



# BollPaq NL2004

## Die-Cast Aluminium Housing



### GENERAL INFORMATION

Mounting Module	Post top entry(Center) Post top entry(Asymmetrical)
Operating Temperature	-40°C / +55°C
Storage Temperature	-40°C / +80°C
Glass Mounting Options	Capsule mounting system
LED Modules	Removable / Replaceable optical unit
Lens Options	COL 1530 (standard) Project-specific lens selection
Main Reference Company Standards	EN 60598-1, EN 60598-2-1, EN 62471, EN 60068-2-11, EN60068-2-52, ISO9227, ASTMB117, ASTM D3359-78, ISO 4628-2, ISO 4628-4, EN 60529, EN 62262, ANSIC136.10-2017, ANSI C136.2-2018, EN 62031, IEC 62384, ASTM D3359, EN ISO 2409, IES LM 80-15, IES LM 82-12, IES LM 84,14, IES LM 85-14, IES TM 21-11, ISO9001, ISO14001, ISO18001, ISO5001, TURKAK

### HOUSING AND MATERIALS

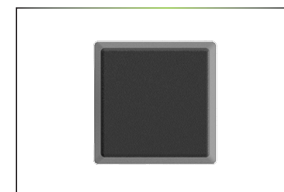
Housing	Non corrosive high pressure die-cast aluminium
Optic	PMMA or PC
Gasket	Silicon or polyurethane without junction points.
Housing Finish	UNI EN1706 powder painted
Refractor	Tempered glass min. 4mm high transparency UV resistant (optional)
Cable Gland	IP66 ,Plastic PC9, IP67 (optional), IP68 (optional)
Standard Colour	RAL7021 Metallic
Tightness Level	IP66, IP67 (optional), IP68 (optional)
Impact Housing Resistance	IK10 (20 J)
Impact Glass Resistance	IK08 (5 J), IK09 (optional) (10 J), IK10 (optional) (20 J)
Vibration Test	Compliant with modified IEC 68-2-6 (0.5G), ANSI C136.31 (3G-5G)

### ELECTRICAL INFORMATION

Electrical Class	Class I, Class II (optional)
Nominal Voltage	220-240V 50 / 60 Hz EU 110-277V 50 / 60 Hz (optional) NORTH AMERICA
Led Current	350mA, 500mA, 700 mA , 925 mA, 1050 mA
Power Factor	≥0.9 (at full load)
Driver	Constant current, thermal protected, voltage regulated, harmonic filter protection
Control system	On-off (standard), Bluetooth, DALI, 1-10V DIM, stand alone automation
Main connection	For cable max section 2,5 mm2 Outgoing cable H05RN-F 2/3/5 x 1,5 mm2 Length on request.(optional)
Electromagnetic compatibility (EMC)	IEC 61000, EN 55015, IEC 61000-3-2, IEC 61000-4-5, IEC 61547, IEC 61000-3-3, IEC 61000-4-2, IEC 61000-2-2, IEC 61000-4-11, IEC 61643-11

### OPTICAL INFORMATION

Led colour temperature	2700K (warm white), 3000K (warm white), 4000K (neutral white) (standard), 5000K (cool white), 5700K (cool white), 6500K (cool white), Other (amber, blue, green, red)
Colour rendering index (CRI)	CRI ≥70, CRI ≥80 (optional), CRI ≥90 (optional)
Upward light output ratio	0%
Photobiological safety class	IEC 62471
Testing standard	LM 79-19 , EN 13032-1 (all measurements in ISO17025 accredited laboratory)
Lifetime of the LED's	Tq= 25 °, 65mA >232.000h - L70 Tq= 55 °, 65mA >102.000h - L70



# BollPaq NL2004

## Die-Cast Aluminium Housing



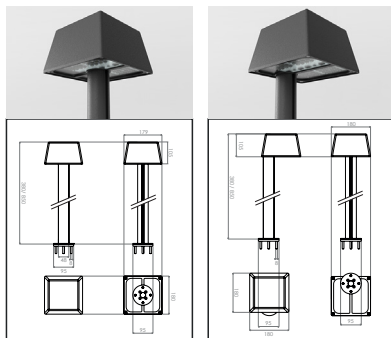
### BollPaq CL2004 Center

Number of Power LED's / Rating / Current	Luminaire Output Flux (lm)		W (mm)	L (mm)	h (mm)	Item / Box	Average Weight (kg)	Order Code	System Lumen / W (lm)	
	max.	min.							max.	min.
8 / 13W - 500mA	2145	1625	180	247	380/850	1	2.30	N2004BC-LED0013NW-ECG	165	125
8 / 15W - 600mA	2475	1875	180	247	380/850	1	2.30	N2004BC-LED0015NW-ECG	165	125
8 / 18W - 700mA	2970	2250	180	247	380/850	1	2.30	N2004BC-LED0018NW-ECG	165	125

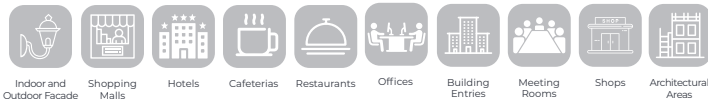
### BollPaq CL2004 Asymmetrical

Number of Power LED's / Rating / Current	Luminaire Output Flux (lm)		W (mm)	L (mm)	h (mm)	Item / Box	Average Weight (kg)	Order Code	System Lumen / W (lm)	
	max.	min.							max.	min.
8 / 13W - 500mA	2145	1625	180	247	380/850	1	2.30	N2004BA-LED0013NW-ECG	165	125
8 / 15W - 600mA	2475	1875	180	247	380/850	1	2.30	N2004BA-LED0015NW-ECG	165	125
8 / 18W - 700mA	2970	2250	180	247	380/850	1	2.30	N2004BA-LED0018NW-ECG	165	125

Depending on the luminaire configuration. For more details, please contact us. Tolerance on LED flux is +/-7% and on total luminaire power +/- 5%.



### Main Applications



[www.noral.de](http://www.noral.de)  
[noral@noral.de](mailto:noral@noral.de)

+49 4025 467 12 32

Noral GmbH reserve the right to modify design and/or production characteristics of their products. photographs and data used in this catalogue are for illustrative purposes are not binding on the company.

The copying or reproduction, in part or in full, of any descriptions, technical data drawings or photographs shown in this catalogue is expressly forbidden.

