

# Product Specification

Item No.: A-LED/E 8 COB/320

Series: COB Series

Confirmation	Approval	Audit	Date	Version
Harry D			2019/6/1	1.0

## Features

COB Design, with more chips on PCB, more even light.

Up to 320 chips on 1 meter PCB, only 3.125mm space between chips.

Cutttable at every 50m(12V)/100mm(24V) length.

Efficiency up to 105Lm/W.

CE, Rohs, UL listed.

## Picture

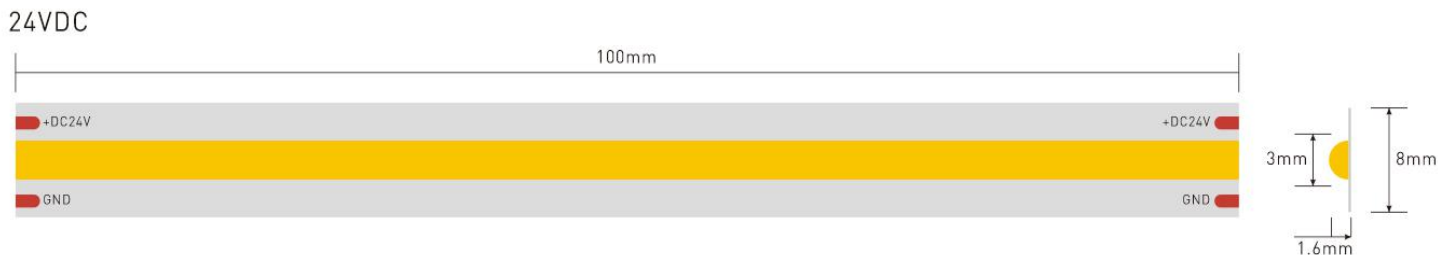
12Vdc



24Vdc



## Dimensions



## Specifications

Item NO.	A-LED/E 8 COB/320					
LED Chip/Meter	320					
Input Voltage	12Vdc			24Vdc		
Cutting Length	50mm			100mm		
PCB	8mm/2oz					
Power	8W/m					
Ra	Ra 80+			Ra 90+		
CCT	2700K	3000K	4000-6500K	2700K	3000K	4000-6500K
Brightness	760Lm/M	800Lm/M	840Lm/M	640Lm/M	680Lm/M	760Lm/M
Efficiency	95Lm/W	100Lm/W	105Lm/W	80Lm/W	85Lm/W	95Lm/W
Package Length	5 meters					
Size	Width: 8mm; Height: 1.6mm					
Lifespan	50,000 H					
Working Temperature	-20°C - 40°C					
Storage Temperature	-20°C - 45°C					
Warranty	3 years					

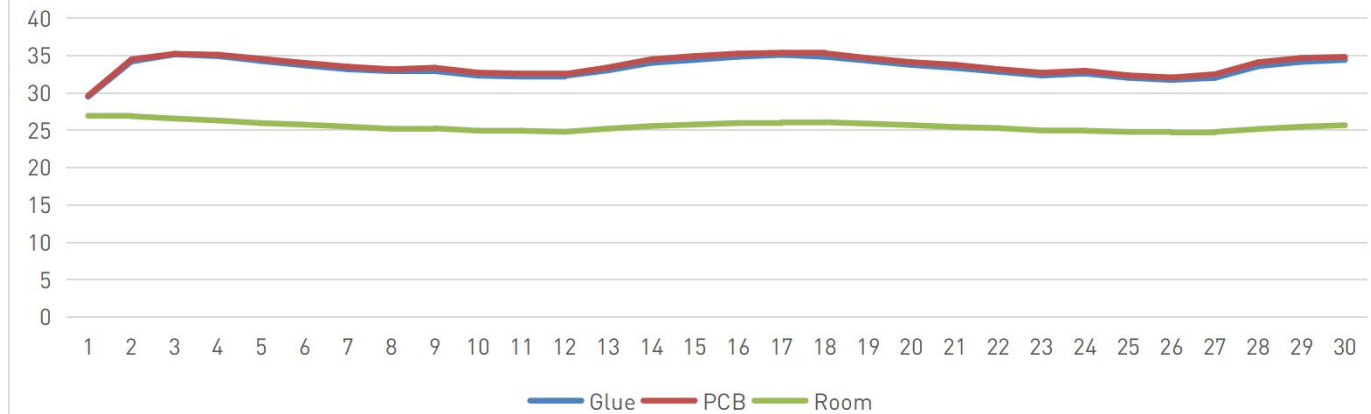
\* The above measurements of watts, brightness and efficiency allowance tolerance  $\pm 10\%$ .

\* The above measurements are based on IP20.

## Temperature Curve

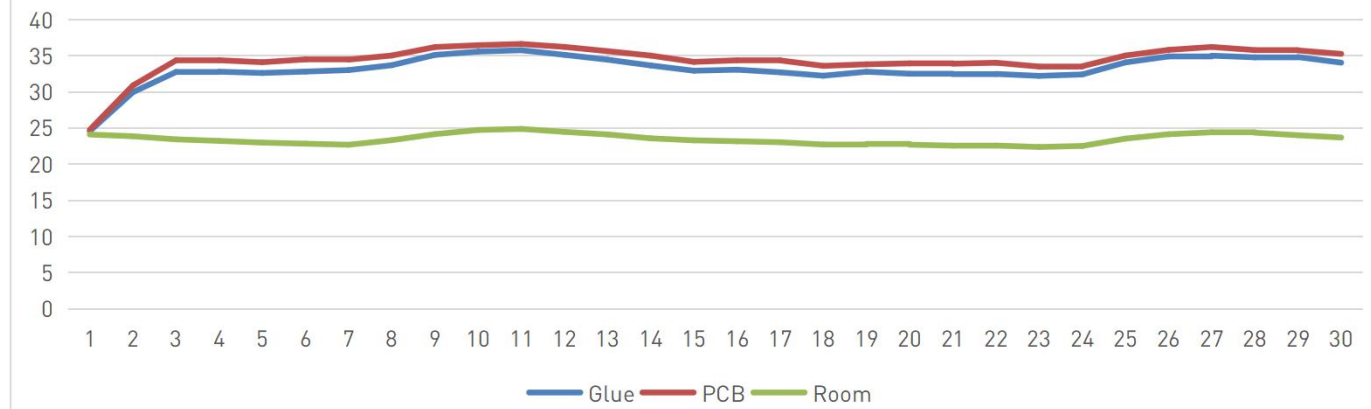
12Vdc

8W-30Min Temperatures



24Vdc

8W-30Min Temperatures



\* The above curves based on 30 minutes testing data. The Temp. changes after powering within 30 minutes.

\* The x-axis indicates the minutes from 1 minutes to 30 minutes.

\*

\* The y-axis indicates the changes of temperatures in Glue, PCB and Room.

\*

## Brightness Consistency

The following charts shows the voltage, lumen and brightness drop on each meter.

### 12Vdc

Chart1, Based on 5m Running

Length	1m	2m	3m	4m	5m
Voltage	11.5	11.15	10.95	10.83	10.82
Lumen	687.25	475.68	354.78	282.24	276.19
Drop	0.00%	-30.79%	-48.38%	-58.93%	-59.81%

Chart2, Based on 4m Running.

Length	1m	2m	3m	4m
Voltage	11.52	11.22	11.05	11.02
Lumen	699.34	517.99	415.23	397.09
Drop	0.00%	-25.93%	-40.63%	-43.22%

Chart3, Based on 3m Running

Length	1m	2m	3m
Voltage	11.55	11.35	11.30
Lumen	717.48	596.58	566.35
Drop	0.00%	-16.85%	-21.06%

From above charts, for better brightness consistency, the recommend length is 3m for powering on one side.

### 24Vdc

Chart1, Based on 5m Running

Length	1m	2m	3m	4m	5m
Voltage	23.56	23.26	23	22.91	22.85
Brightness	676.86	603.68	540.26	518.31	503.67
Drop	0.00%	-10.81%	-20.18%	-23.42%	-25.59%

Chart2, Based on 4m Running

Length	1m	2m	3m	4m
Voltage	23.64	23.35	23.23	23.22
Brightness	696.37	625.63	596.36	593.92
Drop	0.00%	-10.16%	-14.36%	-14.71%

From above charts, for better brightness consistency, the recommend length is 5m for powering on one side.

## Waterproof Ways

Waterproof Ways	IP Rating	Details