

# CLARUS LED, EU

**Recessed Downlight** - Fixed high power LED with 13mm (1/2") trim and signature aluminum apure© louver. High performance Cree LEDs combined with precision optics for maximum performance. LED lifetime rated for 50,000 hours, given electrical specifications are met.

**Construction**

- Formed steel trim with powder coat paint finish combined with signature aluminum apure© louver, available in various colors and combinations.
- 300mA LED driver required for optimal performance and LED longevity.
- Made in Germany, Design by Porsche Design Studio.

**Lamp Module**

- 11W Cree LED module, includes integrated heat sink, and LED holder with adapter compatible with apure LED reflectors.

**Related Accessories** (one reflector per fixture required)

- AA0-10 - 10° aluminum LED reflector
- AA0-17 - 17° metalized molded plastic LED reflector
- AA0-24 - 24° metalized molded plastic LED reflector
- AA0-25 - 25° aluminum LED reflector
- AA0-36 - 36° metalized molded plastic LED reflector
- AA0-45 - 45° aluminum LED reflector
- AA3-300 - 300mA Driver (120-277V)

**Mounting**

- Mounts to ceiling via European torsion spring.

**Additional Information**

- 300mA driver available for purchase (AA3-300) as a separate accessory for use with LED fixtures.
- Damp location, wet location lens option.
- Cutout dimension - 110mm
- Minimum ceiling depth - 100mm

**ORDERING INFORMATION**

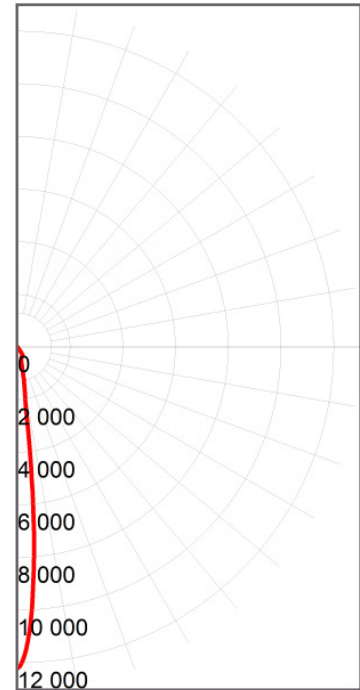
SERIES NO.	FIXED	TRIM FINISH	LOUVER FINISH	COLOR TEMP.	OPTIONS	DRIVER
AP91 - 11W LED downlight with trim	F - fixed downlight	WH - white BL - black CC - custom	WH - white powder coat NA - natural anodized BA - black anodized TI - titan anodized GO - gold anodized BR - bronze anodized GM - gun metal anodized RG - rose gold anodized	3080 - 3000K (80 CRI) 3090 - 3000K (90+ CRI)	[blank] - standard fixture WL - wet location lens	EU - requires driver

AP91F- \_\_ / \_\_ - \_\_\_\_ -EU

**ORDERING EXAMPLE** AP91F-WH/NA-3080-WL-EU

<b>Delivered Performance</b>	<b>11 watts</b>	
Colored Rendering index	80 CRI	90+ CRI
Lumens per Watt	78	59
Source Lumens	1015	761
<b>Delivered Lumens</b>	<b>861</b>	<b>646</b>

**Polar Candela Distribution**



**Illuminance at a Distance**

Distance	Center Beam fc	Beam Width
2.0 ft	2840.87 fc	0.5 feet
4.0 ft	710.22 fc	1.1 feet
6.0 ft	315.65 fc	1.3 feet
8.0 ft	177.55 fc	1.7 feet
10.0 ft	113.63 fc	2.1 feet
12.0 ft	78.91 fc	2.2 feet
14.0 ft	57.98 fc	2.5 feet
16.0 ft	44.39 fc	2.8 feet

**Zonal Lumen Summary**

Zone	Lumens	% Luminaire
0-30	759.6	88.22%
0-40	859.5	99.82%
0-60	860.8	99.98%
60-90	0.2	0.02%
90-120	0.0	0%

<b>CCY Multiplier</b>	<b>3000K</b>	
Color Rendering Index	80 CRI	90+ CRI
R9 Value	0	60
Multiplier for Lumen Output	1.00	0.75

**Coefficients of Utilization - Zonal Cavity Method**

Effective Floor Cavity Reflectance: 20%

RC % RW % RCR	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.15	1.13	1.11	1.09	1.13	1.11	1.09	1.08	1.07	1.06	1.04	1.03	1.02	1.01	1.00	0.99	0.98	0.97
2	1.11	1.08	1.05	1.02	1.09	1.06	1.03	1.01	1.03	1.01	0.99	1.00	0.98	0.97	0.97	0.96	0.95	0.93
3	1.08	1.03	1.00	0.97	1.06	1.02	0.99	0.96	0.99	0.97	0.94	0.97	0.95	0.93	0.95	0.93	0.92	0.90
4	1.04	0.99	0.95	0.92	1.03	0.98	0.94	0.92	0.96	0.93	0.91	0.94	0.92	0.90	0.93	0.90	0.89	0.87
5	1.01	0.96	0.91	0.88	1.00	0.95	0.91	0.88	0.93	0.90	0.87	0.92	0.89	0.87	0.90	0.88	0.86	0.85
6	0.98	0.92	0.88	0.85	0.97	0.92	0.88	0.85	0.90	0.87	0.84	0.89	0.86	0.84	0.88	0.85	0.83	0.82
7	0.96	0.89	0.85	0.82	0.95	0.89	0.85	0.82	0.88	0.84	0.82	0.87	0.84	0.81	0.86	0.83	0.81	0.80
8	0.93	0.87	0.83	0.80	0.92	0.86	0.82	0.80	0.85	0.82	0.79	0.85	0.81	0.79	0.84	0.81	0.79	0.78
9	0.91	0.84	0.80	0.78	0.90	0.84	0.80	0.78	0.83	0.80	0.77	0.82	0.79	0.77	0.82	0.79	0.77	0.76
10	0.89	0.82	0.78	0.76	0.88	0.82	0.78	0.76	0.81	0.78	0.75	0.81	0.77	0.75	0.80	0.77	0.75	0.74