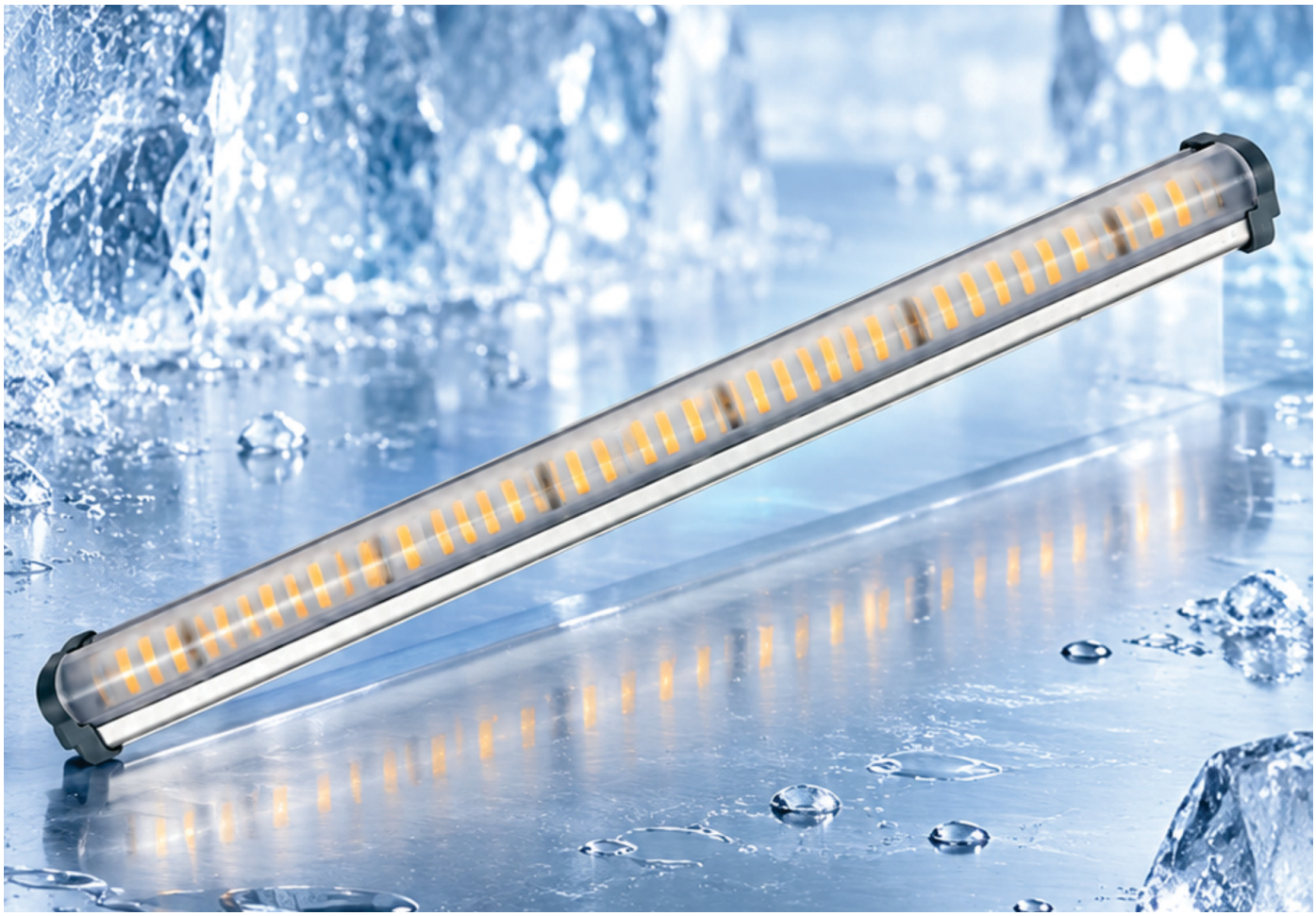
REFRIGERATION LED LIGHTING

VERTICAL DOOR LIGHTING

B009168BC1V01



DC24V | **IP65** | **CRI ≥90** | **SDCM ≤3** | **24° ASYMMETRIC OPTIC**

PRODUCT INTRODUCTION

Designed for vertical mounting on the inside door frame of glass-door refrigerated displays, B009168BC1V01 uses an asymmetric optic to direct light inward onto merchandise. The design helps reduce shadows from shelves and products, while limiting light directed toward shoppers.

APPLICATION AREA

Vertical on the door frame (inside). Aim the light inward onto merchandise.



KEY FEATURES

DC24V low-voltage design

For refrigerated display applications.

24° asymmetric optic

Directs light toward product faces and across shelf depth.

CRI ≥90 / SDCM ≤3

3000K, 4000K and 6500K options.

IP65 / -30°C to +40°C

Rated protection and operating ambient temperature.

Nine standard lengths

296-1611 mm; custom lengths available up to 2000 mm.

SUITABLE CABINETS

Glass-door merchandisers
Multi-deck refrigerated displays
Beverage coolers
Dairy cabinets
Fresh-food refrigerators
Grab-and-go cabinets

Side-frame lighting in upright glass-door cabinets

The light bar mounts vertically along the inner side frame. The 24° asymmetric optic directs a narrow beam toward the display.

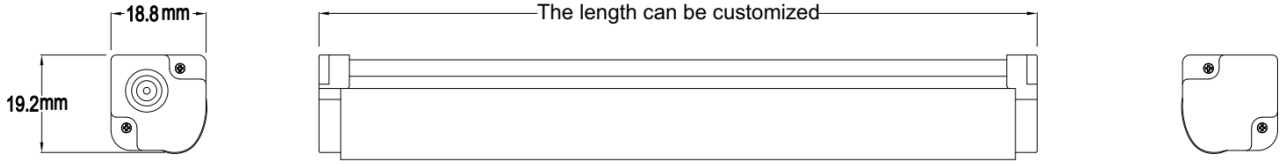


This cabinet example shows the upright glass-door format used for side-frame lighting.

Parameter	Specification
Product Number	B009168BC1V01
Operating Voltage	DC24V
CRI	≥90
Color Consistency	SDCM ≤3
Color Temperature	3000K / 4000K / 6500K
Beam Angle	24° asymmetric optic
Luminaire Efficacy	110-130 lm/W, depending on length and CCT
IP Rating	IP65
Operating Ambient Temperature	-30°C to +40°C
Profile Size (W × H)	18.8 × 19.2 mm
Standard Lengths	296 / 531 / 578 / 719 / 766 / 859 / 1141 / 1470 / 1611 mm
Custom Length	Available up to 2000 mm
Lifetime	50,000 hours
Standards Listed in Catalog	UL 2108 / CSA C22.2 No. 250.2

DIMENSIONAL

Unit: mm



Width: 18.8 mm | Height: 19.2 mm | Length: see Specification Matrix

CUSTOM LENGTH

Custom lengths up to 2000 mm are available.

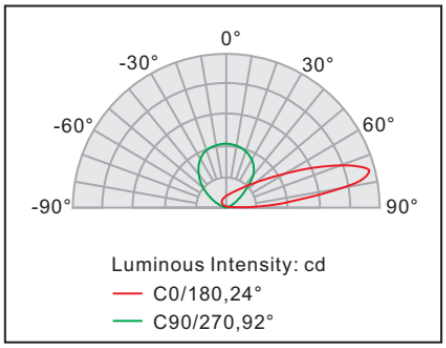
Technical data source: iPixel Refrigerated Display Lighting Catalog V1.0, pages 06-08.

All rows use model B009168BC1V01. Values within each CCT, flux and efficacy cell correspond from top to bottom.

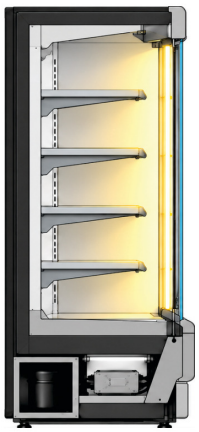
Model	Power (W) typ.	Input Voltage (V DC)	CRI	CCT (K)	Beam Angle	Luminous Flux (lm)	Luminaire Efficacy (lm/W)	Length (mm)	SDCM	IP	Net Weight (g)
B009168BC1V01	2.8	24	≥90	3000 4000 6500	24°	330 360 360	120 130 130	296	≤3	IP65	95
B009168BC1V01	5	24	≥90	3000 4000 6500	24°	600 650 650	120 130 130	531	≤3	IP65	170
B009168BC1V01	5.5	24	≥90	3000 4000 6500	24°	660 700 700	120 130 130	578	≤3	IP65	186
B009168BC1V01	6.8	24	≥90	3000 4000 6500	24°	810 880 880	120 130 130	719	≤3	IP65	231
B009168BC1V01	7.2	24	≥90	3000 4000 6500	24°	860 930 930	120 130 130	766	≤3	IP65	246
B009168BC1V01	8	24	≥90	3000 4000 6500	24°	960 1000 1000	120 130 130	859	≤3	IP65	276
B009168BC1V01	10.8	24	≥90	3000 4000 6500	24°	1290 1400 1400	120 130 130	1141	≤3	IP65	366
B009168BC1V01	14	24	≥90	3000 4000 6500	24°	1540 1600 1600	110 120 120	1470	≤3	IP65	472
B009168BC1V01	15.2	24	≥90	3000 4000 6500	24°	1670 1800 1800	110 120 120	1611	≤3	IP65	517

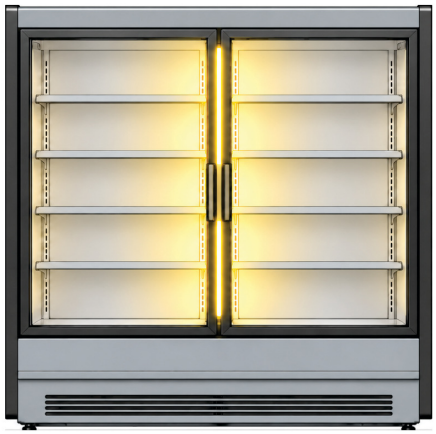
Power is typical. Luminous flux and luminaire efficacy are reproduced as listed in the catalog.

OPTICAL DISTRIBUTION & INSTALLATION



Nominal beam angle: 24°
C0/180: 24°
C90/270: 92°





Vertical installation on the inside door frame directs light onto merchandise behind glass.

Construction and electrical tolerance

Housing: Silver aluminum and polycarbonate (PC). LED package: 2835. Rated power tolerance: ±10%.

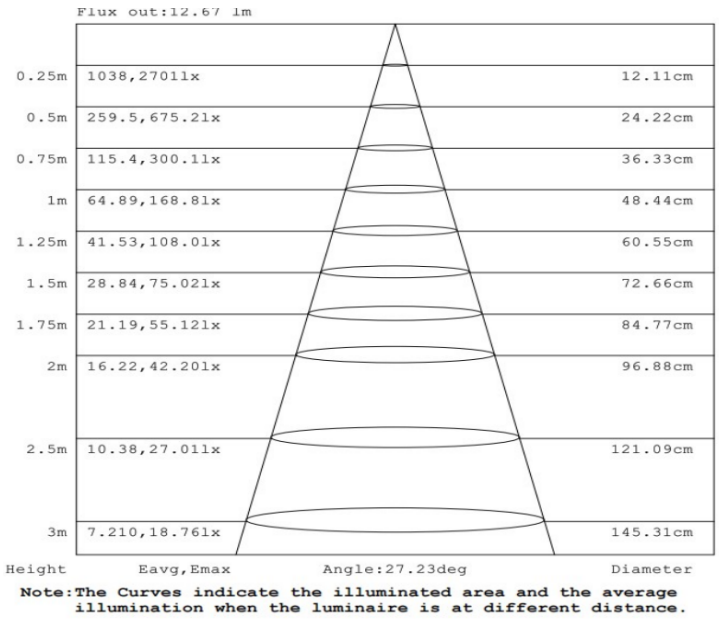
Clip-and-screw sets per bar: 2 up to 1 m, 3 over 1 m through 1.5 m, and 4 over 1.5 m through 2 m.

Optional cable: 1000 mm L-shaped connecting cable. Confirm connector compatibility when ordering.

LED quantity by length

Standard length (mm)	LED quantity
296	48
531	88
578	96
719	120
766	128
859	144
1141	192
1470	248
1611	272

Reference illuminance diagram



Reference test data from the technical datasheet. Illuminance varies with distance and configuration.

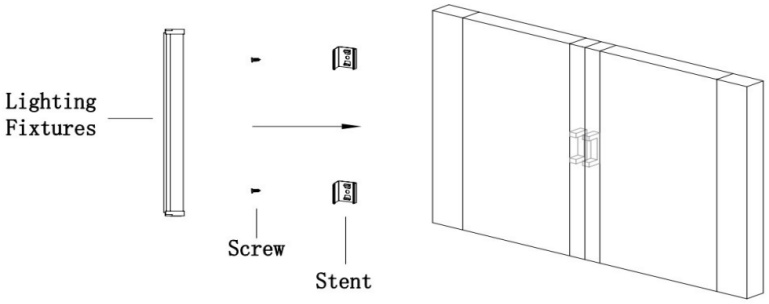
Standards reference

Technical documentation lists UL 2108 and CSA C22.2 No. 250.2 under UL file E509505. Confirm the applicable markings for the ordered configuration. Optical and electrical values are representative and may vary with configuration and operating conditions.

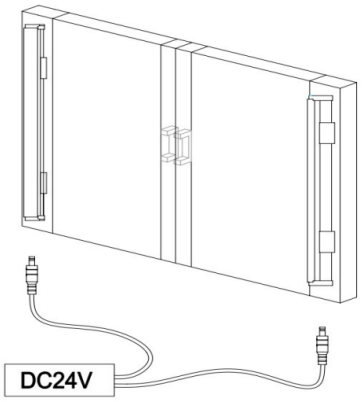
Source: model technical datasheet V1.0 and product instruction manual.

Clip mounting on the inside of the side frame

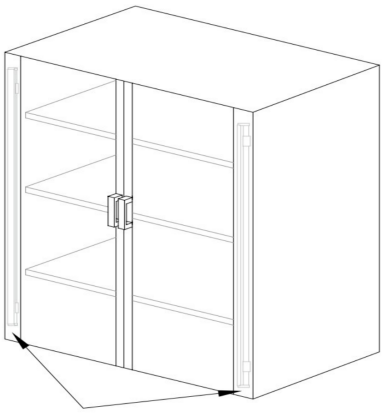
Fix the clips to the cabinet's inner side frame with screws, then snap the light bar into the clips. Orient the asymmetric optic toward the merchandise and check door and cable clearance.



1. The bracket is fixed to the panel, and the light fixture snaps into the bracket.



2. Connect the wiring; connect to 24V DC.



Light fixture installation complete.

Before fixing the light bar

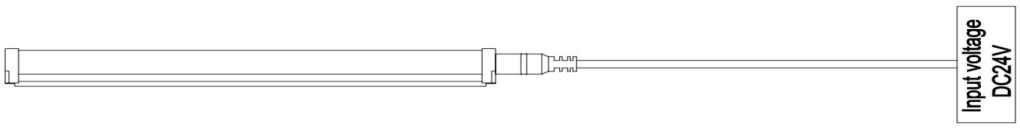
Disconnect power. Confirm that the cabinet material can support the fasteners. Route the cable clear of moving parts and sharp edges.

After installation

Check that the light bar is secure and the connector is fully seated. Confirm connector polarity before switching on.

24 V DC connection

With power disconnected, plug the connecting cable into the light bar and connect it to a 24 V DC supply. Allow power headroom and confirm the maximum run length and total connected load.



Safety and maintenance

• Disconnect power before cleaning. Avoid corrosive cleaning agents.

• Avoid twisting, dragging or sharply bending the light bar and cable. Avoid prolonged direct viewing while the bar is lit.

• Use qualified personnel for installation, removal, repair and replacement. Obtain approval before modifying circuitry, connectors or internal components.

STANDARD CONFIGURATION

Order No.	Photo	Description	Dimensions (mm)	N.W. (g)
Bracket		Used for fixing and mounting the light fixture/profile.	-	3.3
Connecting cable		Connecting cable between power supply and lights, 1000 mm length.	1000	22
Screw		Steel screws for securing the mounting clips.	-	0.5

OPTIONAL CONFIGURATION

Order No.	Photo	Description	Dimensions (mm)	N.W. (g)
Power Supply		Input: 90-264 VAC. Output: 24V DC.	-	-
L-shaped 1-to-2 connection cable		Two L-shaped plugs, ideal for installation in tight spaces.	L 400	21
1-to-2 connection cable		Simultaneously supplying power to two LED lights.	L 400	21
Cable Grommet		Protects cables from sharp edges when passing through holes.	Ø60 × 22 (Cutout Ø49)	19
Connector		Adapter for connecting two DC male/female plugs together.	Ø5.3 × 20.4	0.8
Wire connector		Used for seamless, end-to-end direct connection of two lights.	L 170	5.8

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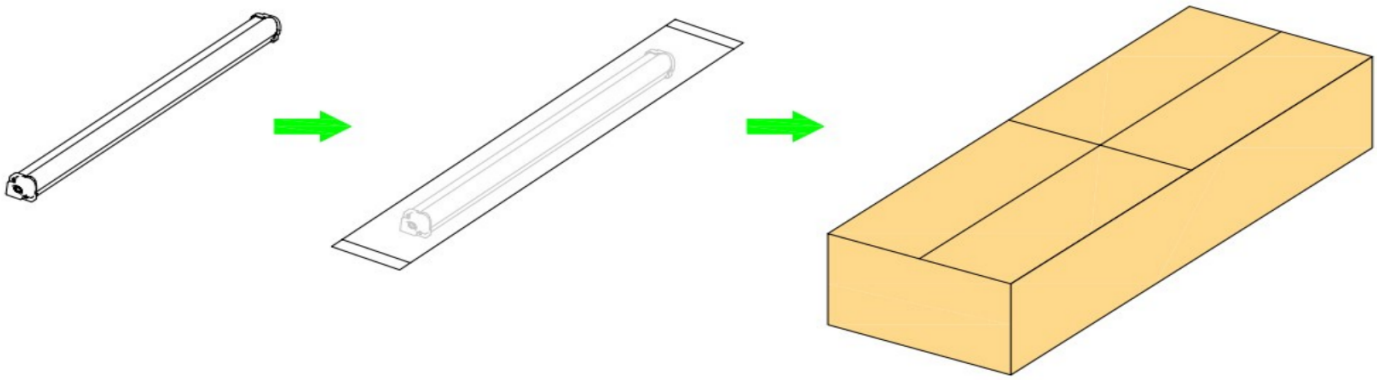
Building A, Chezhan industrial park, Tianbao Rd, Shiyan Town, Baoan, Shenzhen, China
www.ipixelleds.com | Technical data: Refrigerated Display Lighting Catalog V1.0, pp. 06-08.

Product packaging

The light bar is placed in a protective sleeve and packed in a carton.



Light bar **Protective sleeve** **Outer carton**

Handling

Avoid dragging, twisting or sharply bending the light bar or cable during packing and handling.