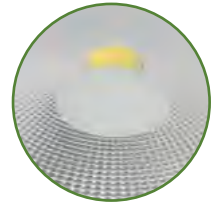


RECESSED MOUNT COB DOWNLIGHT



MODEL: AD/L2020- W- K

Classification

IP20/ IP40/ IP44

Application

Recessed mount COB downlights, engineered to deliver concentrated and efficient lighting, ideal for indoor settings like offices, retail spaces, homes, hotels, and any environment where precise and comfortable illumination is essential.

Installation

Recessed mount on false ceiling.

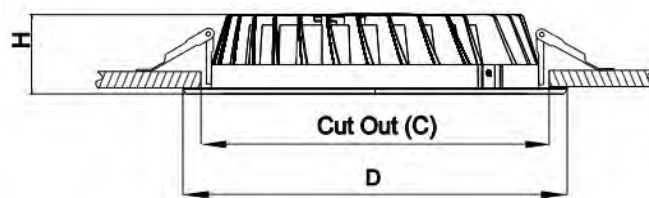
Material

Die-Cast Aluminum

Correlated Color Temperature (CCT)

Cold White	6500K
Neutral White	4000K
Warm White	3000K

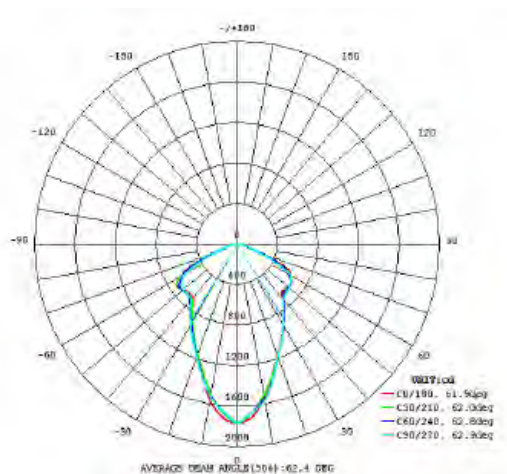
Dimension and Mounting Details



General Specifications

POWER	D(MM)	H(MM)	C(MM)	WEIGHT(KG)	LUMENS
7W	Ø88	Ø52	66	0.130	525lm
10W	Ø120	Ø42	105	0.210	800lm
15W	Ø170	Ø45	142	0.320	1275lm
30W	Ø223	Ø45	195	0.570	2700lm
60W	Ø228	Ø118	202	1.600	5400lm

Light intensity Distribution



Technical Parameters

	AL ADWAA				
Power	7W	10W	15W	30W	60W
Light Source	COB				
Color Temperature	3000K/4000K/6500K				
Ingress Protection	IP20/ IP40/ IP44				
Input Voltage, Frequency	AC110-240V, 50/60 Hz				
Ambient Temperature (Ta)	-10...50°C				
Application	Indoor Use				
Emergency Option	Available with emergency pack for minimum 3 hours				

GENERAL CHARACTERSTICS

Shape	Circular				
Diffuser Type	White Plastic				
Light Surface Area (cm)	Ø4.15	Ø7.2	Ø10.2	Ø15.6	Ø15.5
Finish	Matt				
Life Time (hours)	30,000h				
Switching Cycles	15,000 On / OFF				

LIGHT CHARACTERSTICS

Rated Luminous Flux	525lm	800lm	1275lm	2700lm	5400lm
Color Rendering Index (CRI)	>80				
Displacement Factor	>0.9				
Efficacy	75lm/W	80lm/W	85lm/W	90lm/W	90lm/W
Beam Angle	80°	110°	120°	120°	120°
Lamp Type	Direct				
Color Consistency	< 6 Step MacAdam Ellipse				
Non-Dimmable Light	YES				
Lumen Maintenance	>80%				
Starting Time	< 1 Second				

CHIP DATA SHEET

COB 1X7W - TQ0-1311A-0702BA

COB 1X10W - TQ0-1311A-1002B8

COB 1X15W - TQ0-1311A-1502B8

COB 1X30W - TQ0-2823A-3002B5

COB 1X60W - TQ1-2823A-1210B8

Features & Benefits

- Extremely wide viewing angle.
- Suitable for all soldering process.
- Low thermal resistance.
- Moisture sensitivity level: Level 5.
- RoHS compliant.



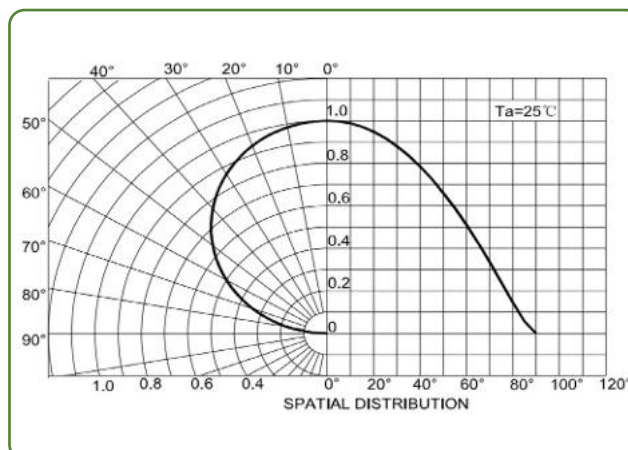
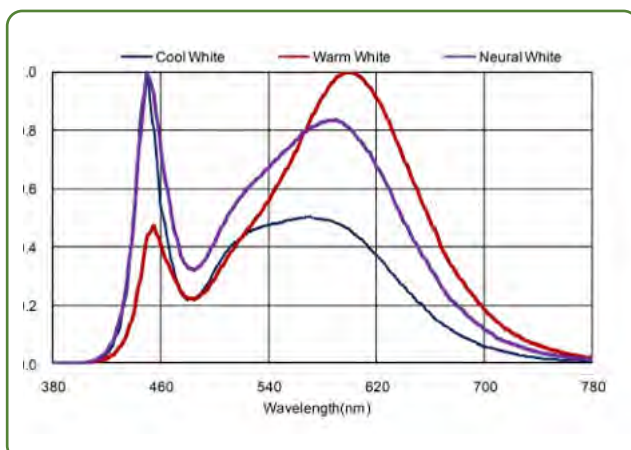
Description

This TYF COB package has high efficacy, high Ra, low power consumption, wide viewing angle and a compact form factor. These features make the package an ideal LED for lighting applications.



Applications

- Indoor general lighting
- Spotlights
- Downlights
- Uplights



1. Photoelectric parameters for 7W:

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS
Limiting power	P	--	7.0	10.5	W
Forward Voltage	VF	20	21	22	V
Forward Current	IF	--	320	460	mA
Operating Temperature	TC	-40	--	85	°C
Junction Temperature	Tj	--	--	125	°C
Storage Temperature	Tstg	-40	--	105	°C
ESD Sensitivity	ESD	--	--	2000	V
Reverse Voltage	VR	Reverse testing is not allowed			/
Reverse Current	IR			5	μA
Soldering Temperature	Tsld	350°C/3-5sec.			°C/S

2. Photoelectric parameters for 10W:

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS
Limiting power	P	--	10.0	15.0	W
Forward Voltage	VF	28	30	32	V
Forward Current	IF	--	320	460	mA
Operating Temperature	TC	-40	--	85	°C
Junction Temperature	Tj	--	--	125	°C
Storage Temperature	Tstg	-40	--	105	°C
ESD Sensitivity	ESD	--	--	2000	V
Reverse Voltage	VR	Reverse testing is not allowed			/
Reverse Current	IR			5	μA
Soldering Temperature	Tsld	350°C/3-5sec.			°C/S

3. Photoelectric parameters for 15W:

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS
Limiting power	P	--	15.0	22.5	W
Forward Voltage	VF	42	45	48	V
Forward Current	IF	--	320	460	mA
Operating Temperature	TC	-40	--	85	°C
Junction Temperature	Tj	--	--	125	°C
Storage Temperature	Tstg	-40	--	105	°C
ESD Sensitivity	ESD	--	--	2000	V
Reverse Voltage	VR	Reverse testing is not allowed			/
Reverse Current	IR			5	μA
Soldering Temperature	Tsld	350°C/3-5sec.			°C/S

4. Photoelectric parameters for 30W:

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS
Limiting power	P	--	30.0	45.0	W
Forward Voltage	VF	90	96	102	V
Forward Current	IF	--	320	400	mA
Operating Temperature	TC	-40	--	85	°C
Junction Temperature	Tj	--	--	125	°C
Storage Temperature	Tstg	-40	--	105	°C
ESD Sensitivity	ESD	--	--	2000	V
Reverse Voltage	VR	Reverse testing is not allowed			/
Reverse Current	IR			5	μA
Soldering Temperature	Tsld	350°C/3-5sec.			°C/S

5. Photoelectric parameters for 60W:

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS
Limiting power	P	--	60.0	90.0	W
Forward Voltage	VF	34	36	38	V
Forward Current	IF	--	1600	2300	mA
Operating Temperature	TC	-40	--	85	°C
Junction Temperature	Tj	--	--	125	°C
Storage Temperature	Tstg	-40	--	105	°C
ESD Sensitivity	ESD	--	--	2000	V
Reverse Voltage	VR	Reverse testing is not allowed			/
Reverse Current	IR			5	μA
Soldering Temperature	Tsld	350°C/3-5sec.			°C/S

Notes:

1. Luminous flux measurement tolerance: $\pm 5\%$
2. Forward voltage tolerance is $\pm 0.1V$
3. CRI measurement tolerance: ± 2

Drivers Data Sheet

Dimensions :

Driver Type	Model No.	Length	Width	Height
LED DRIVER 7W	ADD7W285mA	64.5mm	31mm	19.8mm
LED DRIVER 10-15W	ADD15W285mA	85mm	36mm	23mm
LED DRIVER 18-22W	ADD22W285mA	100mm	36mm	23mm
LED DRIVER 30W	ADD30W300mA	100mm	36mm	23mm
LED DRIVER 60W	ADD60W1500mA	94mm	36mm	24mm

1. Input & Output Parameters for 7W :

Parameter	Min	Normal	Max
Input Voltage (Vac)	100V	220V	265V
Input Power	6.2W	7.4W	8.1W
Power Factor	0.90	0.90	0.90
Output Voltage (Vdc)	20V	21V	22V
Output Current (mA)	270mA	280mA	285mA
Efficiency	88%	90%	92%
Surge	1.5KV	1.5KV	1.5KV

2. Input & Output Parameters for 10W-15W :

Parameter	Min	Normal	Max
Input Voltage (Vac)	100V	220V	265V
Input Power	11.9W	14.1W	17.52W
Power Factor	0.90	0.90	0.90
Output Voltage (Vdc)	40V	45V	54V
Output Current (mA)	270mA	285mA	295mA
Efficiency	88%	90%	92%
Surge	1.5KV	1.5KV	1.5KV

3. Input & Output Parameters for 18W-22W :

Parameter	Min	Normal	Max
Input Voltage (Vac)	100V	220V	265V
Input Power	18.2W	20.4W	23.6W
Power Factor	0.90	0.90	0.90
Output Voltage (Vdc)	53V	63V	72V
Output Current (mA)	270mA	285mA	290mA
Efficiency	88%	90%	92%
Surge	1.5KV	1.5KV	1.5KV

4. Input & Output Parameters for 30W :

Parameter	Min	Normal	Max
Input Voltage (Vac)	85V	220V	265V
Input Power	25.8W	28.4W	35.1W
Power Factor	0.90	0.90	0.90
Output Voltage (Vdc)	80V	88V	110V
Output Current (mA)	290mA	292mA	293mA
Efficiency	85.1%	89.3%	90%
Surge	0.5KV	0.5KV	0.5KV

5. Input & Output Parameters for 60W :

Parameter	Min	Normal	Max
Input Voltage (Vac)	100V	220V	320V
Input Power	52W	55W	61W
Power Factor	0.98	0.991	0.994
Output Voltage (Vdc)	30V	36V	40V
Output Current (mA)	1450mA	1500mA	1550mA
Efficiency	85%	88%	89%
Surge	4KV	4KV	5KV

Ordering Information

Model No.	Power	CCT	CBM
AD/L2000-7W01-3K	7W	3000K	
AD/L2000-7W01-4K		4000K	
AD/L2000-7W01		6500K	
AD/L2020-10W01-3K	10W	3000K	
AD/L2020-10W01-4K		4000K	
AD/L2020-10W01		6500K	
AD/L2020-15W01-3K	15W	3000K	
AD/L2020-15W01-4K		4000K	
AD/L2020-15W01		6500K	
AD/L2020-30W01-3K	30W	3000K	
AD/L2020-30W01-4K		4000K	
AD/L2020-30W01		6500K	
AD/L2021-60W01-3K	60W	3000K	
AD/L2021-60W01-4K		4000K	
AD/L2021-60W01		6500K	