

KONIC LED Pole-Top Light Fitting Series 544...

Applications:

544.. ABX and ... AB:

Residential areas, residential and side streets, low traffic areas, footpaths and cycle tracks etc.

544... R:

Promenades, public parks, pedestrian areas etc.

Design:

Housing: Die-cast aluminium, threepart, powder coated DB 702 (mica-iron paint, grey).

Lower section with electrical components, cable entry, plug-type device and cable

retainer for connection cable.

Connecting struts with cable feed-through.

Upper part with LED-modules and optics.

Cover: Acrylic glass (PMMA), frosted.

Light distribution: Asymmetrical extremely wide beam (ABX) or symmetrical circular beam (R).

Mounting system: 3 non-corrosive steel locking screws serve for fixation on straight pole end Ø of 76mm. Adapter (RZ 1) for pole end Ø of 60mm (see accessories).

Electrical design:

LED module: 4,000K or 3,000K, $R_a > 70$, service life $L_{90} > 100,000h$; Zhaga compliant

ECG: 220-240V, 50-60Hz, Surge voltage resistance 10kV, overload and short circuit protection.

Light control:

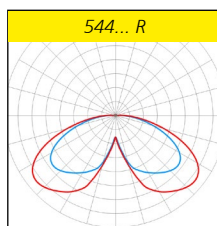
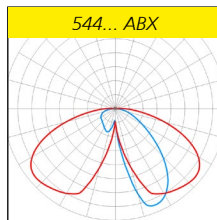
On request, the luminaires are also available with the following configurations:

Output reduction with control phase (LR): For reducing the luminous flux to 50% at times of low traffic density. Control phase (LST) required. Switching via control phase (LST = 230V: 100%; LST = 0V: 50%). Alternative dimming levels possible.

Output reduction without control phase (LA): Autarkic dimming. Reduced operation 50% between 22:00 and 4:00h CET or 23:00 and 5:00h CEST, also available with deviating times and with alternative dimming steps.

Digital dimming with DALI interface (DIMD)

Constant luminous flux function (CL): Luminous flux is kept on a constant level over the entire service life of the LED-modules.



Options:

– 2,200K, light colour 722

(approx. 23% lower luminous flux)

– 1,800K, light colour 518 „Amber“

(approx. 38% lower luminous flux)

– protection class I (SKI)

– optics asymmetrical wide beam (AB)

– optics for cycle track (RWX)

– seawater-resistant version (SWP)

– for connection to group or central

battery systems (ZB) or emergency

lighting networks respectively

– with increased luminous flux

– special painting in RAL colours (SL)

– assembled with attached cable to

desired length

Product highlights:

- ECG with surge voltage resistance, reliable due to overload and short circuit protection
- optimized thermal management due to direct adaption of the LED-modules to the die-cast aluminium housing, large cooling surface, excellent heat dissipation
- long-lasting, corrosion resistant aluminium housing with plain surface
- optimal light distribution due to highly efficient lens optics
- homogeneous illumination due to the Multi-Layer-Technology i.e. every individual LED illuminates the whole surface, the light curves of the individual LEDs are overlapping.
- good glare limitation due to frosted cover
- easy to install, to maintain and to retrofit
 - removable upper part of the housing allows time- and cost-saving mounting, mains connection terminal within the supporting section
 - fast maintenance due to an easily interchangeable gear-tray system (modular concept) within the supporting section, ECG can be replaced on-site
 - upgrades or converts in regards to technical development of the LED without problems by change of the upper part of the housing, after the change of the LED-modules the upper part of the housing can be used again
- sustainable, components interchangeable
- future proof by using standardized LED-modules (Zhaga)

Properties, limitations and details for controlling LED-light fittings:

See "Technical Supplement"

All data are correct at the time of printing. Actual technical data can be found under www.schuch.de.

Article No.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Weight [kg] (without packing material)
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544... ABX

IP65

Wind
load area
A = 0,07m²

asymmetrical extremely wide beam

colour temperature 4.000K (light colour 740)

54400 0001	544 0801ABX	9	1.290	143	9,5
54400 0002	544 0802ABX	13	1.760	135	9,5
54400 0003	544 0803ABX	18	2.380	132	9,5
54400 0004	544 1601ABX	17	2.570	151	9,6
54400 0005	544 1602ABX	25	3.490	140	9,6
54400 0006	544 1603ABX	35	4.730	135	9,6
54400 0007	544 2401ABX	26	3.860	148	9,7
54400 0008	544 2402ABX	37	5.240	142	9,7
54400 0009	544 2403ABX	53	7.070	133	9,7

colour temperature 3.000K (light colour 730)

54400 0045	544 0801ABX 730	9	1.210	134	9,5
54400 0013	544 0802ABX 730	13	1.650	127	9,5
54400 0010	544 0803ABX 730	18	2.240	124	9,5
54400 0020	544 1601ABX 730	17	2.420	142	9,6
54400 0015	544 1602ABX 730	25	3.290	132	9,6
54400 0114	544 1603ABX 730	35	4.450	127	9,6
54400 0021	544 2401ABX 730	26	3.630	140	9,7
54400 0043	544 2402ABX 730	37	4.930	133	9,7
54400 0011	544 2403ABX 730	53	6.650	125	9,7

544... R

IP65

Wind
load area
A = 0,07m²

symmetrical circular beam

colour temperature 4.000K (light colour 740)

54400 0201	544 0801R	9	1.290	143	9,5
54400 0202	544 0802R	13	1.760	135	9,5
54400 0203	544 0803R	18	2.380	132	9,5
54400 0204	544 1601R	17	2.570	151	9,6
54400 0205	544 1602R	25	3.490	140	9,6
54400 0206	544 1603R	35	4.730	135	9,6
54400 0207	544 2401R	26	3.860	148	9,7
54400 0208	544 2402R	37	5.240	142	9,7
54400 0209	544 2403R	53	7.070	133	9,7

colour temperature 3.000K (light colour 730)

54400 0218	544 0801R 730	9	1.210	134	9,5
54400 0219	544 0802R 730	13	1.650	127	9,5
54400 0210	544 0803R 730	18	2.240	124	9,5
54400 0046	544 1601R 730	17	2.420	142	9,6
54400 0112	544 1602R 730	25	3.290	132	9,6
54400 0115	544 1603R 730	35	4.450	127	9,6
54400 0216	544 2401R 730	26	3.630	140	9,7
54400 0220	544 2402R 730	37	4.930	133	9,7
54400 0215	544 2403R 730	53	6.650	125	9,7

! Also available with output reduction (LR / LA) or constant luminous flux function (CL) as well as combinations of these functions (CL LR / CL LA).



Accessories / Spare Parts

Article No.	Type	
90544 9000	ABD 544	spare glass PMMA frosted
90113 0016	HA 08/L25 AB VS	backside light shielding for 544 08..
90113 0017	HA 16/L50 AB VS	backside light shielding for 544 16..
90113 0018	HA 24/L75 AB VS	backside light shielding for 544 24..
90113 0019	HA 32/L100 AB VS	backside light shielding for 544 32..