ILLUMINATOR DATA-ID

LBRP-00-080-3-W-24V

Lighting Dimension

97.8
87.8
80
24 19.4 10
4X C'BORE M3
EMITTING AREA
24
18
CONNECTOR
50CM CABLE
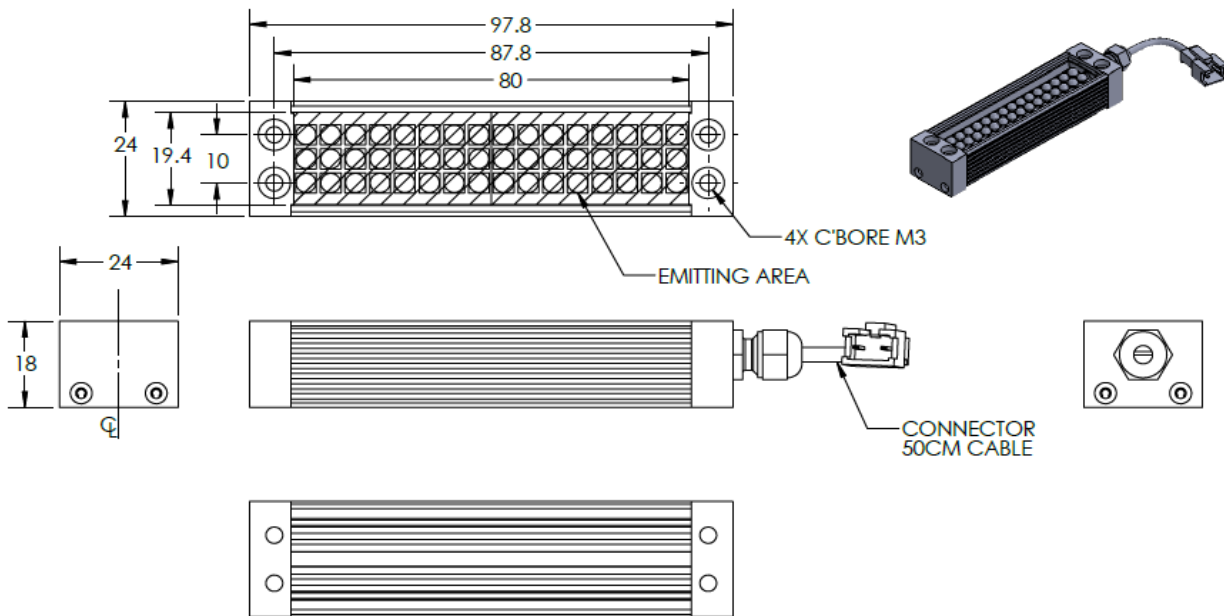
Mechanical Information	
Casing Material	Aluminium
Storage Temperature Range	Temp 0-45°C, Humidity 20-85%
Weight	80 g
Length / Outer Diameter	97.8 mm
Width / Inner Diameter	24 mm
Thickness / Height	18 mm

LBRP-00-080-3-W-24V

Optical Information				
Part Number		LBRP-00-080-3-W-24V		
LED Color		WHITE		
Wavelength	(nm)	* Refer to the Chromaticity Table Below		
Intensity (±15%)	(Lux)	17940	16060	15810
Working Distance	(mm)	80	90	100
Illumination (number of row)		3		
Illumination Active Area				
Active Length / Outer Diameter	(mm)	80		
Active Width / Inner Diameter	(mm)	19.4		
Emission angle	(deg.)	0		
Eye Safety Class (IEC62471)		EXEMPT		

*CHROMATICITY TABLE

X	0.296	0.287	0.307	0.311		X	0.311	0.307	0.33	0.33
Y	0.276	0.295	0.315	0.294		Y	0.294	0.315	0.339	0.318

Electrical Information		
Lighting Supply Voltage (constant voltage mode)		24V ± 2%
Continuous Current	(mA)	160
Power Consumption	(W)	3.84
Lighting casing temperature, Operating after 60 minutes	°C	60.6

Strobe Mode Specification		
Pulse Operation		YES
Max. Lighting Supply Voltage (Constant voltage power supply)	(V)	Pulsing at 24VDC to 48VDC, 0-10% Duty Cycle, Recommended at 36VDC
Pulse Current, (Max. 10msec) (Constant current power supply)	(mA)	480
Max. Trigger Pulse Duration	(msec)	10
Duty Cycle		0-10%

Additional Information		
Additional Cooling Method		Attached to machine part for better heat dissipation
Intensity Controller Selection		ANG, ST, SD and SDA Series
CE Conformity		YES
RoHS Compliance		YES

Connection				
Connector Type (Default):		JST SMR-03V		
Cable Length out from lighting :	(mm)	500		
Pin Configuration :		Pin	Signal	Cable Color
		1	LED +	RED
		2	N.C.	---
		3	LED -	WHITE

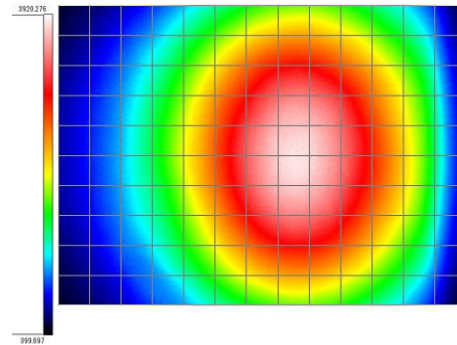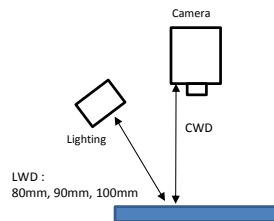| Application	
Illumination Type	Direct Illumination
Applicattion Use	General illumination, label inspection, character inspection, code recognition.

LBRP-00-080-3-W-24V

Uniform Graph (Relaive Irradiation Strength) - Representative pattern

Lens focal length, f = 0mm
CWD = 365mm
LWD = 80mm, 90mm, 100mm
Lighting angle: 45°

Tolerance %	L X W
10%	24 x 34
20%	40 x 54
30%	53 x 69
40%	65 x 83

Camera

CWD

Lighting

LWD :
80mm, 90mm, 100mm

3920.276

399.697

* 1 cell = 10mm x 10mm

VISION CONSULTANCY
MAKING THE UNSEEN VISIBLE

Thank you for downloading this document from
www.machine-vision-shop.com

If you have any questions, you need help composing the
right package for your application or do you want to order?

Feel free to contact us via e-mail at sales@vision-consultancy.nl or visit our webshop.

Our vision experts are happy to help you.

Natascha Overhof

Christian Crompvoets

VISION CONSULTANCY

Robert Schumandomein 2
6229 ES Maastricht
The Netherlands

+31 (0) 438 522 651

sales@vision-consultancy.nl
www.machine-vision-shop.com

*Scan me to visit
machine-vision-shop*