



SPECIFICATION SHEET

TAPE-COB-DW

(DIM TO WARM)

DESCRIPTION

Colorbeam's COB (Chip-on-Board) LED Tape delivers high-performance lighting with superior brightness, efficiency, and flexibility. Its ultra-thin, bendable design provides smooth, uniform lighting for up to 5 meters (16.4 ft), perfect for creative installations.

KEY FEATURES

- **Soft, Uniform Light:** COB technology ensures consistent, smooth illumination with a premium bounding wall for better light uniformity.
- **Superior Durability:** Thick copper construction ensures stable voltage and brightness, with a protective structure for enhanced reliability and flexibility.
- **Indoor & Outdoor Use:** Available in IP20 and IP67 waterproof options, ideal for versatile indoor and outdoor applications.
- **Perfect for designers and architects,** this innovative lighting solution elevates any space with seamless beauty and functionality.



Dim to Warm
0 to 100% flicker free dimming



Working Temperature
-10°C to 40°C



3 Year Limited
Warranty

SPECIFICATIONS

Power ±10%	10W/m [3.05/ft] @ 3000K
Input Voltage	24VDC
Dimensions - IP20	5000 * 10 * 2 mm [197*0.39*.08in]
Dimensions - IP67	5000 * 12 * 4mm [197* 0.47 * 0.16in.]
Min. Unit & Chip Qty	576chips/M [176chips/ft.]
Color Temperature	1800K-3000K
Chip Current	6mA/chip
CRI:	W: Ra≥90
Beam Angle	150°
Standard Length:	5m [16.4 FT] (power fed on one side)
Light Source	COB (Chip On Board)
Warranty:	3 years
Certificate:	CE, RoHS, UL Listed

MODEL CODES	DESCRIPTION
Tape-COB-DW18-30K-IP20	Dim to Warm COB Tape, 1800-3000K, Width 10mm (0.39 in), 5M (196.85 in), Ra >90, IP20
Tape-COB-DW18-30K-IP67	Dim to Warm COB Tape, 1800-3000K, Width 10mm (0.39 in), 5M (196.85 in), Ra >90, IP67



COLOR TEMPERATURE

1800K - 3000K



TYPICAL APPLICATIONS

- ✓ Accent lighting
- ✓ Decorative lighting
- ✓ Architectural lighting

www.colorbeamlighting.com



SPECIFICATION SHEET

TAPE-COB-DW

(DIM TO WARM)

Luminous Flux Specification

Part Number	Dimensions (L*W*H)	IP Rating	Luminous Flux±10%(Mix)	Light Efficiency
Tape-COB-DW18-30K-IP20	5000*10*2mm [197*0.39*0.08]	IP20 [dry]	920lm/M[280lm/ft.] (3000K)	92lm/W (3000K)
Tape-COB-DW18-30K-IP67	5000*12*4mm [197*0.47*0.16]	IP67[wet]	874lm/M[266lm/ft.] (3000K)	87lm/W (3000K)

Power & Brightness vs Length Characteristics					
Length Of Single Product	1m [3.28FT]	2m [6.56FT]	3m [9.48T]	4m [13.1FT]	5m [16.4FT]
Actual Measured Power	14.8W	19.7W	26.W	31.9W	37.9W
Power Maintenance Rate	100%	96.6%	85.9%	78.2%	74.3%
Brightness Maintenance Rate	96.8%	94.5%	93.8%	83.3%	78.7%

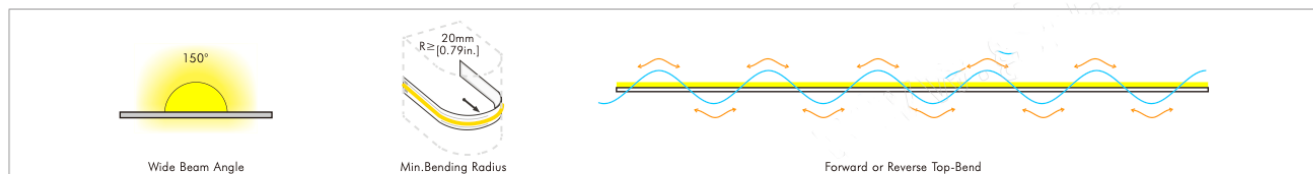
Picture & Diagram



Unit: mm[in.]

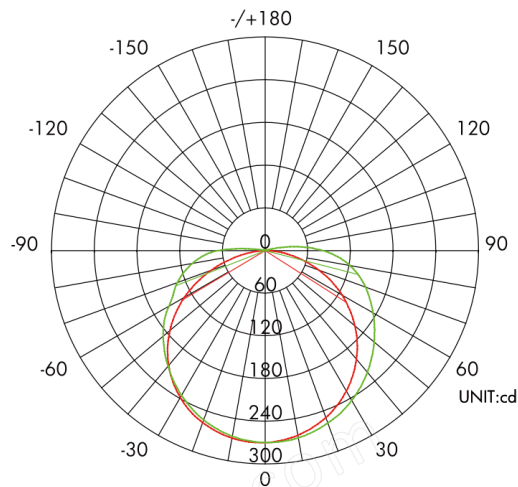


IP20 (Dry)



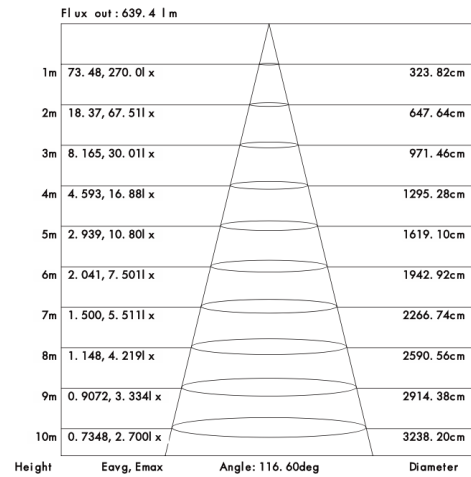
www.colorbeamlighting.com

Light Distribution Diagram



AVERAGE BEAM ANGLE(50%): 130.3 DEG

— C0/180, 116.6 Ic=270.1
— C90/270, 144.0 Ic=270.0



Height Eavg, Emax Angle: 116.60deg
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

Height	Eavg, Emax	Angle: 116.60deg	Diameter
1m	73.48, 270.01 x		323.82cm
2m	18.37, 67.511 x		647.64cm
3m	8.165, 30.011 x		971.46cm
4m	4.593, 16.881 x		1295.28cm
5m	2.939, 10.801 x		1619.10cm
6m	2.041, 7.5011 x		1942.92cm
7m	1.500, 5.5111 x		2266.74cm
8m	1.148, 4.2191 x		2590.56cm
9m	0.9072, 3.3341 x		2914.38cm
10m	0.7348, 2.7001 x		3238.20cm

3000K, IP20 (dry)

Dimming Curve Demonstration

