REFRIGERATION LED LIGHTING

REFRIGERATED CANOPY LIGHTING

B009168BC1C01



Full product view

DC24V | **IP65** | **CRI ≥90** | **SDCM ≤3** | **68° ASYMMETRIC BEAM**

PRODUCT INTRODUCTION

B009168BC1C01 is designed for canopy lighting in open refrigerated displays. Mount it beneath the canopy at the front edge of the cabinet. Its 68° asymmetric optic directs light downward and slightly inward toward the merchandise.

APPLICATION AREA

Mount beneath the canopy at the front edge. Aim downward and slightly inward.



KEY FEATURES

DC24V low-voltage design

For refrigerated display applications.

68° beam

For top-mounted lighting in refrigerated displays.

CRI ≥90 / SDCM ≤3

3000K, 4000K and 6500K options.

IP65 / -30°C to +40°C

Rated protection and operating ambient temperature.

Five standard lengths

296-1188 mm; custom lengths available up to 2000 mm.

SUITABLE CABINETS

Open multideck displays
Dairy display cabinets
Fresh-food refrigerated cabinets
Produce and chilled-food cases

Top canopy lighting in a refrigerated display case

Mounted beneath the upper canopy, the 68° light bar directs light down and inward toward the merchandise.

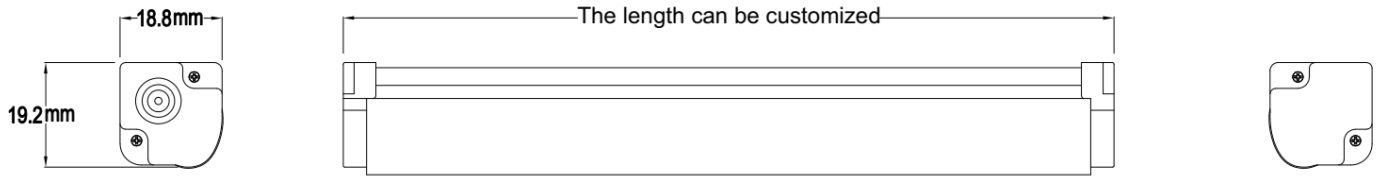


The front and side views show the upper mounting area above the display deck.

Parameter	Specification
Product Number	B009168BC1C01
Operating Voltage	DC24V
CRI	≥90
Color Consistency	SDCM ≤3
Color Temperature	3000K / 4000K / 6500K
Beam Angle	68°
Luminaire Efficacy	120-130 lm/W, depending on CCT
IP Rating	IP65
Operating Ambient Temperature	-30°C to +40°C
Profile Size (W × H)	18.8 × 19.2 mm
Standard Lengths	296 / 578 / 766 / 1140 / 1188 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.

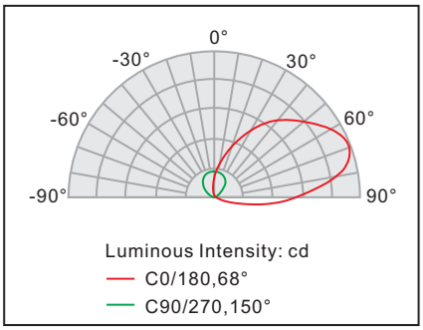
Technical data source: iPixel Refrigerated Display Lighting Catalog V1.0, pages 25-32.

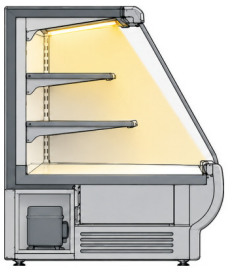
All rows use model B009168BC1C01. Values within each CCT, flux and efficacy cell correspond from top to bottom.

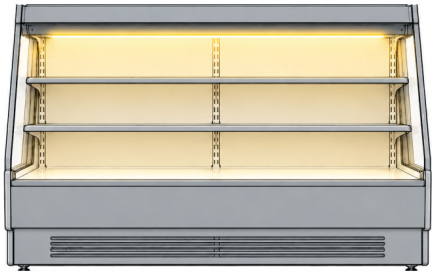
Model	Power (W) typ.	Input Voltage (V DC)	CRI	CCT (K)	Beam Angle	Luminous Flux (lm)	Luminaire Efficacy (lm/W)	Length (mm)	SDCM	IP	Net Weight (g)
B009168BC1C01	2.8	24	≥90	3000 4000 6500	68°	330 360 360	120 130 130	296	≤3	IP65	92
B009168BC1C01	5.5	24	≥90	3000 4000 6500	68°	660 700 700	120 130 130	578	≤3	IP65	180
B009168BC1C01	7.2	24	≥90	3000 4000 6500	68°	860 930 930	120 130 130	766	≤3	IP65	238
B009168BC1C01	10.8	24	≥90	3000 4000 6500	68°	1290 1400 1400	120 130 130	1140	≤3	IP65	355
B009168BC1C01	11.2	24	≥90	3000 4000 6500	68°	1340 1450 1450	120 130 130	1188	≤3	IP65	370

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

OPTICAL DISTRIBUTION & INSTALLATION







Nominal beam angle: 68°
C0/180: 68°
C90/270: 150°

The front-edge canopy position directs light downward and slightly inward onto merchandise.

Construction and electrical tolerance

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

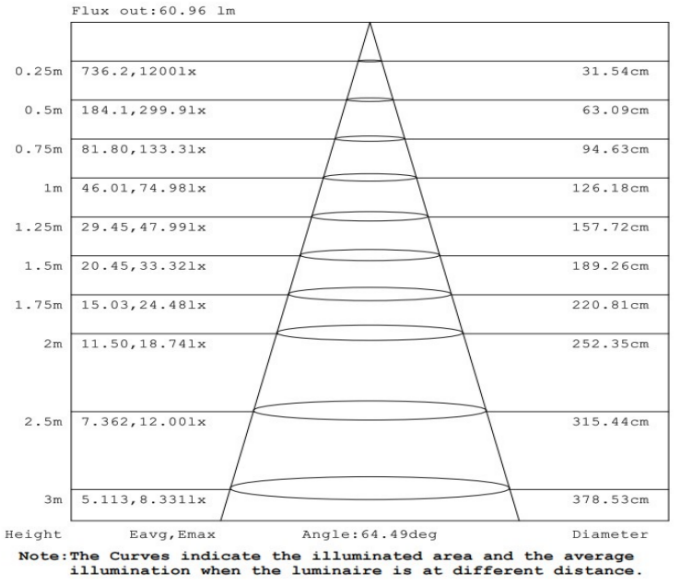
Clip-and-screw sets per bar: 2 up to 1 m, 3 over 1 m through 1.5 m, and 4 over 1.5 m through 2 m.

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

LED quantity by length

Standard length (mm)	LED quantity
296	48
578	96
766	128
1140	192
1188	200

Reference illuminance diagram



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

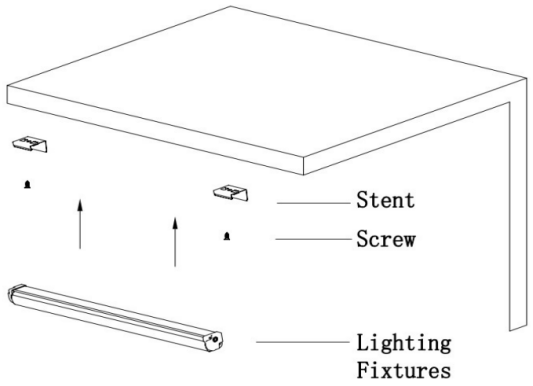
Standards reference

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.

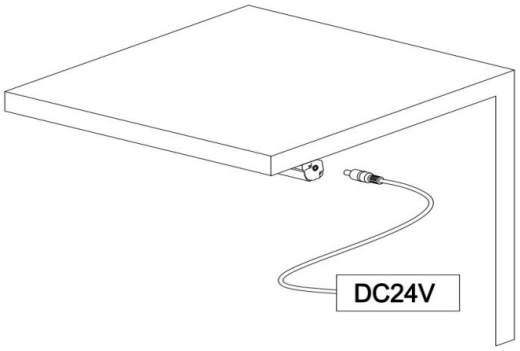
Source: model technical datasheet V1.0 and product instruction manual.

Clip mounting below the top canopy

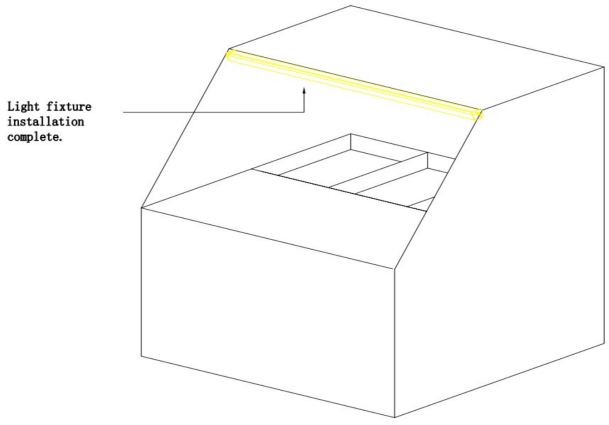
Fix the clips to the underside of the canopy with screws, then snap the light bar into the clips. Aim the asymmetric optic down and into the case.



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



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



Before fixing the light bar

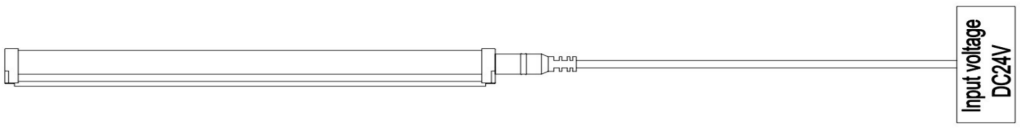
Disconnect power. Confirm that the cabinet material can support the fasteners. Route the cable clear of moving parts and sharp edges.

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

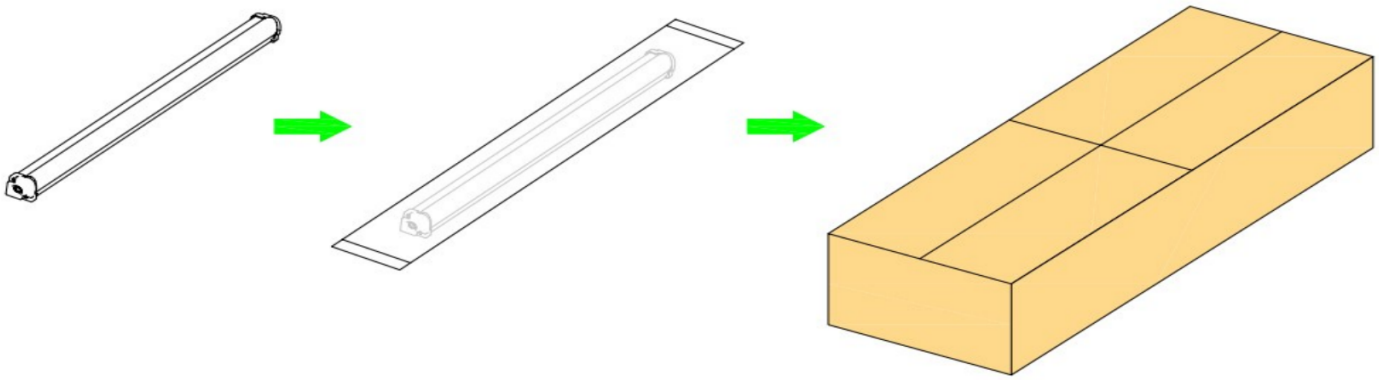
Order No.	Photo	Description	Dimensions (mm)	N.W. (g)
Bracket		Used for fixing and mounting the light fixture/profile.	-	3.3
Connecting cable		Connecting cable between power supply and lights, 1000 mm length.	1000	22
Screw		Steel screws for securing the mounting clips.	-	0.5

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

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.