

CE  05 LM-79 LM-80



Veko's Richard line provides years of trouble-free lighting for your indoor or underground car park. The robust luminaires keep out dust and moisture, the system's energy efficiency is second to none and the entire space is perfectly lit. The Richard's wide-beam lamps deliver excellent uniformity at floor level, so that the luminaires can even be mounted directly over the middle of the internal roadway.

The Richard features a untreated aluminium profile designed specially for car parks, in which other parking systems are easily incorporated. Sensors guide the driver smoothly to an available space. The profile is vandal-resistant thanks to its heavy-duty mount. The use of aluminium in our linear lighting also ensures a great temperature management: Veko LED lighting operates effortlessly at ambient temperatures from -20 °C - to 35 °C or even higher. At Veko, an warranty of 10 years is therefore possible.

To save even more on your energy costs, choose a light management system. Thanks to intelligent control, your main and emergency lighting requires less maintenance and the dimming function of the luminaires operates more efficiently.

Veko's linear lighting are not only some of the most energy-efficient in the world, but also the most sustainable. The equipment is supplied with virtually no packaging, is 100 per cent recyclable and is easily refurbished, even after 45 years.



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## Technical information

<b>Length</b>	1,030 mm	1,530 mm	2,030 mm
<b>Output flux</b>	1,700 - 18,050 lm		
<b>Wattage</b>	11,3 - 122,4 W		
<b>Voltage</b>	220 - 240 V		
<b>Frequency</b>	50 ÷ 60 Hz		
<b>Power factor</b>	>0.9		
<b>Drivers</b>	Signify or Osram		
<b>Operational temperature</b>	-20 °C to +35 °C		
<b>Weight</b>	Approx. 3 - 4.5 kg/m including profile and accessories		
<b>Application</b>	Parking garages and low areas		
<b>Installation height</b>	2 - 4 m		
<b>Colour temperature</b>	Natural white (± 4,000 K) On request other colour temperatures possible (3,000 - 6,500 K)		
<b>Colour Rendering Index (CRI)</b>	>80		
<b>Lens optic</b>	Wide, X-Wide and Diffuse		
<b>Cover material</b>	Polycarbonate		
<b>Material</b>	Anodized aluminium		
<b>Colour</b>	Anodized		
<b>Impact resistance</b>	IK10		
<b>IP code</b>	IP54		
<b>Options</b>	DALI, CLO, emergency lighting and possibility to integrate parking systems.		
<b>Warranty</b>	L85B10 / at least 5 year warranty / Ta 35 °C		
<b>Expected life span</b>	It is possible to reach 100,000 hours		
<b>BREEAM norms</b>	Yes		

On the initial performance, a tolerance of ± 10% is applicable, according to IEC. Technical data subject to change.

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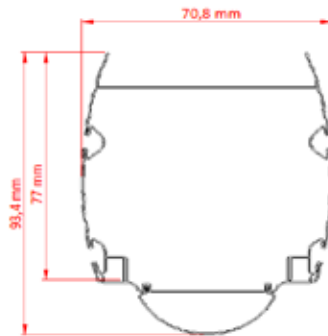
### RICHARD WIDE

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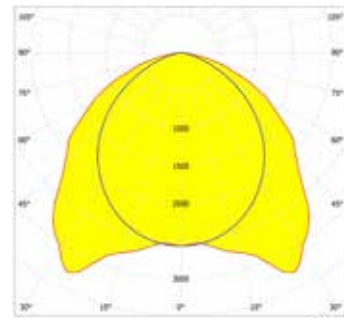
#### Luminaire



#### Dimensions



#### Polar diagram



Product code IP20 - IP40	Length (mm)	Wattage (W)	Output flux (lm)	Lumen/Watt
LHPx-W-101	1,030	11.4 - 61.9	1,900 - 8,950	141 - 166
LHPx-W-151	1,530	11.3 - 92.2	1,900 - 13,400	141 - 185
LHPx-W-152	1,530	16.6 - 122.4	2,800 - 19,250	153 - 181
LHPx-W-201	2,030	11.5 - 105.7	1,900 - 15,900	146 - 176

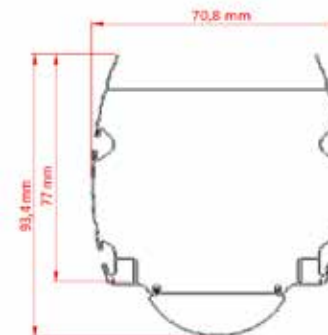
### RICHARD X-WIDE

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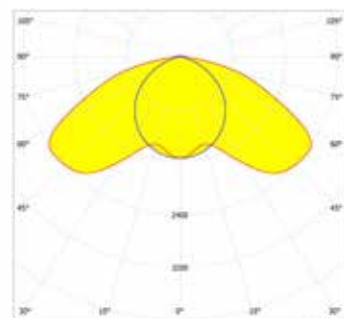
#### Luminaire



#### Dimensions



#### Polar diagram



Product code IP20 - IP40	Length (mm)	Wattage (W)	Output flux (lm)	Lumen/Watt
LHPx-XW-101	1,030	12,8 - 53,3	1,900 - 7,400	139 - 147
LHPx-XW-151	1,530	12,4 - 74,5	1,900 - 10,500	141 - 148
LHPx-XW-152	1,530	12,4 - 91,9	2,800 - 14,000	152 - 160
LHPx-XW-201	2,030	12,5 - 102,4	1,900 - 14,400	140 - 152

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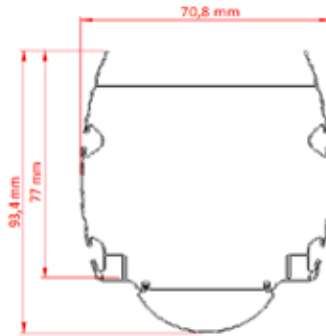
## RICHARD DIFFUSE

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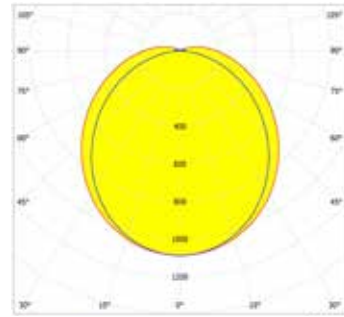
### Luminaire



### Dimensions



### Polar diagram



Product code IP20 - IP40	Length (mm)	Wattage (W)	Output flux (lm)	Lumen/Watt
LHPx-D101	1,030	11.4 - 61,9	1,700 - 8,350	129 - 156
LHPx-D151	1,530	11.3 - 92.2	1,700 - 12,550	129 - 173
LHPx-D152	1,530	16.6 - 122.4	2,600 - 18,050	140 - 169
LHPx-D201	2,030	11.5 - 105.7	1,700 - 14,900	134 - 165

On the initial performance, a tolerance of  $\pm 10\%$  is applicable, according to IEC. Technical data subject to change.

## AMSTERDAM RAI



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