

REFRIGERATION LED LIGHTING

VERTICAL LIGHTING

CLASS	MODEL
B017166BC1LZ24	B017166BC1LZ24-L778 B017166BC1LZ24-L1162 B017166BC1LZ24-L1450 B017166BC1LZ24-L1546 B017166BC1LZ24-L1642



Low
Temperature
Reliable



Moisture &
Condensation
Resistant



High Efficiency
Uniform
Lighting



Safe &
Durable



Asymmetric
Lens

IP65     

PRODUCT INTRODUCTION

Designed for refrigerated display cabinets, beverage coolers, and freezer applications, this LED light bar delivers bright and uniform illumination with stable performance in low-temperature environments.

KEY FEATURES

24V safe Low-voltage design

Stable operation for commercial refrigeration equipment.

2835W LED solution

Bright, uniform lighting with low glare and good energy efficiency.

Aluminum housing + PC Lens

Better heat dissipation and softer light output.

Silicone sealing structure

Helps improve moisture resistance in cold and humid environments.

Plastic end caps

Clean appearance and reliable assembly.

M5 Locking Connector, quick connection

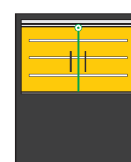
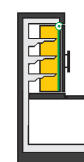
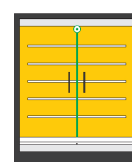
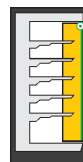
Easy installation and maintenance.

Suitable for freezer & cooler applications

Ideal for beverage coolers, refrigerated display cabinets, freezer shelves, and commercial refrigeration equipment.

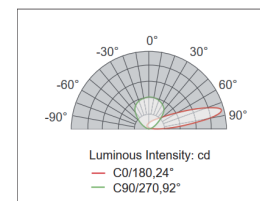
APPLICATION AREA

ipment. Attachment to the door frame for illumination of the goods front.



- Refrigerated multi-deck cabinet
- Combi Freezer
- Freezer

Beam angle

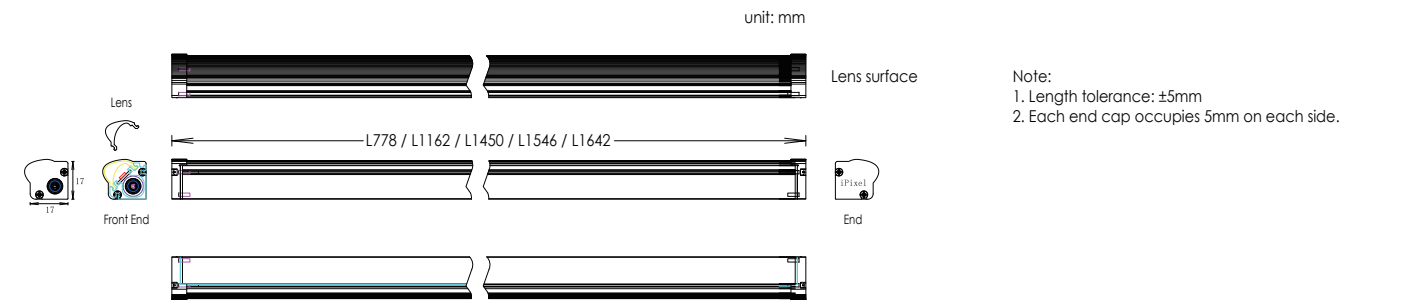


SPECIFICATIONS

	Product Number	B017166BC1LZ24
Electrical & Optical Characteristics	Operating Voltage	DC24V
	Power /pcs	9.5W / 15W / 17.5W /18.5W / 20W
	SMD Type	SMD 2835W
	LED Qty /pcs	128 / 192 /240 /256 / 272 LEDs [1]
	PCB	Aluminum PCB
	CRI	Ra95
	SDCM	≤ 3
	Beam Angle	24° (Clear) [2]
	Luminous Efficacy /W	160 lm/W (Clear) , 120lm/W (Opal)
Material	Base shell	Aluminum
	Anodized/Lamp cover	PC extuded Lens
	Plug	Silicone
	End Cap	Plastic + M5 Connector [3]
Physical specification	Size/(L*W*H)	(778/1162/1450/1546/1642)×17×17 mm [4]
Protective	IP Rate	IP65
	IK Rate	IK02
Environmental conditions	Operation Temperature	-20°C to +40°C
	Storage Temperature	-20°C to +50°C
	Operation Humidity	20% to 85%
Cooling Method		Aluminum Thermal Conduction
Reliability	MTBF	50000hrs(L80,B20,Ta=25 °C ,12hours/Day) [5]
Certification		CE / RoHs / IP65 [6]
Installation	Magnetic attachment via 3M soft magnetic tape / Clip-on installation	

- Note:
- 1. Uniform LED pitch of 6mm, Custom options are available if needed.
 - 2. The beam angle of the opal diffuser is determined by the concentration of the diffusion powder added.
 - 3. M5 waterproof connector with threaded locking and double O-ring seals.
 - 4. Lengths can be customized to meet customer requirements.
 - 5. Typical lifespan is based on internal testing and may vary; mass production validation pending.
 - 6. Food contact compliance per (EU) No 10/2011 is available upon customer request.

DIMENSIONAL



Model	Power /W	Ra(R9) Typ.	CCT /K	Beam angle	Luminous Flux /lm	EEC	Length /mm	QTY /CTN(pcs)	G.W /CTN(Kg)	Size /CTN(mm)
B017166BC1LZ24-L778	9.5	95(65)	3000	24°x 2	1150	E	778	60	21.2	1700x300x100
		95(75)	4000		1200	E				
		95(75)	6500		1200	E				
		95(50)	(076)		1150	E				
B017166BC1LZ24-L1162	15	95(65)	3000	24°x 2	1800	E	1162	30	16.5	1700x300x100
		95(75)	4000		1950	E				
		95(75)	6500		1950	E				
		95(50)	(076)		1800	E				
B017166BC1LZ24-L1450	17.5	95(65)	3000	24°x 2	2100	E	1450	30	20	1700x300x100
		95(75)	4000		2300	E				
		95(75)	6500		2300	E				
		95(50)	(076)		2100	E				
B017166BC1LZ24-L1546	18.5	95(65)	3000	24°x 2	2350	E	1546	30	21	1700x300x100
		95(75)	4000		2500	E				
		95(75)	6500		2500	E				
		95(50)	(076)		2350	E				
B017166BC1LZ24-L1642	20	95(65)	3000	24°x 2	2400	E	1642	30	22.5	1700x300x100
		95(75)	4000		2550	E				
		95(75)	6500		2550	E				
		95(50)	(076)		2400	E				

Note:

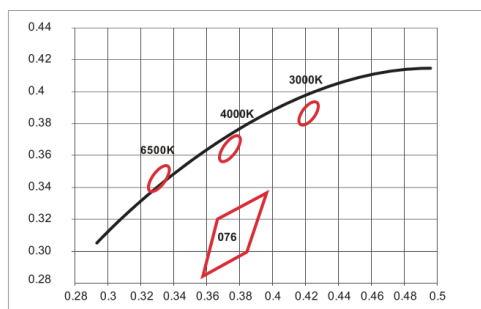
1. Measurement precision for input voltage/current/power+/-10%,W=kWh/1000h.
2. Comply with ANSI C78.377.
3. Minimum Ra(TYP.)is rated value -2.
4. Beam angle ≤20°,measurement precision +/-20%; Beam angle >20°,measurement precision +/-15%;
5. Minimum Luminous flux is 90% of rated value.
6. Minimum Luminous efficacy is 90% of rated Value.
7. Energy efficiency class, as determined in accordance with Commission Delegated Regulation(EU)2019/2015.
8. Easy to install, it allows the use of individual bars and / or joining several bars.
- 9.[1]:Tentative packaging: all-corrugated carton with inner partitions to hold each light bar.

COLOR BIN DEFINITION

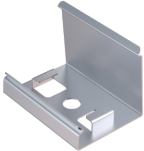
Chromaticity tolerance (initial MacAdam): 3 SDCM (3000K, 4000K, 6500K)

Color coordinates (CIEx,CIEy): 3000K (0.422,0.386), 4000K (0.374,0.364), 6500K (0.313, 0.329), 076 (0.375,0.31)

Measurement precision for x,y +/-0.005.



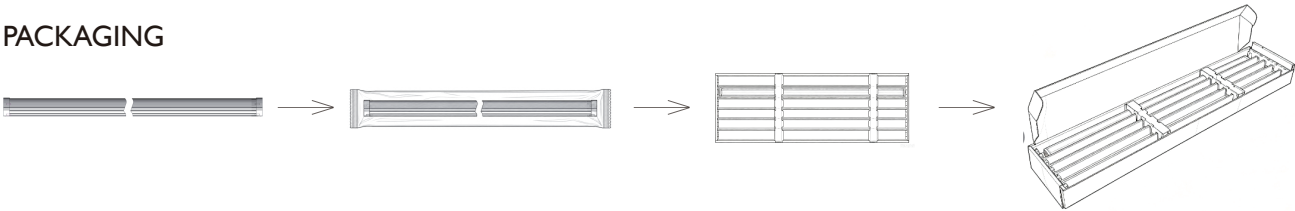
ACCESSORIES

NO.	Photo	Description
		1500mm input cable (straight connector, M5, Black) x 1
		1500mm input cable (right-angle connector, M5, Black) x 1
		80mm interconnection cable (straight-to-straight connector, M5, Black) x 1
		Vertical Freezer mounting clip x 2
		3M adhesive-backed soft magnetic strip x 1 (W15*H2mm / 600Gs /3M9448A)

Note:

- 1. Input wire length and mating connector type are customizable per customer requirements.
- 2. The soft magnetic strip is usually shipped separately.

PACKAGING



APPLICABLE SCENARIOS

