

Campus West MSCP

Installation : Rev P06 Glare caLCS

Project number :

Customer :

Processed by :

Date : 15.11.2021

Lighting Design Service:

The Wirefield lighting design service is free of charge. Lighting designs are undertaken in accordance with any information supplied to us. Wirefield will not be held responsible for inaccurate, incomplete or out of date information which the design is based on.

It remains the responsibility of the client to check the design meets the requirements of the project and any applicable standards.

Where an emergency design has been requested it will be designed in accordance with BS5266-1,7_8. However this will be subject to a risk assessment by the relevant party, in addition to coverage of related points such as firefighting equipment and alarm call points. As a result, the design is limited until this information is provided.

In addition to the above, any assumptions will be outlined in any correspondence with the customer; if any assumptions are incorrect the lighting designer will need to be notified.

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.

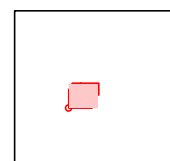
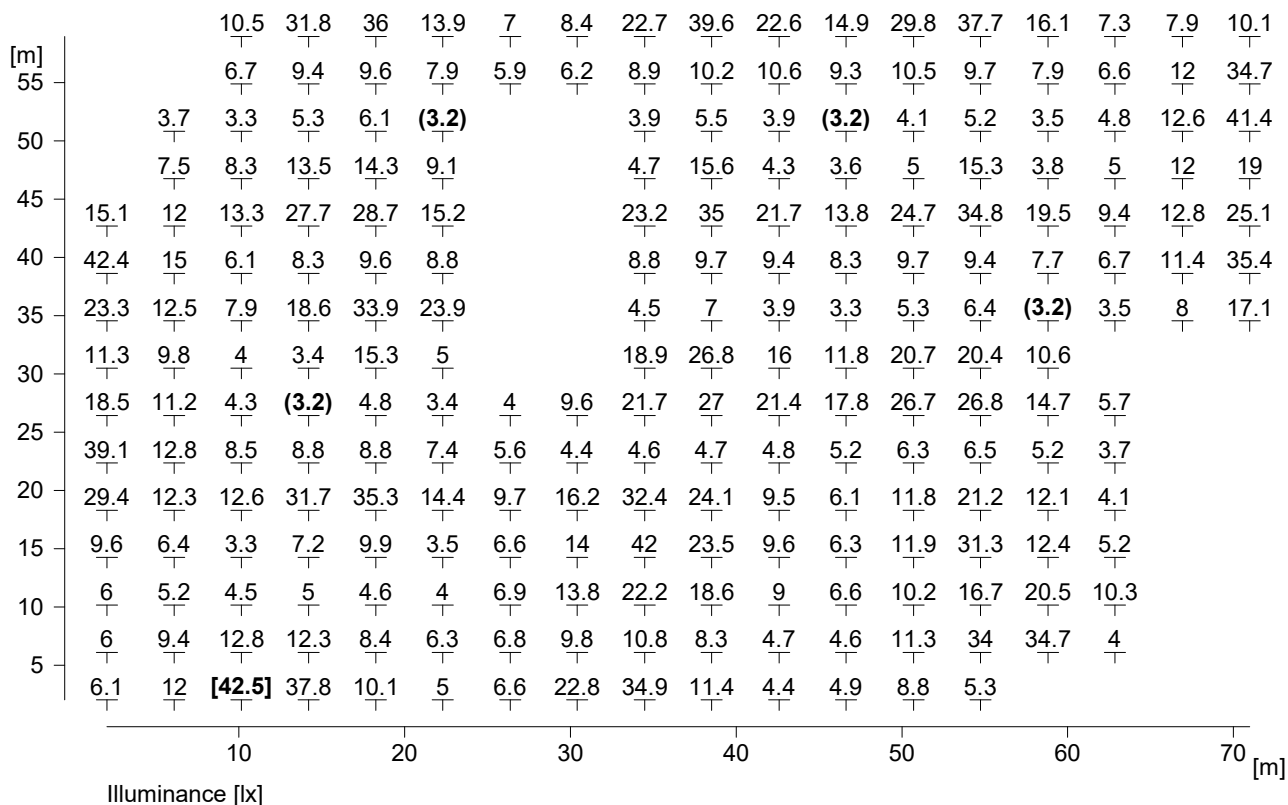
This exclusion of liability applies irrespective of the legal grounds for both damages and consequential damages suffered by users and third parties.



1 Exterior 1

1.1 Calculation results, Exterior 1

1.1.1 Table, Upper deck (E)

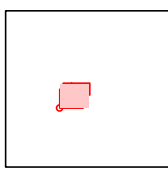
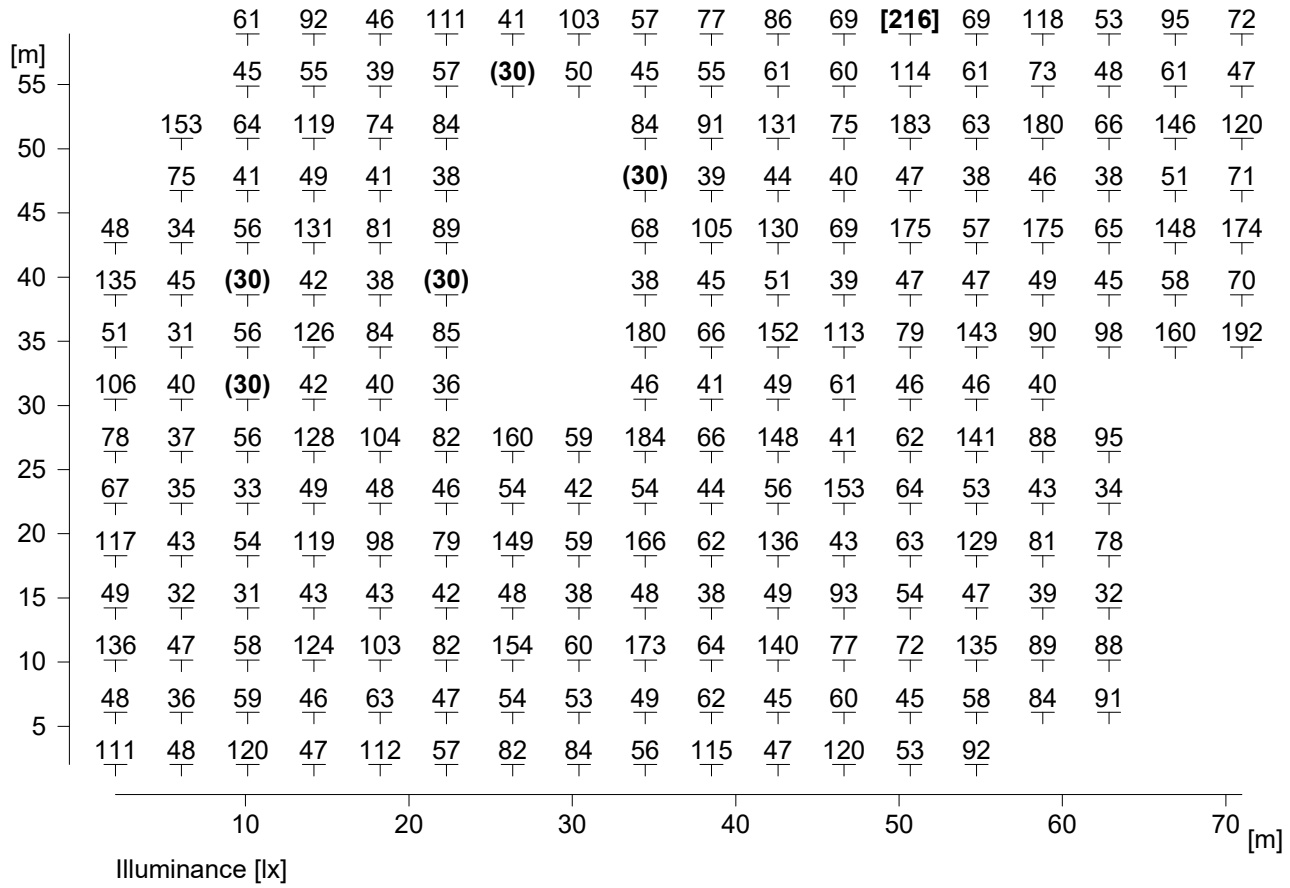


Height reference plane	:	3.10 m
Average illuminance	Em	: 13 lx
Minimum illuminance	Emin	: 3.2 lx
Maximum illuminance	Emax	: 42.5 lx
Uniformity Uo	Emin/Em	: 1 : 4.07 (0.25)
Diversity Ud	Emin/Emax	: 1 : 13.31 (0.08)



1.1 Calculation results, Exterior 1

1.1.2 Table, Lower deck (E)

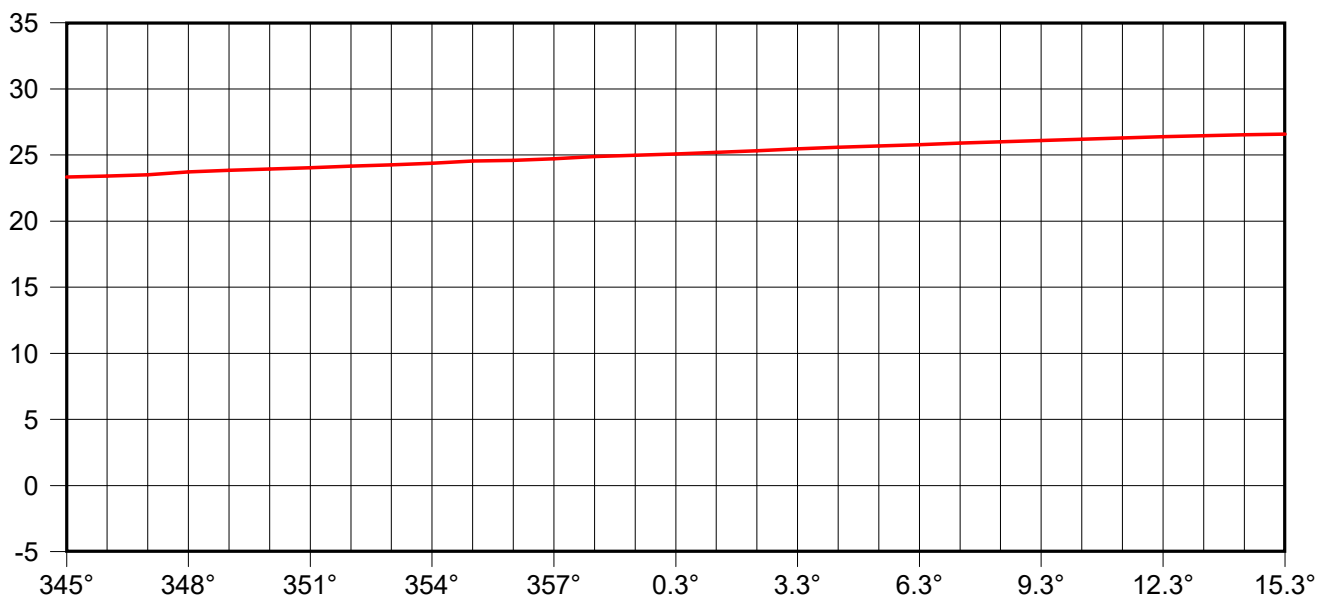
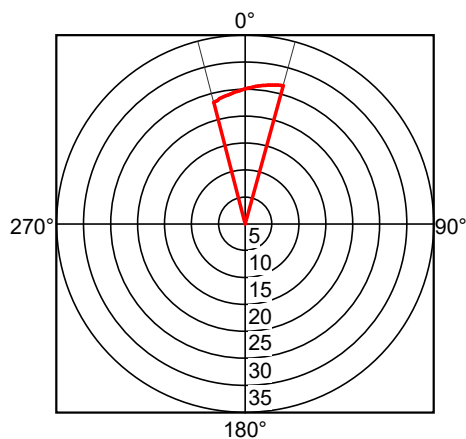


Height reference plane		: 0.20 m
Average illuminance	Em	: 75 lx
Minimum illuminance	Emin	: 30 lx
Maximum illuminance	Emax	: 216 lx
Uniformity Uo	Emin/Em	: 1 : 2.53 (0.40)
Diversity Ud	Emin/Emax	: 1 : 7.23 (0.14)



1.1 Calculation results, Exterior 1

1.1.3 Glare Rating (UGR) - Ramp



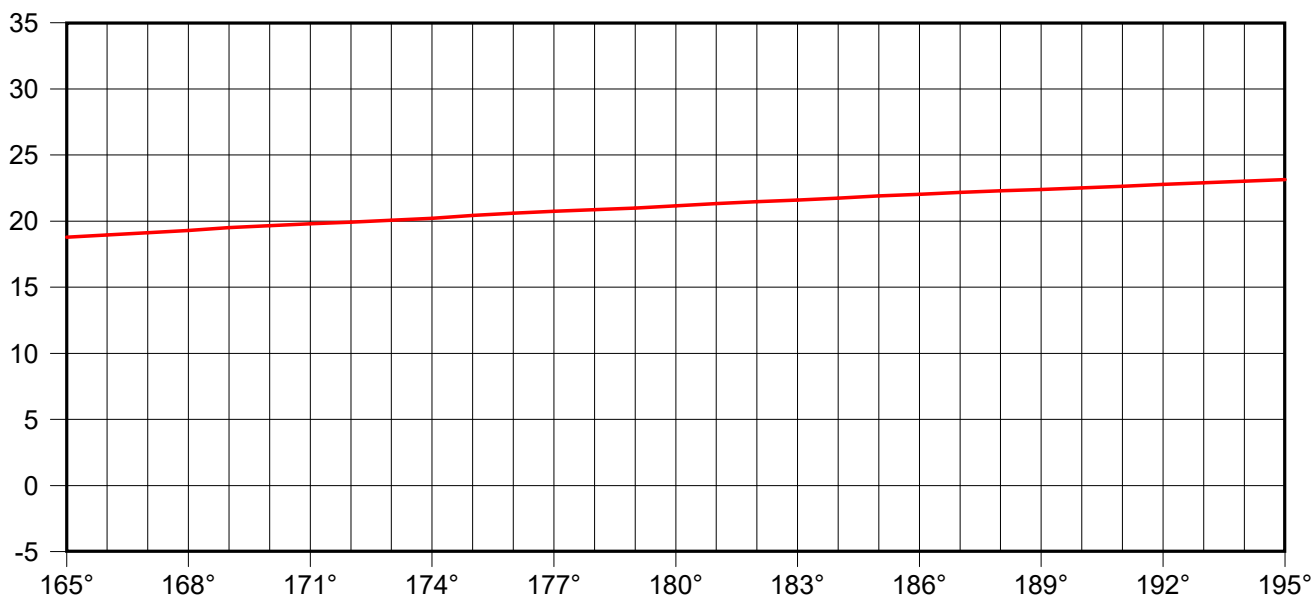
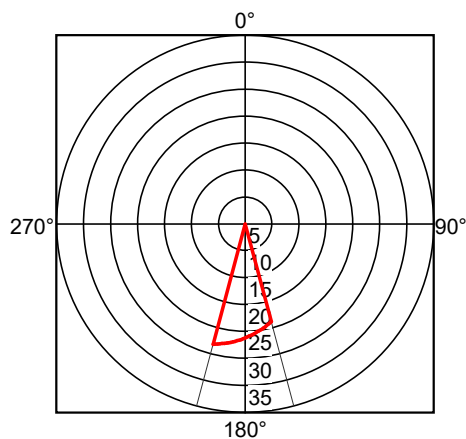
Observer location : x = 159.91 m, y = 174.27 m, z = 1.60 m
 : 0.34° (0.01, 1.00, 0.00)

Maximum degree of glare : 26.6



1.1 Calculation results, Exterior 1

1.1.4 Glare Rating (UGR) - Entrance

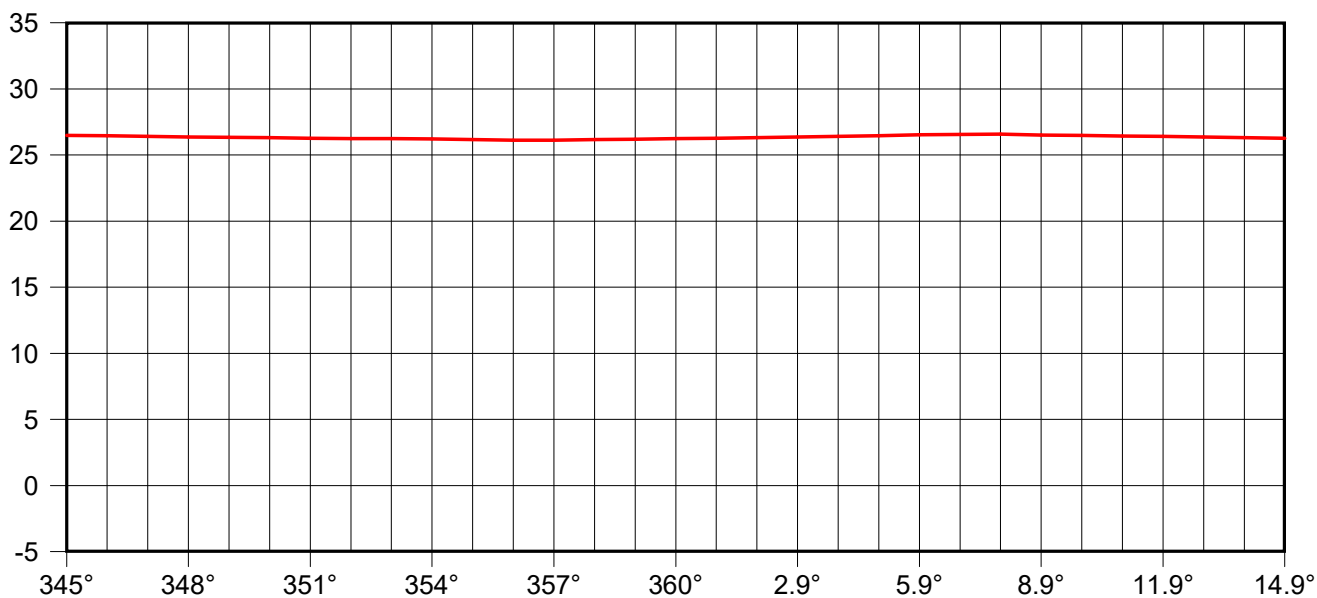
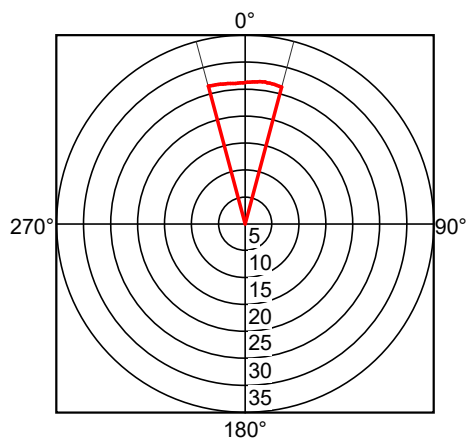


Observer location : x = 195.09 m, y = 164.49 m, z = 1.60 m
 : 180.07° (-0.00, -1.00, 0.00)
 Maximum degree of glare : 23.1



1.1 Calculation results, Exterior 1

1.1.5 Glare Rating (UGR) - Exit



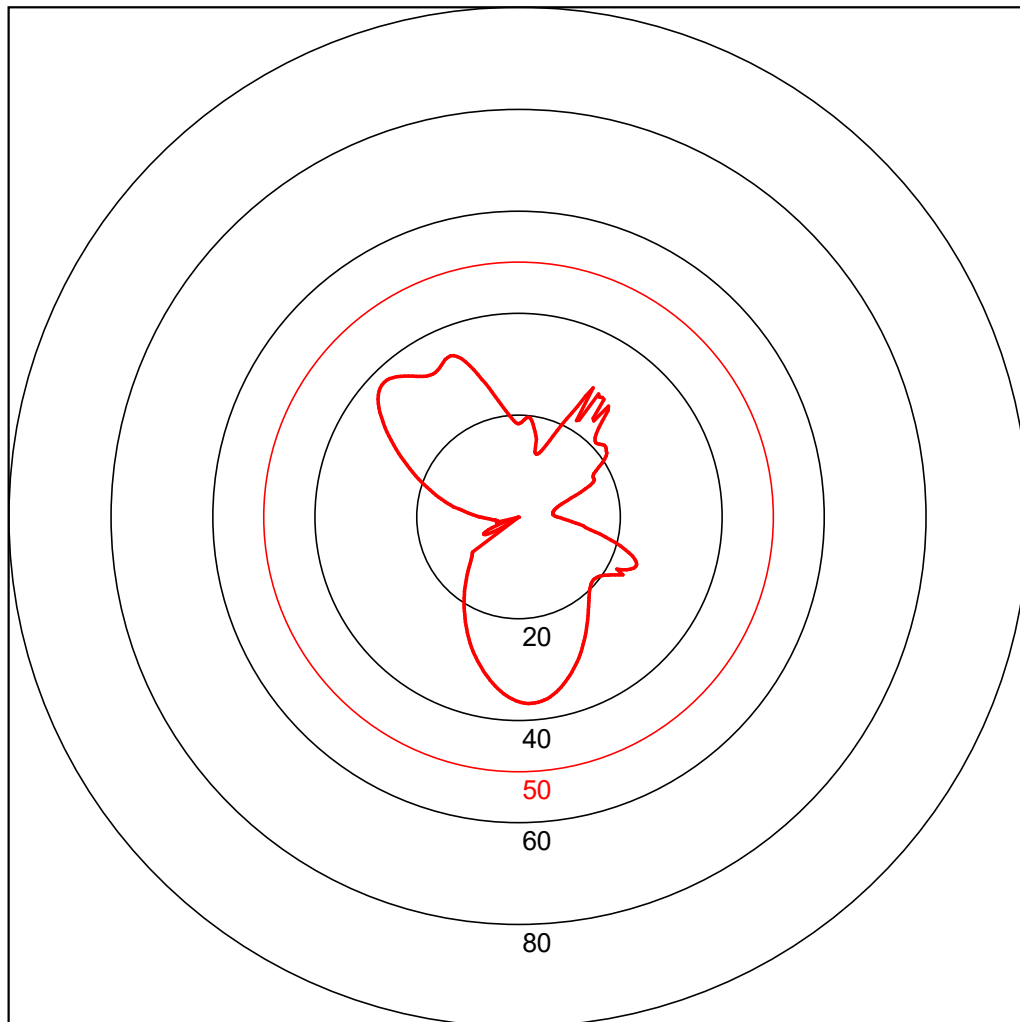
Observer location : x = 203.12 m, y = 175.97 m, z = 1.60 m
 : 359.91° (-0.00, 1.00, 0.00)

Maximum degree of glare : 26.6



1.1 Calculation results, Exterior 1

1.1.6 Glare rating - GR 1



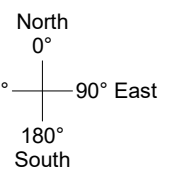
Lve = 0.05 cd/m², E_hv(MF:1.0) = 22 lx, ρ = 20 %

No.	Description
1	GR 1

Position
143 m/153 m/3.9 m

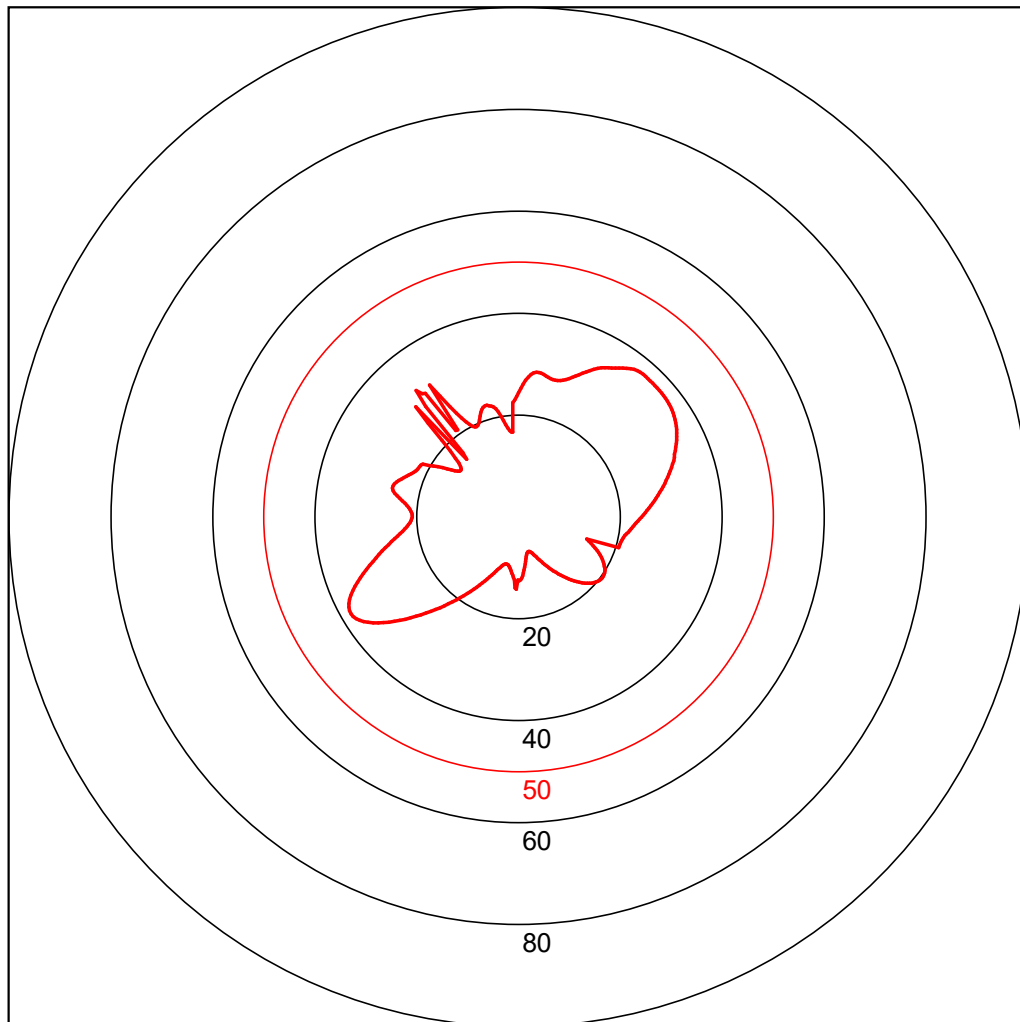
Max GR
37.4

Direction
315° (270°)



1.1 Calculation results, Exterior 1

1.1.7 Glare rating - GR 2



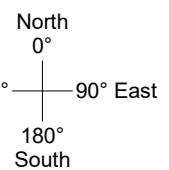
Lve = 0.05 cd/m², E_hv(MF:1.0) = 22 lx, ρ = 20 %

No. Description
2 GR 2

Position
181 m/153 m/3.9 m

Max GR
38

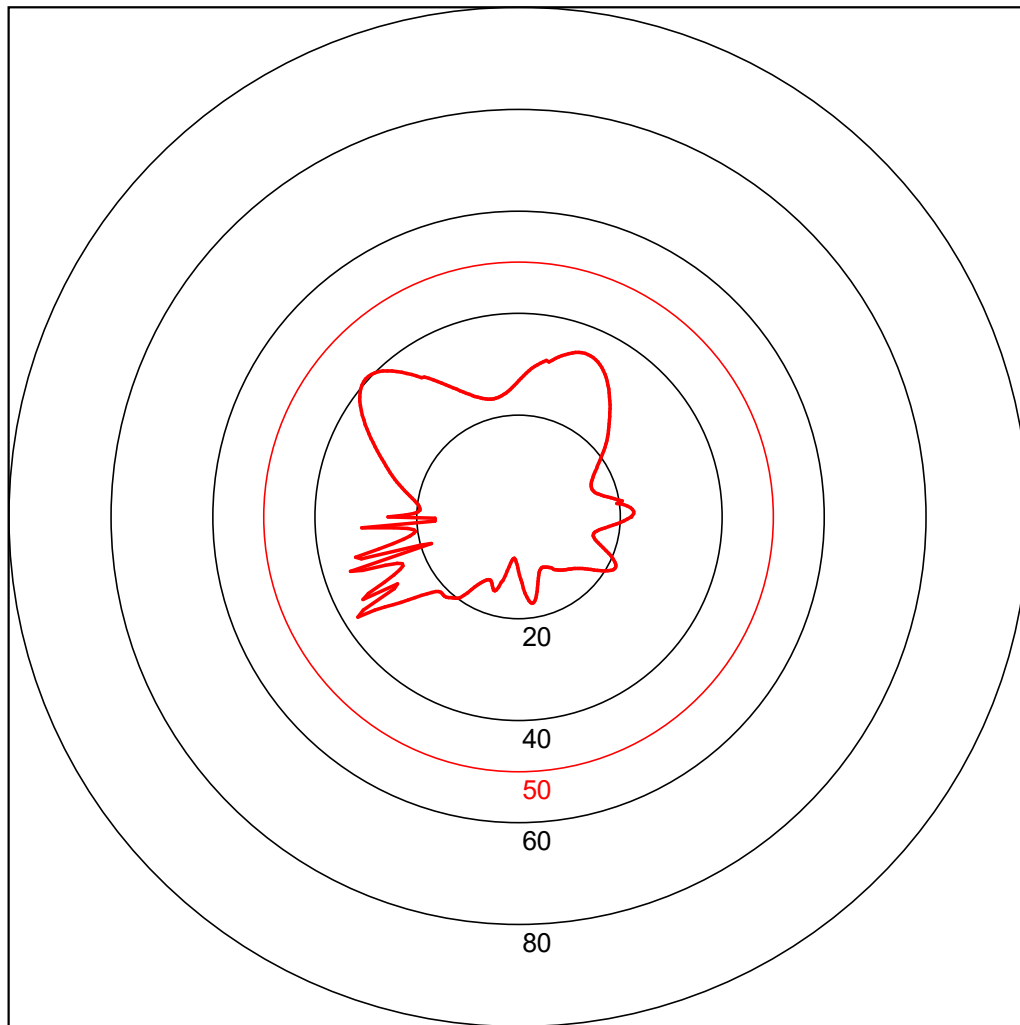
Direction
240° (270°)





1.1 Calculation results, Exterior 1

1.1.8 Glare rating - GR 3



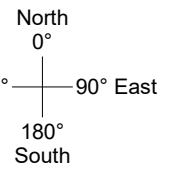
Lve = 0.05 cd/m², E_hv(MF:1.0) = 22 lx, ρ = 20 %

No. Description
 3 GR 3

Position
 181 m/194 m/3.9 m

Max GR
 40.5

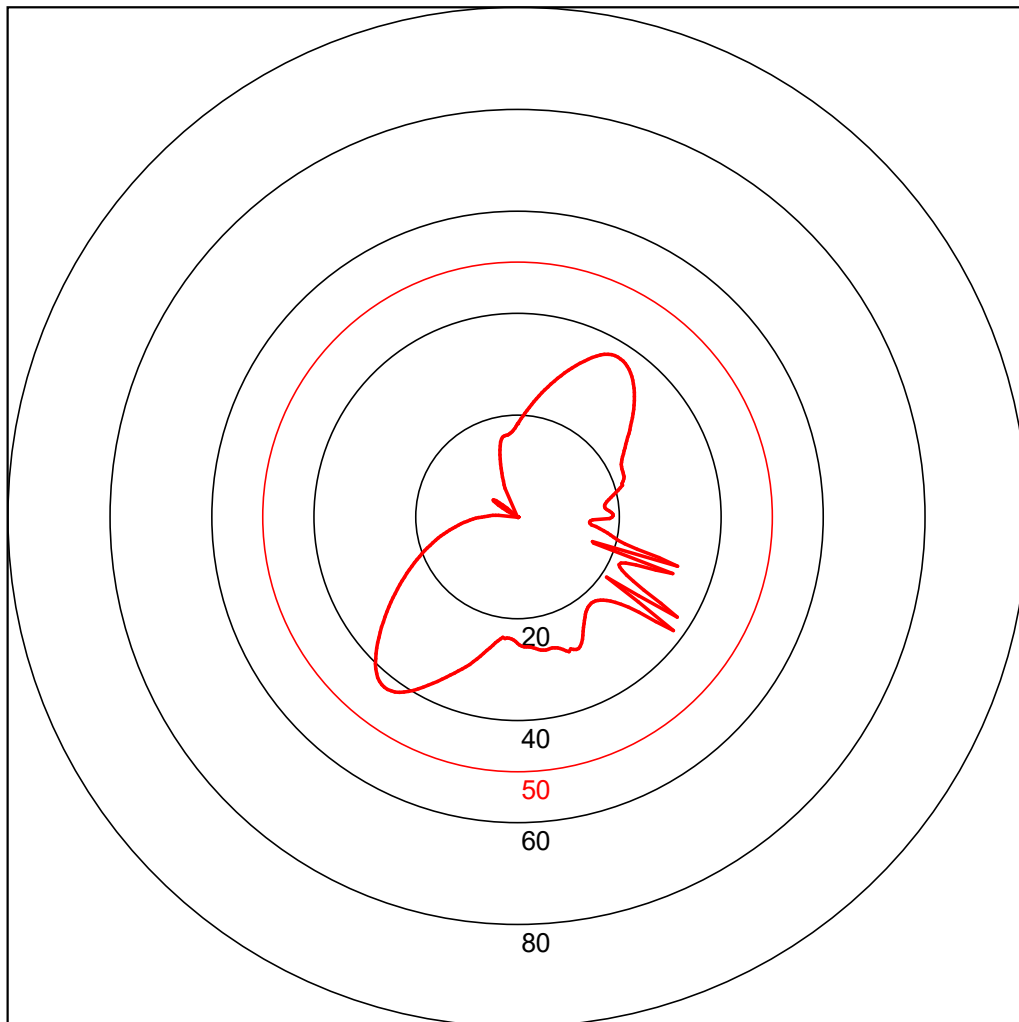
Direction
 312° (270°)





1.1 Calculation results, Exterior 1

1.1.9 Glare rating - GR 4



Lve = 0.05 cd/m², E_hv(MF:1.0) = 22 lx, ρ = 20 %

No.	Description
4	GR 4

Position
142 m/194 m/3.9 m

Max GR
42.5

Direction
218° / 270°

