

LED Module COLOSSUS

Technical Data

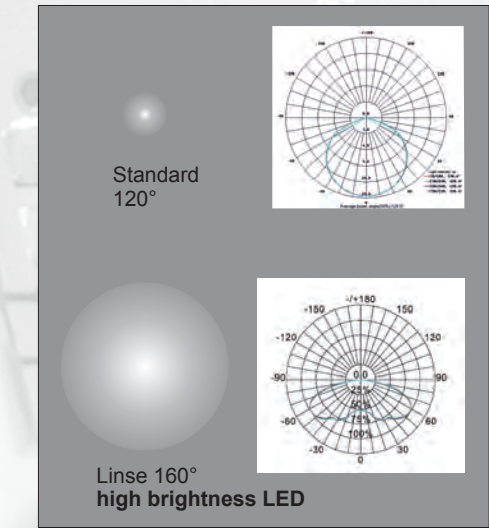


Module: WA-IP-HP9-01W65K

The perfect solution for retrofitting fluorescent based Light-boxes with energy efficient LED technology!

- Wide beam angle lens
- Simple and quick installation
- Colossal brightness
- Constant current controlled
- High quality Al housing and heatsink
- High ingress protection (IP65)
- Professional design
- Low installation depth
- For large applications
- Outdoor rated
- COB technology
- Licensed patent protected LED
- Colossal Life (L70 = 50.000h)
- CE, UL

Beam angle & light distribution characteristics compared using a backlit acrylic sheet (topview):



Colossus LED Module

The COLOSSUS LED modules come equipped with an optical lens designed to increase the beam angle of the LED chip from 120° to 160°. Together with its enormous light-output of 550 Lumen/module it lets you achieve tremendous savings in both installation time and consequently cost.

Installation Comparison at 8" depth (Lightbox 39"x39"):

Using standard LED modules with 120° beam angle:

LED module (3 LED/module) @ 50lm/module
and C2C spacing of 5.5"
7 x 7 = 49 modules (2450lm)

Using Colossus LED modules with 160°

C2C spacing of 19.7"
2 x 2 = 4 modules (2200 Lumen)



12V
DC

CE

UL

RoHS

PWM

CONSTANT CURRENT
CONTROL

IP65

Technical Data

System type	flexible LED-chain
Colors	White 6.500°K , White 3.000°K
LED Type	COB (Chip on board)
Light Output	550 Lumen
Beam Angle	160°
Circuit Type	12V DC, Parallel
Power Consumption/Module	9,5W
Current Rating	790mA
Rated Life @ 25°C / 45% rF	50.000h
Ingress Protection	IP65
Control Options	dim- and toggle
Connection Options	Double sided tape, pop rivet
Operating Temperature	-25°C upto +60°C
Storage Temperature	-25°C upto +70°C
Dimensions (LxWxH)	80 x 62 x 8mm
Module Distance (C2C)	variable, max. 600mm
Minimum Order Quantity	10 modules
Cut Positions	every module
Max. no. Modules/branch	10 modules
Cable Length (module2module)	520mm

The modules need to be attached to metallic substrates such as sheet metal in order to guarantee proper heat dissipation!

Layout example for homogenous illumination:
(using a white banner)

C2C Spacing = Depth x 2...2.5

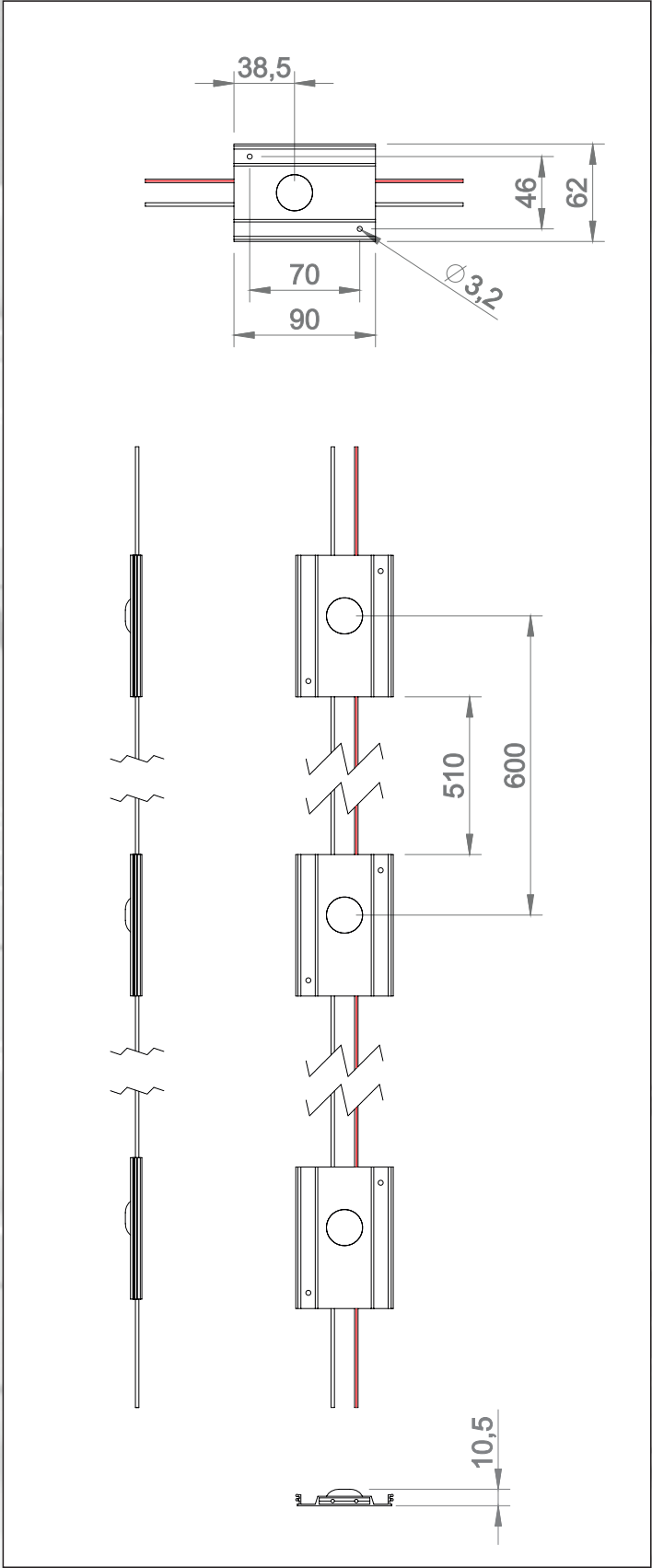
Installation depth - C2C spacing - luminance density using white banner:

Depth	Layout	Candela	Layout (i.e. 6.6' x 6.6')
12"	1.65" x 1.95"	ca. 400cd/m²	4 Rows with 3 modules = 12 Pcs.
10"	1.65" x 1.65"	ca. 450cd/m²	4 Rows with 4 modules = 16 Pcs.
7.8"	1.65" x 1.65"	ca. 500cd/m²	4 Rows with 4 modules = 16 Pcs.
7"	1.30" x 1.30"	ca. 570cd/m²	5 Rows with 5 modules = 25 Pcs.
6.2"	0.95" x 0.95"	ca. 650cd/m²	6 Rows with 6 modules = 36 Pcs.

All technical data subject to change without notice.

LED Module COLOSSUS

Technical Drawing



All technical data subject to change without notice.

LED Module EAGLE

Technical Data



- Very Bright - 35 / 70 / 105 Lumen
- 160° Lens for Wide Beam Angle
- High Efficiency - 97 Lumen/W
- Professional Design
- Compact Form
- Simple to Install
- Indoor and Outdoor Rated (IP65)
- Constant Current Regulation
- SMD Technology
- Licensed Patent Protected LED
- L70 Lifetime of 50.000h
- CE and UL Certified/Recognized



General Technical Information

System Type	flexible LED chain
Colors	White 7100°K
Cut Positions	every module
Ingress Protection	IP65
Circuit Type	12 V DC, Parallel
Beam Angle	160°
Input Voltage	11,4 - 15,0 V
Operating Temperature	-13°F to +140°F
Storage Temperature	-13°C to +158°F
Programmable Options	dim and toggle
Connections Options	Pop rivet or 3M Tape

Technical Data

Application

No. LED/Module
LED Distance
Power Consumption
Current
Module Dimensions (LxWxH)
Module Distance (C2C)
No. Modules/Package
No. Modules/Branch

WA-IP-01

Channel Letters < 16"
Light Boxes
Min. Depth > 2.5"

1x 3-Chip SMD 2835
-
0,36W
30 mA
1.7" x 0.6" x 0.39"
variable, max. 4.7"
50
75

WA-IP-02

Channel Letters > 16"
Light Boxes
Min. Depth > 3.3"

2x 3-Chip SMD 2835
1"
0,72W
60 mA
2" x 0.6" x 0.39"
variable, max. 5.9"
50
50

WA-IP-03

Channel Letters > 32"
Light Boxes
Min. Depth > 5"

3x 1-Chip SMD 2835
0.8"
1,2 W
100 mA
2.8" x 0.6" x 0.39"
variable, max. 7.63"
50
25



Lightoutput/Module
Order Number
Color Rendering Index

35 lm
WA-IP-01W71K120
Ra>75

70 lm
WA-IP-02W71K150
Ra>75

105 lm
WA-IP-03W71K194
Ra>75

Lightoutput/Module
Order Number

14 lm
WA-IP-01R120

28 lm
WA-IP-02R150

White
7100K

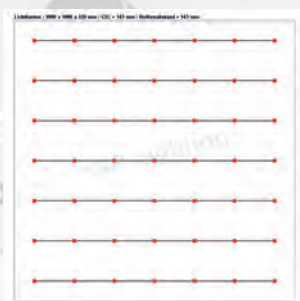
Red



Module with 120° Beam Angle:
Depth: 5"
10 x 10 = 100 Modules

Easier
Installation

WA-IP-02



with 160° Lens:
Depth: 5"
7 x 7 = 49 Modules

Easier
Installation

WA-IP-03

+ depth



with 160° Lens:
Depth: 6.3"
5 x 5 = 25 Modules

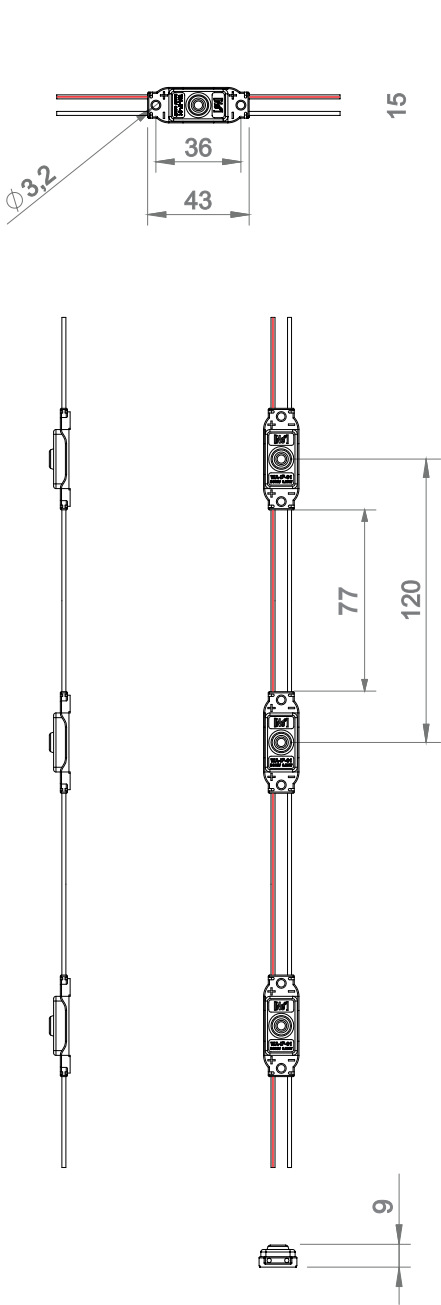
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LED Module EAGLE

Technical Drawing

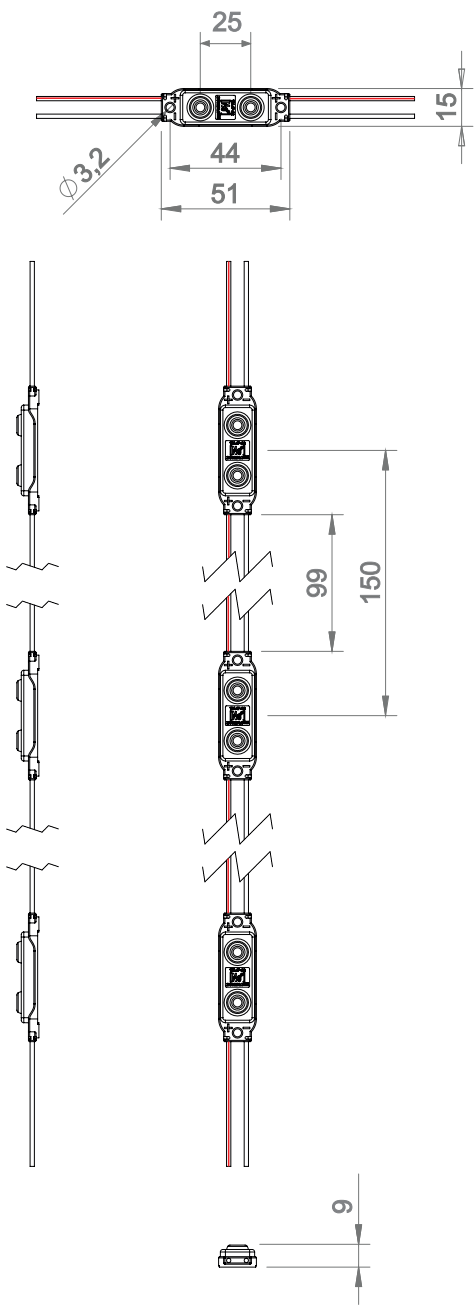
1 LED

WA-IP-01...



2 LED

WA-IP-02...



LED Module EAGLE

Technical Drawing

