

# ACORN Gen2 with Rod Suspension

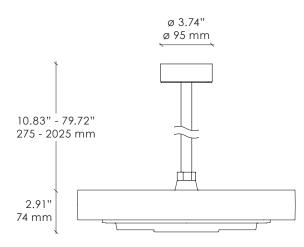
### Acorn Gen2

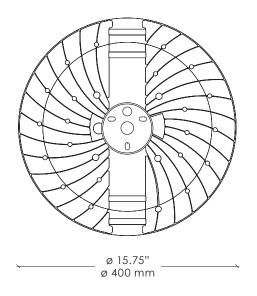
### with rod suspension

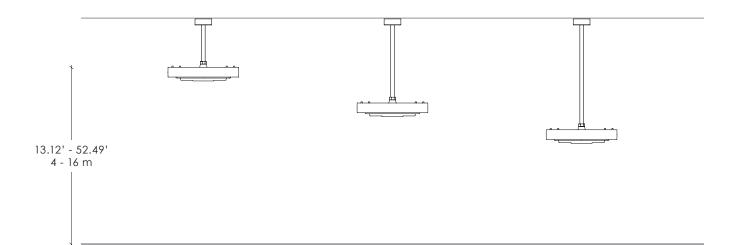




Other colors available on request







### Features

### ↘ ACORN GEN2 WITH REFLECTOR

ACORN Gen2 reflector is available in two materials: metal and plastic.\*

Metal reflector comes in three standard colors:



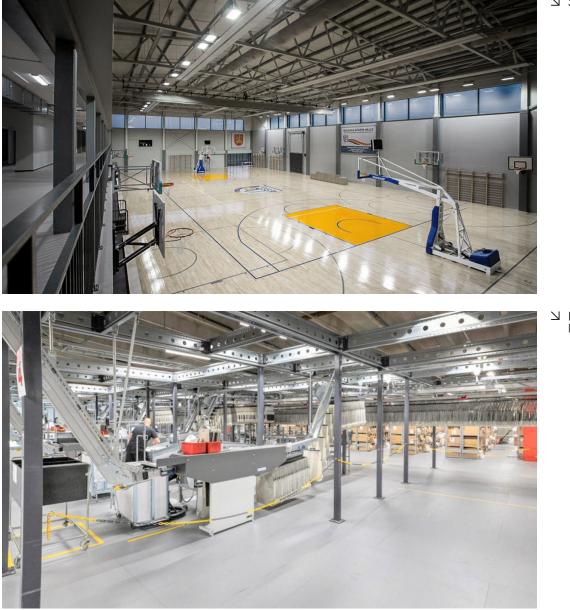
and offers the flexibility to match the luminaire's color, with additional color options available on request.

Plastic reflector is available exclusively in white (RAL 9016)!



\* See the Accessories section below.

## **Applications**



Sports hall

⊔ Industrial luminaires Technical information

V	220 - 240	Body:	Die-cast aluminium
Hz	50 - 60	Dimming:	DALI / 1-10 V / Bluetooth / Non dimmable
W	50 - 270 (1	Sensor:	Microwave / PIR / PIR + Daylight
	30 - 200 (2	Initial chromaticity:	MacAdam 5
	30 - 150 <sup>(3</sup>		MacAdam 3 (on request)
lm	4 902 - 45 172 (4	Lifetime:	100 000 h (L80B10) at Ta = 77 °F / 25 °C*
lm/W	Up to 167	Warranty:	5 years
Κ	3000 / 4000 <sup>(5</sup>		2 years (emergency configuration)
°F	-40 up to +122 <sup>(6</sup>	Optics:	Symmetrical / Asymmetrical
°C	-40 up to +50 <sup>(6</sup>	Mounting:	On Rod
CRI	>70 / >80 / >90 <sup>(5</sup>	Human Centric	
		Lighting:	Available
		Neto weight:	Up to 13.49 lbs / 6.12 kg

- <sup>1)</sup> With optics C01 / C02 / C03
- <sup>2)</sup> With optics D02 / D03
- <sup>3)</sup> Emergency configuration
- $^{\scriptscriptstyle 4)}$  Lumen output indicated at 4000 K, CRI > 70
- <sup>5)</sup> 1800 / 2200 / 2700 / 3500 / 5000 / 5700 / 6500 K available on request along with other not listed CRI and CCT
- <sup>6)</sup> Operating temperature differs depending on chosen output wattage
- <sup>7)</sup> Emergency configuration IP40
- <sup>8)</sup> Ball proof: tested according to DIN 57710-13
- <sup>9)</sup> Check SundaHus web page for product assessment results

\* This value is only informative and may change according to selected article. LED Lifetime is strongly depending from LEDs current and junction temperature – increase in LED current and luminaire power lead to increase of junction temperature and as consequence lifetime decrease. Thus, luminaire models with lower power, lower current (and lower junction temperature) will have higher lifetime than standard models. And high power and high current luminaire models may have negative lifetime deviation comparing to standard models. To receive precise value please contact VIZULO export representatives.

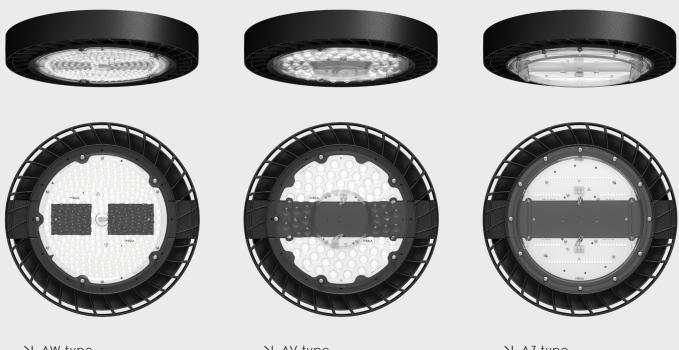
Technical parameters for final product can differ from typical data by 7% due to special conditions of LED manufacturing processes.

### Model name principles

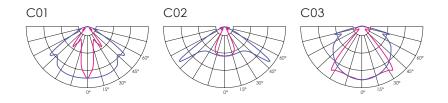
	E - Eco
AC	
Power [W] 030 270	
Color rendering index      ≥70 - 7        ≥80 - 8      ≥90 - 9	
Color temperature [K]      1800 6500        Standard values:      3000 K - 30        4000 K - 40	
Lens asymmetric round - C01 CZ9 symmetric round - D01 DZ9	
LED module type 66 lens - AV type 254 lens - AW type 88 lens - AZ	
<b>LED quantity</b> 008 124	
Color black (RAL 9005) - CB silver (RAL 9006) - CS asphalt (DB 703) - CA other colors available on request	
Mounting rod suspension - R	
Through wiring      no - N        16 AWG / 1.5 mm² - V	
Dimming non dimmable - N DALI - D 1-10 V - A bluetooth - B	
Surge protection	
1 2 kV integrated in driver - B 2 kV integrated in driver - C 4 kV integrated in driver - E separate built-in 10 kV/10 kA SPD - H	
Insulation class I - 1 class II - 2	
Sensor no sensor - NS daylight - DL microwave (49.2' / 15 m) - MW PIR Basic (<16.4' / 5 m) - PB PIR DALI Basic (<16.4' / 5 m) - PL PIR DALI Basic (16.4'-32.8' / 5-10 m) - PI PIR DALI Basic (26.3'-52.5' / 8-16 m) - PH PIR DALI Pro (16.4'-32.8' / 5 - 10 m) - P2 PIR DALI Pro (36.1'-52.5' / 11 - 16 m) - P3	
Operation mode normal - N slave - S master - M	
Emergency no emergency - 0 1 hour - 1 3 hours - 3	

## LED modules

Туре	Min LED QTY per luminaire	Max LED QTY per luminaire	LED step	LED type	Lens type	Layout
AW	44	124	4	Eco	type 254 lens	
AV	8	44	4	Eco	type 66 lens	
AZ	16	88	8	Eco	type 88 lens	

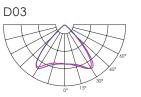


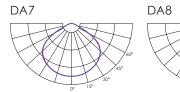
→ AW type LED module → AV type LED module ► AZ type LED module Optics

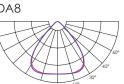












### Sensors

### MICROWAVE SENSOR (ON-OFF)

Power source: Rated load: HF system: Hold-time: Sensitivity: Daylight sensor: Detection range (max): Detection angle: Working temperature: IP rating: Certificates: 220 - 240 VAC 800 W 5.8 GHz (± 75 MHz) 2 s ~ 30 min (selectable) 10% / 50% / 75% / 100% 2 ~ 500 lux, disable 65.6' / 20 m (Ø); 49.2' / 15 m (H) (adjustable) 360° -4 °F ~ +122 °F / -20 °C ~ +50 °C \* IP65 Semko, CB, CE, EMC, RED, RCM



### MICROWAVE SENSOR (DALI)

Power source:		
Rated load:		
HF system:		
Hold-time:		
Sensitivity:		
Daylight sensor:		
Stand-by period: (corridor function)		
Stand-by dimming level:		
Detection range (max):		
Detection angle:		
Working temperature:		
IP rating:		
Certificates:		

120 - 277 VAC max 20 DALI devices 5.8 GHz (±75 MHz) 2 s ~ 30 min (selectable) 10% / 50% / 75% / 100% 2 ~ 500 lux, disable 0 s ~ 1 h, +∞ (selectable) 10% / 20% / 30% / 50% 65.6' / 20 m (Ø); 49.2' / 15 m (H) (adjustable) 360° -4 °F ~ +122 °F / -20 °C ~ +50 °C \*

Semko, CB, CE, EMC, RED, RCM



### DAYLIGHT SENSOR

Power source: DALI output devices: DALI output: Type: Max detection area (Ø): Max installation height: Presence detection angle: Light-control range: Hold-time: Working temperature: Remote control (optional): 220 - 240 V 10 / 32 2 channels light and presence 23.0' - 29.5' / 7 - 9 m 16.4' / 5 m 40° - 90° (fixed or adjustable) 10 - 800 lux user-definable -4 °F ~ +122 °F / -20 °C ~ +50 °C \* set and control with IR remote control \*\*



\* Minimal luminaire working temperature will be same or higher than for specific sensors (if used)

\*\* Remote control can be ordered separately. See the Accessories section below

IP65

### MID-RANGE DALI-2 MULTISENSOR (PIR SENSOR)



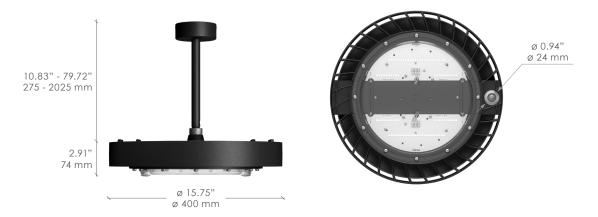
DALI

16.4' - 32.8' / 5 - 10 m 26.25' / 8 m (@H = 32.8' / 10 m) 72° (tagential) / 44° (radial) 30° - 40° 0.5 - 2000 IUX (adjustable) -4 °F ~ +122 °F / -20 °C ~ +50 °C \*



### ± 7.2 °F / ± 4 °C

set and control with IR remote control \*\*



### LONG-RANGE DALI-2 MULTISENSOR (PIR SENSOR)

Power source: Mounting height (H):

Detection range for PIR (max): Detection angle for PIR detection angle "low": Detection angle for PIR detection angle "high": Detection angle for light measurement: Light-control range: Working temperature: Min temperature difference between ambient temperature and detected object: Remote control (optional): DALI 26.3' - 39.4' / 8 - 12 m (range position "low") 39.4' - 52.5' / 12 - 16 m (range position "high") 59.1' / 18 m (@H = 52.5' / 16 m) 72°

set and control with IR remote control \*\*

60°

13°

0.5 - 2000 IUX (adjustable) -4 °F ~ +122 °F / -20 °C ~ +50 °C \*



10.83" - 79.72" 275 - 2025 mm 3.15" 80 mm 2.48" 2.91" 63 mm

± 7.2 °F / ± 4 °C

19.41" 493 mm

Minimal luminaire working temperature will be same or higher than for specific sensors (if used)

\*\* Remote control can be ordered separately. See the Accessories section below

ø 15.75" ø 400 mm

74 mm

## **Emergency lighting**

ACORN Gen2 has an option to have Emergency lighting (up to 150 W)

### Features

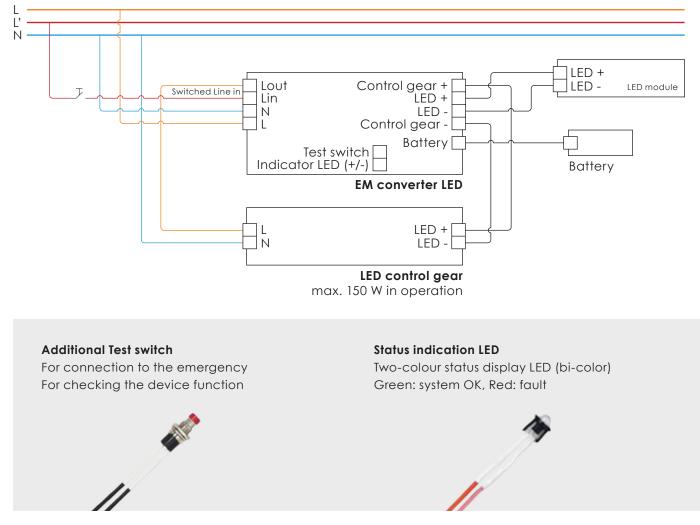
- Self contained emergency lighting
- 1 or 3 h rated duration
- Dimmable and non-dimmable versions
  available
- Constant power output
- Deepdischarge protection

While Mains voltage is present Emergency controller is also charging the connected battery. Rated emergency duration can be chosen (based on battery capacity) and can be 1 h or 3 h.

### Operation

ACORN Gen2 luminaire which is equiped with Emergency lighting will work in 2 modes based on electrical conditions:

- If Mains voltage is present, luminaire will work with its programmed power (just like in case without Emergency lighting;
- If there is outage of Mains voltage, luminaire will work in Emergency mode with little power (about 2.5 W) while feeding from the battery.



### Simple wiring diagram

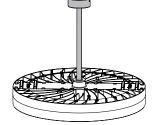
### Rod Rod length [ft] length [m] Non dimmable

Rod with ceiling box

black (RAL 9005)

Accessories

0.82	0.25	Art. 70059010	Art. 70059018
1.64	0.5	Art. 70059011	Art. 70059019
2.46	0.75	Art. 70059012	Art. 70059020
3.28	1	Art. 70059013	Art. 70059021
4.10	1.25	Art. 70059014	Art. 70059022
4.92	1.5	Art. 70059015	Art. 70059023
5.74	1.75	Art. 70059016	Art. 70059024
6.56	2	Art. 70059017	Art. 70059025



ACORN Gen2 rod adapter	Art. 70058042
ACOMIN Genz lou uuupier	

DALI

### ACORN Gen2 reflector from metal

V	vhite RAL 9016	Art.	70058047
li	ght grey RAL 7035	Art.	70058043
b	black RAL 9005	Art.	70058044

Other colors available on request



### ACORN Gen2 reflector from plastic

white RAL 9016	 

Other colors NOT available for plastic version!

equiped with PIR function

Remote control Art. 70000670 Available only in combination with a luminaire

Art. 70058028



\* Custom cable lengths available on request

### Cable order information\*

monnano					
Cable length [ft]	Cable length [m]	2 x 16 AWG/ 1.5 mm <sup>2</sup>	3 x 16 AWG/ 1.5 mm <sup>2</sup>	4 x 16 AWG/ 1.5 mm <sup>2</sup>	5 x 16 AWG/ 1.5 mm <sup>2</sup>
1.6	0.5	Art. 70100184	Art. 70100179	Art. 70100402	Art. 70100409
3.3	1	Art. 70100156	Art. 70100193	Art. 70000527	Art. 70100220
4.9	1.5	Art. 70100391	Art. 70100258	Art. 70100403	Art. 70100410
6.6	2	Art. 70100202	Art. 70100177	Art. 70000515	Art. 70100262
8.2	2.5	Art. 70100392	Art. 70100213	Art. 70100404	Art. 70100411
9.8	3	Art. 70100166	Art. 70100178	Art. 70000529	Art. 70100217
13.1	4	Art. 70100172	Art. 70100144	Art. 70000530	Art. 70100189
16.4	5	Art. 70100173	Art. 70100146	Art. 70000531	Art. 70100185
19.7	6	Art. 70100099	Art. 70000512	Art. 70000532	Art. 70000370
23.0	7	Art. 70100174	Art. 70100182	Art. 70000533	Art. 70100201
26.3	8	Art. 70100152	Art. 70000630	Art. 70000534	Art. 70100212
29.5	9	Art. 70100176	Art. 70000381	Art. 70000535	Art. 70100192
32.8	10	Art. 70100153	Art. 70000631	Art. 70000536	Art. 70000387
36.1	11	Art. 70100191	Art. 70100143	Art. 70000537	Art. 70000388
39.4	12	Art. 70100167	Art. 70100147	Art. 70000538	Art. 70100200
42.7	13	Art. 70100186	Art. 70100187	Art. 70000539	Art. 70100412
45.9	14	Art. 70100204	Art. 70100164	Art. 70000540	Art. 70100165
49.2	15	Art. 70100380	Art. 70100030	Art. 70000541	Art. 70100183
65.6	20	Art. 70100393	Art. 70100397	Art. 70100405	Art. 70100413
82.0	25	Art. 70100276	Art. 70100398	Art. 70100406	Art. 70100414

## Certification



### References

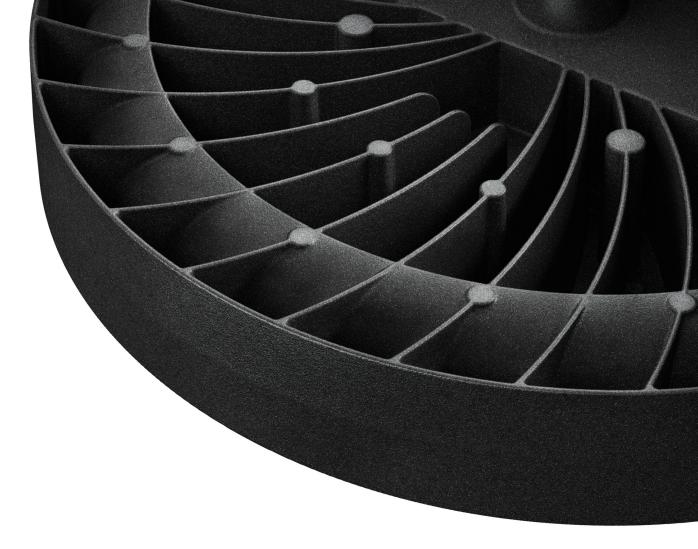


Ы Hestheimar horse farm, Iceland





Ы Warehouse in Halmstad, Sweden



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