

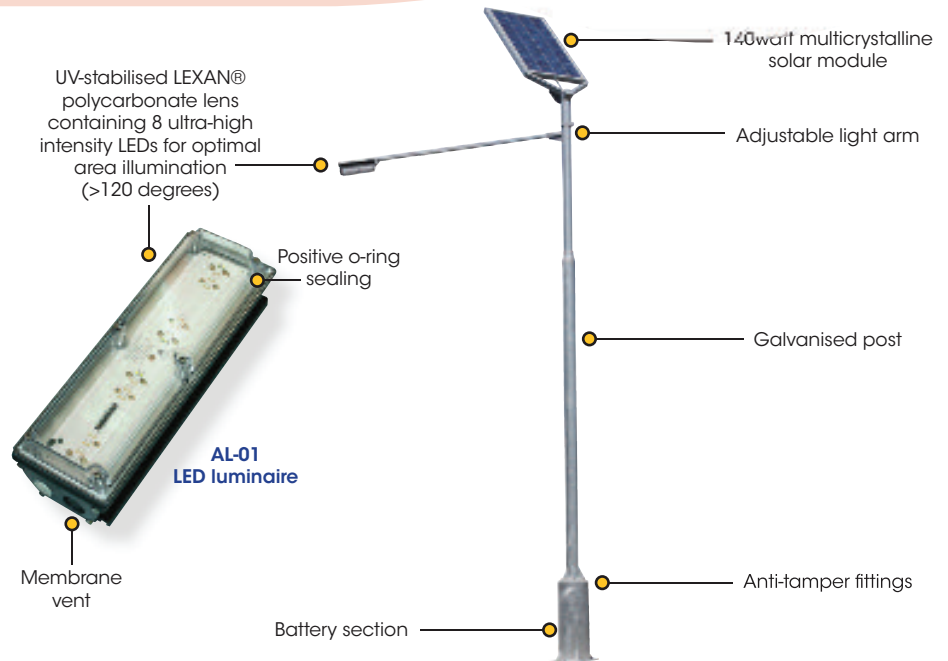
SAL-01

Solar LED Area Light

Avlite
www.avlite.com
AUTHORISED DISTRIBUTOR

Features

- Solar powered
- Independent from mains power
- Uses state-of-the-art high performance power LEDs
- Toughened polycarbonate lens to withstand harsh environmental conditions & vandalism
- Designed to meet cyclonic conditions
- Adjustable ON time from 1 hour to dusk-till-dawn
- Waterproof light head, rated IP68
- Vandal-resistant battery enclosure
- 50,000 hour rated LEDs



Avlite's state-of-the-art Solar LED Area Light provides users with the perfect solution for lighting remote locations such as shelters, car parks and maintenance areas where connection to power grid is unfeasible.

The new SAL-01 Solar LED Area Light sets a new standard in energy efficiency and light output.

Each LED bank is driven by high efficiency LED drivers maximising light output and LED life. The intensity is maintained at a constant level over various voltage shifts.

The light uses a 140watt multicrystalline solar panel, and Avlite's unique AL-01 LED Luminaire.

The light head body is constructed from extruded aluminium with injection-moulded UV-stabilised LEXAN® polycarbonate glass-filled end caps for superior strength and durability. The injection-moulded LEXAN® lens is fitted to the aluminium body with a marine grade o-ring ensuring a superior sealing (IP68 waterproof).

The weather resistant galvanised mounting pole securely houses the two 55Ah SLA batteries and 10Amp regulator in its base for ease of servicing after years of maintenance-free operation.

The light begins operation automatically, as soon as the ambient light threshold drops sufficiently, and once installed, requires minimal maintenance.

Optional Multiple Colour LED Combinations

The SAL-01 Solar LED Area light can be manufactured using different coloured LEDs, enabling the colour of the light to be altered using the optional Radio Control. If required the light can also be set to cycle through multiple colours adding another dimension to LED area lighting.



Secure battery housing at base of Solar LED Area Light



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total airport solutions

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SAL-01

Solar LED Area Light

SPECIFICATIONS •

Light Characteristics

Light Source 8 ultra-high intensity white (warm daylight) LEDs
LED Life Expectancy (hours) >50,000

Photometry

Total Luminous Flux (lm) 1360
Luminous Efficiency (lm/W) 69.7

Electrical Characteristics

Voltage (V) 12.00
Current (A) 1.637
Power (W) 19.5
Power Factor 1.0
Circuit Protection Integrated
Temperature Range -40 to 55°C

Spectral Characteristics

CIE 1931 2 deg observer (x,y) ⁽¹⁾ (0.312, 0.336)
CIE 1976 2 deg observer (u',v') ⁽¹⁾ (0.195, 0.472)
Correlated Color Temperature ⁽¹⁾ 6500 K
Color Rendering Index ⁽¹⁾ 71
Color Spatial Uniformity ⁽²⁾ 0.0207

Solar Characteristics

Solar Module Type Multicrystalline
Output (watts) 140W
Solar Module Efficiency (%) 14
Charging Regulation Integrated charge regulator

Power Supply

Battery Type SLA (Sealed Lead Acid)
Battery Capacity (Ah) 110Ah (2 x 55Ah batteries)
Nominal Voltage (v) 12
Operation without sunlight (autonomy nights) 5 night (typical)

Physical Characteristics

Body Material (light head) Extruded aluminium chassis with LEXAN® polycarbonate glass filled end caps - UV-stabilised
Lens Material (light head) LEXAN® Polycarbonate - UV stabilised
Mounting (light head) Adjustable along 78mm parallel channels
Height (light head) (mm/inches) 85 / 3³/₈
Width (light head) (mm/inches) 110 / 4¹/₃
Length (light head) (mm/inches) 320 / 12¹/₂
Mass (light head) (kg/lbs) 1.5 / 3.3
Body Material (post) Mild steel (hot-dipped galvanised)
Mounting (post) 4 x 22mm holes
Height (complete assembly) (mm/inches) 7160 / 281⁷/₈
Mass (complete assembly) (kg/lbs) 250 / 551
Product Life Expectancy Up to 12 years

Certifications

CE EN61000-6-3:1997, EN61000-6-1:1997
Quality Assurance ISO9001:2008

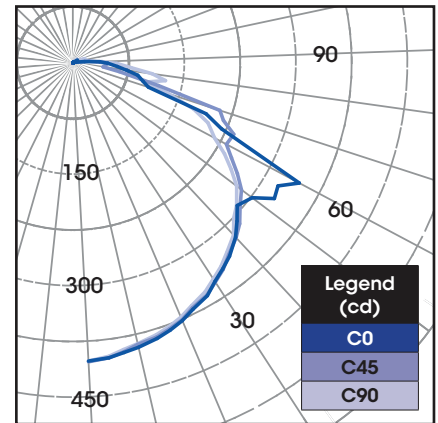
Intellectual Property

Trademarks AVLITE® is a registered trademark of Avlite Systems

Warranty *

1 year
• Multiple Color LED Combinations
• Dual arm assembly

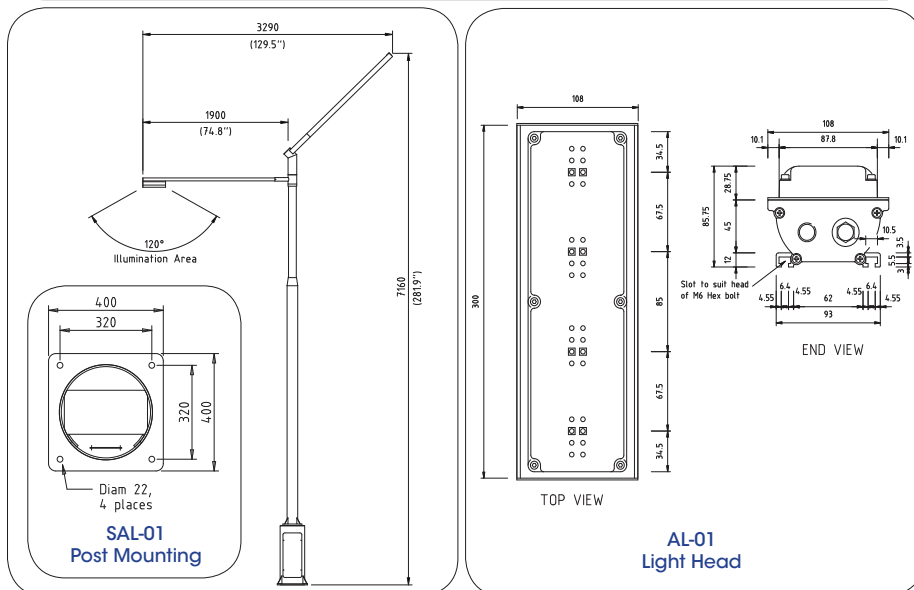
Options Available



INTENSITY SUMMARY (cd)						
Gamma	C-Plane					Output Lumens
	C0	C22.5	C45	C67.5	C90	
0.0	409	409	409	409	409	
5.0	411	410	409	409	409	39
10.0	408	407	407	406	406	
15.0	402	401	403	402	402	114
20.0	396	395	395	393	392	
25.0	388	386	386	383	383	178
30.0	377	377	376	373	372	
35.0	362	363	361	359	356	225
40.0	343	342	344	338	339	
45.0	321	323	322	320	317	248
50.0	293	298	298	294	292	
55.0	327	309	267	263	257	250
60.0	345	316	234	227	216	
65.0	192	204	217	184	174	191
70.0	98	90	119	110	101	
75.0	73	64	41	124	108	82
80.0	47	44	47	61	59	
85.0	16	22	22	24	21	26
90.0	3	4	3	3	2	

ZONAL LUMENS AND PERCENTAGES			
Zone	Lumens	% Lamp	% Luminaire
0-30	331	N/A	24.3
0-40	556	N/A	40.9
0-60	1054	N/A	77.5
0-90	1352	N/A	99.4
40-90	796	N/A	58.5
60-90	298	N/A	21.9
90-180	8	N/A	0.6
0-180	1360	N/A	100.0

Light Output Ratio = N/A



* Specifications subject to change or variation without notice
(1) Value is computed from the weighted average of the spatial measurements
(2) Value is the maximum deviation of the spatial U and V measurements from the weighted average

