

Installation : Moxy Hotel Manchester

Project number :

Customer : Stothers

Processed by :

Date : 07.02.2021

Project description:
External Facade

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 iGuzzini, iTeka (BV15)

1.1.1 Data sheet

Manufacturer: iGuzzini

BV15 Exteriors - Floodlights iTeka

BV15 :

Outdoor wall-mounted luminaire with high, visual comfort downlight and a comfort, street optic, designed for use with LED lamps. The optical assembly and the pole attachment system are made of EN1706AC 46100LF aluminium alloy and subjected to a multi-step, pre-treatment process, in which the main phases are degreasing, fluorozirconation (a protective surface film) and sealing (with a nano-structured silane layer). The painting stage consists of a primer and a liquid acrylic paint, cured at 150 °C, with a high level of weather and UV ray resistance. 4 mm thick, transparent, sodium-calcium tempered glass closure, joined to the frame with silicone. The frame is secured to the optical assembly with two AISI 304 stainless steel, captive screws and an AISI 303 stainless steel hinged pin with a 50 Shore silicone gasket between them. The device can be adjusted vertically by +45°/-60° and 337° horizontally with a mechanical locking mechanism for precision aiming. The body and frame include slots for rainwater drainage. The product consists of a die-cast aluminium alloy base fitted with a PG 11, EPDM, double cable gland for pass-through wiring. Complete with circuit having Warm White monochrome LEDs and silver aluminium reflectors. Replaceable LEDs. Electronic control gear. Control gear, connected using quick-couplings and removed using clips. Replaceable control gear. There is no light dispersion into the upper hemisphere above this luminaire when it is in a horizontal position (in compliance with the strictest standards for the prevention of light pollution). All external screws are made of stainless steel.

BV15.015 - Wall-mounted floodlight - ST1C comfort street optic - 23.8W 2280lm - 3000K - Grey
 B49J - Lamp LED Warm White

Luminaire data

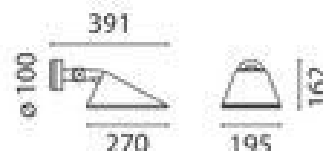
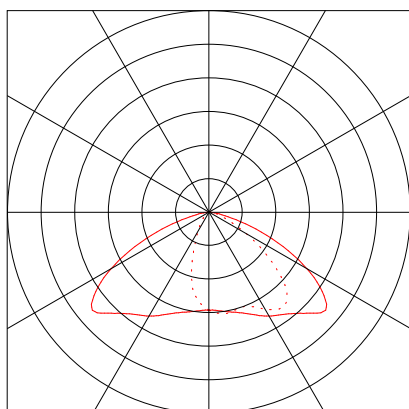
Absolute Photometry

Luminaire efficacy : 95.8 lm/W
 Classification : A40 ↓100.0% ↑0.0%
 CIE Flux Codes : 43 83 98 100 100
 UGR 4H 8H : 33.7 / 15.2
 Power : 23.8 W
 Luminous flux : 2280 lm

Equipped with

Quantity : 1
 Designation : LED Warm White
 Colour : 3000
 Colour reproduction : 70

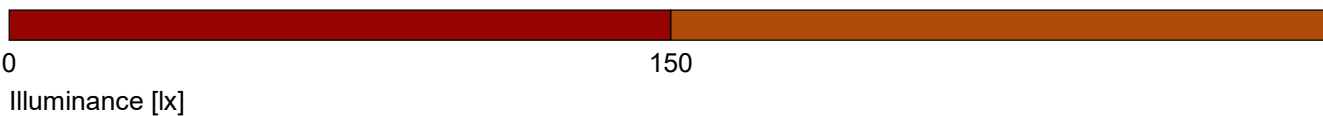
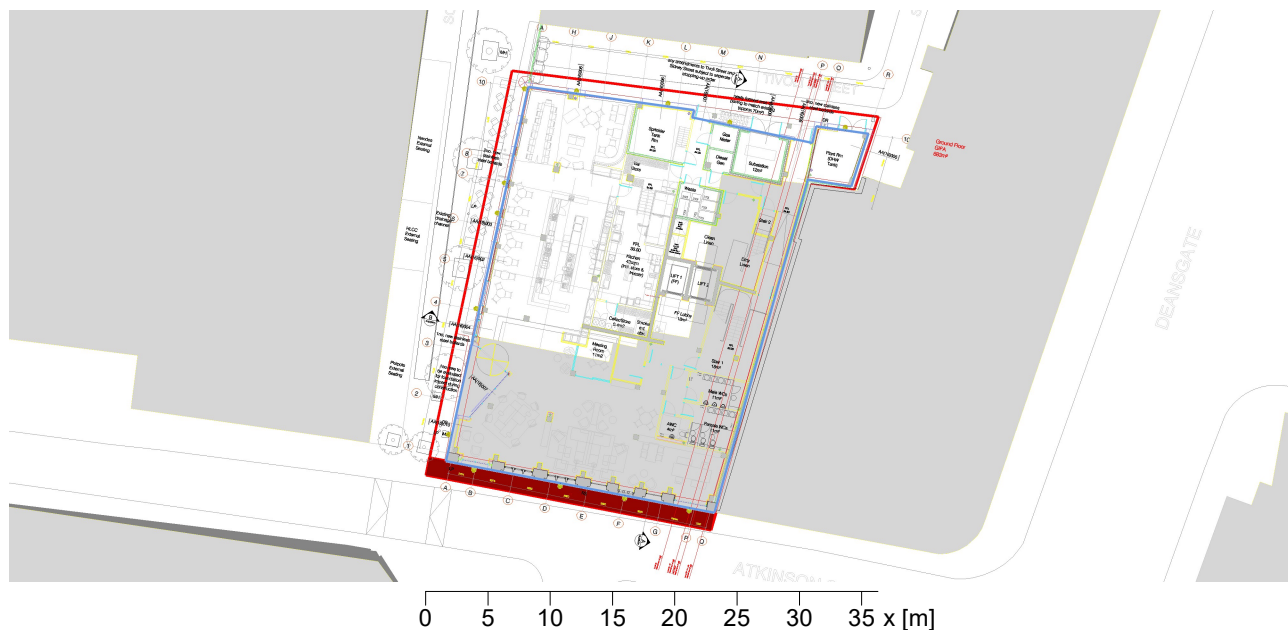
Dimensions : 270 mm x 195 mm x 162 mm



2 Exterior 1

2.1 Summary, Exterior 1

2.1.1 Result overview, Measuring area 1



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Height (phot centre) [m]:	2.87 m
Maintenance factor	0.80

Total luminous flux of all lamps	29640 lm
Total power	309.4 W
Total power per area (854.36 m ²)	0.36 W/m ²

Illuminance

Average illuminance	Em	71.5 lx
Minimum illuminance	Emin	43.5 lx
Maximum illuminance	Emax	87.4 lx
Uniformity Uo	Emin/Em	1:1.64 (0.61)
Diversity Ud	Emin/Emax	1:2.01 (0.5)

Type No. Make

1 13

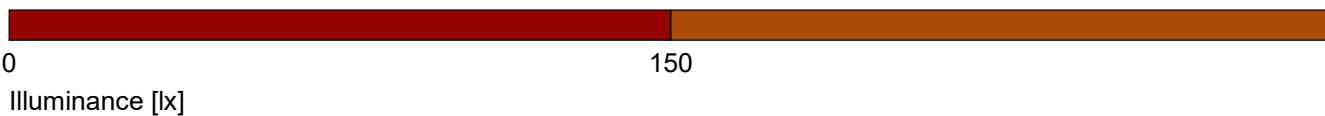


iGuzzini

Order No.	: BV15
Luminaire name	: iTeka
Equipment	: 1 x LED Warm White 20 W / 2280 lm

2.1 Summary, Exterior 1

2.1.2 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height (phot. centre)
 Maintenance factor

Average indirect fraction
 2.87 m
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (854.36 m²)

29640.00 lm
 309.4 W
 0.36 W/m² (0.61 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

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

59.7 lx
 0 lx

 0.00 m

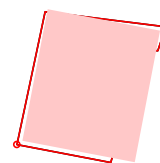
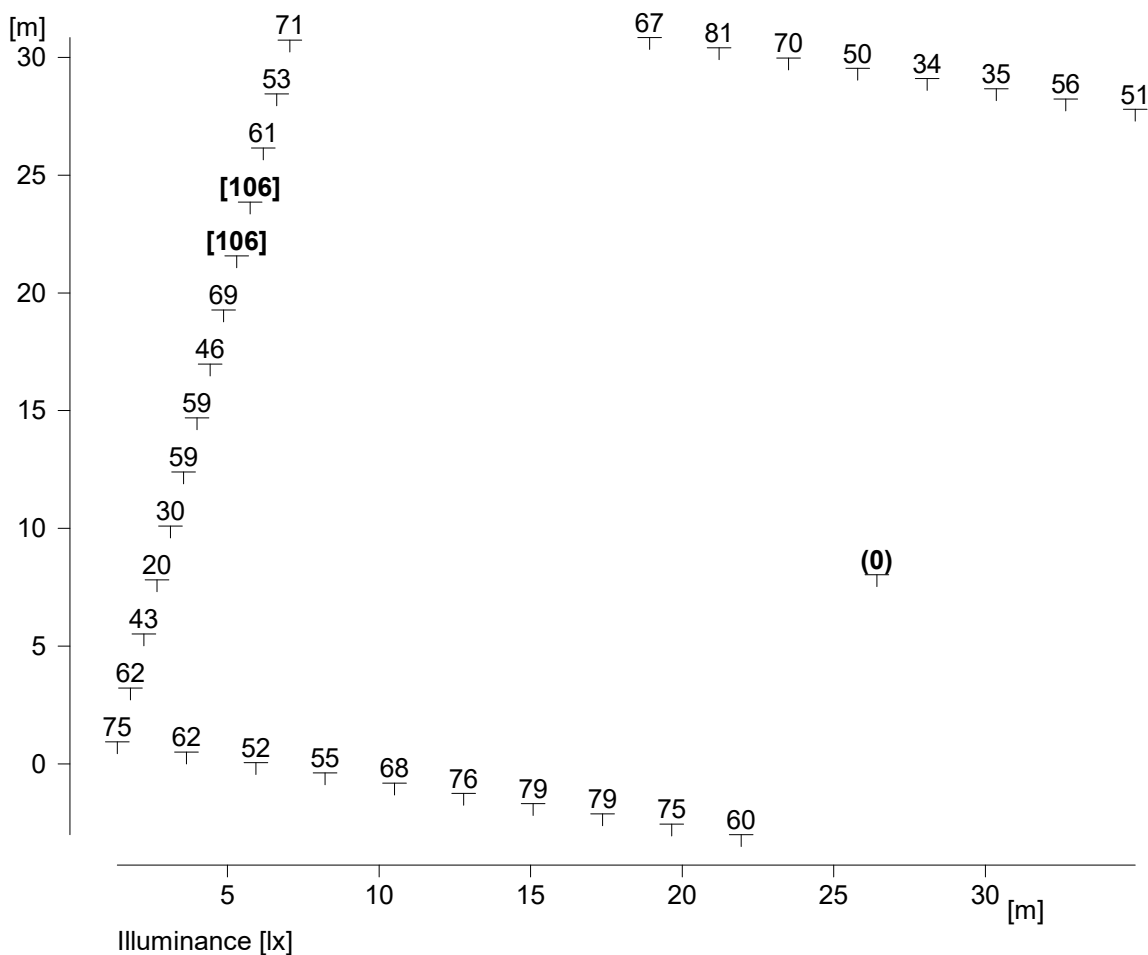
Type No. Make

1	13	iGuzzini	
		Order No.	: BV15
		Luminaire name	: iTeka
		Equipment	: 1 x LED Warm White 20 W / 2280 lm

2 Exterior 1

2.2 Calculation results, Exterior 1

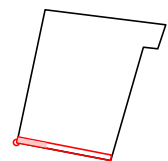
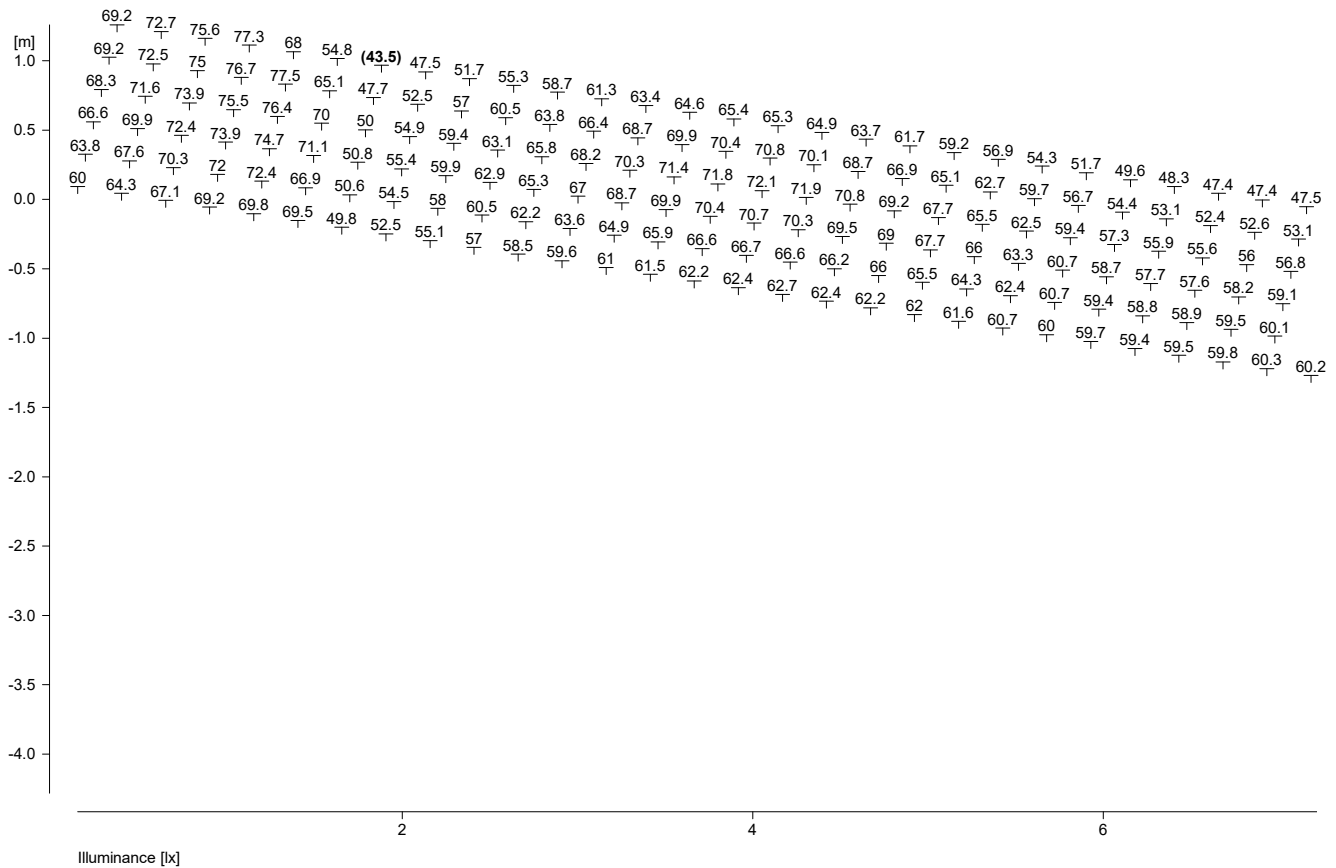
2.2.1 Table, Reference plane 1.1 (E)



Height reference plane	: 0.00 m
Average illuminance	Em : 60 lx
Minimum illuminance	Emin : 0 lx
Maximum illuminance	Emax : 106 lx
Uniformity Uo	Emin/Em : ---
Diversity Ud	Emin/Emax : ---

2.2 Calculation results, Exterior 1

2.2.2 Table, Measuring area 1 (E)

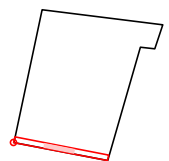
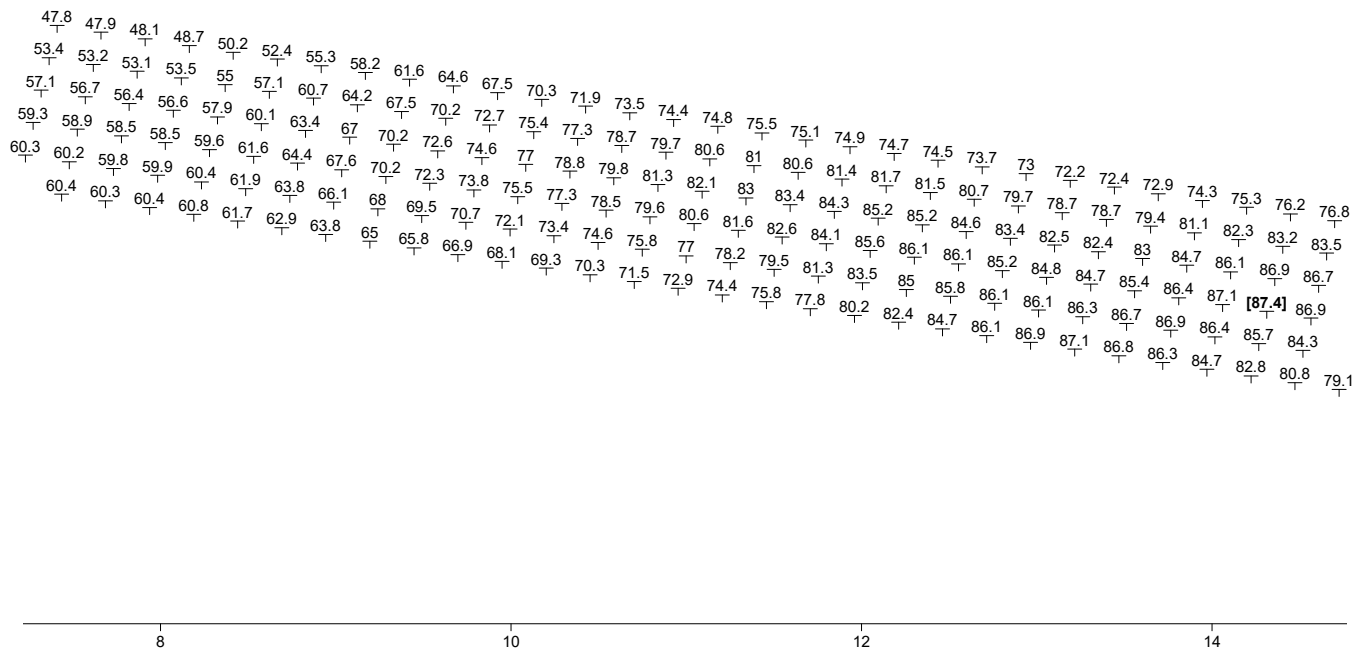


Part1

Height reference plane	: 0.00 m
Average illuminance	Em : 71.5 lx
Minimum illuminance	Emin : 43.5 lx
Maximum illuminance	Emax : 87.4 lx
Uniformity Uo	Emin/Em : 1 : 1.64 (0.61)
Diversity Ud	Emin/Emax : 1 : 2.01 (0.50)

2.2 Calculation results, Exterior 1

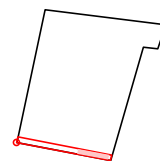
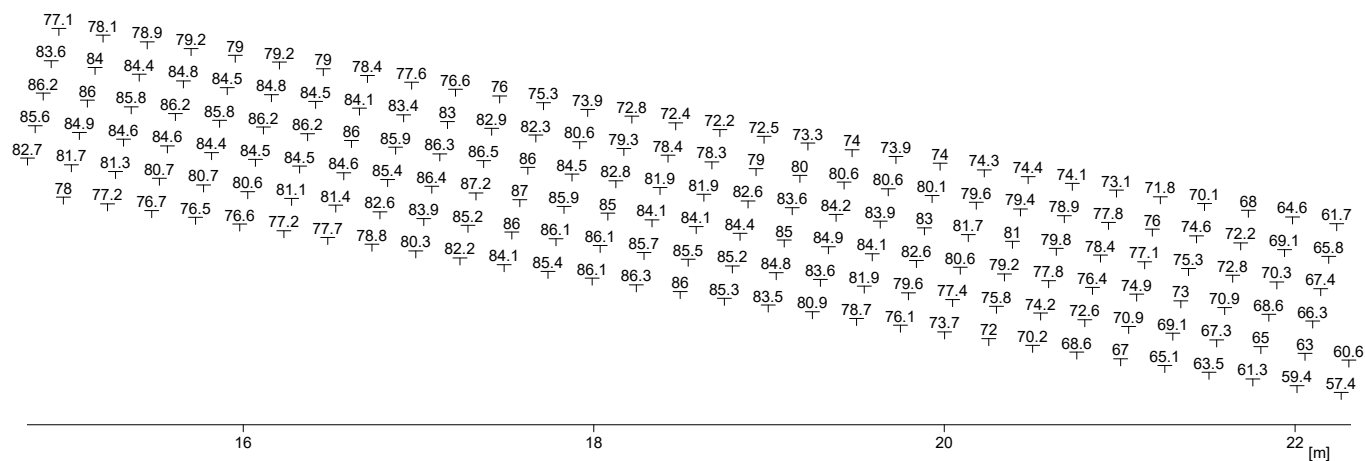
2.2.2 Table, Measuring area 1 (E)



Part2

2.2 Calculation results, Exterior 1

2.2.2 Table, Measuring area 1 (E)

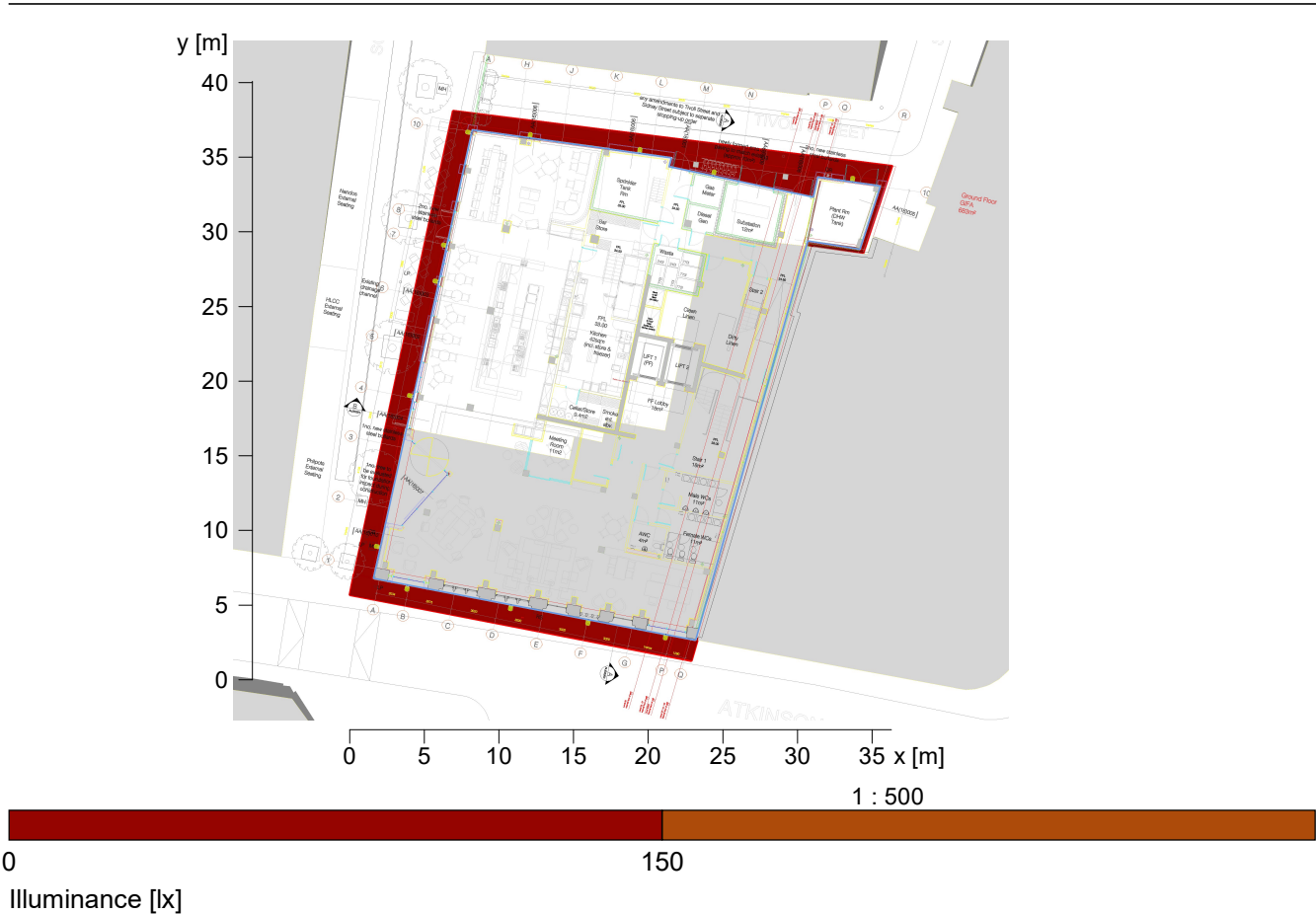


Part3

iGuzzini

2.2 Calculation results, Exterior 1

2.2.3 Pseudo colours, Reference plane 1.1 (E)



Height reference plane		: 0.00 m
Average illuminance	Em	: 60 lx
Minimum illuminance	Emin	: 0 lx
Maximum illuminance	Emax	: 106 lx
Uniformity Uo	Emin/Em	: ---
Diversity Ud	Emin/Emax	: ---

2.2 Calculation results, Exterior 1

2.2.4 3D luminance, View 1

