



# HOLDBOX®

LIGHT LINES AND LUMINAIRES WITH  
HIGH EFFICIENCY AND WITH OPTICS



LINE - O

Project: HOLDBOX, Church in Adamowizna, Poland



POWERED BY  
Vossloh Schwabe GmbH



#### Application

Light lines, luminaires, general illumination

- Architectural lighting
- Store and communication lighting

#### Operating parameters

- Input power: mains 220-240V/50-60Hz

#### Material

- Silver anodized aluminum

#### Options

- Surface version
- Possibility to make light lines / luminaires with different lengths
- Transparent cover with different beam angle optics
- Additional equipment - wall and ceiling holders, steel suspension wires

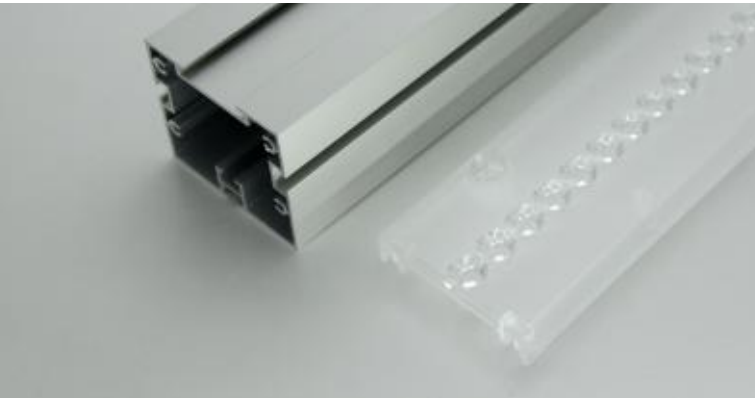
#### LED light sources and power supply



- LONG LIFESPAN: minimum 60 000 hours (L80, B10)
- HIGH EFFICIENCY: up to 183lm/W
- COLOR RENDERING INDEX: Ra > 80
- 2 STANDARD LENGTHS AVAILABLE: 28, 56cm
- 2 DIFFERENT SPACING BETWEEN SMD LEDs: 0.93cm, 1.85cm
- LIGHT SOURCES SUPPLIED BY CONSTANT CURRENT LED DRIVER

## HOUSING

surface

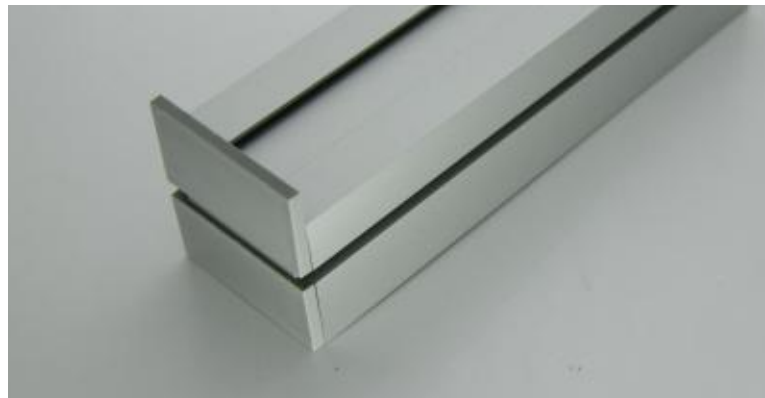


## COVER

transparent with optics

## ENDING CAPS

grey ABS



## MOUNTING

wall holder  
ceiling holder

## SUSPENSION WIRES

steel wire with adjustable length



## ELECTRICAL CONNECTION

ceiling

## POWER SUPPLY

internal LED driver



## PAINTING

any RAL color as an option

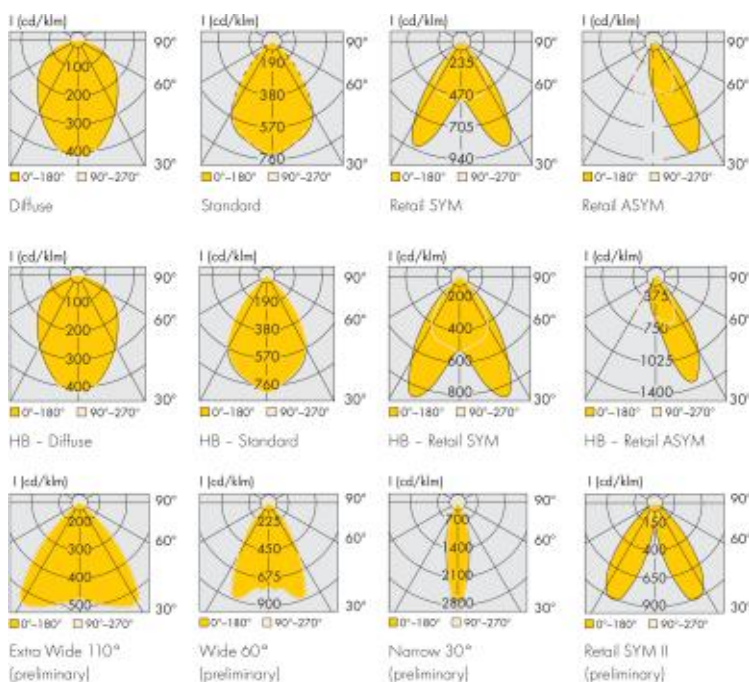
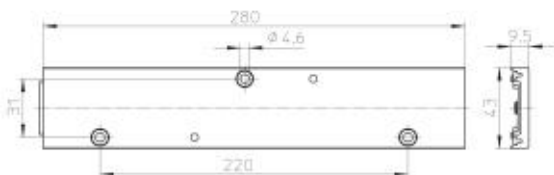
# LIGHT SOURCES AND OPTICS

Vossloh-Schwabe LED modules and optics

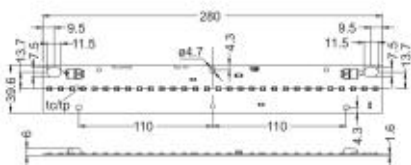


## PMMA optics with 28cm length

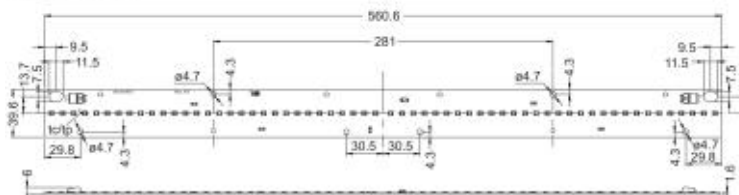
Optics type	Ref.No.	Efficiency %	Weight g
Standard	<b>555437</b>	95	50
Diffus	<b>559972</b>	88	50
Extra Wide 110°	<b>560570</b>	95	105.8
Wide 60°	<b>560573</b>	95	87.6
Narrow 30°	<b>560571</b>	95	93,8
Retail SYM	<b>555438</b>	95	50
Retail SYM II	<b>560572</b>	95	90,8
Retail ASYM	<b>555439</b>	95	50



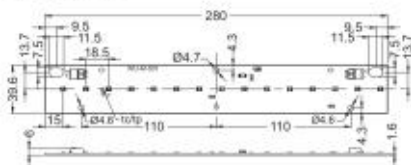
### WU-M-480-G



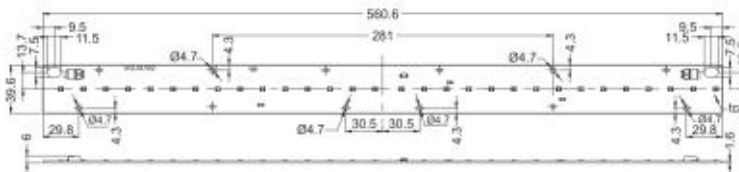
### WU-M-481-G



### WU-M-501-G



### WU-M-502-G





## Light sources with length 28 and 56 cm

Type	Ref.No.	LED quantity pcs.	Color	Color temperature K	Lumen (lm), luminous efficiency (lm/W), typical voltage (U <sub>typ</sub> ), power consumption (P <sub>el</sub> )									Beam angle °	Color rendering index CRI	
					350mA			500mA			700mA				min. Ra	typ. Ra
					min. lm	typ. lm	typ. lm/W	min. lm	typ. lm	typ. lm/W	min. lm	typ. lm	typ. lm/W			
<b>28cm - 30 SMD LEDs - Standard</b>					P <sub>el</sub> = 4.9W U <sub>typ.</sub> = 13.9V			P <sub>el</sub> = 7.2W U <sub>typ.</sub> = 14.4V			P <sub>el</sub> = 10.5W U <sub>typ.</sub> = 15V					
WU-M-480-G-830	560115	30	warm white	3000	720	780	160	1010	1100	152	1385	1500	143	120	80	85
WU-M-480-G-840	560116	30	neutral white	4000	750	820	168	1055	1150	159	1445	1570	150	120	80	85
WU-M-480-G-850	560117	30	neutral white	5000	780	890	183	1100	1255	174	1500	1715	164	120	80	85
WU-M-480-G-865	560118	30	cool white	6500	780	860	176	1100	1205	168	1500	1650	158	120	80	85
<b>56cm - 60 SMD LEDs - Standard</b>					P <sub>el</sub> = 9.8W U <sub>typ.</sub> = 27.9V			P <sub>el</sub> = 14.4W U <sub>typ.</sub> = 28.8V			P <sub>el</sub> = 20.9W U <sub>typ.</sub> = 29.9V					
WU-M-481-G-830	560123	60	warm white	3000	1440	1565	160	2020	2195	152	2765	3005	143	120	80	85
WU-M-481-G-840	560124	60	neutral white	4000	1500	1635	168	2110	2295	159	2885	3145	150	120	80	85
WU-M-481-G-850	560125	60	neutral white	5000	1565	1785	183	2195	2505	174	3005	3430	164	120	80	85
WU-M-481-G-865	560126	60	cool white	6500	1565	1720	176	2195	2415	168	3005	3300	158	120	80	85
<b>28cm - 15 SMD LEDs - Standard</b>					P <sub>el</sub> = 3W U <sub>typ.</sub> = 8.5V			P <sub>el</sub> = 4.4W U <sub>typ.</sub> = 8.8V			P <sub>el</sub> = 6.4W U <sub>typ.</sub> = 9.2V					
WU-M-501-G-830	560131	15	warm white	3000	430	465	156	600	650	148	815	885	138	120	80	85
WU-M-501-G-840	560132	15	neutral white	4000	445	485	164	625	680	155	850	930	144	120	80	85
WU-M-501-G-850	560133	15	neutral white	5000	465	530	179	650	745	169	885	1010	157	120	80	85
WU-M-501-G-865	560134	15	cool white	6500	465	510	172	650	715	162	885	975	151	120	80	85
<b>56cm - 30 SMD LEDs - Standard</b>					P <sub>el</sub> = 6W U <sub>typ.</sub> = 17V			P <sub>el</sub> = 8.8W U <sub>typ.</sub> = 17.6V			P <sub>el</sub> = 12.9W U <sub>typ.</sub> = 18.4V					
WU-M-502-G-830	560135	30	warm white	3000	855	930	156	1200	1300	148	1635	1775	138	120	80	85
WU-M-502-G-840	560136	30	neutral white	4000	895	975	164	1250	1365	155	1705	1855	144	120	80	85
WU-M-502-G-850	560137	30	neutral white	5000	930	1065	179	1300	1485	169	1775	2025	157	120	80	85
WU-M-502-G-865	560138	30	cool white	6500	930	1025	172	1300	1430	162	1775	1950	151	120	80	85
<b>28cm - SMD LEDs - High Brightness</b>					P <sub>el</sub> = 9.7W U <sub>typ.</sub> = 27.8V			P <sub>el</sub> = 14.3W U <sub>typ.</sub> = 28.6V			P <sub>el</sub> = 20.7W U <sub>typ.</sub> = 29.6V					
WU-M-480-G-HB-830	560119	30	warm white	3000	1305	1455	149	1835	2040	143	2505	2790	135	120	80	85
WU-M-480-G-HB-840	560120	30	neutral white	4000	1360	1535	158	1910	2155	151	2610	2945	142	120	80	85
WU-M-480-G-HB-850	560121	30	neutral white	5000	1420	1605	165	1990	2255	158	2720	3080	149	120	80	85
WU-M-480-G-HB-865	560122	30	cool white	6500	1420	1570	161	1990	2205	154	2720	3010	145	120	80	85
<b>56cm - 60 SMD LEDs - High Brightness</b>					P <sub>el</sub> = 19.5W U <sub>typ.</sub> = 55.6V			P <sub>el</sub> = 28.6W U <sub>typ.</sub> = 57.1V			P <sub>el</sub> = 41.4W U <sub>typ.</sub> = 59.2V					
WU-M-481-G-HB-830	560127	60	warm white	3000	2610	2905	149	3665	4080	143	5010	5575	135	120	80	85
WU-M-481-G-HB-840	560128	60	neutral white	4000	2720	3070	158	3815	4310	151	5215	5890	142	120	80	85
WU-M-481-G-HB-850	560129	60	neutral white	5000	2840	3210	165	3985	4505	158	5445	6160	149	120	80	85
WU-M-481-G-HB-865	560130	60	cool white	6500	2840	3140	161	3985	4410	154	5445	6025	145	120	80	85
<b>28cm - 15 SMD LEDs - High Brightness</b>					P <sub>el</sub> = 5.9W U <sub>typ.</sub> = 16.9V			P <sub>el</sub> = 8.8W U <sub>typ.</sub> = 17.5V			P <sub>el</sub> = 12.7W U <sub>typ.</sub> = 18.2V					
WU-M-501-G-HB-830	560139	15	warm white	3000	775	865	146	1085	1210	139	1480	1645	129	120	80	85
WU-M-501-G-HB-840	560140	15	neutral white	4000	810	915	155	1130	1280	146	1540	1735	137	120	80	85
WU-M-501-G-HB-850	560141	15	neutral white	5000	845	955	162	1180	1335	153	1605	1815	143	120	80	85
WU-M-501-G-HB-865	560142	15	cool white	6500	845	935	158	1180	1305	150	1605	1775	140	120	80	85
<b>56cm - 30 SMD LEDs - High Brightness</b>					P <sub>el</sub> = 11.8W U <sub>typ.</sub> = 33.8V			P <sub>el</sub> = 17.4W U <sub>typ.</sub> = 34.9V			P <sub>el</sub> = 25.4W U <sub>typ.</sub> = 36.3V					
WU-M-502-G-HB-830	560143	30	warm white	3000	1555	1730	146	2175	2420	139	2955	3285	129	120	80	85
WU-M-502-G-HB-840	560144	30	neutral white	4000	1620	1825	155	2260	2555	146	3075	3470	137	120	80	85
WU-M-502-G-HB-850	560145	30	neutral white	5000	1690	1910	162	2360	2670	153	3210	3630	143	120	80	85
WU-M-502-G-HB-865	560146	30	cool white	6500	1690	1870	158	2360	2615	150	3210	3550	140	120	80	85

# LED DRIVERS

Vossloh-Schwabe constant current LED drivers to choose



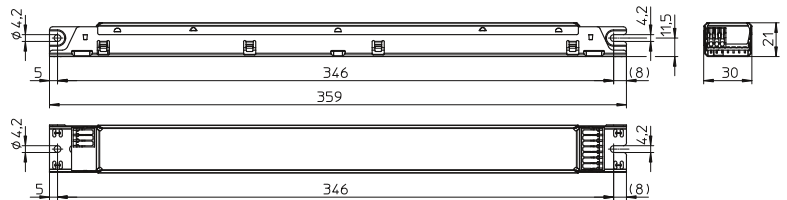
## 350/500/700mA constant current LED drivers

Standard - not adjustable

### Operating parameters

- Operating current: 350/500/700mA
- Input voltage: 220-240V / 50-60Hz
- Power Factor: 0.97
- Protection: IP20
- Protection class: I

### M10



Output power W	Type	Ref.No.	Input voltage 50-60Hz V	Input current mA	Output current DC mA	Output voltage DC V	Max. voltage without load DC V	Efficiency at full load % (230V)	Ambient temperature $t_a$ °C	Casing temperature $t_c$ °C	Weight g
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### M10 - Dimensions 359 x 30 x 21mm

40	ECXe 700.148	186444	220-240	400-370	350 ±5%	57-114	< 250	> 90	-25 - 50	60	227
				420-390	500 ±5%	40-80		> 89		65	
				420-390	700 ±5%	28-57		> 88		70	
79	ECXe 700.147	186443	220-240	200-190	350 ±5%	120-225	< 250	> 94	-25 - 50	70	250
205-190				500 ±5%	80-170	> 93		75			
210-195				700 ±5%	60-120	> 92		80			

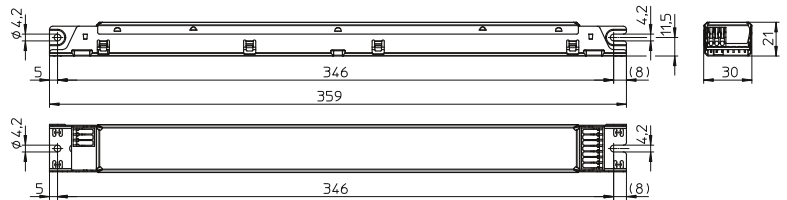
## DALI - adjustable



### Operating parameters

- Operating current: 350-700mA (adj. every 1mA)
- Input voltage: 220-240V/50-60Hz
- Power factor: 0.97
- Protection: IP20
- Protection class: I
- Brightness adjustment: 3-100%
- Control system: DALI
- VS Application iProgrammer 186428 required for programming

### M10



Output power W	Type	Ref.No.	Input voltage 50-60Hz V	Input current mA	Output current DC mA	Output voltage DC V	Max. voltage without load DC V	Efficiency at full load % (230V)	Ambient temperature $t_a$ °C	Casing temperature $t_c$ °C	Weight g
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### M10 - Dimensions 359 x 30 x 21mm

42	ECXd 700.150	186446	220-240	215-200	350-700 -5/+10%	30-120	< 250	> 88	-25 - 50	60	235
77	ECXd 700.149	186445	220-240	410-380	350-700 -5/+7%	60-220	< 250	> 88	-25 - 50	70	265
84											





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