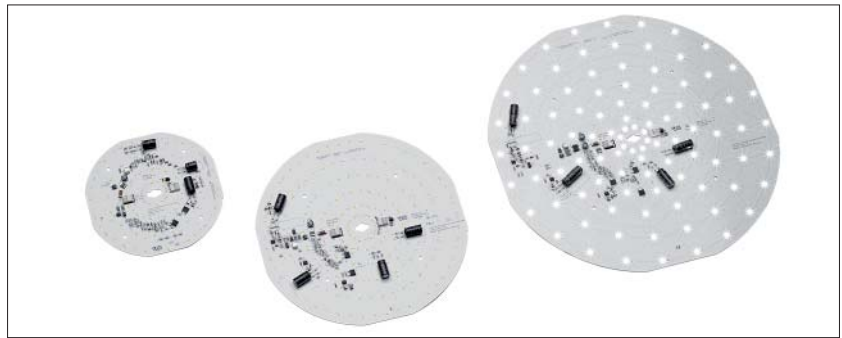


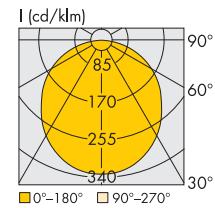
## LED Modules ReadyLine DL

### Technical Notes

- LED built-in module for integration into luminaires
- AC operation at 230 V
- Power factor: 0.99
- Dimensions  
WU-M-538: Ø 164 mm  
WU-M-539: Ø 250 mm  
WU-M-540: Ø 350 mm
- Beam angle: 120°
- ReadyLine DL EM for Emergency Lighting  
With separate LED circuit for operation with local VS emergency lighting drivers



### Typical Light Distribution Curve



### Electrical Characteristics

at  $t_p = 50\text{ °C} / 230\text{ V AC}$

Type	Supply voltage AC $U_{typ.} / U_{operation}$ V	Operation frequency Hz	Power consumption at 230 V W	THD %	Power factor	Flicker percent %	Flicker index
WU-M-538	220–240	50/60	20.5	12	0.99	18	0.05
WU-M-539			30.5	12	0.99	16	0.05
WU-M-540			42.5	13	0.99	14	0.04

### Maximum Ratings

Exceeding the maximum ratings can lead to reduction of service life or destruction of the modules.

Type	Operation voltage range (AC)		Operation temperature range at $t_c$ point		Ambient temperature range		Storage temperature range	
	U min.	U max.	°C min.	°C max.	°C min.	°C max.	°C min.	°C max.
All types	205	264	-20	+80	-20	+45	-40	+85

### Optical Characteristics

at  $t_p = 50\text{ °C} / 230\text{ V AC}$

Typ. output W	Type	Ref. No.	Type EM*	Ref. No. EM*	Number of LEDs pcs.	Colour	Correlated colour temperature (K)	Typ. luminous flux (lm) and efficiency (lm/W)** at 230 V			Typ. CRI $R_a$	Energy efficiency
								min. (lm)	typ. (lm)	typ. (lm/W)		
<b>ReadyLine DL 164</b>			<b>ReadyLine DL 164 EM</b>									
20.5	WU-M-538-830	<b>562159</b>	WU-M-538-830-EM	<b>561880</b>	46	warm white	3000	2184	2237	113	80	A+
20.5	WU-M-538-840	<b>562160</b>	WU-M-538-840-EM	<b>561881</b>	46	neutral white	4000	2184	2350	119	80	A+
20.5	WU-M-538-850	<b>562161</b>	WU-M-538-850-EM	<b>562162</b>	46	cool white	5000	2184	2429	123	80	A+
<b>ReadyLine DL 250</b>			<b>ReadyLine DL 250 EM</b>									
30.5	WU-M-539-830	<b>562163</b>	WU-M-539-830-EM	<b>561882</b>	90	warm white	3000	3172	3503	112	80	A+
30.5	WU-M-539-840	<b>562164</b>	WU-M-539-840-EM	<b>561883</b>	90	neutral white	4000	3172	3617	116	80	A+
30.5	WU-M-539-850	<b>562165</b>	WU-M-539-850-EM	<b>562166</b>	90	cool white	5000	3457	3743	120	80	A+
<b>ReadyLine DL 350</b>			<b>ReadyLine DL 350 EM</b>									
42.5	WU-M-540-830	<b>562167</b>	WU-M-540-830-EM	<b>562170</b>	89	warm white	3000	4143	4663	110	80	A+
42.5	WU-M-540-840	<b>562168</b>	WU-M-540-840-EM	<b>562171</b>	89	neutral white	4000	4321	4841	114	80	A+
42.5	WU-M-540-850	<b>562169</b>	WU-M-540-850-EM	<b>562172</b>	89	cool white	5000	4499	5019	118	80	A+

\* With separate LED circuit for operation with local VS emergency lighting drivers only

\*\* Production tolerance of luminous flux and efficiency:  $\pm 10\%$

**Packaging unit: 64 pcs. (DL 164) / 22 pcs. (DL 250) / 16 pcs. (DL 350)**

The values contained in this data sheet can change due to technical innovations. Any such changes will be made without separate notification.