

COBRA™ Max

LED Line Light



Now up
to 60% brighter



Extreme brightness illumination for linescan and web inspection

COBRA Max has been designed to deliver extreme brightness for your linescan application, delivering up to twice the intensity of our COBRA Slim product. Integrated optics have been optimised to deliver up to 13 million lux whilst retaining the slim and compact design of our COBRA Slim product.

ProPhotonix have recently enhanced the Chip-on-Board technology in COBRA Max and the product now delivers up to 60% more intensity than the previous version (up to 2600kLux without strobing).

COBRA Max utilises Chip-on Board technology to ensure extreme brightness and excellent uniformity. A wide range of wavelengths are available from UV to Visible and IR. COBRA Max also offers field adjustable optics allowing you to select the optimum lens position for your application. COBRA Max is modular and is available in any length up to 5 metres.

COBRA Max is also available in the new COBRA Flex configuration for applications where space is restricted.



Key Features

- Now up to 60% brighter (2600kLux)
- Extreme brightness: Up to X2 intensity of COBRA Slim
- Slim & Compact Design
- Field adjustable focusing distance & diffusers
- Available on all standard configurations of COBRA Slim and COBRA Flex
- Wavelengths from UV to Visible & IR

Options Available

- Strobing function available for even higher intensities, up to 13 million Lux.
- Onboard Ethernet control

Key Applications

Web and linescan inspection of:

- Foil
- Paper
- Plastic film
- Currency
- PCBs
- Glass
- Semiconductors
- Flat panel displays

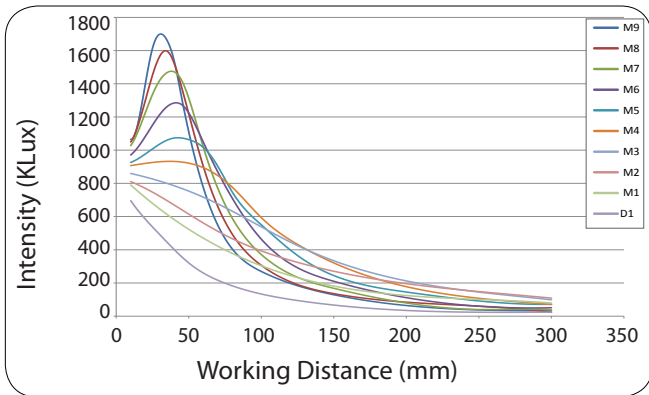
Maximum Intensity (kLux)¹

	Convection Cooled		Fan Cooled	
	COBRA Slim	COBRA Max	COBRA Slim	COBRA Max
Red	273	540	826	1740
White	853	1402	1500	2615

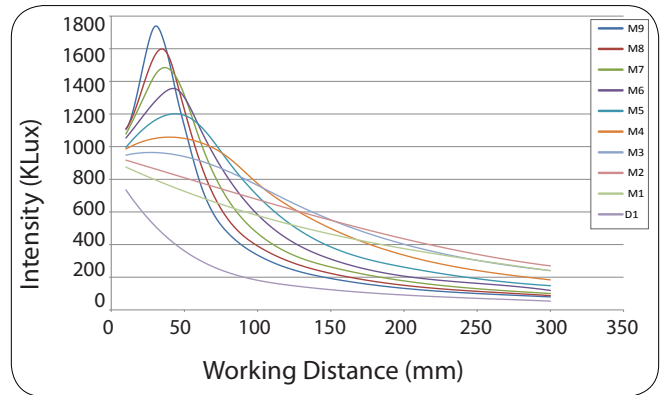
¹ Measured values are for continuous wave S9/M9 units, ≥ 300 mm in length, measured at the optimal working distance.

COBRA Max RED - Illumination Characteristics

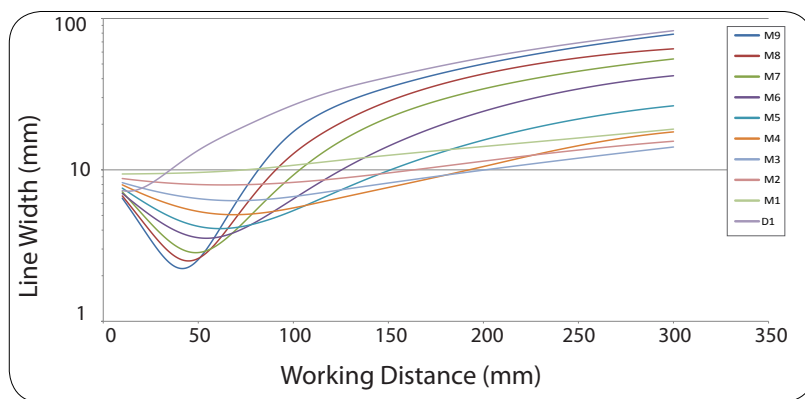
Intensity versus Working Distance (100mm unit) Red



Intensity versus Working Distance (300mm unit) Red

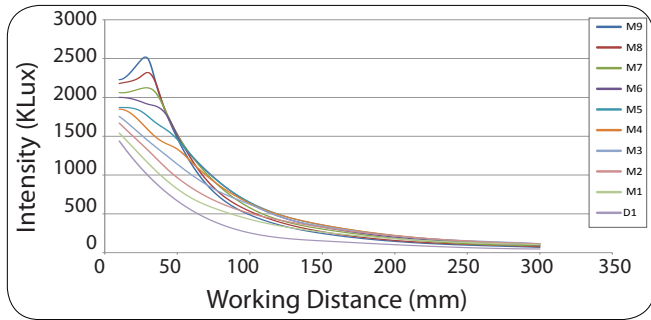


Line Width versus Working distance - Red

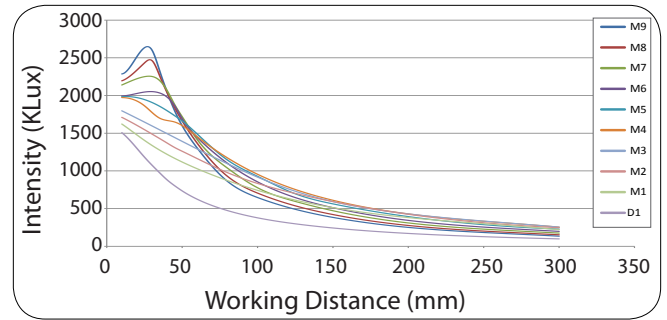


COBRA Max White - Illumination Characteristics

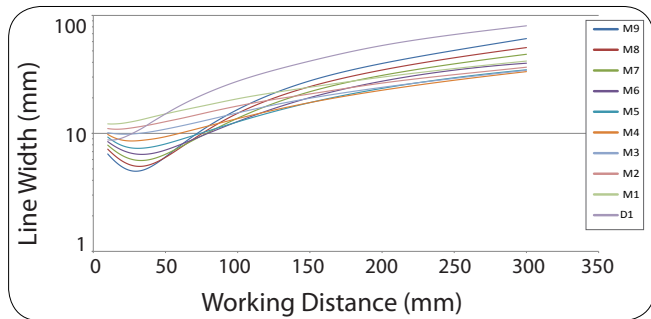
Intensity versus Working Distance
(100mm unit) White



Intensity versus Working Distance
(300mm unit) White



Line Width versus Working Distance White



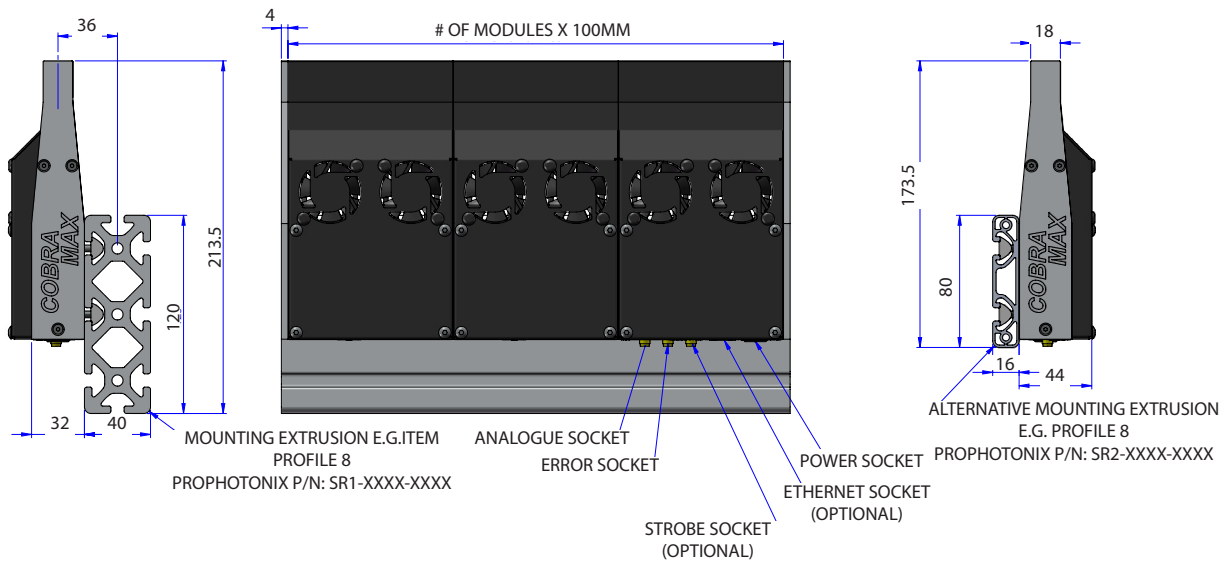
Part Numbers

Cooling		Configuration		Standard Wavelengths (nm)		Length (mm)	Lens Type ⁽⁶⁾		Lens Position		Diffuser or Options	
C	Convection	IL	Error output & analogue control	0365	UV	0100	M	Max	0	No Lens	D0	No Diffuser
T	Fan	EL	IL Options + Ethernet Connector	0395	UV	↓			1	Closest to LEDs	D1	60:10 (Backlight)
		AL	EL Options + Strobe Capability	0470	Blue	0900			↓	Furthest from LEDs	D2	30:1
				0630	Red	1000			9		D3	
				0870	Near-IR	1100					↓	To Be Defined
				0000	White						D9	
				0RGB	Red, Green & Blue	↓					F1-9	Additional Focusing Lens Option
						6000						

365-1500 nm custom wavelengths available

(6) Non-standard lenses are also available on request

Dimensional Diagram



For all COBRA Max longer than 100mm, standard Item brand aluminium extrusion Profile 8 is used for rigidly aligning and connecting the 100mm COBRA Max modules together. The extrusion is also used for mounting the light in the machine. Two options are available (see dimensional specifications). To order your extrusion select the profile (SR1/SR2) - select the length of the COBRA Max (XXXX) - Decide on the length of rail required (XXXX)

(Note: the overall length of the COBRA is 8mm longer than its illuminated width)



Note: Other extrusion profile forms and dimensions available on request. Custom back plates also available on request. 100mm units do not require a mounting extrusion.

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