

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.

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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

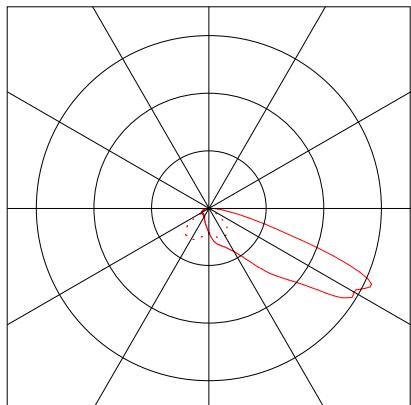
Luminaire data

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

Dimensions : 600 mm x 400 mm x 200 mm

Equipped with

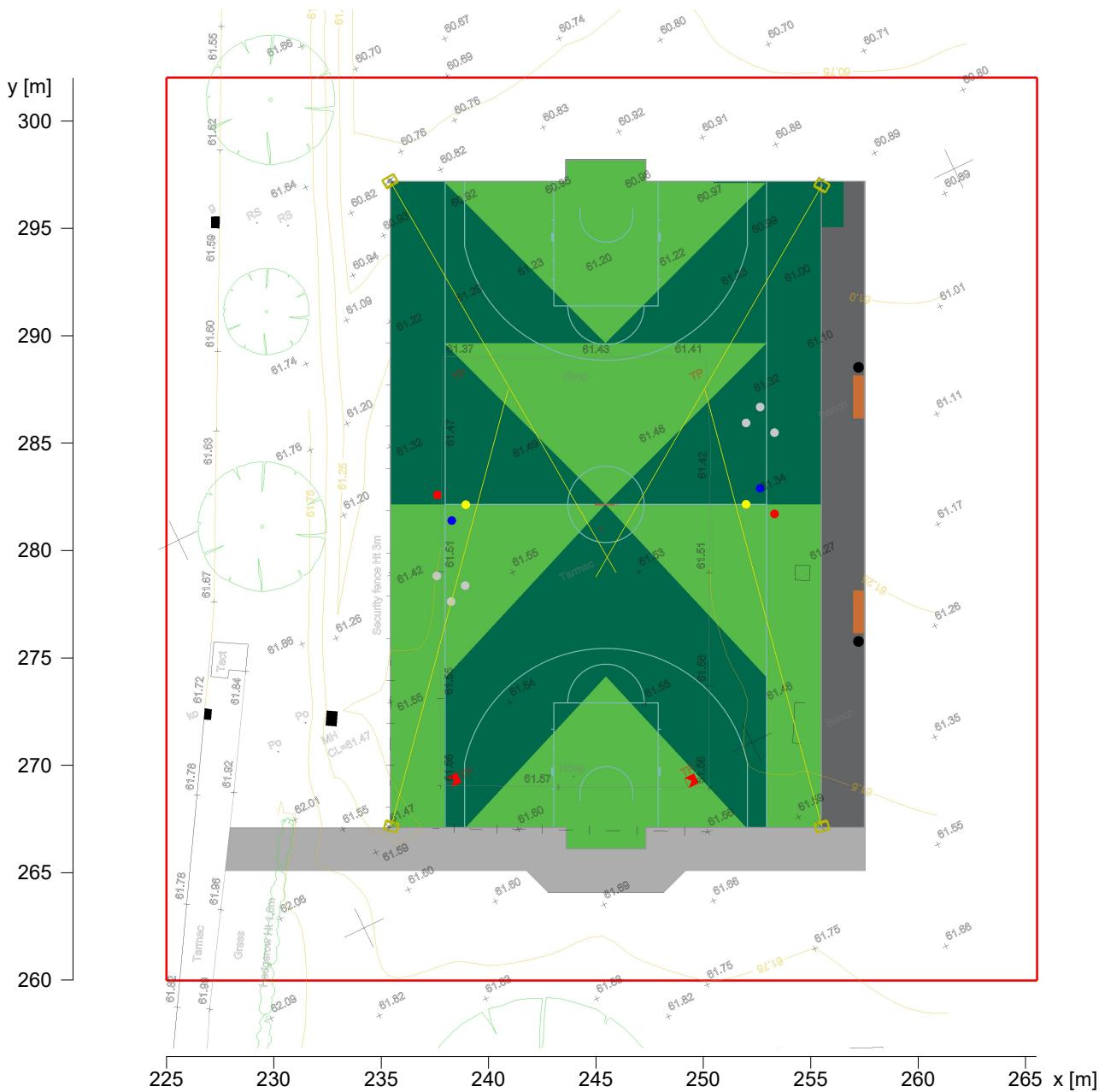
Quantity : 1
Designation :
Colour : 3936
Luminous flux : 43736 lm
Colour reproduction : 72



2 Exterior 1

2.1 Description, Exterior 1

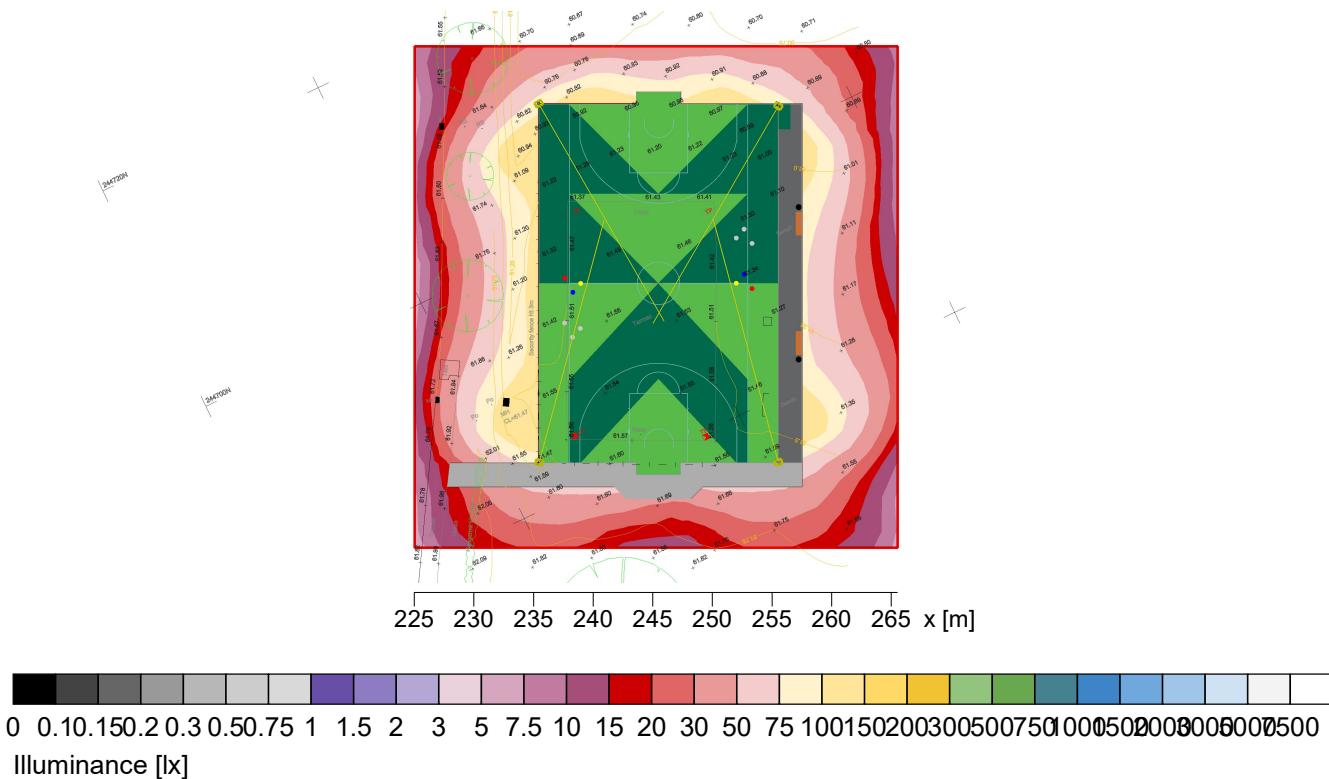
2.1.1 Floor plan



2 Exterior 1

2.2 Summary, Exterior 1

2.2.1 Result overview, Measuring area 1



General
 Calculation algorithm used
 Height of evaluation surface
 Height (phot.centre) [m]:
 Maintenance factor

Average indirect fraction
 0.00 m
 7.90 m
 0.90

Total luminous flux 174944 lm
 Total power 1232.4 W
 Total power per area (598.75 m²) 2.06 W/m²

Illuminance		
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)
Diversity U_d	E_{min}/E_{max}	1:17.5 (0.06)

Type No.\Make

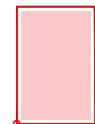
Powerlite Fitzgerald		
1	4 x	Order No. : R11L300-SPORT-4K
		Luminaire name : Regor 11 Sport
		Equipment : 1 x 308.1 W / 43736 lm

2 Exterior 1

2.3 Calculation results, Exterior 1

2.3.1 Table, Reference plane 1.1 (E)

[m]	120	145	132	119	112	112	132	148	117
27.5	145	145	138	129	125	124	135	144	147
25.0	134	137	140	141	140	138	140	136	136
22.5	125	138	150	156	158	155	147	134	122
20.0	122	144	157	161	165	162	154	136	115
17.5	123	139	153	160	165	162	153	135	116
15.0	123	136	146	158	163	162	150	135	114
12.5	121	133	141	151	162	158	148	131	110
10.0	120	133	137	145	153	152	141	131	113
7.5	121	131	134	133	137	138	133	127	114
5.0	121	127	123	119	121	123	122	123	113
2.5	129	129	117	108	112	115	117	124	122
	142	141	120	102	104	109	118	137	137
	111	136	117	93	87	93	107	123	116
	2	4	6	8	10	12	14	16	18
	Illuminance [lx]								



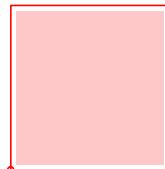
Height reference plane	: 0.00 m
Average illuminance	: 133 lx
Minimum illuminance	: 87 lx
Maximum illuminance	: 165 lx
Uniformity U_o	: 1 : 1.53 (0.66)

2.3 Calculation results, Exterior 1

2.3.2 Table, Measuring area 1 (E)

[m]	11	17	27	39	45	56	55	53	57	60	50	44	32	21	13
40	(9)	20	40	66	95	115	104	96	99	121	95	74	46	26	12
35	12	35	69	115	141	146	127	120	120	141	147	128	79	37	12
30	17	50	95	131	136	138	137	138	135	138	137	138	100	51	15
25	18	47	76	102	129	146	155	159	155	143	127	109	87	47	14
20	14	36	64	97	128	151	159	[164]	162	148	125	101	73	39	14
15	10	30	61	100	127	142	156	[164]	162	147	126	96	67	34	15
10	10	32	62	102	124	136	147	161	157	142	121	94	67	37	18
5	12	37	67	100	124	135	140	148	148	136	123	97	67	42	23
0	16	47	77	103	123	128	126	126	128	125	119	102	73	52	31
10	20	58	96	124	129	125	109	112	116	119	123	119	99	68	37
10	17	54	101	131	142	137	103	100	108	124	140	131	115	65	30
5	12	28	53	78	89	99	88	73	78	95	93	78	56	34	15
0	10	20	32	43	46	45	43	34	33	41	43	42	34	20	10
0	10	16	22	26	26	23	18	16	16	21	25	25	22	16	10
	5	10	15	20	25	30	35			30	35	40	45	50	55

Illuminance [lx]



Height reference plane	: 0.00 m
Average illuminance	: 80 lx
Minimum illuminance	: 9 lx
Maximum illuminance	: 164 lx
Uniformity U_o	: 1 : 8.48 (0.12)