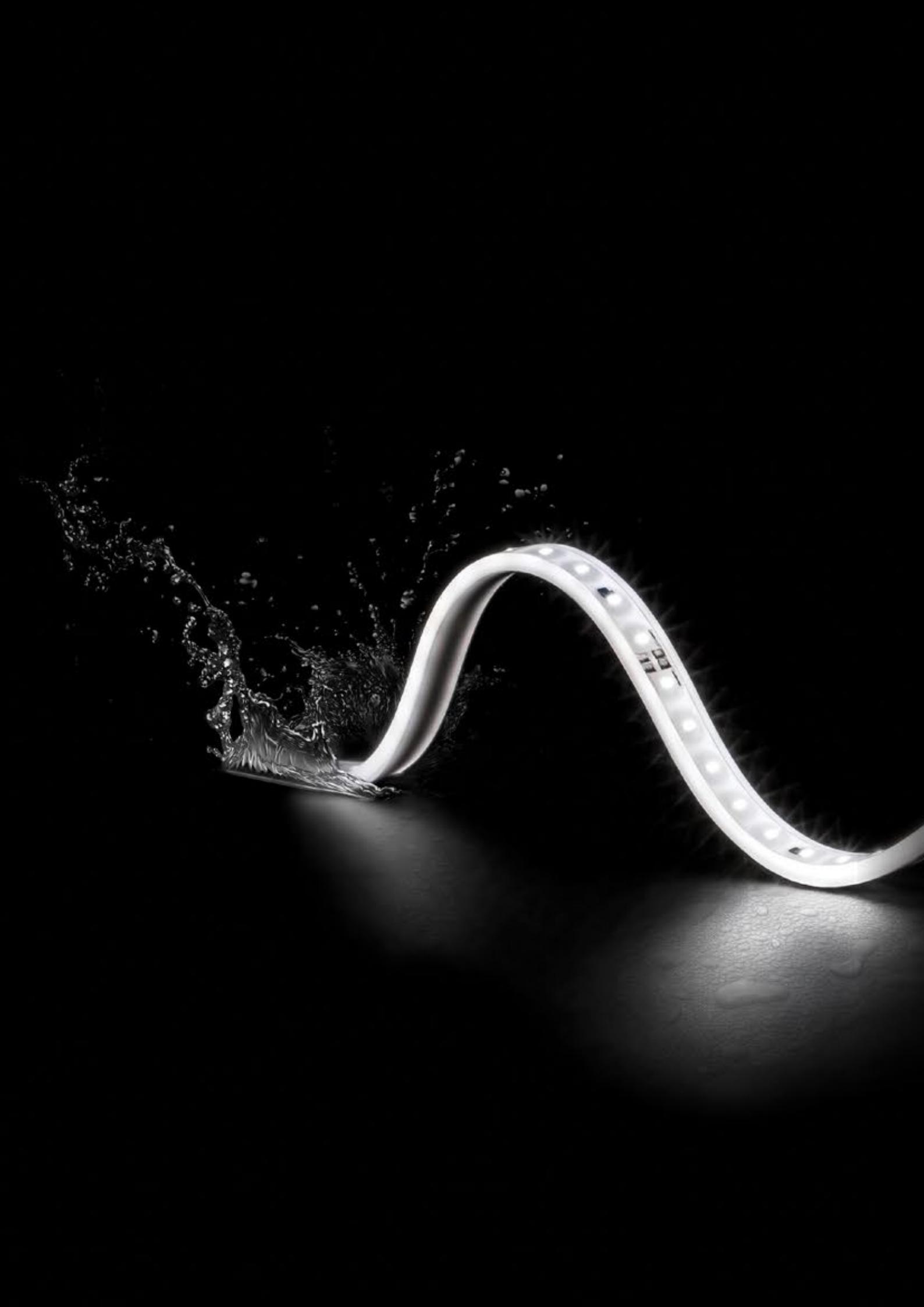
All available LED strip options for this product (NICHIA and OSRAM)

	■ White light					■ Tunable white		■ RGB		■ RGB+W	
	FL-56/N (page 12)	FL-56/O (page 14)	FL-112/N (page 16)	FL-112/O (page 18)	FL-140/O (page 20)	FL-224/O (page 22)	TW-56/N (page 26)	TW-70/O (page 28)	RGB-48/N (page 30)	RGB-96/N (page 32)	RGBW-48/N (page 34)
4,8 W/m	800 lm/m	700 lm/m	800 lm/m	750 lm/m	-	-	-	-	-	-	-
9,6 W/m	1500	1300	1600	1400	1400	1500	1500	1300	-	-	-
14,4 W/m	2200	1800	2300	1900	2000	2100	-	-	600	-	-
19,2 W/m	2900	2400	3100	2500	2600	2700	2900	2400	-	-	1200
24,0 W/m	3500	-	3900	3200	3200	-	-	-	-	-	1700
28,8 W/m*	-	-	-	-	-	-	-	-	-	1200	-
33,6 W/m*	-	-	5100	4200	3700	-	4900	3900	-	-	-
48,0 W/m*	-	-	7100	-	-	-	6700	5400	-	-	-

LOR 60 for opal cover products, lumen values are 40% lower than indoor LED strips lumen values.

LOR 85 for clear cover products, lumen values are 15% lower than indoor LED strips lumen values.

* - these LED strips are recommended to use with **ULA L** product only.



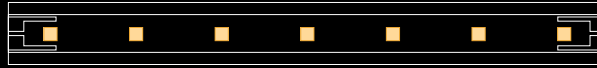
IP67 flexible LED strips

WATERPROOF OUTDOOR LINEAR LIGHTING

HOLECTRON
LED TECH

White light

56 LEDs/m
NICHIA LED



56 LEDs/m
OSRAM LED



112 LEDs/m
NICHIA LED



112 LEDs/m
OSRAM LED



140 LEDs/m
OSRAM LED



224 LEDs/m
OSRAM LED



Tunable white

56+56 LEDs/m
NICHIA LED



70+70 LEDs/m
OSRAM LED



RGB

48 LEDs/m
NICHIA LED



96 LEDs/m
NICHIA LED





Aqua IP67. NICHIA LED

OUTDOOR FLEXIBLE WATERPROOF LED STRIPS

IP67	NICHIA				5		LM80	>60 000 hours
For outdoor installation	Highest quality LED	Stabilized current	3 STEP MacAdam	Made in Europe	5-year warranty	UL approved	Certified product	L90B10

General information

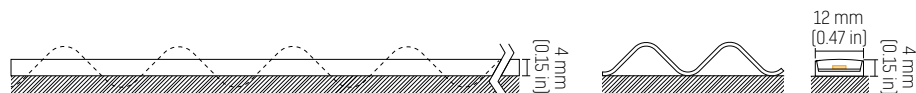
To produce outdoor flexible LED strips, we use 3-step MacAdam NICHIA LEDs from Japan, durable copper PCB and a current stabilization system inside the LED strip.

All of our product features guarantee extra long lifetime and stable performance.

Our flexible LED light strips are designed for long-term professional lighting applications and perfectly fit in any linear or curved applications.

General technical details

Beam angle	120°
Light output ratio (LOR)	85%
Dimmable	YES
Operating temperature	-35°C – 50°C
Storage temperature	-40°C – 80°C
Voltage	24VDC (22,5-25VDC)
Light source	See table to the right for LED light options
Max connection run	See chosen LED strip maximum connection run



Order code

Product:

Aqua-W

Light:

LIGHT TYPE

Options:

► See tables on the next page.

- **FL-56** (White NICHIA)
- **TW-56** (Tunable white NICHIA)
- **RGB-48** (RGB NICHIA)

Available to create custom product with any LED strip we offer (page 59).

Wattage:

POWER /

Options:

► See tables on the next page.

LED:

N3

Spectrum:

SPECTRUM

Options:

► See tables on the next page.

Length:

LENGTH

Options:

Code Lxxxx xxxx - length in mm

Order code example: **Aqua-W.FL-56-24/N3-830.AG.L1750**

White

FL-56



Max connection run:
4.8 W/m - 10 m
9.6 W/m - 5 m
14.4 W/m - 4 m

SPECTRUM

		POWER								
	CRI	KELVINS	4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)
820	CRI 80+	2500K	451 lm/m	853 lm/m	1219 lm/m	-	-	-	-	-
822	CRI 80+	2900K	487	921	1318	-	-	-	-	-
825	CRI 80+	3300K	541	1023	1462	-	-	-	-	-
827	CRI 80+	3900K	635	1201	1716	-	-	-	-	-
830	CRI 80+	4400K	654	1238	1768	-	-	-	-	-
835	CRI 80+	5200K	658	1244	1779	-	-	-	-	-
840	CRI 80+	6100K	658	1244	1779	-	-	-	-	-
			137 lm/W	130 lm/W	124 lm/W	-	-	-	-	-
920	CRI 90+	2400K	383 lm/m	716 lm/m	1012 lm/m	-	-	-	-	-
922	CRI 90+	2800K	415	774	1096	-	-	-	-	-
925	CRI 90+	3200K	451	840	1188	-	-	-	-	-
927	CRI 90+	3600K	534	1005	1429	-	-	-	-	-
930	CRI 90+	4200K	547	1029	1465	-	-	-	-	-
935	CRI 90+	4800K	561	1055	1501	-	-	-	-	-
940	CRI 90+	6300K	567	1066	1517	-	-	-	-	-
			118 lm/W	111 lm/W	105 lm/W	-	-	-	-	-

Tunable W

TW-56



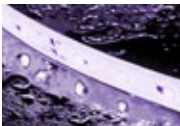
Max connection run:
9.6 W/m - 8 m

SPECTRUM

		POWER							
	CRI	KELVINS	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)
820/840	CRI 80+	2500-6100K	1109 lm/m	-	-	-	-	-	-
822/840	CRI 80+	2900-6100K	1145	-	-	-	-	-	-
820/835	CRI 80+	2500-5200K	1109	-	-	-	-	-	-
			119 lm/W	-	-	-	-	-	-
920/940	CRI 90+	2400-6300K	950 lm/m	-	-	-	-	-	-
920/935	CRI 90+	2400-4800K	944	-	-	-	-	-	-
			102 lm/W	-	-	-	-	-	-

RGB

RGB-48



Max connection run:
14.4 W/m - 4.5 m

POWER

RGB	4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)
Red	-	-	102 lm/m	-	-	-	-	-
Green	-	-	334	-	-	-	-	-
Blue	-	-	80	-	-	-	-	-
			Total 516					

Make your own customised product



Make your own customised product

Order code

Order code example: **Aqua FL-56-14/N3-830 L1500**

Product: <div style="border: 1px solid black; padding: 2px; text-align: center;">AQUA</div> <p>Options: Aqua (Waterproof IP67 flexible LED strip)</p>	Light source: <div style="border: 1px solid black; padding: 2px; text-align: center;">LED STRIP CODE</div> <p>Options: Insert LED strip code from chosen LED strip product page. i.e. FL-56-24/N2-830 See table below for more info about LED strip options for this product.</p>	Length: <div style="border: 1px solid black; padding: 2px; text-align: center;">LENGTH</div> <p>Options: Code Lxxxx xxxx - length in mm</p>
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All available LED strip options for this product (NICHIA and OSRAM)

	■ White light				■ Tunable white		■ RGB		■ RGB+W		
	FL-56/N <small>(page 12)</small>	FL-56/O <small>(page 14)</small>	FL-112/N <small>(page 16)</small>	FL-112/O <small>(page 18)</small>	FL-140/O <small>(page 20)</small>	FL-224/O <small>(page 22)</small>	TW-56/N <small>(page 26)</small>	TW-70/O <small>(page 28)</small>	RGB-48/N <small>(page 30)</small>	RGB-96/N <small>(page 32)</small>	RGBW-48/N <small>(page 34)</small>
4,8 W/m	800 lm/m	700 lm/m	800 lm/m	750 lm/m	-	-	-	-	-	-	-
9,6 W/m	1500	1300	1600	1400	1400	1500	1500	1300	-	-	-
14,4 W/m	2200	1800	2300	1900	2000	2100	-	-	600	-	-
19,2 W/m[±]	2900	2400	3100	2500	2600	2700	2900	2400	-	-	1200
24,0 W/m[±]	3500	-	3900	3200	3200	-	-	-	-	-	1700
28,8 W/m[±]	-	-	-	-	-	-	-	-	-	1200	-
33,6 W/m[±]	-	-	5100	4200	3700	-	4900	3900	-	-	-
48,0 W/m[±]	-	-	7100	-	-	-	6700	5400	-	-	-

LOR 60 for opal cover products, lumen values are 40% lower than indoor LED strips lumen values.
LOR 85 for clear cover products, lumen values are 15% lower than indoor LED strips lumen values.
X-W/m[±] - these LED strips are not recommended to use to avoid overheating.

Accessories

Socket connectors



M L

Order code	Type: socket
CON-HI-IP-2F Lxxx	2-pin socket
CON-HI-IP-3F Lxxx	3-pin socket
CON-HI-IP-4F Lxxx	4-pin socket
CON-HI-IP-5F Lxxx	5-pin socket

Plug connectors



F L

Order code	Type: plug
CON-HI-IP-2M Lxxx	2-pin plug
CON-HI-IP-3M Lxxx	3-pin plug
CON-HI-IP-4M Lxxx	4-pin plug
CON-HI-IP-5M Lxxx	5-pin plug

Socket/plug wire extensions



M L F

Order code	Type: extension
CON-HI-IP-2M/2F Lxxx	2-pin extension
CON-HI-IP-3M/3F Lxxx	3-pin extension
CON-HI-IP-4M/4F Lxxx	4-pin extension
CON-HI-IP-5M/5F Lxxx	5-pin extension

Wire length (L)



Value	Length
L150	150 mm
L500	500 mm
L1000	1000 mm
L2000	2000 mm



Aqua IP67

WATERPROOF FLEXIBLE LED STRIPS





IP67 modular LED lights

WATERPROOF OUTDOOR LINEAR LIGHTING

HOLECTRON
LED TECH

White



56 LEDs/m
NICHIA LED

56 LEDs/m
OSRAM LED

112 LEDs/m
NICHIA LED

112 LEDs/m
OSRAM LED

140 LEDs/m
OSRAM LED

224 LEDs/m
OSRAM LED

Ula S Clear IP67



Ula M Opal IP67



Ula L Opal IP67



Tunable White



56+56 LEDs/m
NICHIA LED

70+70 LEDs/m
OSRAM LED

RGB



48 LEDs/m
NICHIA LED

96 LEDs/m
NICHIA LED

RGB+White



48+48 LEDs/m
NICHIA LED

Ula S IP67 Clear

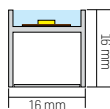
OUTDOOR MODULAR LED LIGHT SYSTEMS



IP67 For outdoor installation	 Stabilized current	 3 STEP MacAdam	 Made in Europe	 5-year warranty	 UL approved	LM80 Certified product	>60 000 hours L90B10
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General information

Our IP67 rated encapsulated modular LED lighting systems can be made with any of our LED strips up to a power of 24 W/m. Modules can be easily connected to each other seamlessly without any spaces inbetween. Easy to install. Product seamlessly integrate with the surface.



General technical details

Housing color	Grey painted / black painted / white painted / custom RAL
Cover	Clear / Opal (on request only)
Beam angle	120°
Connection	Input: plug; Output: socket
Light output ratio (LOR)	85%
Dimmable	YES
Operating temperature	-35°C – 50°C
Storage temperature	-40°C – 80°C
Voltage	24VDC [22,5-25VDC]
Light source	See table to the right for LED light options
Cutting step	Default 125 mm (different for other light sources on request)
Max connection run	See chosen LED strip maximum connection run

Order code

Product: **Ula S IP67** Light: **LIGHT TYPE** - Wattage: **POWER** / LED: **N3** - Spectrum: **SPECTRUM** Color: **COLOR** Length: **LENGTH**

Options:

► See tables on the next page.

- **FL-56** (White NICHIA)
- **TW-56** (Tunable w NICHIA)
- **RGB-48** (RGB NICHIA)
- **RGBW-48** (RGB+W NICHIA)

Available to create custom product with any LED strip we offer (page 77).

Options:

► See tables on the next page.

Options:

► See tables on the next page.

Options:

AG - grey
PB - black
PW - white

Options:

Code	Length
L125	125 mm
L250	250 mm
L500	500 mm
L1000	1000 mm
L1500	1500 mm
L2000	2000 mm
L3000	3000 mm
Lxxx	Custom

Custom=n*125 mm
n = segments quantity

Order code example: **Ula S IP67 FL-56-24/N3-830 AG L1750**

White

FL-56



Max connection run:
4.8 W/m - 10 m
9.6 W/m - 5 m
14.4 W/m - 4 m
19.2 W/m - 3 m
24.0 W/m - 3 m

POWER

	CRI	KELVINS	4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)
SPECTRUM	820	CRI 80+	2500K	451 lm/m	853 lm/m	1219 lm/m	1599 lm/m	1952 lm/m	-	-
	822	CRI 80+	2900K	487	921	1318	1728	2110	-	-
	825	CRI 80+	3300K	541	1023	1462	1918	2343	-	-
	827	CRI 80+	3900K	635	1201	1716	2252	2750	-	-
	830	CRI 80+	4400K	654	1238	1768	2321	2832	-	-
	835	CRI 80+	5200K	658	1244	1779	2334	2849	-	-
	840	CRI 80+	6100K	658	1244	1779	2334	2849	-	-
	850	CRI 80+	9900K	709	1337	1907	2497	3045	-	-
				148 lm/W	139 lm/W	132 lm/W	130 lm/W	127 lm/W	-	-
SPECTRUM	920	CRI 90+	2400K	383 lm/m	716 lm/m	1012 lm/m	1318 lm/m	1599 lm/m	-	-
	922	CRI 90+	2800K	415	774	1096	1425	1730	-	-
	925	CRI 90+	3200K	451	840	1188	1546	1877	-	-
	927	CRI 90+	3600K	534	1005	1429	1867	2274	-	-
	930	CRI 90+	4200K	547	1029	1465	1915	2332	-	-
	935	CRI 90+	4800K	561	1055	1501	1963	2389	-	-
	940	CRI 90+	6300K	567	1066	1517	1983	2414	-	-
	950	CRI 90+	10100K	598	1127	1607	2103	2563	-	-
				125 lm/W	117 lm/W	112 lm/W	110 lm/W	107 lm/W	-	-

Tunable W

TW-56



Max connection run:
9.6 W/m - 8 m
19.2 W/m - 5 m

POWER

	CRI	KELVINS	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)
SPECTRUM	820/840	CRI 80+	2500-6100K	1109 lm/m	-	2097 lm/m	-	-	-
	822/840	CRI 80+	2900-6100K	1145	-	2165	-	-	-
	820/835	CRI 80+	2500-5200K	1109	-	2097	-	-	-
	820/830	CRI 80+	2500-4400K	1105	-	2091	-	-	-
				119 lm/W	-	113 lm/W	-	-	-
SPECTRUM	920/940	CRI 90+	2400-6300K	950 lm/m	-	1782 lm/m	-	-	-
	920/935	CRI 90+	2400-4800K	944	-	1771	-	-	-
	922/935	CRI 90+	2800-4800K	976	-	1829	-	-	-
			102 lm/W	-	95 lm/W	-	-	-	

RGB

RGB-48



Max connection run:
14.4 W/m - 4.5 m

POWER

	RGB	KELVINS	4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)
-	Red	-	-	-	102 lm/m	-	-	204 lm/m	-	-
-	Green	-	-	-	334 lm/m	-	-	668 lm/m	-	-
-	Blue	-	-	-	80 lm/m	-	-	160 lm/m	-	-
					Total 516			Total 1032		

RGB+W

RGBW-48



Max connection run:
19.2 W/m - 4 m
24.0 W/m - 3.5 m

19.2 W/m: Total RGB - 516 lm/m
R - 102; G - 334; B - 80

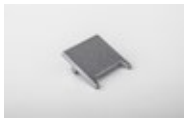
24.0 W/m: Total RGB - 516 lm/m
R - 102; G - 334; B - 80

POWER

	CRI	KELVINS	4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)
SPECTRUM	822	CRI 80+	2900K	-	-	362 lm/m	677 lm/m	-	-	-
	825	CRI 80+	3300K	-	-	403	749	-	-	-
	827	CRI 80+	3900K	-	-	462	868	-	-	-
	830	CRI 80+	4400K	-	-	462	868	-	-	-
	835	CRI 80+	5200K	-	-	462	868	-	-	-
	840	CRI 80+	6100K	-	-	501	942	-	-	-
	850	CRI 80+	9900K	-	-	501	942	-	-	-
SPECTRUM	922	CRI 90+	2800K	-	-	305 lm/m	572 lm/m	-	-	-
	927	CRI 90+	3600K	-	-	326	611	-	-	-
	930	CRI 90+	4200K	-	-	332	617	-	-	-
	935	CRI 90+	4800K	-	-	339	629	-	-	-
	940	CRI 90+	6300K	-	-	357	672	-	-	-
	950	CRI 90+	10100K	-	-	379	710	-	-	-

Accessories for Ula S IP67 Clear

End cap



Order code	Color
AH103.EC PG	Grey painted
AH103.EC PB	Black painted
AH103.EC PW	White painted

Mounting bracket



Order code	Type
AH.FIX101	Mounting bracket

Magnet mounting bracket



Order code	Type
AH101.FIX MAG	Magnet mounting bracket

Adjustable angle mounting bracket



Order code	Type
AH101.FIX ADJ	Adjustable angle mounting bracket

Socket connectors



M

L

Order code	Type: socket
CON-HI-IP-2F Lxxx	2-pin socket
CON-HI-IP-3F Lxxx	3-pin socket
CON-HI-IP-4F Lxxx	4-pin socket
CON-HI-IP-5F Lxxx	5-pin socket

Plug connectors



F

L

Order code	Type: plug
CON-HI-IP-2M Lxxx	2-pin plug
CON-HI-IP-3M Lxxx	3-pin plug
CON-HI-IP-4M Lxxx	4-pin plug
CON-HI-IP-5M Lxxx	5-pin plug

Socket/plug wire extensions



M

L

F

Order code	Type: extension
CON-HI-IP-2M/2F Lxxx	2-pin extension
CON-HI-IP-3M/3F Lxxx	3-pin extension
CON-HI-IP-4M/4F Lxxx	4-pin extension
CON-HI-IP-5M/5F Lxxx	5-pin extension

Wire length (L)



Lxxx values

Value	Length
L150	150 mm
L500	500 mm
L1000	1000 mm
L2000	2000 mm

Ula S IP67 Clear
OUTDOOR MODULAR LED LIGHT SYSTEMS





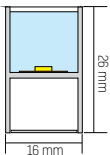
Ula M IP67 Opal

OUTDOOR MODULAR LED LIGHT SYSTEMS

IP67 For outdoor installation	 Stabilized current	 3 STEP MacAdam	 Made in Europe	 5-year warranty	 UL approved	LM80 Certified product	>60 000 hours L90B10
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General information

Our IP67 rated encapsulated modular LED lighting systems can be made with any of our LED strips up to a power of 24 W/m. Modules can be easily connected to each other seamlessly without any spaces inbetween. Easy to install. Product seamlessly integrate with the surface.



General technical details

Housing color	Grey painted / black painted / white painted / custom RAL
Cover	Opal / Clear (on request only)
Beam angle	120°
Connection	Input: plug; Output: socket
Light output ratio (LOR)	60%
Dimmable	YES
Operating temperature	-35°C – 50°C
Storage temperature	-40°C – 80°C
Voltage	24VDC [22,5-25VDC]
Light source	See table to the right for LED light options
Cutting step	Default 125 mm (different for other light sources on request)
Max connection run	See chosen LED strip maximum connection run

Order code

Product:

Ula M IP67

Light:

LIGHT TYPE

Options:

► See tables on the next page.

- **FL-112** (White NICHIA)
- **RGB-96** (RGB NICHIA)

Available to create custom product with any LED strip we offer ((page 77).

Wattage:

POWER

Options:

► See tables on the next page.

LED:

N3

Spectrum:

SPECTRUM

Options:

► See tables on the next page.

Color:

COLOR

Options:

AG - grey
PB - black
PW - white

Length:

LENGTH

Options:

Code	Length
L125	125 mm
L250	250 mm
L500	500 mm
L1000	1000 mm
L1500	1500 mm
L2000	2000 mm
L3000	3000 mm
Lxxx	Custom

Custom=n*125 mm
n = segments quantity

Order code example: **Ula M IP67 FL-56-24/N3-830 AG L1750**

White

FL-112



Max connection run:
 4.8 W/m - 14 m
 9.6 W/m - 7 m
 14.4 W/m - 4,5 m
 19.2 W/m - 3,5 m
 24.0 W/m - 3 m

POWER

	CRI	KELVINS	POWER								
			4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)	
SPECTRUM	820	CRI 80+	2400K	332 lm/m	629 lm/m	903 lm/m	1189 lm/m	1507 lm/m	-	-	-
	822	CRI 80+	2700K	358	680	976	1285	1628	-	-	-
	825	CRI 80+	3000K	398	755	1084	1427	1808	-	-	-
	827	CRI 80+	3600K	467	886	1272	1675	2122	-	-	-
	830	CRI 80+	4000K	481	913	1311	1725	2186	-	-	-
	835	CRI 80+	4700K	484	918	1318	1735	2199	-	-	-
	840	CRI 80+	5500K	484	918	1318	1735	2199	-	-	-
	850	CRI 80+	7400K	522	988	1417	1861	2353	-	-	-
				109 lm/W	103 lm/W	98 lm/W	97 lm/W	98 lm/W	-	-	-
	920	CRI 90+	2300K	286 lm/m	536 lm/m	763 lm/m	998 lm/m	1256 lm/m	-	-	-
922	CRI 90+	2600K	309	580	826	1079	1359	-	-	-	
925	CRI 90+	3000K	335	629	896	1171	1474	-	-	-	
927	CRI 90+	3400K	395	745	1067	1400	1766	-	-	-	
930	CRI 90+	3700K	405	764	1094	1436	1814	-	-	-	
935	CRI 90+	4400K	415	784	1121	1471	1859	-	-	-	
940	CRI 90+	5400K	419	791	1133	1487	1878	-	-	-	
950	CRI 90+	9500K	440	833	1194	1568	1982	-	-	-	
			92 lm/W	87 lm/W	83 lm/W	95 lm/W	83 lm/W	-	-	-	

RGB

RGB-96



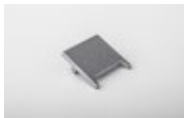
Max connection run:
 28,8 W/m - 3 m

POWER

RGB	4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)
Red	-	-	-	-	-	144 lm/m	-	-
Green	-	-	-	-	-	472 lm/m	-	-
Blue	-	-	-	-	-	113 lm/m	-	-
						Total 728		

Accessories for Ula M Opal IP67

End cap



Order code	Color
AH104.EC PG	Grey painted
AH104.EC PB	Black painted
AH104.EC PW	White painted

Mounting bracket



Order code	Type
AH101.FIX	Mounting bracket

Magnet mounting bracket



Order code	Type
AH101.FIX MAG	Magnet mounting bracket

Adjustable angle mounting bracket



Order code	Type
AH101.FIX ADJ	Adjustable angle mounting bracket

Socket connectors



M

L

Order code	Type: socket
CON-HI-IP-2F Lxxx	2-pin socket
CON-HI-IP-3F Lxxx	3-pin socket
CON-HI-IP-4F Lxxx	4-pin socket
CON-HI-IP-5F Lxxx	5-pin socket

Plug connectors



F

L

Order code	Type: plug
CON-HI-IP-2M Lxxx	2-pin plug
CON-HI-IP-3M Lxxx	3-pin plug
CON-HI-IP-4M Lxxx	4-pin plug
CON-HI-IP-5M Lxxx	5-pin plug

Socket/plug wire extensions



M

L

F

Order code	Type: extension
CON-HI-IP-2M/2F Lxxx	2-pin extension
CON-HI-IP-3M/3F Lxxx	3-pin extension
CON-HI-IP-4M/4F Lxxx	4-pin extension
CON-HI-IP-5M/5F Lxxx	5-pin extension

Wire length (L)



Lxxx values

Value	Length
L150	150 mm
L500	500 mm
L1000	1000 mm
L2000	2000 mm

Ula M IP67 Opal
OUTDOOR MODULAR LED LIGHT SYSTEMS



Ula L IP67 Opal

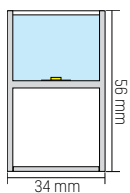
OUTDOOR MODULAR LED LIGHT SYSTEMS



IP67 For outdoor installation	 Stabilized current	 3 STEP MacAdam	 Made in Europe	 5-year warranty	 UL approved	LM80 Certified product	>60 000 hours L90B10
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General information

Our IP67 rated encapsulated modular LED lighting systems can be made with any of our LED strips up to a power of 48 W/m. Modules can be easily connected to each other seamlessly without any spaces inbetween. Easy to install. Product seamlessly integrate with the surface.



General technical details

Housing color	Grey painted / black painted / white painted / custom RAL
Cover	Opal / Clear (on request only)
Beam angle	120°
Connection	Input: plug; Output: socket
Light output ratio (LOR)	60%
Dimmable	YES
Operating temperature	-35°C – 50°C
Storage temperature	-40°C – 80°C
Voltage	24VDC [22,5-25VDC]
Light source	See table to the right for LED light options
Cutting step	Default 125 mm (different for other light sources on request)
Max connection run	See chosen LED strip maximum connection run

Order code

Product:

Ula L IP67

Light:

LIGHT TYPE

Options:

► See tables on the next page.

- **FL-56** (White NICHIA)
- **FL-112** (White NICHIA)
- **TW-56** (Tunable w NICHIA)
- **RGB-48** (RGB NICHIA)
- **RGBW-48** (RGB+W NICHIA)

Available to create custom product with any LED strip we offer (page 77).

Wattage:

POWER /

Options:

► See tables on the next page.

LED:

N3

Spectrum:

SPECTRUM

Options:

► See tables on the next page.

Color:

COLOR

Options:

AG - grey
PB - black
PW - white

Length:

LENGTH

Options:

Code	Length
L125	125 mm
L250	250 mm
L500	500 mm
L1000	1000 mm
L1500	1500 mm
L2000	2000 mm
L3000	3000 mm
Lxxx	Custom

Custom=n*125 mm
n = segments quantity

Order code example: **Ula L IP67 FL-56-24/N3-830 AG L1750**

White

FL-56



Max connection run:
 4.8 W/m - 10 m
 9.6 W/m - 5 m
 14.4 W/m - 4 m
 19.2 W/m - 3 m
 24.0 W/m - 3 m
 33.8 W/m - 2 m
 48.0 W/m - 1,5 m

POWER

	CRI	KELVINS	4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)	
SPECTRUM	820	CRI 80+	2400K	318 lm/m	602 lm/m	860 lm/m	1129 lm/m	1378 lm/m	-	1972 lm/m	2737 lm/m
	822	CRI 80+	2700K	344	650	930	1220	1489	-	2132	2959
	825	CRI 80+	3000K	382	722	1032	1354	1654	-	2366	3285
	827	CRI 80+	3600K	448	848	1211	1589	1941	-	2778	3856
	830	CRI 80+	4000K	461	874	1248	1638	1999	-	2861	3972
	835	CRI 80+	4700K	464	878	1256	1648	2011	-	2878	3995
	840	CRI 80+	5500K	464	878	1256	1648	2011	-	2878	3995
	850	CRI 80+	7400K	500	944	1346	1763	2149	-	3077	4264
				104 lm/W	98 lm/W	93 lm/W	92 lm/W	90 lm/W	-	92 lm/W	89 lm/W
		920	CRI 90+	2300K	271 lm/m	505 lm/m	715 lm/m	930 lm/m	1129 lm/m	-	1631 lm/m
	922	CRI 90+	2600K	293	547	773	1006	1221	-	1765	2426
	925	CRI 90+	3000K	318	593	839	1091	1325	-	1915	2632
	927	CRI 90+	3400K	377	709	1009	1318	1605	-	2308	3189
	930	CRI 90+	3700K	386	727	1034	1352	1646	-	2366	3270
	935	CRI 90+	4400K	396	745	1060	1385	1687	-	2425	3350
	940	CRI 90+	5400K	400	752	1071	1400	1704	-	2450	3385
	950	CRI 90+	9500K	422	796	1134	1484	1809	-	2593	3589
				88 lm/W	83 lm/W	79 lm/W	77 lm/W	75 lm/W	-	78 lm/W	75 lm/W

Tunable W

TW-56



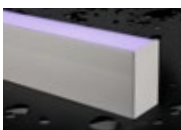
Max connection run:
 9.6 W/m - 8 m
 19.2 W/m - 5 m
 33.8 W/m - 2,5 m
 48.0 W/m - 2 m

POWER

	CRI	KELVINS	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)		
SPECTRUM	820/850	CRI 80+	2400-7400K	818 lm/m	-	1546 lm/m	-	-	2557 lm/m	3501 lm/m	
	820/840	CRI 80+	2400-5500K	782	-	1480	-	-	2454	3366	
	820/835	CRI 80+	2400-4700K	782	-	1480	-	-	2454	3366	
	822/840	CRI 80+	2700-5500K	808	-	1528	-	-	2534	3476	
				85 lm/W	-	81 lm/W	-	-	76 lm/W	73 lm/W	
		920/940	CRI 90+	2300-5400K	671 lm/m	-	1257 lm/m	-	-	2061 lm/m	2814 lm/m
		920/935	CRI 90+	2300-4400K	667	-	1250	-	-	2048	2796
		922/940	CRI 90+	2600-5400K	693	-	1299	-	-	2128	2906
					72 lm/W	-	68 lm/W	-	-	63 lm/W	61 lm/W

RGB

RGB-48



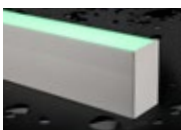
Max connection run:
 14.4 W/m - 4,5 m
 28.8 W/m - 3 m

POWER

	RGB	KELVINS	4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)
-	Red	-	-	-	72 lm/m	-	-	144 lm/m	-	-
-	Green	-	-	-	236 lm/m	-	-	472 lm/m	-	-
-	Blue	-	-	-	56 lm/m	-	-	113 lm/m	-	-
					Total 364			Total 728		

RGB+W

RGBW-48



Max connection run:
 19.2 W/m - 4 m
 24.0 W/m - 3,5 m

19.2 W/m: Total RGB - 364 lm/m
 R - 72; G - 236; B - 56

24.0 W/m: Total RGB - 364 lm/m
 R - 72; G - 236; B - 56

POWER

	CRI	KELVINS	4 (4.8 W/m)	9 (9.6 W/m)	14 (14.4 W/m)	19 (19.2 W/m)	24 (24.0 W/m)	28 (28.8 W/m)	33 (33.8 W/m)	48 (48.0 W/m)	
SPECTRUM	822	CRI 80+	2700K	-	-	-	256 lm/m	478 lm/m	-	-	
	825	CRI 80+	3000K	-	-	-	284	529	-	-	
	827	CRI 80+	3600K	-	-	-	326	613	-	-	
	830	CRI 80+	4000K	-	-	-	326	613	-	-	
	835	CRI 80+	4700K	-	-	-	326	613	-	-	
	840	CRI 80+	5500K	-	-	-	353	665	-	-	
	850	CRI 80+	7400K	-	-	-	353	665	-	-	
		922	CRI 90+	2600K	-	-	-	215 lm/m	404 lm/m	-	-
		927	CRI 90+	3400K	-	-	-	230	431	-	-
		930	CRI 90+	3700K	-	-	-	234	436	-	-
	935	CRI 90+	4400K	-	-	-	239	444	-	-	
	940	CRI 90+	5400K	-	-	-	252	474	-	-	
	950	CRI 90+	9500K	-	-	-	268	501	-	-	

Accessories for Ula L IP67 Opal

End cap



Order code	Color
AH111.EC PG	Grey painted
AH111.EC PB	Black painted
AH111.EC PW	White painted

Mounting bracket



Order code	Type
AH111.FIX	Mounting bracket

Magnet mounting bracket



M

L

Order code	Type: socket
CON-HI-IP-2F Lxxx	2-pin socket
CON-HI-IP-3F Lxxx	3-pin socket
CON-HI-IP-4F Lxxx	4-pin socket
CON-HI-IP-5F Lxxx	5-pin socket

Plug connectors



F

L

Order code	Type: plug
CON-HI-IP-2M Lxxx	2-pin plug
CON-HI-IP-3M Lxxx	3-pin plug
CON-HI-IP-4M Lxxx	4-pin plug
CON-HI-IP-5M Lxxx	5-pin plug

Socket/plug wire extensions



M

L

F

Order code	Type: extension
CON-HI-IP-2M/2F Lxxx	2-pin extension
CON-HI-IP-3M/3F Lxxx	3-pin extension
CON-HI-IP-4M/4F Lxxx	4-pin extension
CON-HI-IP-5M/5F Lxxx	5-pin extension

Wire length (L)

Lxxx values

Value	Length
L150	150 mm
L500	500 mm
L1000	1000 mm
L2000	2000 mm

Ula L IP67 Opal
OUTDOOR MODULAR LED LIGHT SYSTEMS



Make your own customised product



Make your own customised product

Order code

Order code example: **Ula S IP67 FL-56-24/N3-830 AG L1500**

Product:

NAME

Options:

Ula S IP67 (Clear outdoor)

Ula M IP67 (Opal outdoor)

Ula L IP67 (Opal outdoor)

Light source:

LED STRIP CODE

Options:

Insert LED strip code from chosen LED strip product page.

i.e. FL-56-24/N2-830

See table below for more info about LED strip options for this product.

Housing color:

COLOR

Options:

AG - grey

PB - black

PW - white

Length:

LENGTH

Options:

Code	Length
L125	125 mm
L250	250 mm
L500	500 mm
L1000	1000 mm
L1500	1500 mm
L2000	2000 mm
L3000	3000 mm
Lxxxx	Custom

Custom=n*125 mm
n = segments quantity

All available LED strip options for this product (NICHIA and OSRAM)

	■ White light					■ Tunable white		■ RGB		■ RGB+W	
	FL-56/N (page 12)	FL-56/O (page 14)	FL-112/N (page 16)	FL-112/O (page 18)	FL-140/O (page 20)	FL-224/O (page 22)	TW-56/N (page 26)	TW-70/O (page 28)	RGB-48/N (page 30)	RGB-96/N (page 32)	RGBW-48/N (page 34)
4,8 W/m	800 lm/m	700 lm/m	800 lm/m	750 lm/m	-	-	-	-	-	-	-
9,6 W/m	1500	1300	1600	1400	1400	1500	1500	1300	-	-	-
14,4 W/m	2200	1800	2300	1900	2000	2100	-	-	600	-	-
19,2 W/m	2900	2400	3100	2500	2600	2700	2900	2400	-	-	1200
24,0 W/m	3500	-	3900	3200	3200	-	-	-	-	-	1700
28,8 W/m*	-	-	-	-	-	-	-	-	-	1200	-
33,6 W/m*	-	-	5100	4200	3700	-	4900	3900	-	-	-
48,0 W/m*	-	-	7100	-	-	-	6700	5400	-	-	-

LOR 60 for opal cover products, lumen values are 40% lower than indoor LED strips lumen values.

LOR 85 for clear cover products, lumen values are 15% lower than indoor LED strips lumen values.

* - these LED strips are recommended to use with **ULA L IP67** product only.



Continuous line luminaires

INDOOR/OUTDOOR LINEAR LIGHTING

HOLECTRON
LED TECH

White

56 LEDs/m
NICHIA LED

56 LEDs/m
OSRAM LED

112 LEDs/m
NICHIA LED

112 LEDs/m
OSRAM LED

140 LEDs/m
OSRAM LED

224 LEDs/m
OSRAM LED

Neman Pendant



Neman Surface



Neman Recessed



Tunable White

56+56 LEDs/m
NICHIA LED

70+70 LEDs/m
OSRAM LED

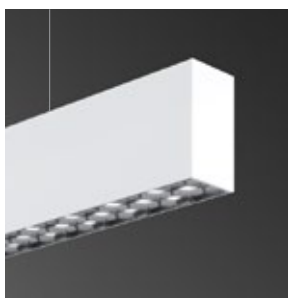
RGB

48 LEDs/m
NICHIA LED

96 LEDs/m
NICHIA LED

RGB+White

48+48 LEDs/m
NICHIA LED



Neman Pendant

INDOOR MODULAR LINEAR LED LIGHT SYSTEMS

 Stabilized current	 3 STEP MacAdam	 Made in Europe	 5-year warranty	 UL approved	LM80 Certified product	>60 000 hours L90B10
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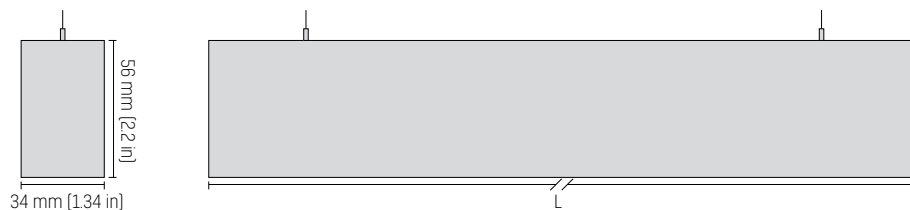
General information

Designed for continuous lighting system applications or as individual luminaires.

Available to use with any white, tunable white, RGB or RGBW LED strips. Power up to 48 W/m. 24V, 48V or constant current light engines. Microprismatic, opal or very low-glare honeycomb covers. White, grey, black powder painted or grey/black anodized housing. Any customized length at each 125 mm step, minimum length 250 mm. DALI dimmable. Easy assembly.

General technical details

Linear cover	Microprismatic / Opal / Honeycomb (extra low glare)
Light source	White / Tunable white / RGB / RGB+White
Power	Any LED tape up to 48 W/m
Voltage	24V / 48V / constant current
Length	Any length at each 125 mm (minimum 250 mm)
Dimming	DALI
Sensors	PIR, Daylight
Connection	Easy connecting modules using integrated connectors



Available options

Cover



1100 - Honeycomb black
1101 - Honeycomb gold
1102 - Honeycomb silver



2100 - Opal



3100 - Microprismatic

Color



PW
White painted



PG
Grey painted



PB
Black painted

Features



0100
Linear light



0111
Linear light + 1 spotlight on side



0112
Linear light + 2 spotlights on side



0121
Linear light + 1x2 spotlight on both sides



0122
Linear light + 2x2 spotlights on both sides



0131
Linear light + 1 spotlight in center



0132
Linear light + 2 spotlights in center



0141
Linear light + Sensor on side



0142
Sensor in the middle

Order code

Create your custom Neman luminaire (page 87).

Accessories

End cap



Order code	Color
AH111.EC.PG	Grey painted
AH111.EC.PB	Black painted
AH111.EC.PW	White painted

Connection joints



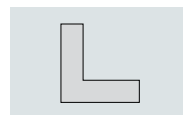
Order code	Type
AH111.JOINT	Joint set (2 pieces)

Suspension



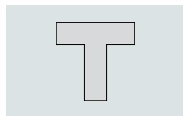
Order code	Length
FIX.SUSP 1,5m	1,5 m
FIX.SUSP 4m	4 m

L shape connections (125x125 mm)



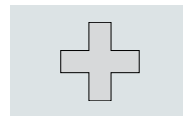
Order code	Cover type
AH111.1101	Honeycomb
AH111.2101	Opal Pendant
AH111.3101	Microprismatic
AH111.4101	Blind cover

T shape connections (125x125 mm)

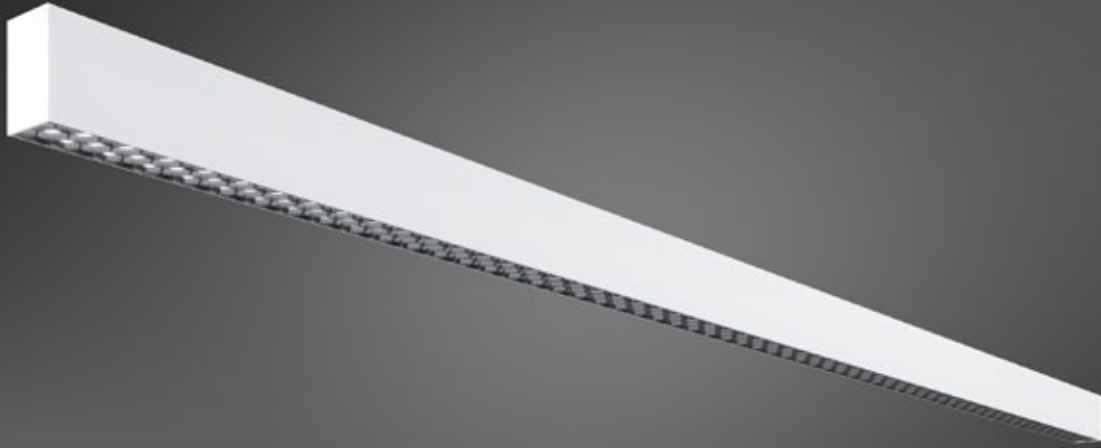


Order code	Cover type
AH111.1102	Honeycomb
AH111.2102	Opal
AH111.3102	Microprismatic
AH111.4102	Blind cover

X shape connections (250x250 mm)



Order code	Cover type
AH111.1103	Honeycomb
AH111.2103	Opal
AH111.3103	Microprismatic
AH111.4103	Blind cover



Neman Surface

INDOOR MODULAR LINEAR LED LIGHT SYSTEMS

 Stabilized current	 3 STEP MacAdam	 Made in Europe	 5-year warranty	 UL approved	LM80 Certified product	>60 000 hours L90B10
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General information

Designed for continuous lighting system applications or as individual luminaires.

Available to use with any white, tunable white, RGB or RGBW LED strips. Power up to 48 W/m. 24V, 48V or constant current light engines. Microprismatic, opal or very low-glare honeycomb covers. White, grey, black powder painted or grey/black anodized housing. Any customized length at each 125 mm step, minimum length 250 mm. DALI dimmable. Easy assembly.

General technical details

Linear cover	Microprismatic / Opal / Honeycomb (extra low glare)
Light source	White / Tunable white / RGB / RGB+White
Power	Any LED tape up to 48 W/m
Voltage	24V / 48V / constant current
Length	Any length at each 125 mm (minimum 250 mm)
Dimming	DALI
Sensors	PIR, Daylight
Connection	Easy connecting modules using integrated connectors



Available options

Cover



1100 - Honeycomb black
1101 - Honeycomb gold
1102 - Honeycomb silver



2100 - Opal



3100 - Microprismatic

Color



PW
White painted



PG
Grey painted



PB
Black painted

Features



0100
Linear light



0111
Linear light + 1 spotlight on side



0112
Linear light + 2 spotlights on side



0121
Linear light + 1x2 spotlight on both sides



0122
Linear light + 2x2 spotlights on both sides



0131
Linear light + 1 spotlight in center



0132
Linear light + 2 spotlights in center



0141
Linear light + Sensor on side



0142
Sensor in the middle

Order code

Create your custom Neman luminaire (page 87).

Accessories

End cap



Order code	Color
AH111.EC.PG	Grey painted
AH111.EC.PB	Black painted
AH111.EC.PW	White painted

Connection joints



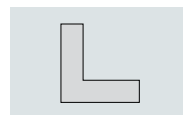
Order code	Type
AH111.JOINT	Joint set (2 pieces)

Suspension



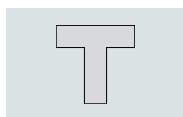
Order code	Length
FIX.SUSP 1,5m	1,5 m
FIX.SUSP 4m	4 m

L shape connections (125x125 mm)



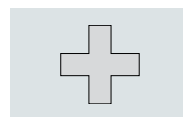
Order code	Cover type
AH111.1101	Honeycomb
AH111.2101	Opal Pendant
AH111.3101	Microprismatic
AH111.4101	Blind cover

T shape connections (125x125 mm)



Order code	Cover type
AH111.1102	Honeycomb
AH111.2102	Opal
AH111.3102	Microprismatic
AH111.4102	Blind cover

X shape connections (250x250 mm)



Order code	Cover type
AH111.1103	Honeycomb
AH111.2103	Opal
AH111.3103	Microprismatic
AH111.4103	Blind cover



Neman Recessed

INDOOR MODULAR LINEAR LED LIGHT SYSTEMS

 Stabilized current	 3 STEP MacAdam	 Made in Europe	 5-year warranty	 UL approved	LM80 Certified product	>60 000 hours L90B10
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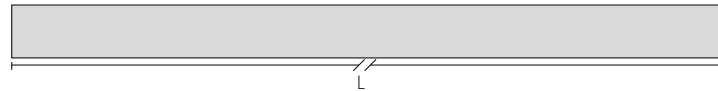
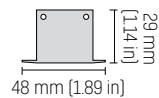
General information

Designed for continuous lighting system applications or as individual luminaires.

Available to use with any white, tunable white, RGB or RGBW LED strips. Power up to 48 W/m. 24V, 48V or constant current light engines. Microprismatic, opal or very low-glare honeycomb covers. White, grey, black powder painted or grey/black anodized housing. Any customized length at each 125 mm step, minimum length 250 mm. DALI dimmable. Easy assembly.

General technical details

Linear cover	Microprismatic / Opal / Honeycomb (extra low glare)
Light source	White / Tunable white / RGB / RGB+White
Power	Any LED tape up to 48 W/m
Voltage	24V / 48V / constant current
Length	Any length at each 125 mm (minimum 250 mm)
Dimming	DALI
Sensors	PIR, Daylight
Connection	Easy connecting modules using integrated connectors



Available options

Cover



1100 - Honeycomb black
1101 - Honeycomb gold
1102 - Honeycomb silver



2100 - Opal



3100 - Microprismatic

Color



PW
White painted



PG
Grey painted



PB
Black painted

Features



0100
Linear light



0111
Linear light + 1 spotlight on side



0112
Linear light + 2 spotlights on side



0121
Linear light + 1x2 spotlight on both sides



0122
Linear light + 2x2 spotlights on both sides



0131
Linear light + 1 spotlight in center



0132
Linear light + 2 spotlights in center



0141
Linear light + Sensor on side



0142
Sensor in the middle

Order code

Create your custom Neman luminaire (page 87).

Accessories

End cap



Order code	Color
AH112.EC PG	Grey painted
AH112.EC PB	Black painted
AH112.EC PW	White painted

Connection joints



Order code	Type
AH111.JOINT	Joint set [2 pieces]

Mounting springs



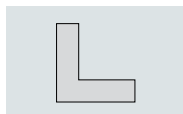
Order code	Type
AH112.FIX SPRING 2pcs	Mounting spring

Mounting hooks



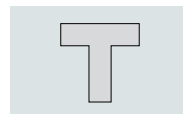
Order code	Type
AH112.FIX HOOK	Mounting hook

L shape connections (125x125 mm)



Order code	Cover type
AH112.1301	Honeycomb
AH112.2301	Opal
AH112.3301	Microprismatic
AH112.4301	Blind cover

T shape connections (125x125 mm)



Order code	Cover type
AH112.1302	Honeycomb
AH112.2302	Opal
AH112.3302	Microprismatic
AH112.4302	Blind cover

X shape connections (250x250 mm)



Order code	Cover type
AH112.1303	Honeycomb
AH112.2303	Opal
AH112.3303	Microprismatic
AH112.4303	Blind cover

Make your own customised product



Order code for Neman products

Order code example: **NemanR.1100.PW.0100.W33.830.L500**

Mounting type: **XXXXXX** Cover: **XXXX** Color: **XX** Features: **XXXX** Light: **XXXX** Spectrum: **X XX** Length: **LXXXX**

Code Mounting type

NemanP Pendant
NemanS Surface
NemanR Recessed

Code Cover

1100 Honeycomb (anti-glare)
2100 Opal
3100 Microprismatic

Code Color

PG Grey painted
PB Black painted
PW White painted

Code Features

0100 Linear light only 
0111 Linear light + 1 spotlight on side 
0112 Linear light + 2 spotlights on side 
0121 Linear light + 1x2 spotlight on both sides 
0122 Linear light + 2x2 spotlights on both sides 
0131 Linear light + 1 spotlight in center 
0132 Linear light + 2 spotlights in center 
0141 Linear light + Sensor on side 
0142 Linear light + Sensor in the middle 

Code Light engine

White light:
W14 14W FL-56-14/N
W24 23W FL-56-24/N
W33 33W FL-112-33/N
W48 48W FL-112-48/N
Tunable white
TW33 33W TW-56-33/N
TW48 48W TW-56-48/N

Code CRI

8 CRI 80 +
9 CRI 90 +
0 CRI 98+

Code Spectrum

27 2700K
30 3000K
35 3500K
40 4000K
27/50 2700K/5000K (for tunable white only)

Code Length

L500 500 mm
L1000 1000 mm
L1250 1250 mm
L1500 1500 mm
L2000 2000 mm
L2500 2500 mm
L3000 3000 mm
Lxxxx Custom

Custom=n*125 mm
n = segments quantity

Neman
CONTINUOUS LINE LUMINAIRES



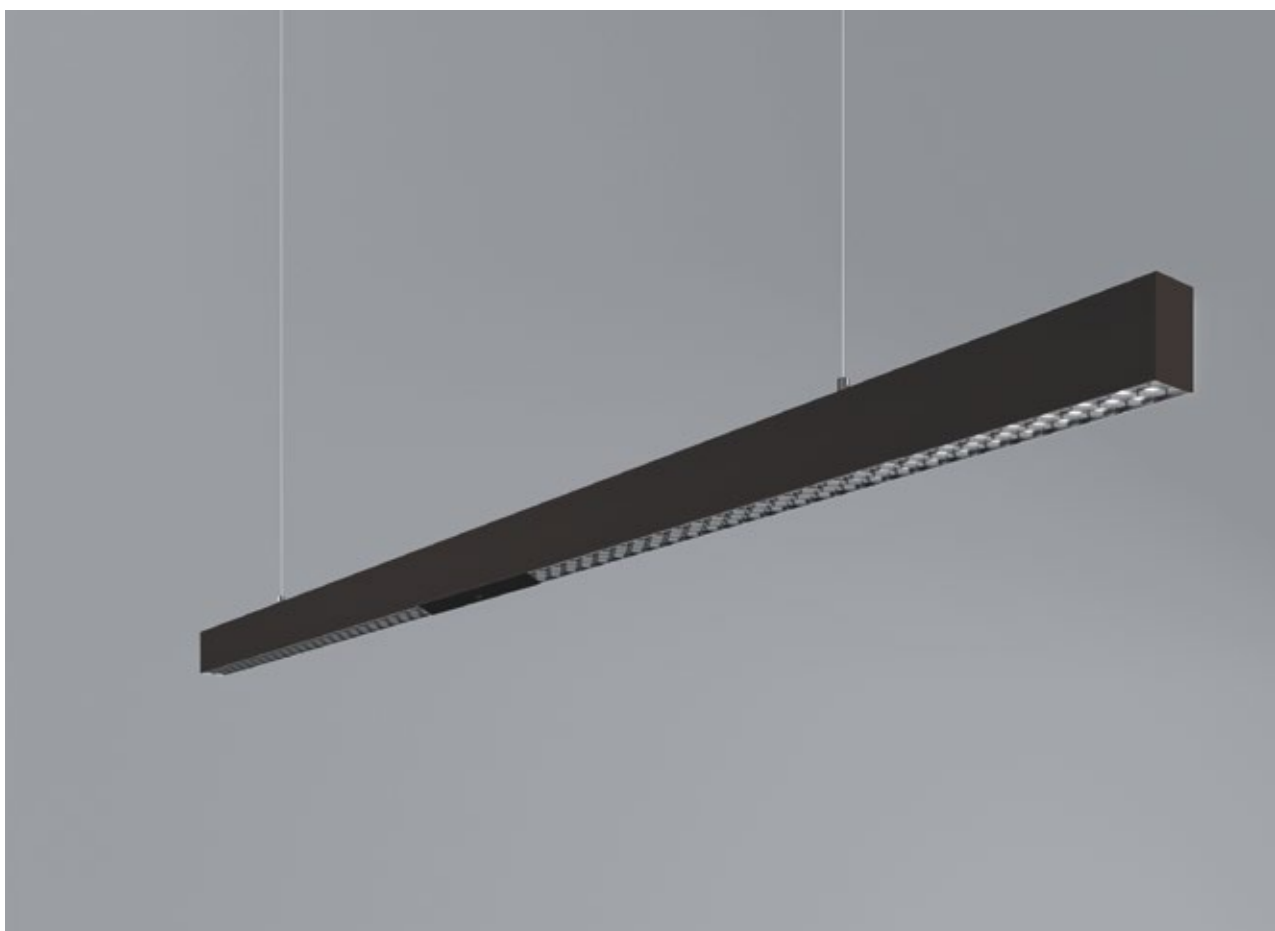
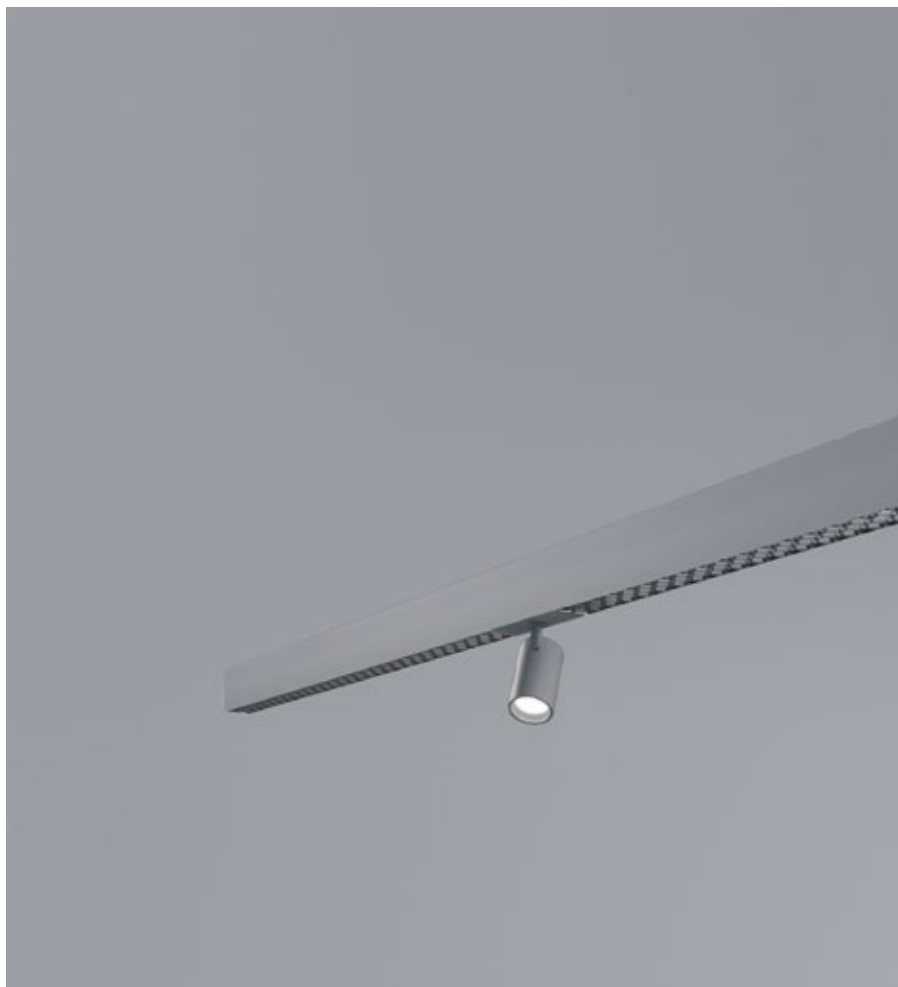


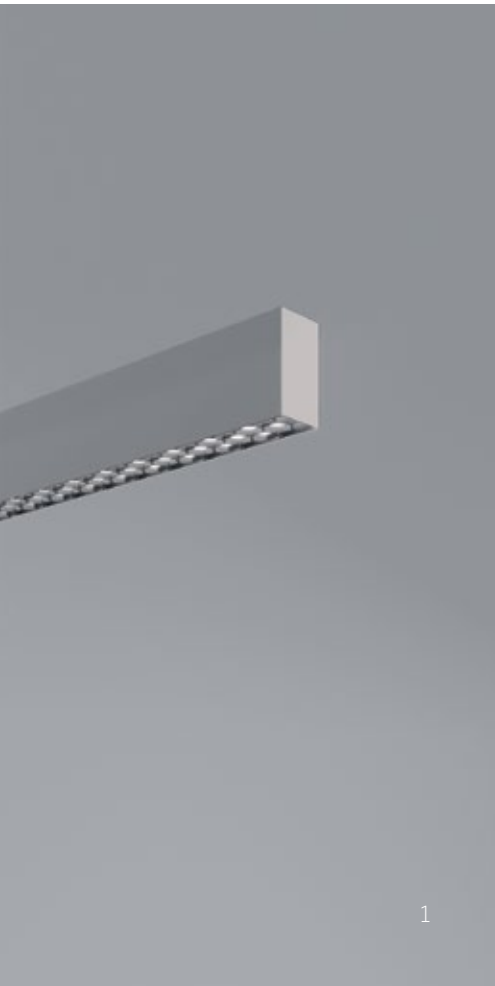
Neman

CONTINUOUS LINE LUMINAIRES

Custom Neman luminaire examples (name, order code):

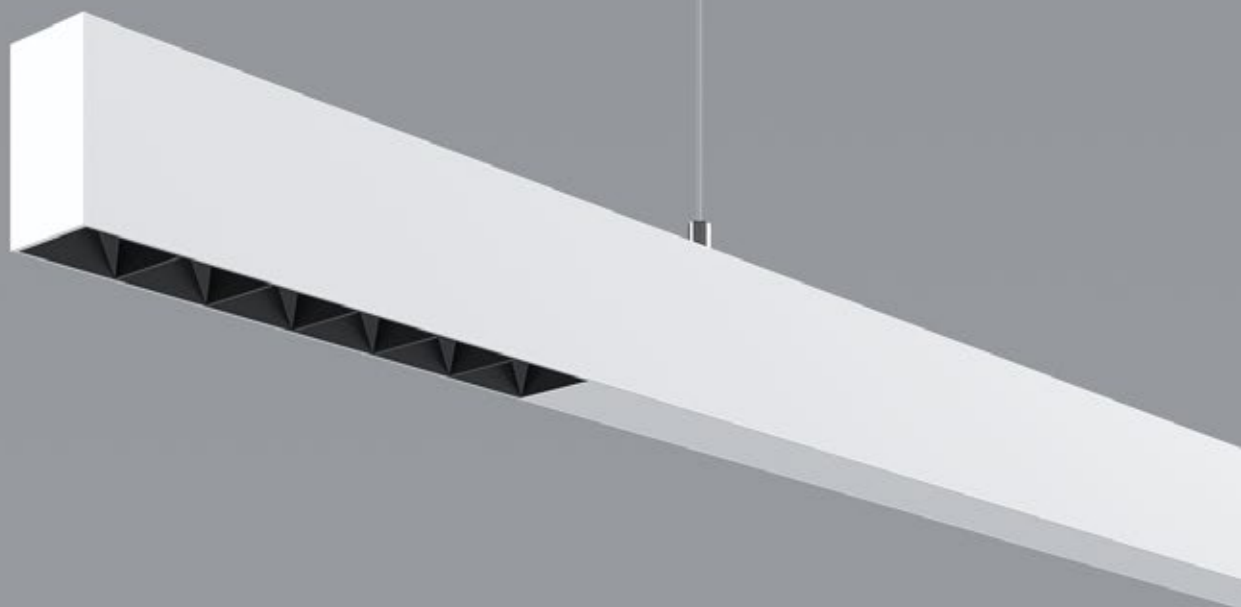
- | | |
|-------------------|-----------------------------------|
| 1. Neman Surface | NemanS.1100.PG.0131.W24.840.L1500 |
| 2. Neman Pendant | NemanP.1100.PW.0122.W24.840.L1500 |
| 3. Neman Pendant | NemanP.1100.PB.0142.W24.840.L1500 |
| 4. Neman Recessed | NemanR.1100.PW.0141.W24.840.L1500 |





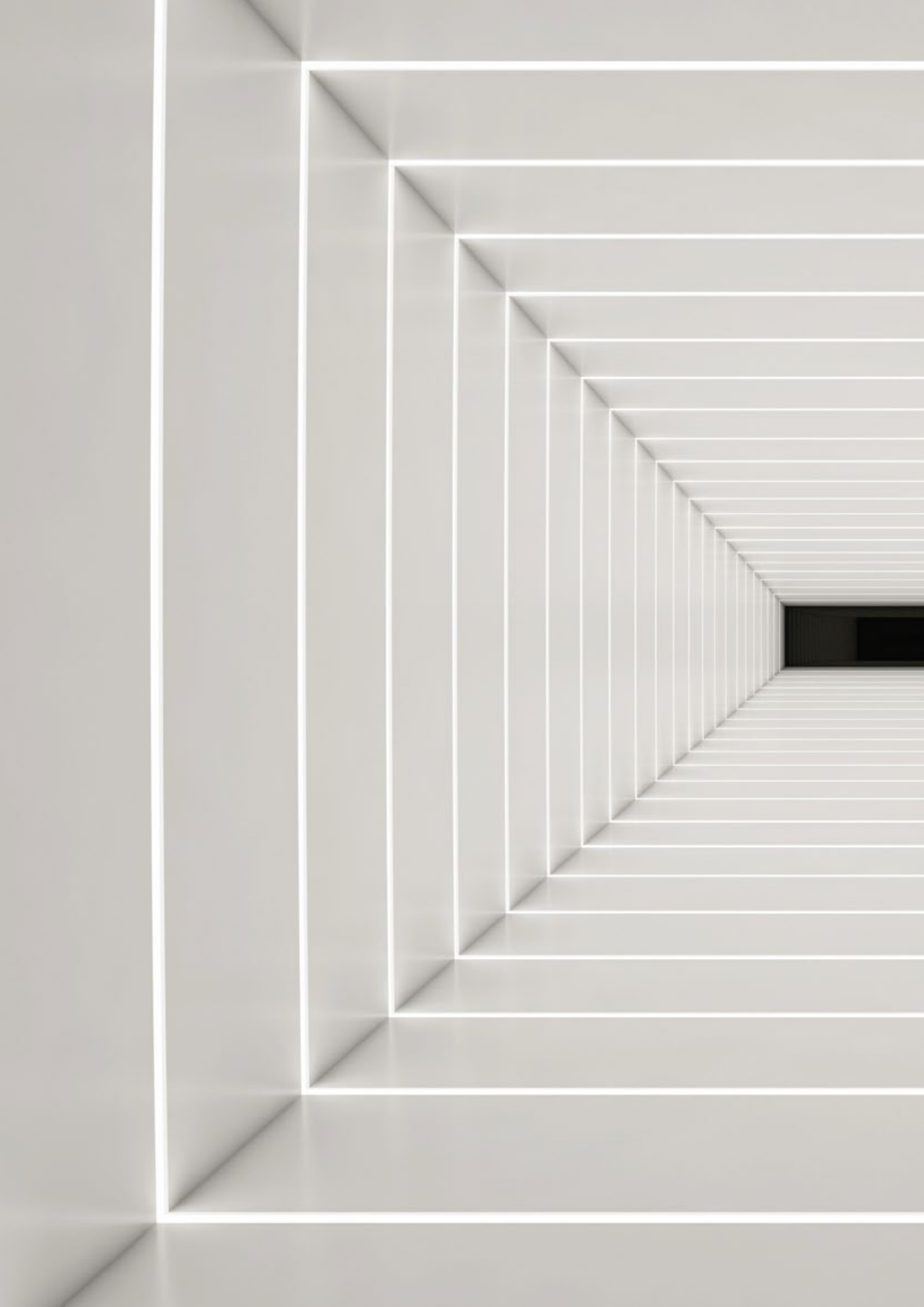


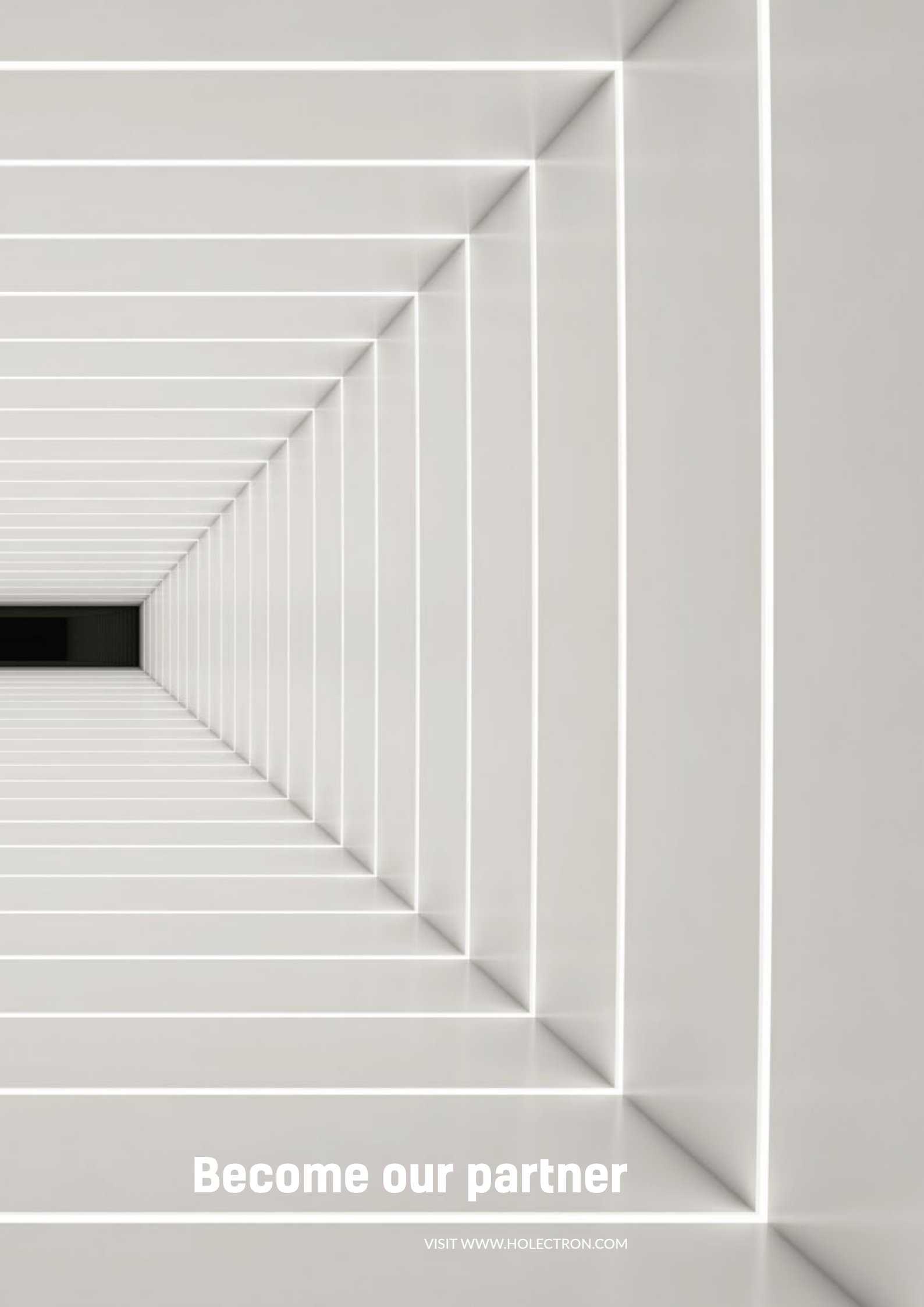
HOLECTRON
LED TECH



**VARIOUS
LINEAR LIGHT
LUMINAIRES**

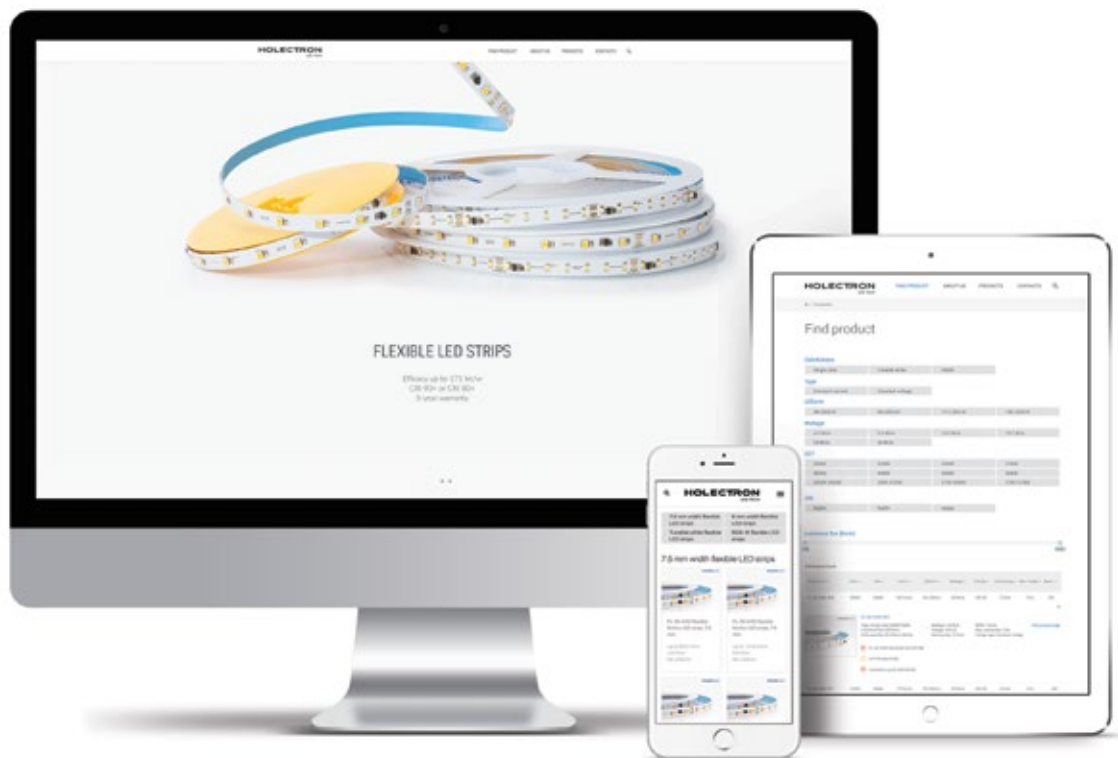
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to find the right products for your project.

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LED TECH

Contact us

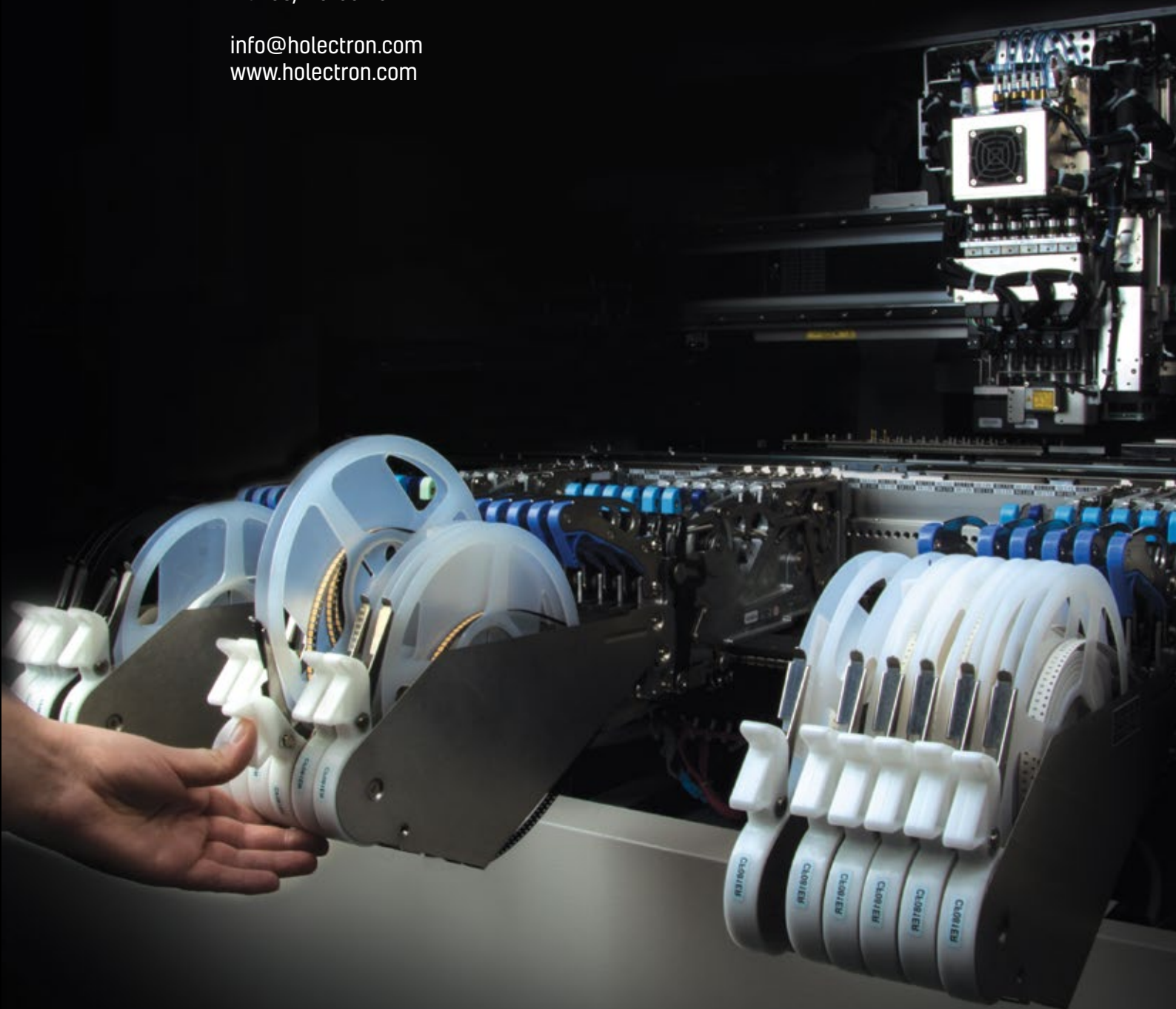
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