BKM21.01

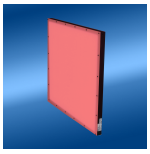
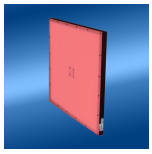
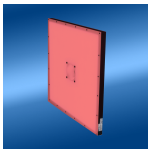
BKM SERIES

Large area backlights

Customizable area backlights specially designed for giving solution to those applications that can not be solved through BKL backlights. Customizable in increments of 50mm in both sides.

An option of adding a hole in the middle is available for all sizes (/H = 42mm /H1 = 65mm)

Technical specifications[1]

Lighting model	BKMaabb*A	BKMaabb*A/**H**	BKMaabb*A/**H1**
			
Dimensions	**Length (L)** = L1 + 32 **Width** = L2 + 32	**Length (L)** = L1 + 32 **Width** = L2 + 32 **Inner Hole** = 42	**Length (L)** = L1 + 32 **Width** = L2 + 32 **Inner Hole** = 65
Active surface	**Length (L)** = L1 **Width** = L2	**Length (L)** = L1 **Width** = L2	**Length (L)** = L1 **Width** = L2
Weight	N/A	N/A	N/A
IP rating	IP40	IP40	IP40
Mounting holes	(x8)M4↧6	(x8)M4↧6	(x8)M4↧6
Connection *(Type C/S)*	Pre-cabled with flying leads 2X0.5mm² Length=3m BN = +24V ±3% BU = 0V	Pre-cabled with flying leads 2X0.5mm² Length=3m BN = +24V ±3% BU = 0V	Pre-cabled with flying leads 2X0.5mm² Length=3m BN = +24V ±3% BU = 0V
Modifiers[2]		H Modifier integrated (45mm hole)	H1 Modifier integrated (62mm hole)
Accessories[3]			
iBlueDrive tech.	NO	NO	NO

* Lighting model = bb KMaabbA
L1 = aa x 10 mm
L2 = bb x 10 mm

(*) Customizable lighting system composed by increments of 50mm in any of its sides. The required dimension for each application is assembled preserving light homogeneity. The lighting model name will depend on its length and width as it is shown below:

Lighting model	L1 = Active surface Length	L2 = Active surface Width
BKM4060A	40 x 10 = 400 mm	60 x 10 = 600 mm
BKM3575A	35 x 10 = 350 mm	75 x 10 = 750 mm
BKMaabbA	**aa x 10 = L1 mm**	**bb x 10 = L2 mm**

Instantaneous consumption[4] (max.)

Lighting model		BKMaabb*A	BKMaabb*A/H	BKMaabb*A/H1	*WT
TYPE C 24VDC	B	7.6W x (aa x bb /100)	7.6W x (aa x bb /100) - 1.9W	7.6W x (aa x bb /100) - 2.1W	-470C
	G	7.6W x (aa x bb /100)	7.6W x (aa x bb /100) - 1.9W	7.6W x (aa x bb /100) - 2.1W	-525C
	R	4.2W x (aa x bb /100)	4.2W x (aa x bb /100) - 1.9W	4.2W x (aa x bb /100) - 2.1W	-630C
	i	2.1W x (aa x bb /100)	2.1W x (aa x bb /100) - 1.9W	2.1W x (aa x bb /100) - 2.1W	-850C
	W	7.6W x (aa x bb /100)	7.6W x (aa x bb /100) - 1.9W	7.6W x (aa x bb /100) - 2.1W	-W00C
TYPE P		No 'Type P' standard LED lighting systems in this series			
TYPE S Dmax= 1/20 Ton max= 2ms	B	34W x (aa x bb /100)	34W x (aa x bb /100) - 1.9W	34W x (aa x bb /100) - 2.1W	-470S
	G	34W x (aa x bb /100)	34W x (aa x bb /100) - 1.9W	34W x (aa x bb /100) - 2.1W	-525S
	R	34W x (aa x bb /100)	34W x (aa x bb /100) - 1.9W	34W x (aa x bb /100) - 2.1W	-630S
	i	21W x (aa x bb /100)	21W x (aa x bb /100) - 1.9W	21W x (aa x bb /100) - 2.1W	-850S
	W	34W x (aa x bb /100)	34W x (aa x bb /100) - 1.9W	34W x (aa x bb /100) - 2.1W	-W00S
TYPE i		No 'Type i' standard LED lighting systems in this series			

(1) Environmental specifications and iconography legend in additional annex Z1.4 and Z2 respectively.

(2) Prior to manufacturing optional modifications in standard lighting systems. Please, consult the code before ordering (additional annex Z2.1).

(3) Accessories are not-included. More information in accessories section.

(4) Bear in mind that consumption table is only to be used as a guide. To refer to real values, please, consult product label when purchasing.

***ORDER REFERENCE = Lighting model + WT / MODIFIERS**

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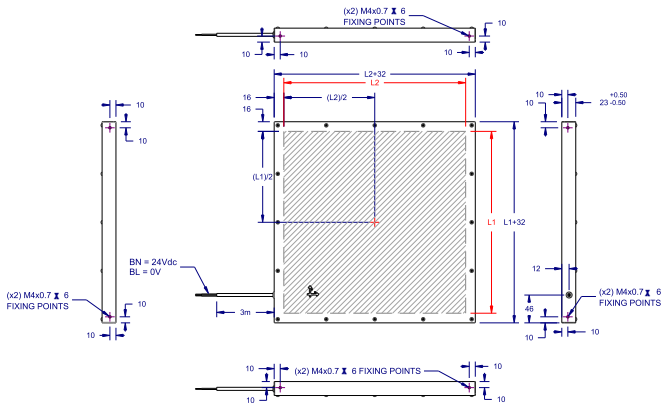
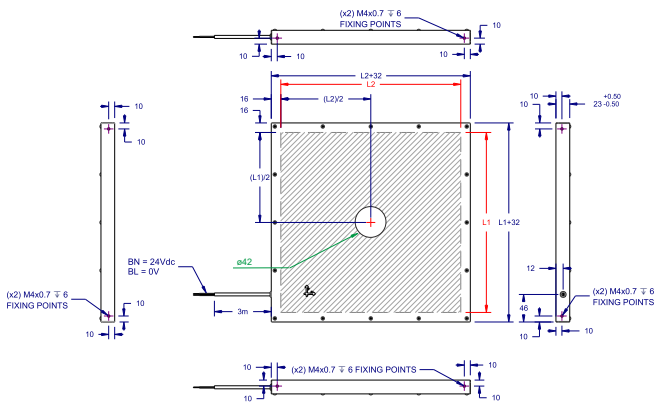
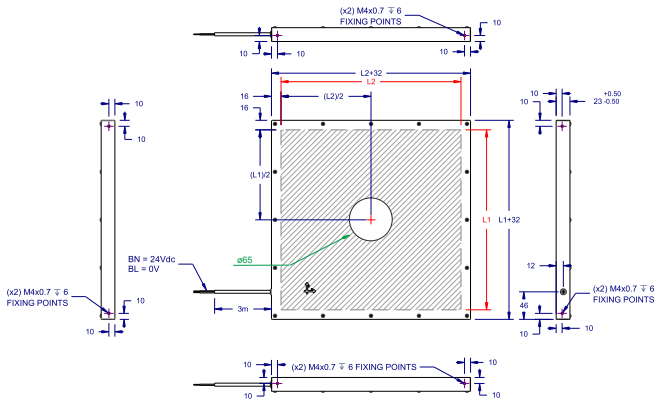
BKM SERIES



BKMaabbA-E01A

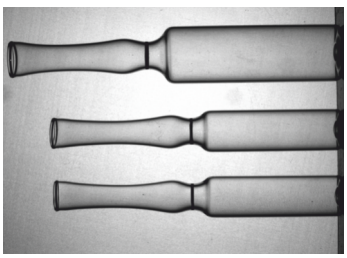


BKMaabbA/H-E01A

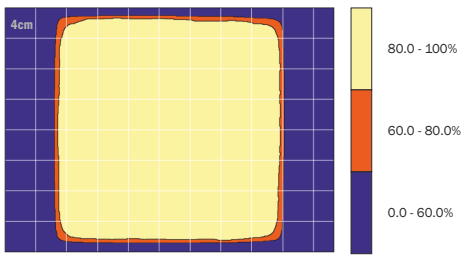


BKMaabbA/H1-E01A

All units in millimeters, if not indicated.



Example of BKM captured image



Brightness distribution of BKM array section at 630C

Z3.1 - Environmental Specifications

Max. Operating Humidity	85% non-condensing
Operating Temperature	0 - 40ºC
Storage Temperature	0 - 60ºC
Housing material	Anodized aluminium
Standards	CE, RoHS COMPLIANT

Z3.2 - Modifiers legend

icon	Description	Code
	Narrow angle of emission	**/AN**
	Medium angle of emission *(default)*	**/AM**
	Wide angle of emission	**/AW**
	Oval angle of emission = 23-24º (x) 17-18º (y)	**/AO**
	Diffuse emission	**/AD**
	Polarizer filter	**/FPL**
	Diffuser filter	**/FDR**
H	Backlight hole of 42mm	**/H**
H1	Backlight hole of 65mm	**/H1**
CC1	Dome hole of 46mm	**/CC1**
CC2	Dome hole of 40mm	**/CC2**
IPxx	IP Rating = IPxx = Ip65 / IP67	**/65 /67**
PNP	PNP input model	**/P**
f1	50mm focal Length	**/F1**
f2	150mm focal Length	**/F2**
f3	Infinite focal Length	**/F3**
XS	Lighting by sectors = 2 or 4 sectors	**/2S /4S**

Z3.3 - Accessories legend

icon	Description	Serie
	Power cable/s	**VCB, VCC, VCD Series**
	Other cable/s	**VCU, VCL**
	Strobe and RGB controller/s	**VST, VSC Series**
	Polarizer filter	**VPF, VPC**
	Diffuser filter	**VDF**
	Collimater filter on **x** axis	**VCFx**
	Collimater filter on **y** axis	**VCFy**
	Collimater filter on **xy** axis	**VCFxy**
	Darkfield converter	**VRF**
	Protector filter	**VPT**
	Heat dissipator	**VHD**
	Fixing bracket	**VBA, VBB, VBC Series**

Z3.4 - Technical drawings legend

icon	Description
	Optical axis
	Viewing window dimensions
	Lighting elements
	Light emission center
	Lighting surface dimensions

Z3.5 - Colours & Wavelegths legend

icon	Wavelength	Colour	Code
-u	365nm	UV-	**-365**
U	400nm	UV	**-400**
B	470nm	BLUE	**-470**
G	525nm	GREEN	**-525**
R	630nm	RED	**-630**
i	850nm/880nm	IR	**-850/-880**
W		WHITE	**-W00**
		RGB	**-RGB**

Z3.6 - Types of lighting legend

icon	Description
	Radial lighting
	'Darkfield' lighting effect. Low angle illumination
	Backlight illumination
	'Cloudy day' lighting effect
	'Bright field' lighting effect
	Projector lighting
	Axial lighting

Z3.7 - Types of light legend

icon	Description
	Direct light
	Diffuse light
	Ultra-diffuse light