LTLNM-0800-C-D-FC-W │ DATASHEET

OPTO ENGINEERING

Modular LED line light, 800mm 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 μs) 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		4
Illumination area length	(mm)	800
Illumination area height	(mm)	20
Focusing		collimated
Optimal working distance	(mm)	10-200
Number of LEDs		192
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)	12
Power consumption	(W)	288
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%
[3] Drop tp 50% intensity @ 25°C

Mechanical specifications

Length	(mm)	850.0
Width	(mm)	75.0
Height	(mm)	128.0
Mass	(g)	7800
Clamping system		4x 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

Risk group (CEI EN 62471:2010)	Risk group 2

COMPATIBLE PRODUCTS

Full list of compatible products available *here*.

OPTICS	LIGHTING	CAMERAS	SOFTWARE	ACCESSORIES

A wide selection of innovative machine vision components.

POWER CONNECTOR PINOUT
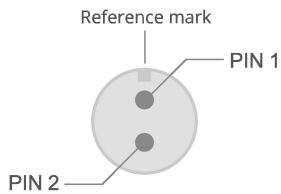
Illuminator side. Front view

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

LED color spectrum

I/O CONNECTOR PINOUT
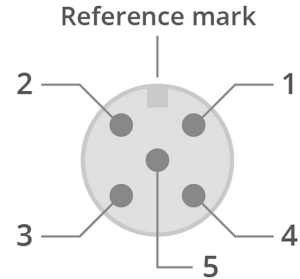
Illuminator side. Front view

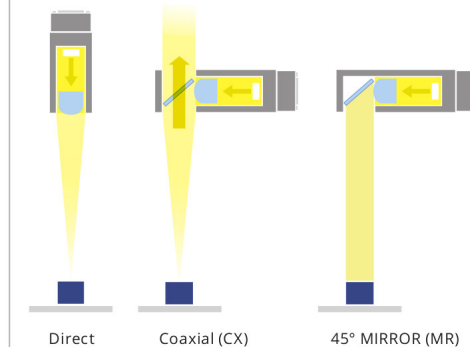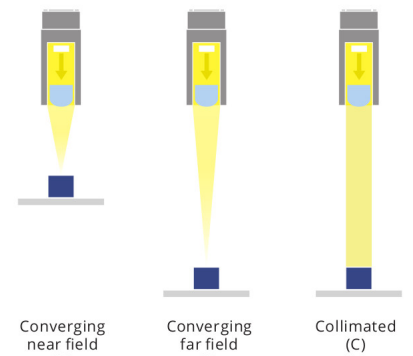| Pin	Function	Description	Cable Color
1	Enable	Connect to a +24Vdc to turn the light ON	Brown
2	Fault	Internally pulled-up to +24Vdc	White
3	Signal GND	Internally connected to power GND	Blue
4	10V output	10V reference signal for dimming	Black
5	Dimming control	Voltage signal for dimming control	Green
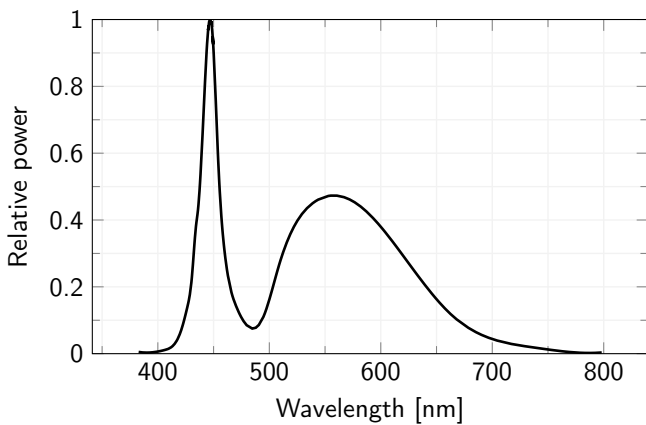
ADDITIONAL INFO

Lighting structure

cooling fans

with/without diffusion sheet (D)

focusing lens

WD

Type

Direct

Coaxial (CX)

45° MIRROR (MR)
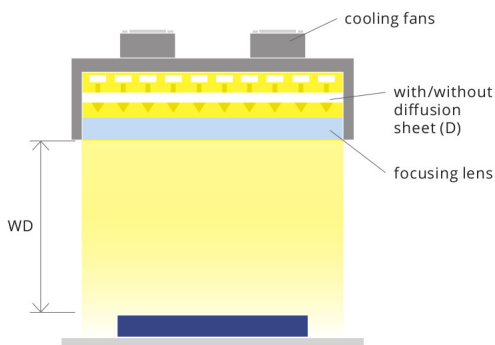
Projection lenses and focusing distances

Converging near field (N)

Converging far field (F)

Collimated (C)