

LTLNM-1000-C-D-FC-W | DATASHEET

Modular LED line light, 1000mm length, collimated, diffuser, fan cooling, white



KEY ADVANTAGES

Emitting surface up 2 meters in 200 mm increments.

Flicker free for line scan applications.

3 types of projection lenses

Near field focusing (N), far field focusing (F), collimated (C).

Homogeneous beam for uniform illumination.

Built-in controller









LTLNM series are high power LED line illuminators designed for line scan applications. These lights are flicker-free and meet the needs of demanding applications with reduced exposure times (tens of μ s) ensuring very constant illumination and repeatable acquisition. Their modular design provides size flexibility without any compromise in terms of light uniformity.

SPECIFICATIONS

Lighting specifications

Modules		5
Illumination area length	(mm)	1000
Illumination area height	(mm)	20
Focusing		collimated
Optimal working distance	(mm)	10-200
Number of LEDs		240
Light color, peak wavelength		white, 6200 K
Spectral FWHM	(nm)	-
Illuminance ¹	(klux)	n.a.
Diffuser		yes

Electrical specifications

Supply voltage ²	(V)	24	
Current	(A)	15	
Power consumption	(W)	360	
Estimated MTBF ³	(hours)	> 20000	
Power connector		WEIPU SP2110/P2	
Power Cables	CBLT008 included		
I/O connector		M12, 5 pins	
I/O cables		CBLT009 included	

¹ Measured at minimum working distance

² ±2%

Mechanical specifications

Length	(mm)	1050.0
Width	(mm)	75.0
Height	(mm)	128.0
Mass	(g)	9500
Clamping system	4	x M10 threaded holes
Cooling method		fan

Environment

Operating temperature	(°C)	0-40
Storage temperature	(°C)	0-50
Operating relative humidity	(%)	20-85, non condensing
Installation		Indoor use only

Eye safety

COMPATIBLE PRODUCTS

Full list of compatible products available here.

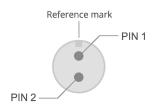


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³ Drop tp 50% intensity @ 25°C



POWER CONNECTOR PINOUT



Illuminator side. Front view

Pin	Description	Cable Color
1	Positive power supply (24V)	Brown
2	Negative power supply (GND)	Blue

LED color spectrum

600

Wavelength [nm]

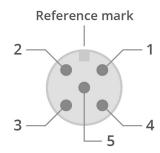
700

800

1 0.8 0.6 0.4 0.2 0.2

500

I/O CONNECTOR PINOUT



Illuminator side. Front view

Pin	Function	Description	Cable Color
1	Enable	Connect to a +24Vdc to turn the light ON	Brown
2	Fault	Internally pulled-up to +24Vdc	White
3	Signal GND	Internally connected to power GND	Blue
4	10V output	10V reference signal for dimming	Black
5	Dimming control	Voltage signal for dimming control	Green

ADDITIONAL INFO

400

