DARKLIGHT DESIGN JUNO LED RECESSED ADJUSTABLE DOWNLIGHT 0164018FI



* can be dimmed via compatible DALI, 0-10v, trailing edge or leading edge drivers. Please specify your preference at the time of ordering.

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DARKLIGHT DESIGN JUNO LED RECESSED ADJUSTABLE DOWNLIGHT 0164018FI

LED 15 °

Power	8W	8W
CCT	2700K	3000K
CRI	=80(min)	=80(min)
Output V.	18V DC	18V DC
	350mA	350mA
Efficacy	53lm/W	55lm/W

Fitting: Die-cast aluminium ADC12 Ambient temperature: -15 °C~40 °C QTY/CTN: 27 PCS/CTN GW: 13.4kg/CTN CTN size: 420x420x465mm

8W 2700K

Lux			
h(m)	d(cm)	Em	Emax
1	28	1540	2650
2	56	385	697
3	85	171	309

8W 3000K

8W 2700K

8W 3000K

Lux

1

2

3

Lux

h(m)

1

2

3

h(m)

Lux			
h(m)	d(cm)	Em	Emax
1	25	2077	2730
2	52	519	727
3	78	230	322

d(cm) Em

46

93

139

d(cm)

47

95

143

745

186

82

Em

789

197

87

Emax

1140

295

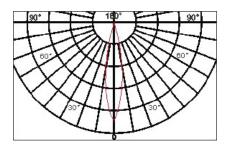
130

Emax

1210

315

139



LED 25 °

Power	8W	8W
CCT	2700K	3000K
CRI	=80(min)	=80(min)
Output V.	18V DC	18V DC
I	350mA	350mA
Efficacy	45lm/W	48lm/W

Fitting: Die-cast aluminium ADC12 Ambient temperature: -15 °C~40 °C QTY/CTN: 27 PCS/CTN GW: 13.4kg/CTN CTN size: 420x420x465mm

LED 35 °

Output V.

Efficacy

Power

CCT

CRI

L

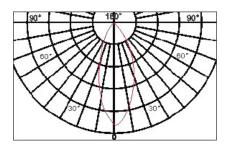
8W 2700K

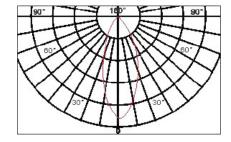
8W	8W	Lux		
2700K	3000K	h(m)	d(cm)	Er
=80(min)	=80(min)	1	61	58
18V DC	18V DC	2	121	14
350mA	350mA	3	183	62
45lm/W	46lm/W			
		8W 30	00K	

Fitting: Die-cast aluminium ADC12	l
Ambient temperature: -15 °C~40 °C	ł
QTY/CTN: 27 PCS/CTN	
GW: 13.4kg/CTN	
CTN size: 420x420x465mm	ć

LOX			
h(m)	d(cm)	Em	Emax
1	61	585	768
2	121	146	192
3	183	62	85

Lux			
h(m)	d(cm)	Em	Emax
1	60	597	784
2	120	149	201
3	181	66	88





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LED 15 °

Power	12W	12W
CCT	2700K	3000K
CRI	=80(min)	=80(min)
Output V.	18V DC	18V DC
1	500mA	500mA
Efficacy	48lm/W	48lm/W

Fitting: Die-cast aluminium ADC12 Ambient temperature: -15 °C~40 °C QTY/CTN: 27 PCS/CTN GW: 13.4kg/CTN CTN size: 420x420x465mm

12W 2700K

Lux			
h(m)	d(cm)	Em	Emax
1	26	2615	3630
2	52	653	936
3	82	290	415

12W 3000K

12W 2700K

12W 3000K

Lux

1

2

3

Lux

h(m)

1

2

3

h(m)

d(cm)	Em	Emax
26	2667	3750
53	667	982
89	296	436
	26 53	26 2667 53 667

d(cm) Em

46

92

138

d(cm)

48

96

144

1007

251

111

Em

1016

254

112

Emax

1540

395

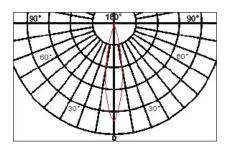
174

Emax

1610

413

182



LED 25 °

Power	12W	12W
CCT	2700K	3000K
CRI	=80(min)	=80(min)
Output V.	18V DC	18V DC
1	500mA	500mA
Efficacy	40lm/W	411m/W

Fitting: Die-cast aluminium ADC12 Ambient temperature: -15 °C~40 °C QTY/CTN: 27 PCS/CTN GW: 13.4kg/CTN CTN size: 420x420x465mm

LED 35 °

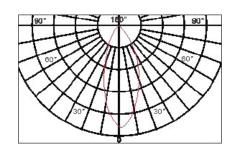
12W 2700K

Power	12W	12W	Lux	
CCT	2700K	3000K	h(m)	d(cm)
CRI	=80(min)	=80(min)	1	62
Output V.	18V DC	18V DC	2	122
1	500mA	500mA	3	184
Efficacy	40lm/W	411m/W		
	12W 3000K			
Fitting: Die-ca	Lux			

Fitting Ambient temperature: -15 °C~40 °C QTY/CTN: 27 PCS/CTN GW: 13.4kg/CTN CTN size: 420x420x465mm

	LOX						
	h(m)	d(cm)	Em	Emax			
	1	62	773	1100			
	2	122	194	275			
	3	184	86	122			
1000 00000							

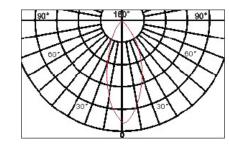
d(cm)	Em	Emax
61	789	1130
123	197	285
185	87	126
	61 123	61 789 123 197



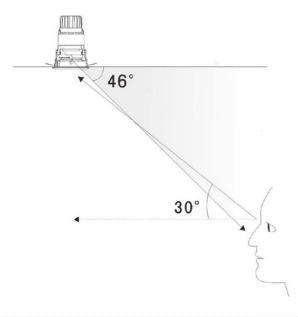
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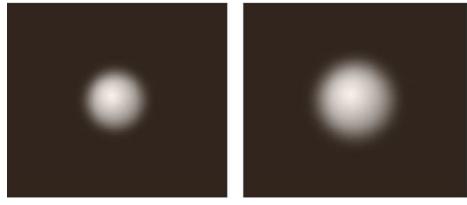
GLARE CONTROL

As shown in the diagram on the right, the glare-cut reaches 46° MAX, offering good glare control. The MAX cut-off which human can bear is 30° MAX at horizontal. Otherwise, glare is visible.

The glare-cut off is over 30°. The glare is consequently well kept beyond the glare area.

ACCURATE LIGHT DISTRIBUTION AND CONTROL

Available with beam angles at 15°, 25° or 35° to cater for differing requirements.





15°

25°

35°

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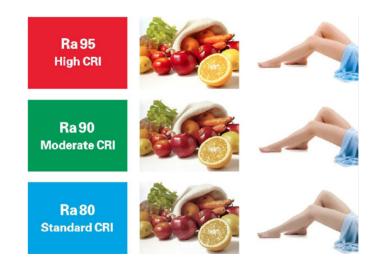
HIGH CRI

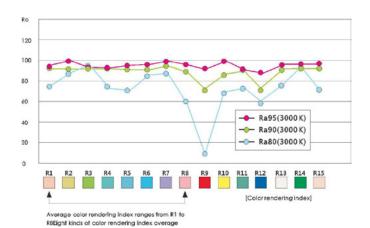
Utilizing a world top class LED chip which creates high color rendering with RA > 90 and makes the subject natural and fresh in a way that few other LED products can do at present.

Lighting in high power & high CRI results in higher definition of the colour and detail of the subject. Subsequently this fitting is an ideal lighting solution for both the retail sector and public spaces.

This fitting is available in CRI 80 or CRI 90.

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AVERAGE RA EVALUATION INDEX

Ra Evaluation Index is applied to estimate the color rendering index of the lighting product to see the reflection level of natural color compared to those by conventional lightings.

Average color rendering index ranges from RI to R8.

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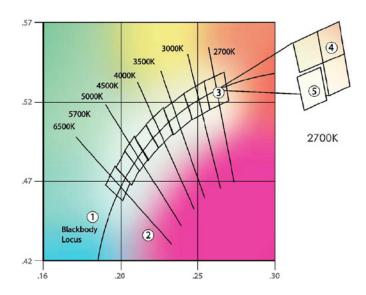
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RA CONSISTENCY

The requirement for high Ra consistency for the quality lighting and also faces the phenomenon of inconsistency in terms of Rain market. It is a headache of designers and the consumers. For this purpose, our LED chips are sourced at a high consistency from the quality chips manufacturers. All LED chips are sorted out, stored and processed in strict and scientific criterion to guarantee the LED chip in consistency in one batch.

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When LEDs are manufactured, the most challenging part is producing consistent and precise white color. Binning is the process of sorting the white LEDs into groups of similar white colors. The regulation of this process is outlined by the ANSI standards for tolerances of white color variations to fit within a color temperature group, or bin. Some LED manufacturers have adapted a more stringent process of sorting called micro-bins which allows for much smaller white color variations.

Our LEDs exceed the ANSI binning standards, giving our fittings optimal color matching. Definition of 'Binning' - when white LEDs are created, whether they be on the warm or cool end of the spectrum, there are always slight inconsistencies with regards to specific color temperatures.

- A. The arced black line in the graph represents the white color spectrum.
- B. These long intersecting lines represent the range, from one end of the line to the other, of variation in color for each corresponding color temperature.
- C. In order to keep the range of each temperature as close to the same color as possible, ANSI created tolerance zones. Only the LEDs that fall into this range are used for that particular color temperature, these are referred to as "bins".
- D. As you can see this bin still has plainly visible variations throughout. ANSI tolerance zones are adjacent to account for the challenges around manufacturing LED chips consistently.
- E. Once divided into smaller bins, the differences in color are much less, allowing for minimal variation when two or more LEDs are used together.

Although there is a cost associated with consistency, various LED chip manufacturers now make smaller bins available.

Micro-bin sizes vary between chip manufacturers and while micro-bins allow for better consistency by batch, there is commonly a color variation between batches.

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