



Valiant Farm - Wonderland Rev.A (External)

Installation : Proposed Lighting

Project number : QUO-48626-C2X7F2

Customer : Palmer Liggins

Processed by : V Petrosino

Date : 19.05.2021

Project description:

All room/exterior area dimensions to be checked on-site prior to ordering.

Calculation based on standard reflectance values as 70/50/20 and Maintenance Factor 0.8.

Lighting designed to CIBSE guidelines where applicable and/or client requirements, all stated lux values are for overall averages across the room reference plane.

Mounting height 3m for wall mounted fittings on low building. 5m for all other fittings.

AMLED30 to be tilted 30degrees

AAZLED50 to be tilted 10degrees

Please note as Ansell can't supply columns these must be outsourced.

It is the responsibility of the customer to ensure any scheme provided by Ansell meets all requirements of the end user.

The following values are based on precise calculations performed on calibrated lamps and luminaires, and their configurations, whereby gradual, unavoidable deviations can occur in practice. All guarantee claims are excluded for the specified data.

This exclusion of liability applies irrespective of the legal grounds for both damages and consequential damages suffered by users and third parties.

Object : Valiant Farm - Wonderland Rev.A (External)
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1 Luminaire data

1.1 ANSELL, FLOODLIGHTING - Aztec LED A... (AAZLED50/ASY)

1.1.1 Data sheet

Manufacturer: ANSELL



AAZLED50/ASY Rectangular projector FLOODLIGHTING - Aztec LED Asymmetric Floodlight
AAZLED50/ASY
FLOODLIGHTING
Aztec LED Asymmetric Floodlight
LED 50W - Cool White

Supplied c/w Integral Driver

- High performance die-cast aluminium LED floodlight
- High output, high efficiency asymmetric lens technology for anti-light pollution
- Pre-installed breathable gland prevents condensation
- High specification IP66, IK08 ratings
- 60x120° beam angle
- 50W exceeds performance of 70W HQI-TS
- Pre-wired with 1.5 metre of rubber insulated cable for ease of installation
- LED lifespan L80 B10 54,000 hours
- Non-dimmable

Option
/PIR

Operating Temp -30°C to 50°C

- Suitable for external use
- 5 Year Product Warranty
- IP66

Luminaire data

Absolute Photometry
Luminaire efficacy : 134.54 lm/W
Classification : A40 ↓100.0% ↑0.0%
CIE Flux Codes : 44 86 99 100 100
UGR 4H 8H : 37.0 / 30.9
Control gear : Electronic ballast
Power : 50 W
Luminous flux : 6727 lm

Equipped with

Quantity : 1
Designation : LED single 840
Colour : 4000K
Socket : --
Colour reproduction : --

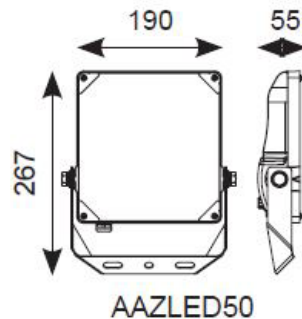
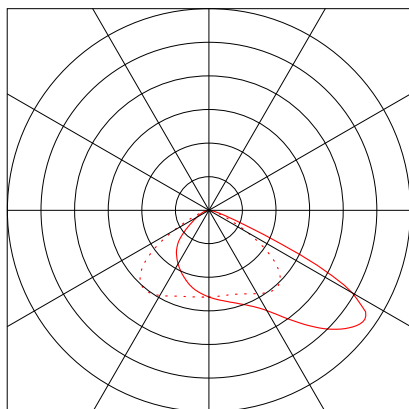
Dimensions : 164 mm x 98 mm x 1 mm



1 Luminaire data

1.1 ANSELL, FLOODLIGHTING - Aztec LED A... (AAZLED50/ASY)

1.1.1 Data sheet





1 Luminaire data

1.2 ANSELL, FLOODLIGHTING - Mira LED Floodlight (AMLED30)

1.2.1 Data sheet

Manufacturer: ANSELL



AMLED30 Projector FLOODLIGHTING - Mira LED Floodlight
AMLED30
FLOODLIGHTING
Mira LED Floodlight
LED 30W - Cool White

Supplied c/w Integral Driver

- Architectural slim die-cast LED floodlight
- 10W LED ideal for halogen replacement
- 30W LED comparable light output to 35W HQI
- 50W LED comparable light output to 70W HQI
- 100W LED exceeds performance of 150W HQI
- 200W LED comparable performance to 400W HQI
- Optically textured glass for enhanced light output
- Heat sink design provides optimum LED life
- Graphite textured paint finish
- Pre-wired with 1 metre of rubber insulated cable for ease of installation
- PIR versions complete with manual override facility
- LED lifespan L70 30,000 hours
- Non-dimmable

Note: 100W and 200W versions are not suitable for interior use

Options

/PC Electronic Photocell

Operating Temp -20°C to 50°C

- Suitable for both internal and external use
- 5 Year Product Warranty
- IP65

Luminaire data

Luminaire efficiency : 81.495%
Luminaire efficacy : 90.93 lm/W
Classification : A50 ↓100.0% ↑0.0%
CIE Flux Codes : 62 93 99 100 81
UGR 4H 8H : 25.0 / 25.0
Control gear : Electronic ballast
Power : 31 W
Luminous flux : 2818.9 lm

Equipped with

Quantity : 1
Designation : LED
Colour : 840/4000K
Luminous flux : 3459 lm
Socket : --
Colour reproduction : 1B/80...89

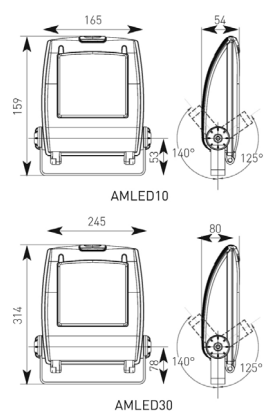
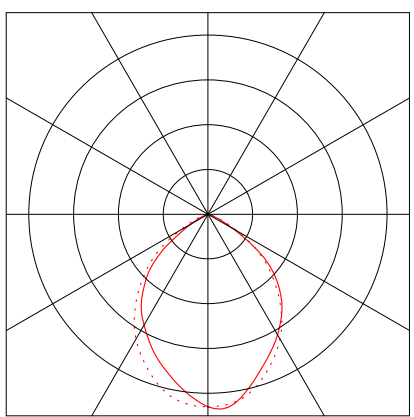
Dimensions : 243 mm x 323 mm x 79 mm



1 Luminaire data

1.2 ANSELL, FLOODLIGHTING - Mira LED Floodlight (AMLED30)

1.2.1 Data sheet





2 Exterior 1

2.1 Description, Exterior 1

2.1.1 Floor plan





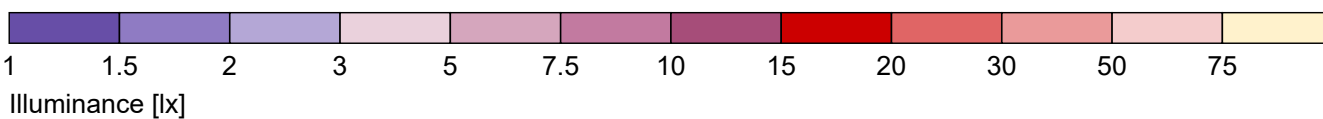
2 Exterior 1

2.2 Summary, Exterior 1

2.2.1 Result overview, Area 1



109 134 x [m]



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80

Total luminous flux of all lamps	139909 lm
Total power	1151 W
Total power per area (8988.59 m ²)	0.13 W/m ²
Upward light ratio (ULR)	0.01

Illuminance

Average illuminance	Em	10 lx
Minimum illuminance	Emin	1 lx
Maximum illuminance	Emax	86 lx
Uniformity Uo	Emin/Em	1:7.7 (0.13)
Diversity Ud	Emin/Emax	1:65.2 (0.02)

Type No.Make

1	10		ANSELL	
			Order No.	: AAZLED50/ASY
			Luminaire name	: FLOODLIGHTING - Aztec LED Asymmetric Floodlight
			Equipment	: 1 x LED single 840 50 W / 6727 lm
2	21		Order No.	: AMLED30
			Luminaire name	: FLOODLIGHTING - Mira LED Floodlight
			Equipment	: 1 x LED 31 W / 3459 lm

The ULR value has been calculated without obstruction by other objects.

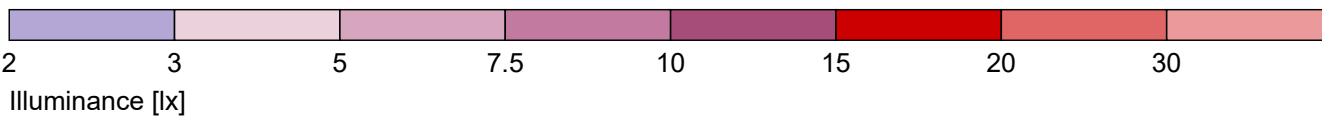


2.2 Summary, Exterior 1

2.2.2 Result overview, Area 2



109 134 x [m]



General



Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80

Total luminous flux of all lamps	139909 lm
Total power	1151 W
Total power per area (8988.59 m ²)	0.13 W/m ²
Upward light ratio (ULR)	0.01

Illuminance

Average illuminance	Em	10 lx
Minimum illuminance	Emin	3 lx
Maximum illuminance	Emax	35 lx
Uniformity U _o	Emin/Em	1:3.98 (0.25)
Diversity U _d	Emin/Emax	1:13.4 (0.07)

Type No.Make

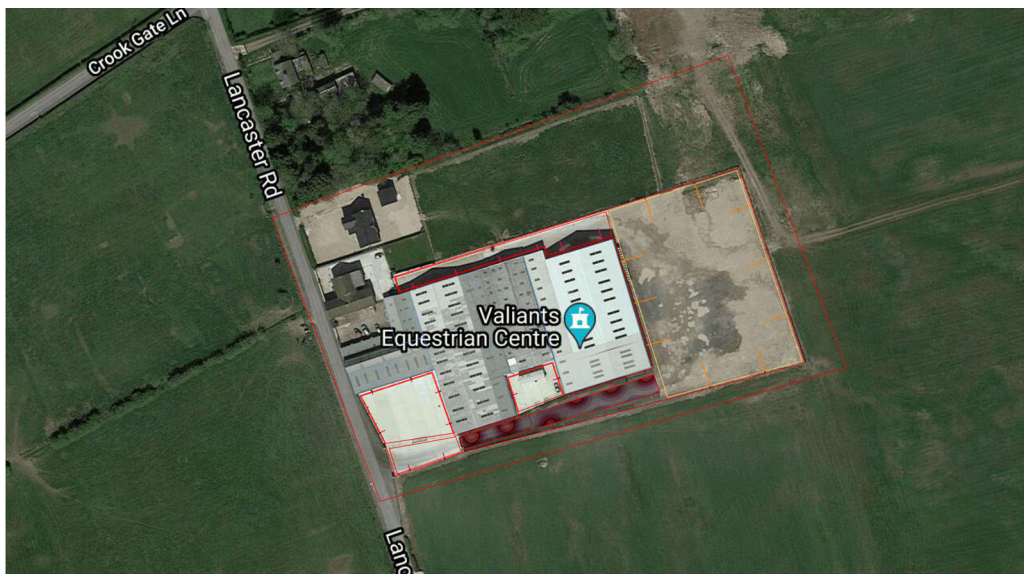
ANSELL	
1	10
	Order No. : AAZLED50/ASY Luminaire name : FLOODLIGHTING - Aztec LED Asymmetric Floodlight Equipment : 1 x LED single 840 50 W / 6727 lm
2	21
	Order No. : AMLED30 Luminaire name : FLOODLIGHTING - Mira LED Floodlight Equipment : 1 x LED 31 W / 3459 lm

The ULR value has been calculated without obstruction by other objects.

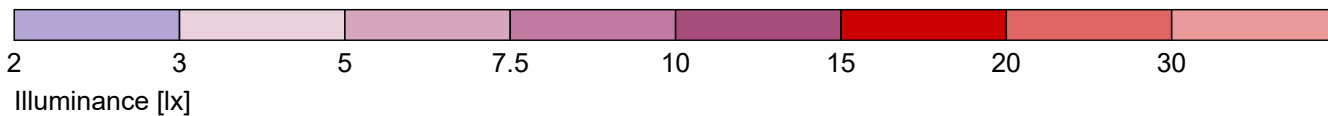


2.2 Summary, Exterior 1

2.2.3 Result overview, Area 3



109 134 x [m]



General



Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80

Total luminous flux of all lamps	139909 lm
Total power	1151 W
Total power per area (8988.59 m ²)	0.13 W/m ²
Upward light ratio (ULR)	0.01

Illuminance

Average illuminance	Em	9 lx
Minimum illuminance	Emin	2 lx
Maximum illuminance	Emax	36 lx
Uniformity Uo	Emin/Em	1:4.39 (0.23)
Diversity Ud	Emin/Emax	1:17.4 (0.06)

Type No.Make

ANSELL	
1	10
	Order No. : AAZLED50/ASY Luminaire name : FLOODLIGHTING - Aztec LED Asymmetric Floodlight Equipment : 1 x LED single 840 50 W / 6727 lm
2	21
	Order No. : AMLED30 Luminaire name : FLOODLIGHTING - Mira LED Floodlight Equipment : 1 x LED 31 W / 3459 lm

The ULR value has been calculated without obstruction by other objects.

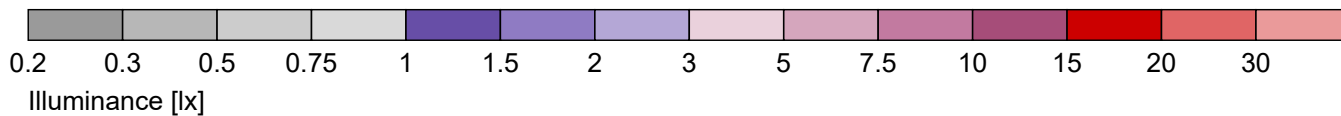


2.2 Summary, Exterior 1

2.2.4 Result overview, Area 4



109 134 x [m]



General



Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80

Total luminous flux of all lamps	139909 lm
Total power	1151 W
Total power per area (8988.59 m ²)	0.13 W/m ²
Upward light ratio (ULR)	0.01

Illuminance

Average illuminance	Em	7 lx
Minimum illuminance	Emin	0.2 lx
Maximum illuminance	Emax	47 lx
Uniformity U _o	Emin/Em	1:30.8 (0.03)
Diversity U _d	Emin/Emax	1:203 (0)

Type No.Make

ANSELL		
1	10	Order No. : AAZLED50/ASY
		Luminaire name : FLOODLIGHTING - Aztec LED Asymmetric Floodlight
		Equipment : 1 x LED single 840 50 W / 6727 lm
2	21	Order No. : AMLED30
		Luminaire name : FLOODLIGHTING - Mira LED Floodlight
		Equipment : 1 x LED 31 W / 3459 lm

The ULR value has been calculated without obstruction by other objects.

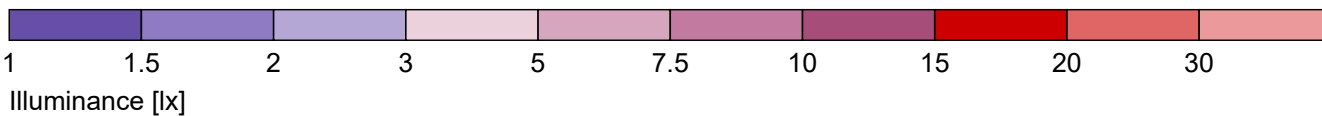


2.2 Summary, Exterior 1

2.2.5 Result overview, Area 5



109 134 x [m]



General



Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80

Total luminous flux of all lamps	139909 lm
Total power	1151 W
Total power per area (8988.59 m ²)	0.13 W/m ²
Upward light ratio (ULR)	0.01

Illuminance

Average illuminance	Em	9 lx
Minimum illuminance	Emin	1 lx
Maximum illuminance	Emax	36 lx
Uniformity U _o	Emin/Em	1:8.12 (0.12)
Diversity U _d	Emin/Emax	1:31.3 (0.03)

Type No.Make

ANSELL	
1	10
	Order No. : AAZLED50/ASY Luminaire name : FLOODLIGHTING - Aztec LED Asymmetric Floodlight Equipment : 1 x LED single 840 50 W / 6727 lm
2	21
	Order No. : AMLED30 Luminaire name : FLOODLIGHTING - Mira LED Floodlight Equipment : 1 x LED 31 W / 3459 lm

The ULR value has been calculated without obstruction by other objects.



2.2 Summary, Exterior 1

2.2.6 Result overview, Area 6



109 134 x [m]



Illuminance [lx]

General



Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80

Total luminous flux of all lamps	139909 lm
Total power	1151 W
Total power per area (8988.59 m ²)	0.13 W/m ²
Upward light ratio (ULR)	0.01

Illuminance

Average illuminance	Em	10 lx
Minimum illuminance	Emin	3 lx
Maximum illuminance	Emax	37 lx
Uniformity Uo	Emin/Em	1:3.19 (0.31)
Diversity Ud	Emin/Emax	1:12.1 (0.08)

Type No.Make

ANSELL	
1	10
	Order No. : AAZLED50/ASY Luminaire name : FLOODLIGHTING - Aztec LED Asymmetric Floodlight Equipment : 1 x LED single 840 50 W / 6727 lm
2	21
	Order No. : AMLED30 Luminaire name : FLOODLIGHTING - Mira LED Floodlight Equipment : 1 x LED 31 W / 3459 lm

The ULR value has been calculated without obstruction by other objects.

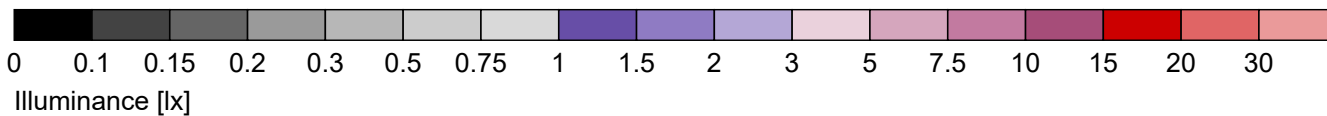


2.2 Summary, Exterior 1

2.2.7 Result overview, Evaluation area 2



109 134 x [m]



General



Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	139909.00 lm
Total power	1151.0 W
Total power per area (29485.42 m ²)	0.04 W/m ² (1.02 W/m ² /100lx)

Evaluation area 2

Reference plane 2.1

	Horizontal
Em	4 lx
Emin	0.0 lx
Emin/Em (Uo)	---
Emin/Emax (Ud)	---
Upward light ratio (ULR)	0.01
Position	0.00 m

Type No.\Make

1	10	ANSELL	
		Order No.	: AAZLED50/ASY
		Luminaire name	: FLOODLIGHTING - Aztec LED Asymmetric Floodlight
		Equipment	: 1 x LED single 840 50 W / 6727 lm
2	21		
		Order No.	: AMLED30
		Luminaire name	: FLOODLIGHTING - Mira LED Floodlight
		Equipment	: 1 x LED 31 W / 3459 lm



3 Exterior 1(Copy of)

3.1 Calculation results, Exterior 1(Copy of)

3.1.1 3D luminance, View 1

