

Industrial LED Light Bar

WLB32

The future is bright with Banner's industrial LED lighting.

The WLB32 utilizes advanced LED lighting technology providing high-quality and **maintenance-free** industrial lighting solutions that will last for years.

- **High brightness** with an even light output for a **no-glare** glow
- Robust metal housing, shatterproof light cover and **easy installation**
- Ideal for **work stations**, machine lighting, control cabinets and manufacturing lines



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Industrial LED Light Bar

Operating Voltage	12 to 30 V dc (dc models) 90 to 264 V ac (ac models)
Lumen Output	≈ 600/ft
LED Lifetime	50,000 hours
Color Temperature	Daylight White — 5000 k
Switch	High = 100% intensity Low = 50% intensity
Environmental Rating	IP50 — Dry location only
Certifications	pending



Specifications



Family	Power	Cascadable	Lighted Length (mm)	ON/OFF Switch	Connector	Plug Type (AC Models)
WLB32	**Z**	**C**	**285**	**PB**	**QM**	**B**
	Z = AC **Blank** = DC	**C** = Cascadable	**285** = 1' **570** = 2' **850** = 3' **1130** = 4'	**PB** = Hi/Low/OFF **Blank** = No switch	**Blank** = Cable (dc) **Q** = Euro QD (dc) **QM** = AC *QD models require mating cordset*	**B** = North & Central America, Japan, Taiwan **D** = India, Sri Lanka, Nepal, Namibia **EF** = France, Belgium, Slovakia, Tunisia, Germany, Austria, Netherlands, Spain, S. Korea **G** = UK, Ireland, Cyprus, Malta, Malaysia, Singapore, Hong Kong, Vietnam **I** = Australia, New Zealand, Papua New Guinea, Argentina, China **N** = Brazil, South Africa **C** = AC connector with flying leads **Blank** = No power cord

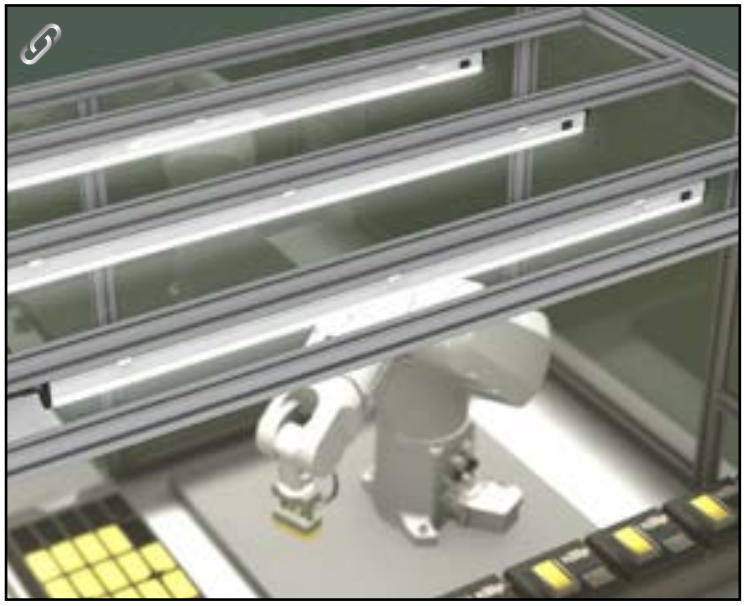
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PN 177694 rev. B

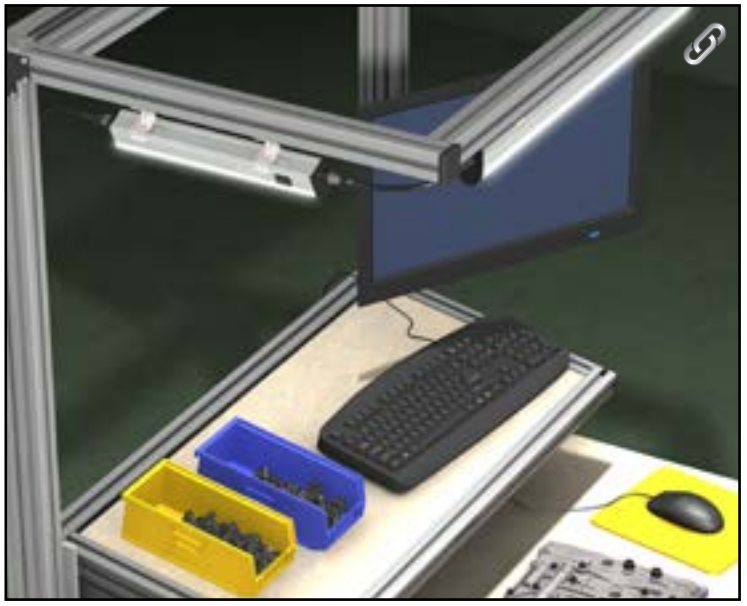


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Applications

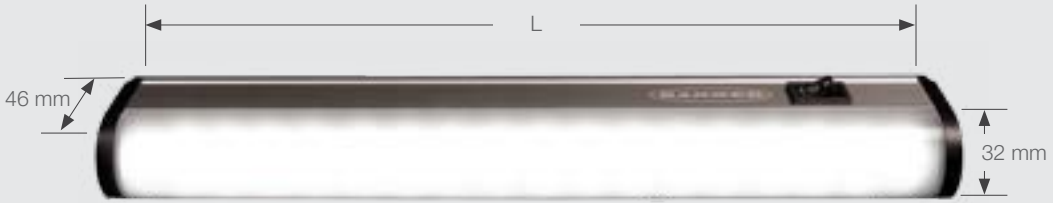


Robotic Cell Illumination



Work Station Lighting

Dimensions



Lighted Length (L)	
285 mm = 1'	850 mm = 3'
570 mm = 2'	1130 mm = 4'

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AC Models

Operating Voltage

90 to 264 V ac (50 or 60 Hz)
Power factor >0.95 on high setting at 120 V ac

Supply Current

Light Length (mm)	Max Current Draw (A) @ 90 V ac	Typical Current Draw (A)	
		120 V ac	230 V ac
285	0.125	0.075	0.045
580	0.250	0.150	0.080
850	0.375	0.225	0.115
1130	0.500	0.300	0.150

Light Characteristics

Color: Daylight white
Color temperature (CCT): 5000K (±300K)
Lumen output: 600 (±5%) per foot, typical at 25 °C (77 °F)
CRI: 85 typical

LED Lifetime

Lumen Maintenance - L70
When operating within specifications, output will decrease less than 30% after 50,000 hours.

Push Button

II = 100% light intensity
I = 50% light intensity
O = Standby

Environmental Rating

IEC IP50

Operating Temperature

–25 °C to 45 °C (–13 °F to 113 °F)

Test Data

LM-79, LM-80, TM-21

Certifications

Approval Pending

Application Note

When connecting cascadable lights in series, do not exceed the maximum unit limit of 10, regardless of light size, and do not exceed a maximum wiring distance of 100 m (328 ft)

DC Models

Operating Voltage

12 to 30 V dc
Use only with a suitable Class 2 power supply

Supply Current

Light Length (mm)	Max Current Draw (A)	Typical Current Draw (A)		
		12 V dc	24 V dc	30 V dc
285	.08	0.66	0.31	0.24
580	1.6	1.36	0.62	0.48
850	2.4	2.19	0.93	0.72
1130	3.2	3.02	1.24	0.96

Light Characteristics

Color: Daylight white
Color temperature (CCT): 5000K (±300K)
Lumen output: 600 (±5%) per foot, typical at 25 °C (77 °F)
CRI: 85 typical

LED Lifetime

Lumen Maintenance - L70
When operating within specifications, output will decrease less than 30% after 50,000 hours.

Push Button

II = 100% light intensity
I = 50% light intensity
O = OFF

Environmental Rating

IEC IP50

Operating Temperature

–25 °C to 70 °C (–13 °F to 158 °F)
Light output begins to decrease above 50 °C (122 °F) and will be approximately 65% of max intensity at 60 °C (140 °F) and 30% of max intensity at 70 °C (158 °F)

Test Data

LM-79, LM-80, TM-21

Certifications

CE Other Approvals Pending

Application Note

When connecting cascadable lights in series it is important not to exceed the maximum current limitation of 4 Amps.

Maximum length of light at 12 V dc: 1.4 m (4.6 ft)
Maximum length of light at 24 V dc: 3.0 m (9.8 ft)
Maximum length of light at 30 V dc: 3.1 m (10.2 ft)

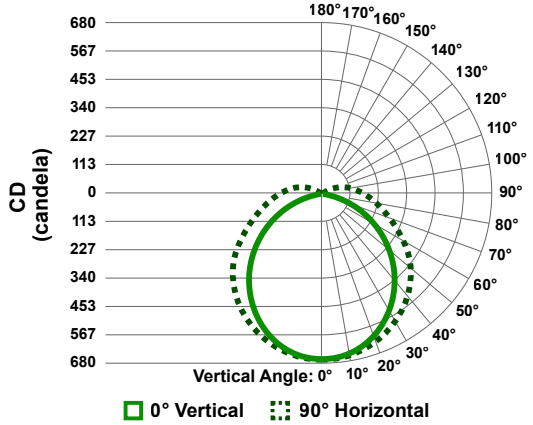
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Polar Candela Distribution

1130 mm Models



Illuminance at a Distance

285 mm Models

	Center Beam (lux)	Beam Width (m)	
		Vert.	Horiz.
0.2 m	6,203 lux	0.4 m	0.7 m
0.3 m	1,551 lux	0.8 m	1.4 m
0.5 m	689 lux	1.2 m	2.1 m
0.7 m	388 lux	1.6 m	2.8 m
0.8 m	248 lux	2.0 m	3.5 m
1.0 m	172 lux	2.4 m	4.2 m

Vertical Spread: 101.5°
Horizontal Spread: 128.8°

Illuminance at a Distance

570 mm Models

	Center Beam (lux)	Beam Width (m)	
		Vert.	Horiz.
0.2 m	12,539 lux	0.4 m	0.7 m
0.3 m	3,135 lux	0.8 m	1.4 m
0.5 m	1,393 lux	1.2 m	2.1 m
0.7 m	784 lux	1.6 m	2.7 m
0.8 m	502 lux	2.0 m	3.4 m
1.0 m	348 lux	2.4 m	4.1 m

Vertical Spread: 101.5°
Horizontal Spread: 128.2°

Illuminance at a Distance

850 mm Models

	Center Beam (lux)	Beam Width (m)	
		Vert.	Horiz.
0.2 m	18,040 lux	0.4 m	0.7 m
0.3 m	4,510 lux	0.8 m	1.4 m
0.5 m	2,004 lux	1.3 m	2.1 m
0.7 m	1,128 lux	1.7 m	2.9 m
0.8 m	722 lux	2.1 m	3.6 m
1.0 m	501 lux	2.5 m	4.3 m

Vertical Spread: 102.7°
Horizontal Spread: 130.1°

Illuminance at a Distance

1130 mm Models

	Center Beam (lux)	Beam Width (m)	
		Vert.	Horiz.
0.2 m	24,210 lux	0.4 m	0.7 m
0.3 m	6,053 lux	0.8 m	1.4 m
0.5 m	2,690 lux	1.3 m	2.1 m
0.7 m	1,513 lux	1.7 m	2.8 m
0.8 m	968 lux	2.1 m	3.5 m
1.0 m	673 lux	2.5 m	4.3 m

Vertical Spread: 103.3°
Horizontal Spread: 129.7°

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AC Cascade and Power Cordsets



Double-Ended Cascading Cordset
Male straight/Male straight connectors

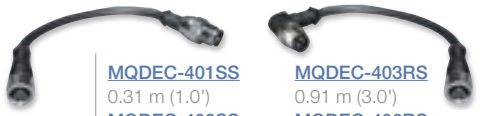
LQMAEC-3005SS 0.15 m (0.5')	LQMAEC-312SS 3.66 m (12.0')
LQMAEC-301SS 0.31 m (1.0')	LQMAEC-320SS 6.10 m (20.0')
LQMAEC-303SS 0.91 m (3.0')	LQMAEC-330SS 9.14 m (30.0')
LQMAEC-306SS 1.83 m (6.0')	



Power Cordset
1.8 m (6')

LQMAC-306	Flying Leads
LQMAC-306B	North & Central America, Japan, Taiwan
LQMAC-306D	India, Sri Lanka, Nepal, Namibia
LQMAC-306EF	France, Belgium, Slovakia, Tunisia, Germany, Austria, Netherlands, Spain, S. Korea
LQMAC-306G	UK, Ireland, Cyprus, Malta, Malaysia, Singapore, Hong Kong, Vietnam
LQMAC-306I	Australia, New Zealand, Papua New Guinea, Argentina, China
LQMAC-306N	Brazil

DC Cascade and Power Cordsets



4-Pin M12 Euro-style Double-Ended Cordset
Male straight/female straight connector or male right-angle/female straight

MQDEC-401SS 0.31 m (1.0')	MQDEC-403RS 0.91 m (3.0')
MQDEC-403SS 0.91 m (3.0')	MQDEC-406RS 1.83 m (6.0')
MQDEC-406SS 1.83 m (6.0')	MQDEC-412RS 3.66 m (12.0')
MQDEC-412SS 3.66 m (12.0')	MQDEC-420RS 6.10 m (20.0')
MQDEC-420SS 6.10 m (20.0')	MQDEC-430RS 9.14 m (30.0')
MQDEC-430SS 9.14 m (30.0')	MQDEC-450RS 15.2 m (50.0')
MQDEC-450SS 15.2 m (50.0')	

DC Power Cordsets



4-Pin M12 Euro-style to Flying Leads Cordset
Straight male connector models listed; for right-angle models, add **RA** to the end of the model number (example, **MQDC406RA**)

MQDC-406 1.83 m (6.0')	MQDC-430 9.14 m (30.0')
MQDC-415 4.57 m (15.0')	MQDC-450 15.2 m (50.0')

Accessories



LMBWLB32
Replacement clip-on bracket for bracket included with WLB32



LMBWLB32-180S
Swivel bracket kit allows 180° of movement



LMBWLB32MAG
Magnetic mounting bracket for easy attachment to steel or iron

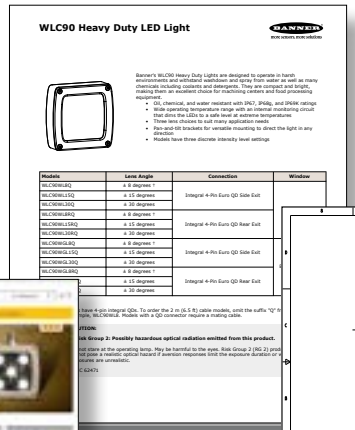
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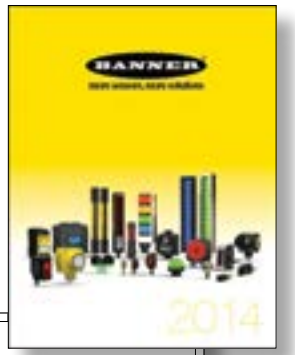


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Additional Resources

Link to data sheets

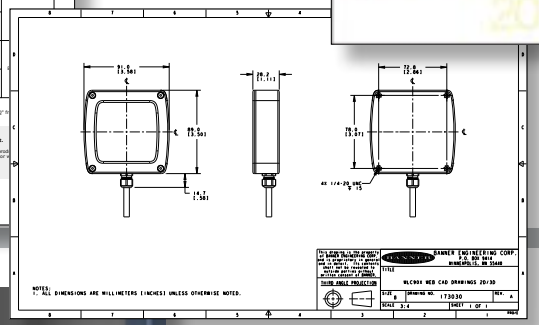




Link to catalog

Link to the Banner website





Link to CAD files





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