WIN THE BATTLE OF **BRIGHTNESS** VS **HOMOGENEITY** !

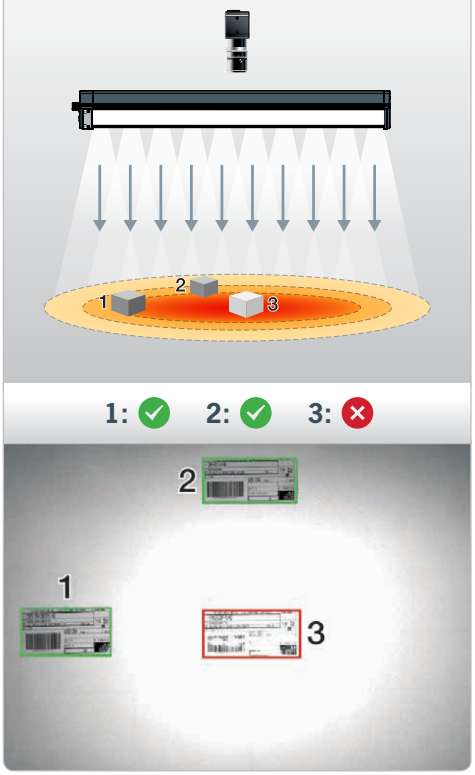
TPL VISION
Active LED solutions

EBAR Curve

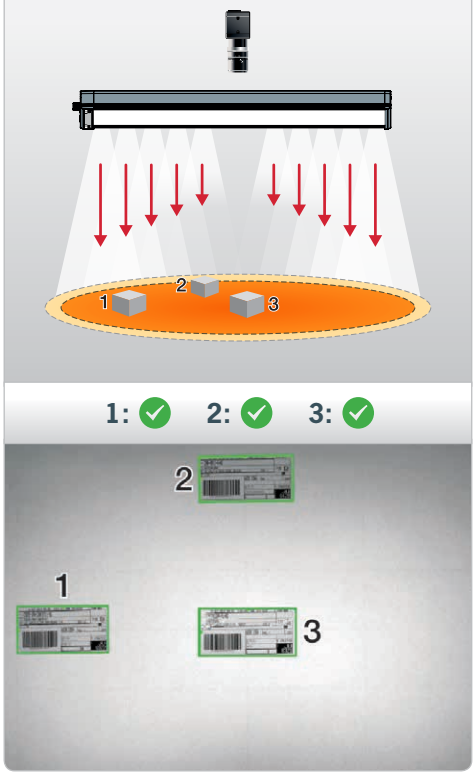
EASILY
ILLUMINATE
THE **ENTIRE**
FIELD OF VIEW

IP65
PROTECTION

WITH A STANDARD BAR LIGHT*

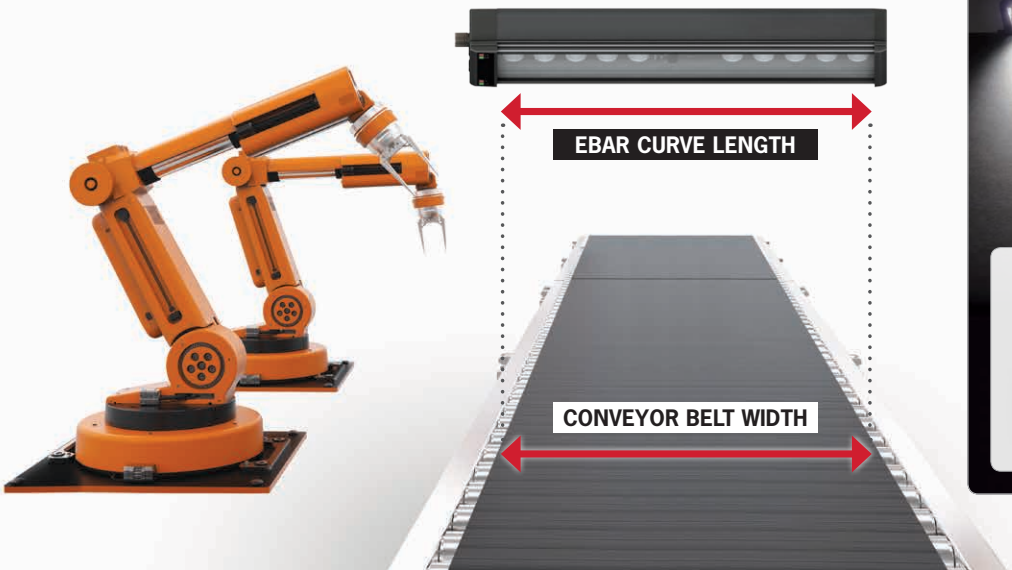


WITH A EBAR CURVE*



* Homogeneity perceived by the camera.

LENGTH OF EBAR CURVE = WIDTH OF CONVEYOR



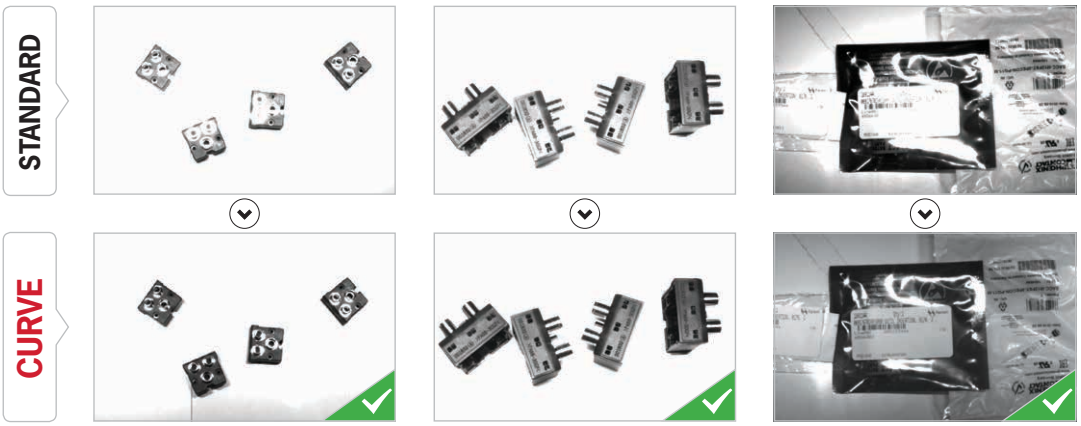
The EBAR Curve is a high power LED solution. It has been developed to ease the integration process and helps you achieve the best balance between brightness and homogeneity. The curve effect works by reducing the saturated light spot in the centre of a cameras Field of View (FoV). By reducing this spot, uniform illumination across the FoV can be achieved. This new development in machine vision illumination allows for smaller barlights to be used, giving you savings spatially and economically.

The EBAR Curve has manually adjustable Curve settings for increasing and decreasing the brightness of the centre LEDs to fine tune your results. We have given recommendations to follow for the working distance and the FoV that will be generated. The product will increase productivity and efficiency through time savings, high quality results and an increased FoV per barlight.

The selection process is simple, find your required FoV and follow the part configurator to select the best solution for you.

APPLICATION EXAMPLES:

- CODE READING
- PICK & PLACE
- QUALITY INSPECTION

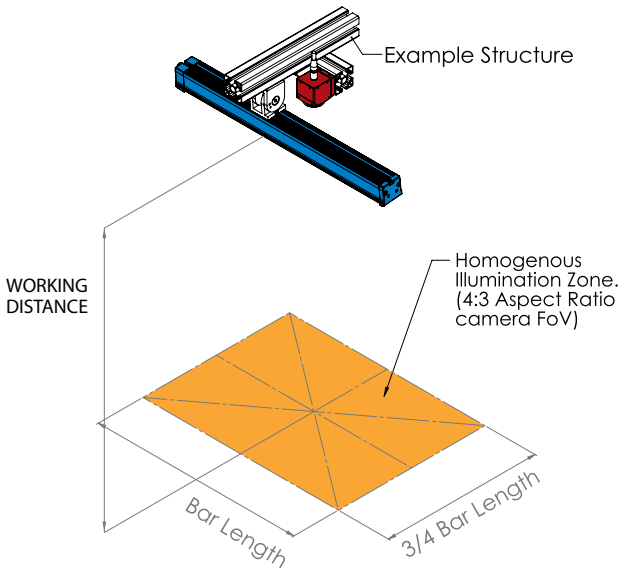


HOW TO SELECT THE CORRECT SIZE:

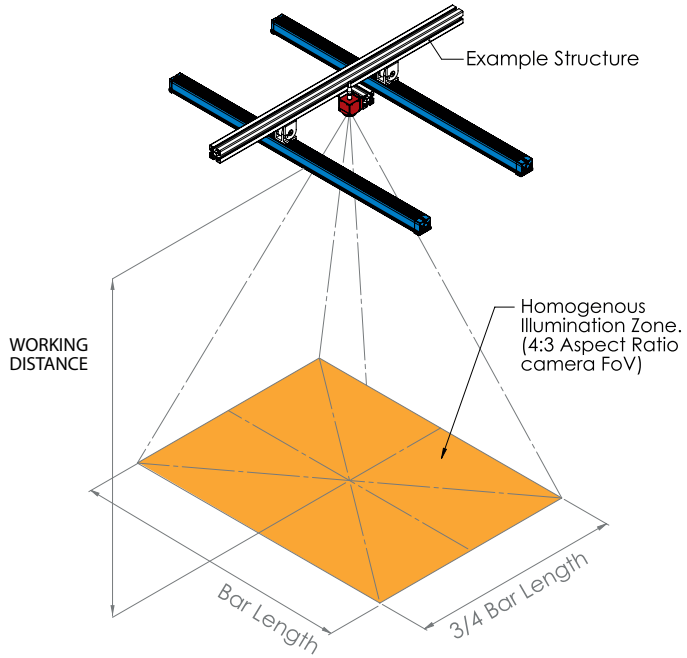
- FOV WIDTH = EBAR LENGTH
- WORKING DISTANCE = EBAR LENGTH **x 1.25**
- FOV DEPTH = EBAR LENGTH **x 0.75**

Recommended setup according to FOV dimensions:

FoV width < 600 mm



FoV width ≥ 600 mm



EBAR CURVE PART NUMBER CONFIGURATOR:

EBAR	VERSION	USEFUL DIMENSION	COLOUR	LENS/ OPTIC ANGLE
	C CURVE	200	WHI	17 ± 17°
		300	630	
		400	525	
		500	470	
		600*	850	
		800*		
		1000*		

EXAMPLE PART NUMBER:

EBAR Curve 300 mm white LED ± 17° lenses ➡ **EBAR-C-300-WHI-17**
EBAR Curve 500 mm red LED ± 17° lenses ➡ **EBAR-C-500-630-17**
EBAR Curve 800 mm blue LED ± 17° lenses ➡ **EBAR-C-800-470-17**

* 600, 800 and 1000 mm Bars require 2 bars to fill the full FoV.

DIFFUSORS:

DIFFUSER	BAR	DIMENSION
DT TRANSPARENT		200
DO OPAQUE		300
DS SATIN		400
POL POLARIZER		500
		600
		800
		1000

EXAMPLE PART NUMBER:

Transparent diffuser for EBAR Curve 300 mm:
➡ **DT-BAR-300**

Satin diffuser for EBAR Curve 600 mm:
➡ **DS-BAR-600**

MOUNTING DEVICES:

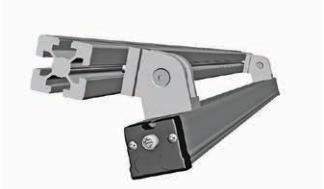
Horizontal mounting

Ref: TPL-MOUNT-BAR-H1

Vertical mounting

Ref: TPL-MOUNT-BAR-V1

SWIVEL MOUNT



Ref: SWIVEL-MOUNT

BMOUNT

Ref: BMOUNT

Fixing bracket

Ref: TPL-MOUNT-BAR-SQUARE1

CABLES:

M12 female 5 pins cable

2 meters	Ref: C-M12-5P-2M
5 meters	Ref: C-M12-5P-5M
10 meters	Ref: C-M12-5P-10M

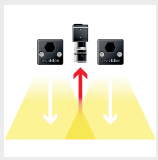
PROTECTION:

Safety glasses

Ref: EYE-PROTECT

LIGHTING METHODS

DIRECT



TECHNICAL SPECIFICATIONS:

	200	300	400	500	600	800	1000
Electronics							
Power supply	24 VDC ±10%						
Max. Consumption (W)	11	16	22	26.5	27	41	54
Modes	CW and Strobe (Trigger PNP or NPN)						
Overdrive	No						
Maximum rising time	15 µs						
Maximum falling time	15 µs						
Wiring	1x male M12 – 5 poles						
Colours							
Colours	White ; 470 ; 525 ; 630 ; 850						
Mechanics							
Useful length (mm)	200	300	400	500	600	800	1000
Overall length (mm)	233	333	433	533	633	833	1033
Width x Height (mm)	47.6 x 45						
Body materials	Aluminum						
Window	Transparent protective window						
Fixing	2 M4 nuts to insert in the groove located on the back of the light or directly use M4 screws						
Environment							
Operating temperature	-10° to +40°C / 80% of humidity without condensation No thermal shock (max temperature variation: 10°C in 24h)						
Storage temperature	-20° to +60°C / 80% of humidity without condensation No thermal shock (max temperature variation: 10°C in 24h)						
IP protection	IP 65						
Labels	RoHS-CE-WEEE						

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Other available documents :

- PDF, DWG, DXF, STEP DRAWINGS (on demand)
- USER GUIDE

EBAR CURVE

RoHS COMPLIANT CE