

Installation :

Project number : 21-976

Customer :

Processed by :

Date : 27.07.2021

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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RELUX®

1 Luminaire data

1.1 Whitecroft Lighting, Kolo Bollard (BLY214KARB)

1.1.1 Data sheet

Manufacturer: Whitecroft Lighting

BLY214KARB Kolo Bollard

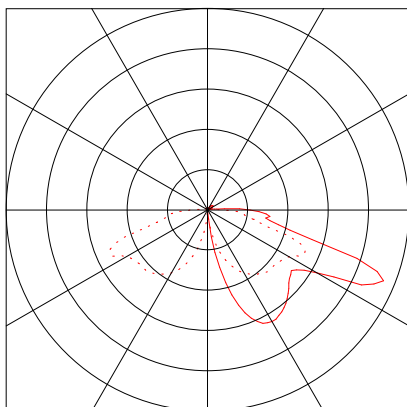
Luminaire data

Luminaire efficiency : 99.9999%
Luminaire efficacy : 78.85 lm/W
Classification : A21 ↓94.9% ↑5.1%
CIE Flux Codes : 25 54 87 95 98
UGR 4H 8H : 27.4 / 24.1
Power : 5.2 W
Luminous flux : 410 lm

Equipped with

Quantity : 1
Designation : LED
Colour : 4000k
Luminous flux : 410 lm
Colour reproduction : 1

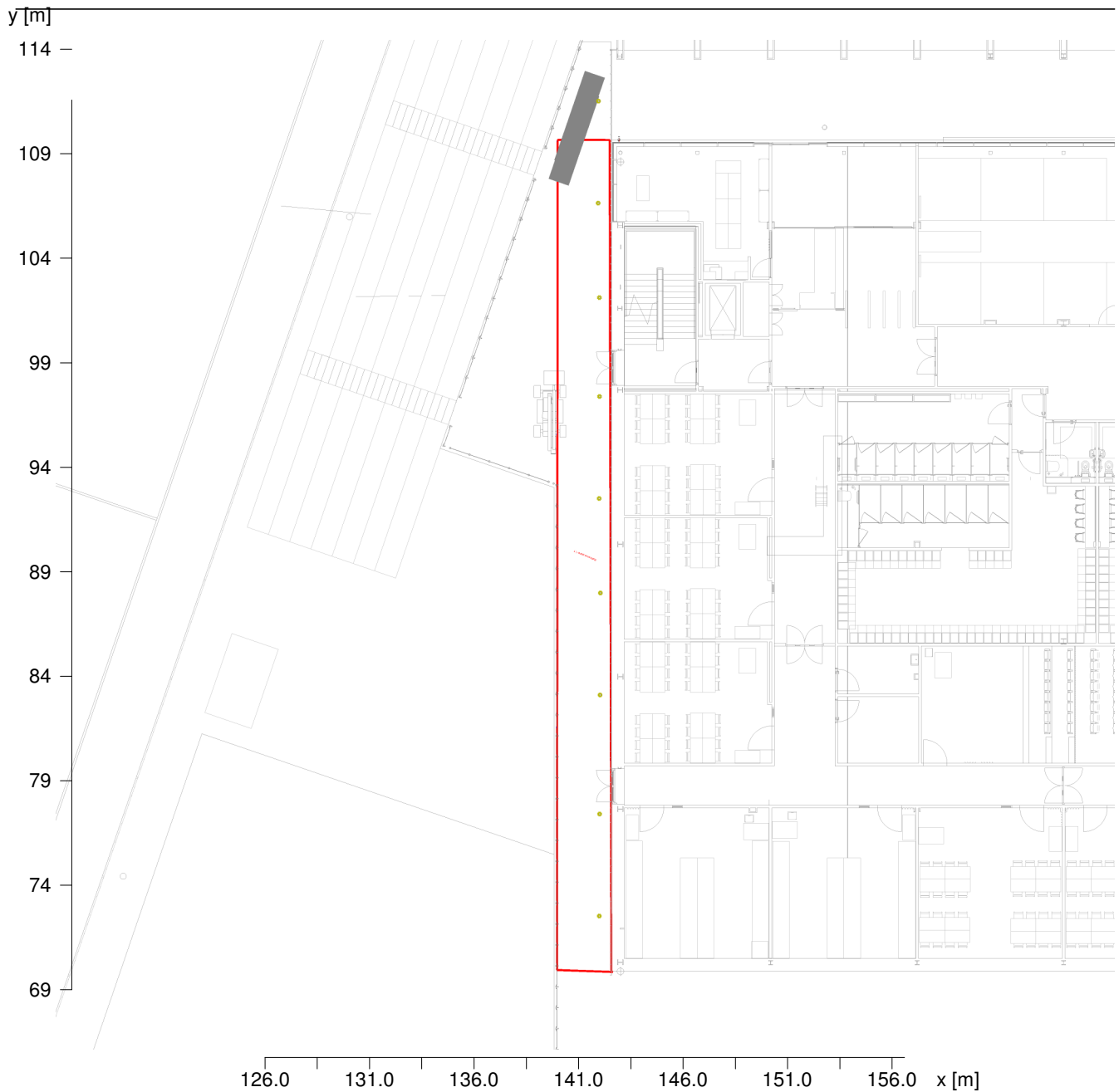
Dimensions : Ø150 mm x 150 mm



2 Bollard Calculation

2.1 Description, Bollard Calculation

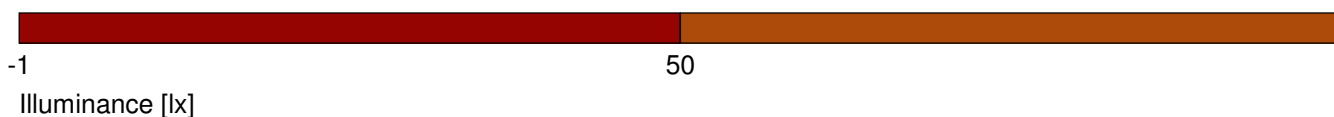
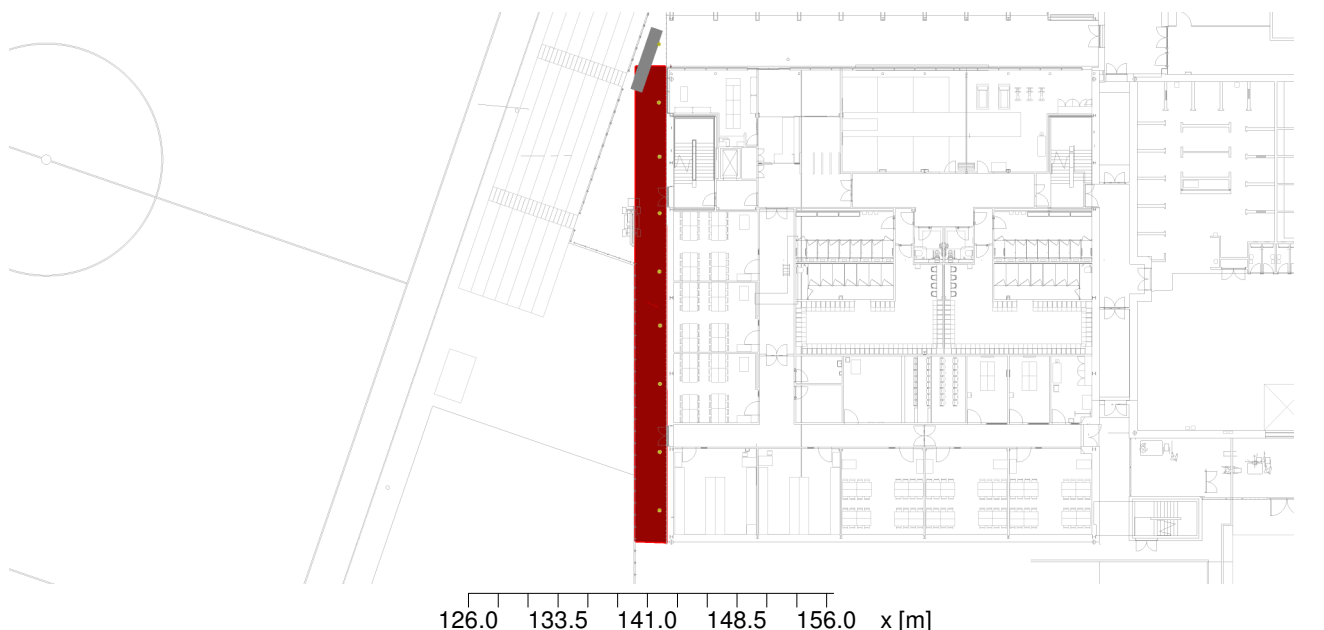
2.1.1 Floor plan



2 Bollard Calculation

2.2 Summary, Bollard Calculation

2.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height (phot centre)
 Maintenance factor

Average indirect fraction
 2.92 m
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (101.04 m²)

3280.00 lm
 41.6 W
 0.41 W/m² (8.69 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

Horizontal
 Em
 Emin
 Emin/Em (Uo)
 Emin/Emax (Ud)
 Position

4.74 lx
 0.56 lx
 0.12
 0.06
 0.00 m

Type No. Make



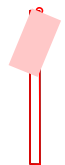
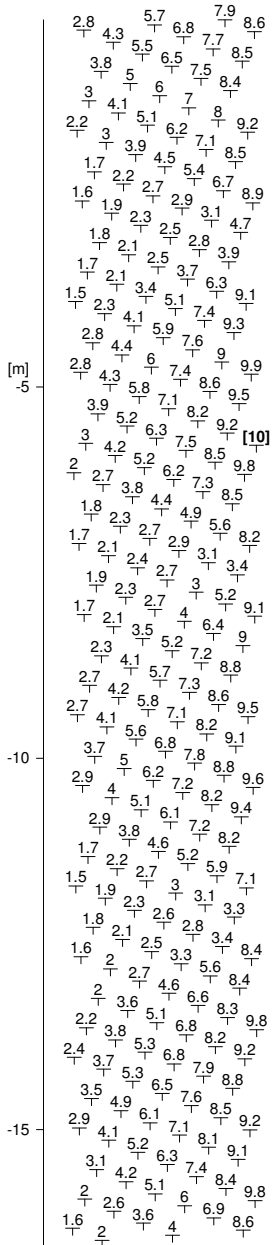
Whitecroft Lighting

Order No. : BLY214KARB
 Luminaire name : Kolo Bollard
 Equipment : 1 x LED 5.2 W / 410 lm

2 Bollard Calculation

2.3 Calculation results, Bollard Calculation

2.3.1 Table, Reference plane 1.1 (E)



Part1

Height reference plane	: 0.00 m
Average illuminance	Em : 4.7 lx
Minimum illuminance	Emin : 0.6 lx
Maximum illuminance	Emax : 10 lx
Uniformity Uo	Emin/Em : 1 : 8.51 (0.12)
Diversity Ud	Emin/Emax : 1 : 18.02 (0.06)

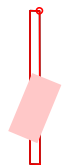
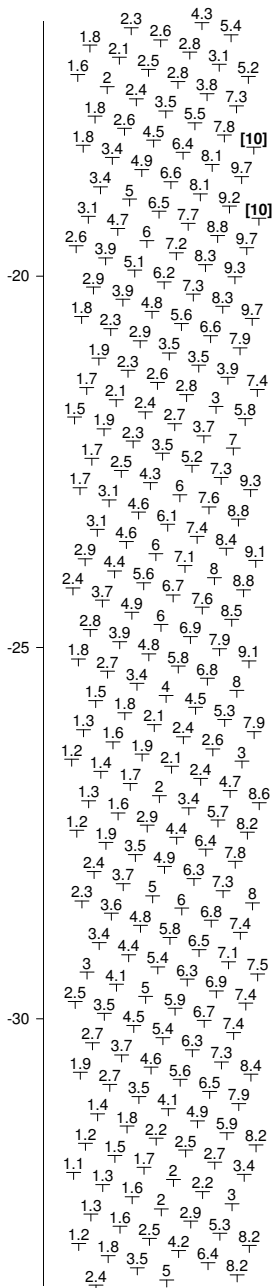
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2 Bollard Calculation

2.3 Calculation results, Bollard Calculation

2.3.1 Table, Reference plane 1.1 (E)



Part2



2 Bollard Calculation

2.3 Calculation results, Bollard Calculation

2.3.1 Table, Reference plane 1.1 (E)

