

Installation :

Project number : Motts Field Muga 3386
Customer :
Processed by : Steve Dixey
Date : 05.02.2025

Lighting Design Disclaimer

We have carried out calculations as per your instructions and guidance. Please check and confirm all details are correct.
All areas have been assumed as being open plan without obstructions above the working plane.
Lighting designs are carried out for estimation purposes. Powerlite Fitzgerald does not warrant and shall not be liable for the accuracy of any designs.
Please be aware of the L1 and L2 building requirements and check that conformity has been met as required building control and any other parties prior to ordering any luminaires.
If our design has been submitted with emergency lighting coverage, it was designed as a service to provide an overall illuminance inline with current emergency lighting recommendations.
We have not carried out a risk assessment for emergency lighting on the site. We accept no responsibility for current requirements that under HSE and fire regulations are the responsibility of the 'Responsible person' or management of the site owners or operators.
We have used common design parameters in order to carry out all our calculations (unless previously advised different). If any divergencies are not accepted please contact us in order for recalculations to be carried out prior to an order being placed.
It is the responsibility of the purchaser and not Powerlite Fitzgerald to ensure that the design complies with local fire, health and safety regulations. In the event the design is found not to comply, Powerlite Fitzgerald will adjust the design in consultation with the customer to achieve compliance.
Whilst every effort will be made by Powerlite Fitzgerald Ltd to adhere to the written or product specification, it is always the responsibility of the customer to ensure that any scheme, specification or product satisfies the end users requirements.

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.



1 Luminaire data

1.1 Powerlite Fitzgerald, Regor 11 Sport (R11L300-SPORT-4K)

1.1.1 Data sheet

Manufacturer: Powerlite Fitzgerald

R11L300-SPORT-4K Regor 11 Sport

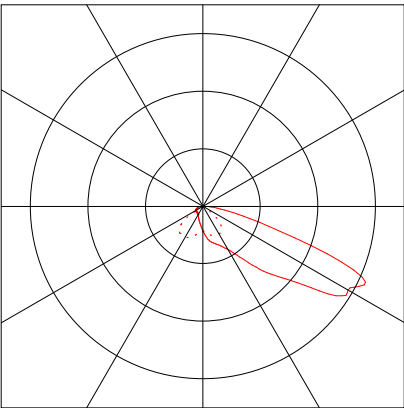
Luminaire data

Luminaire efficiency : 100%
Luminaire efficacy : 141.95 lm/W
Classification : A30 ↓99.3% ↑0.7%
CIE Flux Codes : 33 74 97 99 100
UGR 4H 8H : 41.4 / 27.7
Power : 308.1 W
Luminous flux : 43719.4 lm

Equipped with

Quantity : 1
Designation :
Colour : 3936
Luminous flux : 43736 lm
Colour reproduction : 72

Dimensions : 600 mm x 400 mm x 200 mm



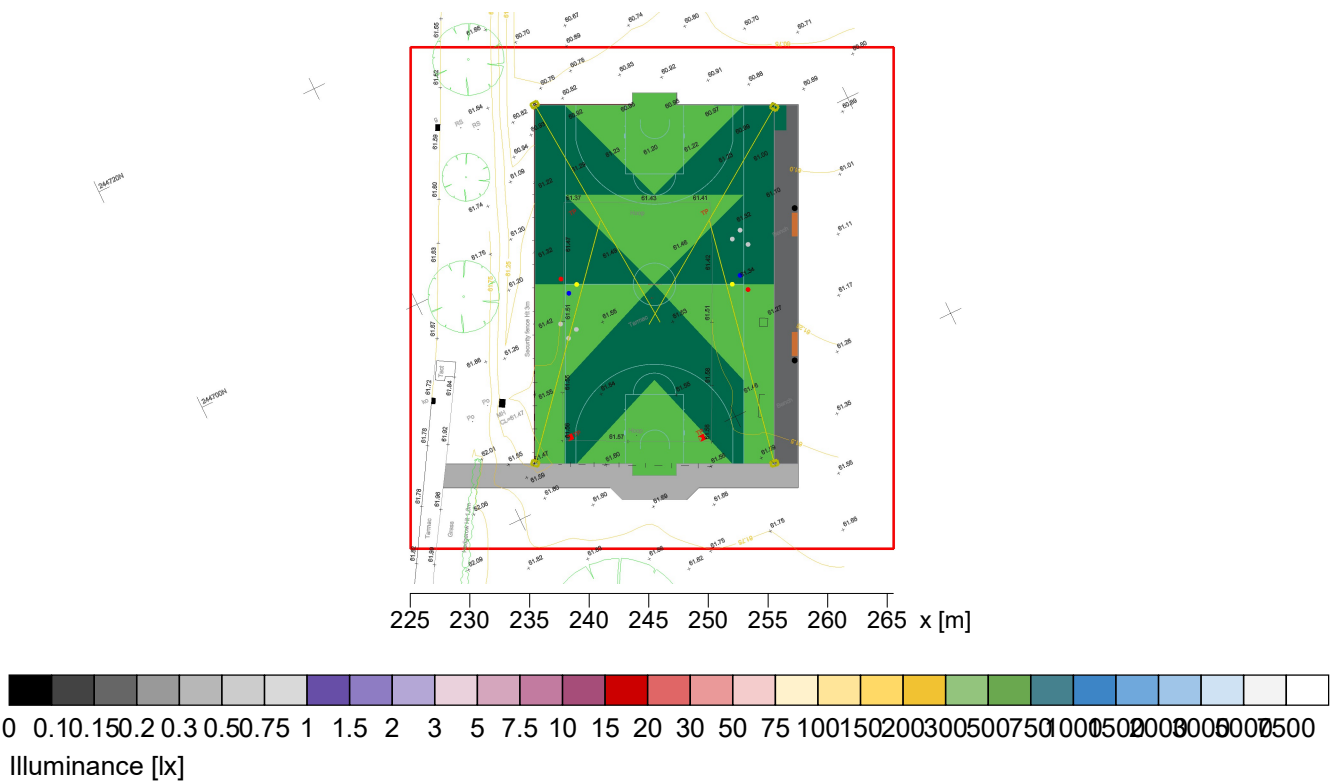
2.1.1 Floor plan

The image shows the logos for Powerlite and Fitzgerald. The Powerlite logo is in a blue rounded rectangle with the word "powerlite" in white lowercase letters. The Fitzgerald logo is in a yellow rounded rectangle with the word "Fitzgerald" in bold black italicized letters, and the tagline "...Better together" in a smaller black italicized font below it.

2.2.1 Result overview, Measuring area 1

2.2 Summary, Exterior 1

2.2.2 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height (phot. centre)	7.90 m
Maintenance factor	0.90
Total lamp luminous flux	174944 lm
Luminaire luminous flux	174878 lm
Total power	1232.4 W
Total power per area (598.75 m²)	2.06 W/m² (1.55 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

\bar{E}_m	Horizontal
E_{min}	133 lx
$E_{min}/\bar{E}_m (U_o)$	87 lx
$E_{min}/E_{max} (U_d)$	0.66
Position	0.53
	0.00 m

Type No. Make

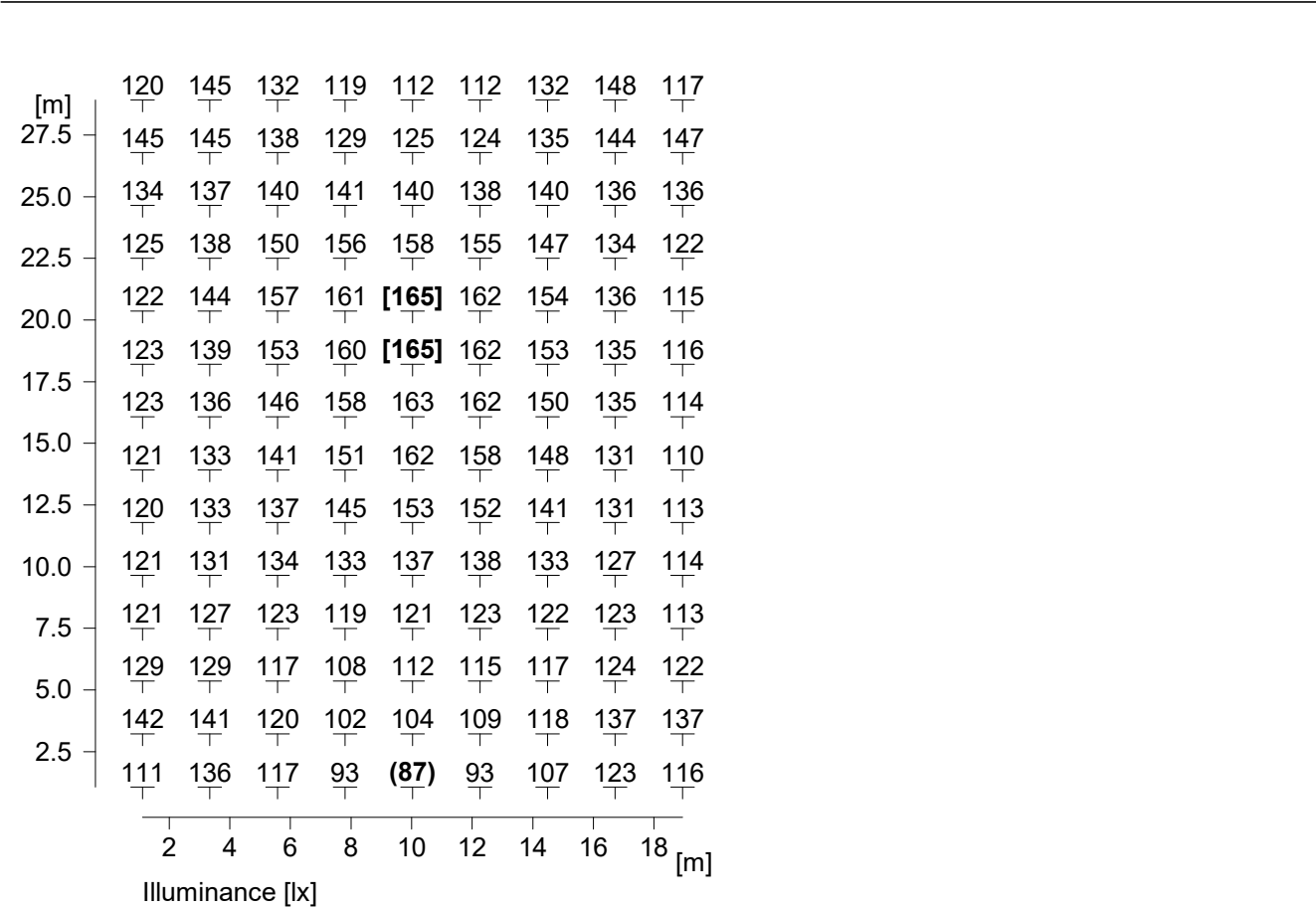
1	4 x	Powerlite Fitzgerald
		Order No. : R11L300-SPORT-4K
		Luminaire name : Regor 11 Sport
		Equipment : 1 x 308.1 W / 43736 lm



2 Exterior 1

2.3 Calculation results, Exterior 1

2.3.1 Table, Reference plane 1.1 (E)

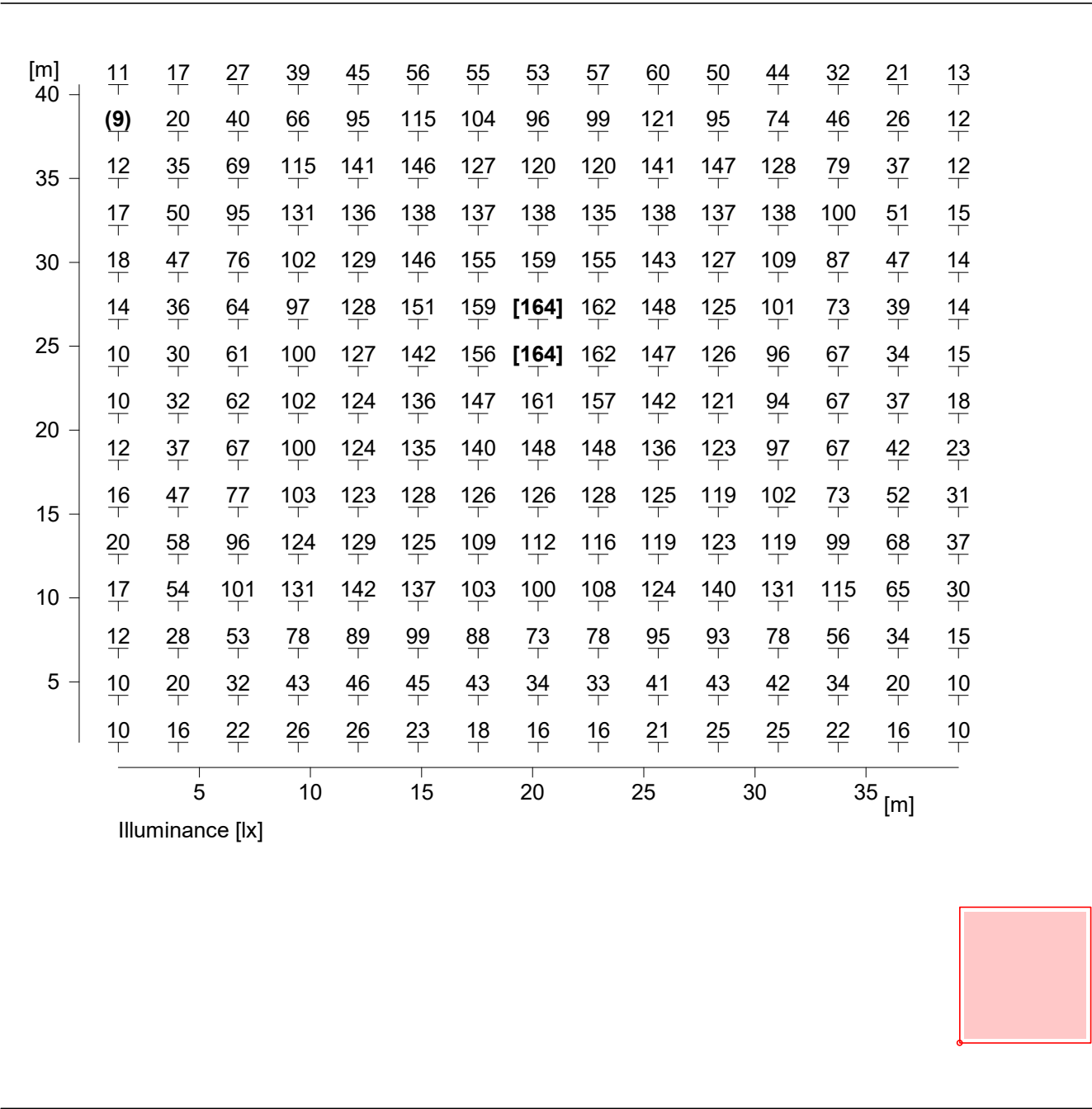


Height reference plane		: 0.00 m
Average illuminance	\bar{E}_m	: 133 lx
Minimum illuminance	E_{min}	: 87 lx
Maximum illuminance	E_{max}	: 165 lx
Uniformity U_o	E_{min}/\bar{E}_m	: 1 : 1.53 (0.66)



2.3 Calculation results, Exterior 1

2.3.2 Table, Measuring area 1 (E)



Height reference plane		: 0.00 m
Average illuminance	\bar{E}_m	: 80 lx
Minimum illuminance	E_{min}	: 9 lx
Maximum illuminance	E_{max}	: 164 lx
Uniformity U_o	E_{min}/\bar{E}_m	: 1 : 8.48 (0.12)