



Withington Apartments

Installation : Proposed New Installation

Project number : QUO-39813-T5G5Q8
Customer : Barlow Electrical Supplies Ltd
Processed by : Antonio Formisano
Date : 30.10.2020

Project description:

All room/exterior area dimensions to be checked on-site prior to ordering.

Calculation based on standard reflectance values as 20/30/30 and Maintenance Factor 0.8.

Lighting designed to CIBSE guidelines where applicable and/or client requirements, all stated lux values are for overall averages across the room reference plane.

Emergency lighting design has been designed in accordance with BS5266/EN1838/ I.S. 3217 where applicable. The emergency lighting needs to be checked and approved by a local fire control officer and approved by the building owner. This emergency lighting does not include the calculation for the location of critical emergency items such as (Plant or Switch rooms location of task, Reception telephone, First Aid Points, Extinguisher points, Call points, push bars, fire panels, etc.) as there are not present on issued drawings, therefore higher require lux levels under emergency conditions cannot be design at this stage.

In the absence of a Fire Strategy plan, certain assumptions have been made in regard to Exit Sign based on the shortest Exit Routes. These are to be reviewed in order to verify accuracy for this particular prior to proceeding to order/installation. As Ansell have not been issued a risk assessment, we cannot accept responsibility for emergency lighting, therefore this emergency lighting design must be checked by a responsible person or building owner to confirm that assumed risk assessments are correct. In any circumstances, if assumptions being used in this emergency lighting calculation are not correct, we need to be informed and a new emergency calculation will be completed prior to customer order based on new risk assessment issued.

All rooms smaller than 60m² will be assumed as "no risk involved" as there is no risk assessment issued from the customer, therefore no emergency lighting will be provided at the design stage, therefore this emergency lighting design must be checked by a responsible person or building owner to confirm that assumed risk assessments are correct.

It is the responsibility of the customer to ensure any scheme provided by Ansell meets all requirements of the end user.

Please Note: the lighting scheme does not consider the contribution of luminaires not provided by Ansell. External Vaste installed at 4m tilted 45°; Nappa installed at 2m; External Tornado Pro and Galaxy installed under the canopy at 2.4m; Dup Midi installed at 2.4m; Mattone bricklight installed at 0.3m

Rev. A (17/12/2020) - calculated the corridors using Prism Pro and Emergency Kit.

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.

Produced By
Ansell Lighting Design Department

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1 Luminaire data

1.1 ANSELL, AMENITY - Eclipse Mult... (AECLED/W/CCT/M3...)

1.1.1 Data sheet

Manufacturer: ANSELL



AECLED/W/CCT/M3-25W-CW ceiling surface fixed wall wash luminaire **AMENITY - Eclipse MultiLED CCT**
AECLED/W/CCT/M3-25W-CW

Amenity
Eclipse MultiLED CCT
Supplied c/w Integral Driver

- LED wall/ceiling luminaire with adjustable power and light output option
 - One product with integral driver dip-switch
 - Internal CCT selector switch allows the installer to choose the CCT between 3000K, 4000K and 6500K
 - Lumen package options allow retrofit of 28W, 38W or 55W CFL luminaires
 - Flexibility of performance allows suitability for multiple applications
 - Spun aluminium base with dished opal Visiluxe diffuser
 - BESA box fixing versatile mounting options
 - Option of White, Chrome or Satin Chrome housing
 - LED lifespan L70 54,000 hours
-
- Suitable for internal use only
 - 5 Year Product Warranty
 - IP20

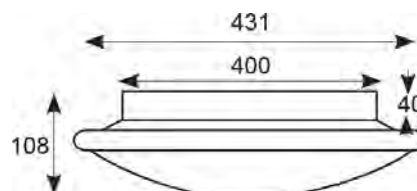
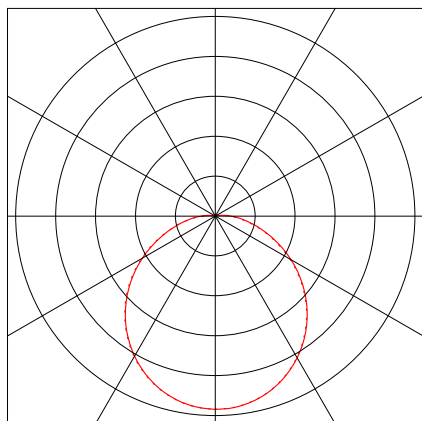
Luminaire data

Luminaire efficiency : 74%
Luminaire efficacy : 113.84 lm/W
Classification : A41 ↓97.3% ↑2.7%
CIE Flux Codes : 45 75 93 97 74
UGR 4H 8H : 22.6 / 22.4
Control gear : Electronic ballast
Power : 25 W
Luminous flux : 2846 lm

Equipped with

Quantity : 1
Designation : LED single 840
Colour : 4000K
Luminous flux : 3846 lm
Socket : --
Colour reproduction : --

Dimensions : Ø431 mm x 108 mm



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1 Luminaire data

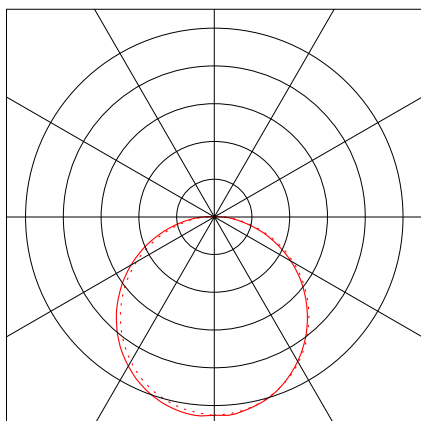
1.1 ANSELL, AMENITY - Eclipse Mult... (AECLED/W/CCT/M3...)

1.1.1 Data sheet

Emergency Lighting

Emergency lighting with own light source

Luminaire efficiency : 79.8%
Luminaire efficacy : 129.28 lm/W
Power : 1 W
Luminous flux : 162 lm



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1 Luminaire data

1.2 ANSELL, EMERGENCY - Encore LED Exit ... (AENLED/3M/W)

1.2.1 Data sheet

Manufacturer: ANSELL



AENLED/3M/W Escape luminaires EMERGENCY - Encore LED Exit Sign

AENLED/3M/W

Emergency Exit Boxes

Encore LED Exit Sign

Supplied c/w Integral Driver

LED 2.6W White Maintained / Non-Maintained Supplied c/w Legend

Ultra slim modern LED exit sign

Self-test option

Neat picture frame appearance compared to conventional fluorescent exit signs

Supplied with all legend options - arrow down and arrow left/right

Viewing distance 29 metres

- Suitable for internal use only
- 3 Year Product Warranty
- IP20

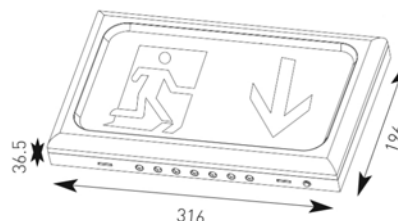
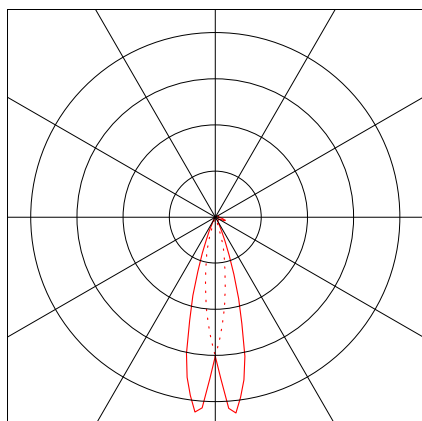
Luminaire data

Luminaire efficiency : 100%
 Luminaire efficacy : 7.69 lm/W
 Classification : A71 ↓94.7% ↑5.3%
 CIE Flux Codes : 81 86 95 95 98
 UGR 4H 8H : <10.0 / <10.0
 Control gear : Electronic ballast
 Power : 2.6 W
 Luminous flux : 20 lm

Equipped with

Quantity : 1
 Designation : LED
 Colour : 840/4000K
 Luminous flux : 20 lm
 Socket : --
 Colour reproduction : 1B/80...89

Dimensions : 316 mm x 36 mm x 196 mm



Emergency Lighting

Light source from normal operation with reduced flux

Luminous flux : 20 lm

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1 Luminaire data

1.3 ANSELL, EMERGENCY - Swift LED Bulkhead (ASWTLED/3M)

1.3.1 Data sheet

Manufacturer: ANSELL



ASWTLED/3M Escape luminaires EMERGENCY - Swift LED Bulkhead

ASWTLED/3M

Emergency Swift LED Bulkhead 3W LED White

Swift LED Bulkhead

supplied c/w Legend and Integral Driver

Small and unobtrusive LED bulkhead

Supplied with self-adhesive

Optic design provides optimum performance for escape route lighting

Side and rear cable entries

Screwless gear tray for ease of installation

Viewing distance 17 metres

(Maintained / Non-Maintained)

- Suitable for both internal and external use
- 3 Year Product Warranty
- IP65

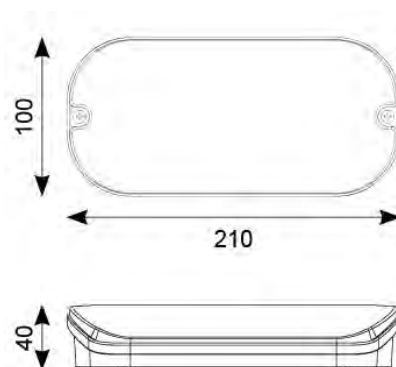
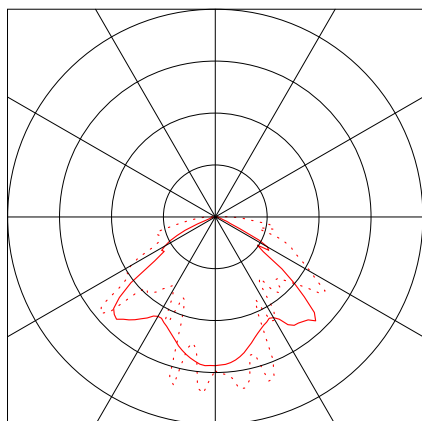
Luminaire data

Luminaire efficiency	: 35.4%
Luminaire efficacy	: 17.26 lm/W
Classification	: A40 ↓98.9% ↑1.1%
CIE Flux Codes	: 41 73 92 99 35
UGR 4H 8H	: 11.9 / 17.6
Control gear	: Electronic ballast
Power	: 4 W
Luminous flux	: 69 lm

Equipped with

Quantity	: 1
Designation	: LED
Colour	: 840/4000K
Luminous flux	: 195 lm
Socket	: --
Colour reproduction	: 1B/80...89

Dimensions : 210 mm x 100 mm x 40 mm



Emergency Lighting

Light source from normal operation with reduced flux

Luminous flux : 195 lm

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1 Luminaire data

1.4 ANSELL, INDUSTRIAL - Tornado Pro LED N... (ATORPLED5)

1.4.1 Data sheet

Manufacturer: ANSELL



ATORPLED5 Ceiling mounted luminaire INDUSTRIAL - Tornado Pro LED Non-Corrosive

ATORPLED5

INDUSTRIAL

Tornado Pro LED Non-Corrosive

LED 29W

Supplied c/w Integral Driver

- Exceeds performance of standard T5 fluorescent
- Ultra slim IP65 LED NCF linear.
- Unique base design caters for multiple installation methods.
- Installer friendly imbedded features aid accurate and fast installation for any application.
- Quick release LED array / gear tray assembly provides the installer the means to faster installation / maintenance.
- Fast latching / permanently located stainless steel side clips ensure a quick and secure connection
- Tridonic LED driver as standard
- Self-test emergency as standard with Li-ion battery technology, reducing charge time and running costs
- LED lifespan L80 B10 54,000 hours

Options

/M3 Self-Test Emergency

/DM3 DALI Emergency

/OCTO OCTO Smart Control

/MWS Integral Microwave Sensor

/DD Digital Dimming (DD1/DD2/DD3/DD4)

Operating Temp -10°C to 40°C

- Suitable for both internal and external use
- 5 Year Product Warranty
- IP65

Luminaire data

Absolute Photometry

Luminaire efficacy

: 110.66 lm/W

Classification

: A31 ↓93.4% ↑6.6%

CIE Flux Codes

: 43 72 91 93 100

UGR 4H 8H

: 23.2 / 22.3

Control gear

: Electronic ballast

Power

: 29 W

Luminous flux

: 3209 lm

Dimensions

: 1565 mm x 85 mm x 70 mm

Equipped with

Quantity

: 1

Designation

: LED

Colour

: 840/4000K

Socket

: --

Colour reproduction

: 1B/80...89

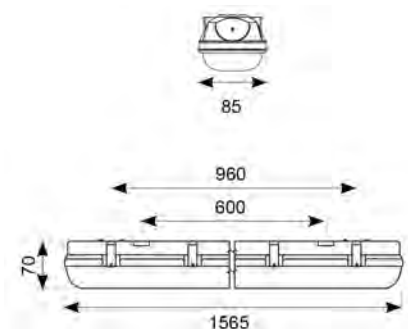
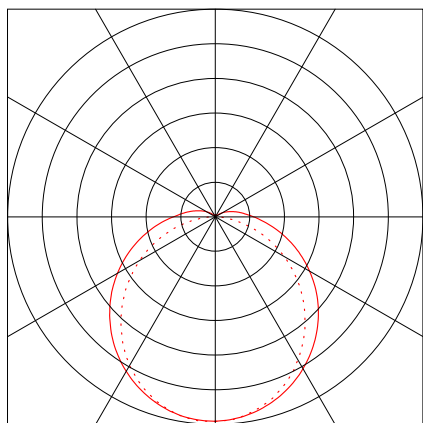
Object : Withington Apartments
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1 Luminaire data

1.4 ANSELL, INDUSTRIAL - Tornado Pro LED N... (ATORPLED5)

1.4.1 Data sheet



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1 Luminaire data

1.5 ANSELL, INDUSTRIAL - Tornado Pro LE... (ATORPLED5/M3)

1.5.1 Data sheet

Manufacturer: ANSELL



ATORPLED5/M3 Ceiling mounted luminaire INDUSTRIAL - Tornado Pro LED Non-Corrosive

ATORPLED5/M3

INDUSTRIAL

Tornado Pro LED Non-Corrosive

LED 29W

Supplied c/w Integral Driver

- Exceeds performance of standard T5 fluorescent
- Ultra slim IP65 LED NCF linear.
- Unique base design caters for multiple installation methods.
- Installer friendly imbedded features aid accurate and fast installation for any application.
- Quick release LED array / gear tray assembly provides the installer the means to faster installation / maintenance.
- Fast latching / permanently located stainless steel side clips ensure a quick and secure connection
- Tridonic LED driver as standard
- Self-test emergency as standard with Li-ion battery technology, reducing charge time and running costs
- LED lifespan L80 B10 54,000 hours

Options

/M3 Self-Test Emergency

/DM3 DALI Emergency

/OCTO OCTO Smart Control

/MWS Integral Microwave Sensor

/DD Digital Dimming (DD1/DD2/DD3/DD4)

Operating Temp -10°C to 40°C

- Suitable for both internal and external use
- 5 Year Product Warranty
- IP65

Luminaire arrangement for:

ATORPLED5/M3

	Position			Rotation		
	x[m]	y[m]	z[m]	Z[°]	C0[°]	C90[°]
(ATORPLED/5 1x29W) :	0.000	0.000	-0.030	0	0	0
INDUSTRIAL - Tornado IP65 LED No... :	0.000	-0.020	-0.060	0	0	0

Position is the LDC position of the luminaire.

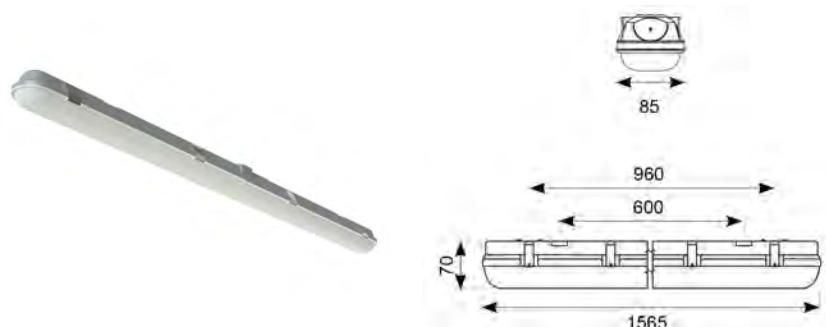
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1 Luminaire data

1.5 ANSELL, INDUSTRIAL - Tornado Pro LE... (ATORPLED5/M3)

1.5.1 Data sheet



ATORPLED/5

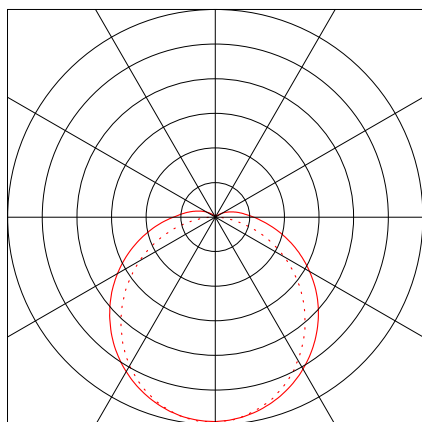
Luminaire data

Absolute Photometry
 Luminaire efficacy : 110.66 lm/W
 Classification : A31 ↓ 93.4% ↑ 6.6%
 CIE Flux Codes : 43 72 91 93 100
 UGR 4H 8H : 21.4 / 21.5
 Control gear : Electronic ballast
 Power : 29 W
 Luminous flux : 3209 lm

Equipped with

Quantity : 1
 Designation :
 Colour :

Dimensions : 1548 mm x 70 mm x 70 mm



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1 Luminaire data

1.5 ANSELL, INDUSTRIAL - Tornado Pro LE... (ATORPLED5/M3)

1.5.1 Data sheet

ATORPLED EM Module

INDUSTRIAL - Tornado IP65 LED Non-Corrosive

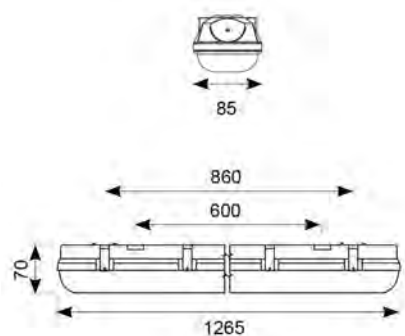
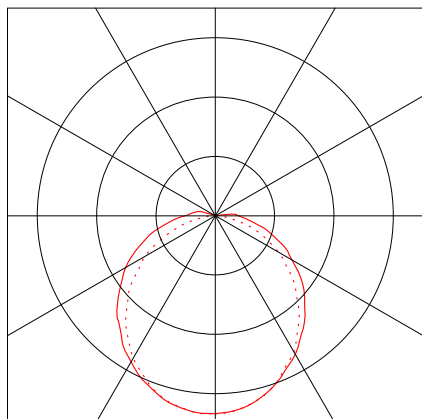
Luminaire data

Absolute Photometry
Luminaire efficacy : 70.67 lm/W
Classification : A41 ↓ 97.2% ↑ 2.8%
CIE Flux Codes : 45 75 93 97 100
UGR 4H 8H : 15.9 / 13.4
Control gear : Electronic ballast
Power : 3 W
Luminous flux : 212 lm

Dimensions : 100 mm x 1200 mm x 1 mm

Equipped with

Quantity : 1
Designation : LED
Colour : 840/4000K
Colour reproduction : 1B/80...89



Emergency Lighting

Light source from normal operation with reduced flux

Luminous flux : 212 lm

Object : Withington Apartments
Installation : Proposed New Installation
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1 Luminaire data

1.6 ANSELL, DISPLAY - Prism LED Fire Rat... (APRILED/WW)

1.6.1 Data sheet

Manufacturer: ANSELL



APRILED/WW LED Downlights DISPLAY - Prism LED Fire Rated Downlight

APRILED/WW

Display

Prism LED Fire Rated Downlight

Supplied c/w Integral Driver

- LED dimmable fire-rated downlight for domestic applications
- Supplied with matt white bezel as standard
- Integral driver with push-fit loop-in, loop-out terminals for ease and speed of installation
- Fully tested for 30, 60 and 90 minute ceiling types to meet Part B of Building Regulations
- Fully tested to meet Part C (moisture) and Part E (acoustic) of Building Regulations
- Wide 60° beam angle for increased light distribution
- LED lifespan L70 60,000 hours

Dimming - for best compatibility the following products are recommended :-

Ansell AORBLED/DIMMER

Zano ZGRID500

Varilight V-PRO

Matt White Bezel fitted as standard

Trim Bezels

APRILED/CH Chrome Trim Bezel

APRILED/SC Satin Chrome Trim Bezel

- Suitable for internal use only
- 5 Year Product Warranty
- 90 minute Fire Rated Downlight
- IP65

Luminaire data

Absolute Photometry

Luminaire efficacy

: 96.35 lm/W

Classification

: A60 ↓99.5% ↑0.5%

CIE Flux Codes

: 84 97 100 99 100

UGR 4H 8H

: 19.2 / 19.3

Control gear

: Electronic ballast

Power

: 7.4 W

Luminous flux

: 713 lm

Dimensions

: Ø94 mm x 5 mm

Equipped with

Quantity

: 1

Designation

: LED single 830

Colour

: 3000K

Socket

: --

Colour reproduction

: --

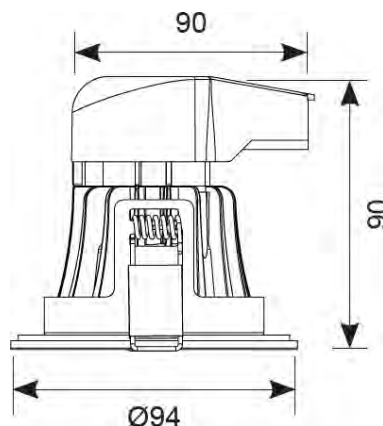
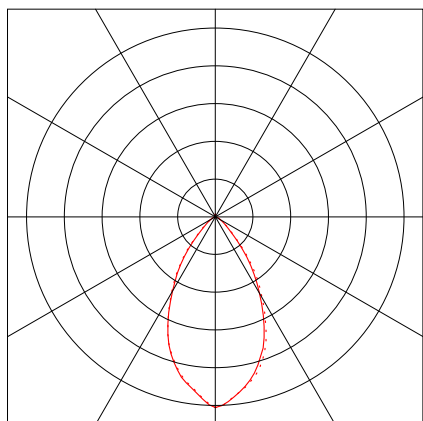
Object : Withington Apartments
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1 Luminaire data

1.6 ANSELL, DISPLAY - Prism LED Fire Rat... (APRILED/WW)

1.6.1 Data sheet



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1 Luminaire data

1.7 ANSELL, DISPLAY - Galaxy CCT LED... (AGALED/1/CCT/CW)

1.7.1 Data sheet

Manufacturer: ANSELL



AGALED/1/CCT/CW ceiling recessed mount fixed LED downlight **DISPLAY - Galaxy CCT LED Downlight**

AGALED/1/CCT/CW

DISPLAY

Galaxy CCT LED Downlight

Supplied c/w Remote Driver

- Compact IP65 LED Downlight which out performs twin 18W and 26W PLC lamp variants
- One product provides both 3000K and 4000K colour temperature options
- Identical cut-out dimensions to replace Galaxy PLC
- Fitting and driver pre-wired with ST18 connectors
- Faceted reflector and optical fresnel lens provides outstanding performance, uniformity and glare control
- Removable twist on, twist off bezel provides option of utilising alternative bezel
- Dimmable and Emergency options
- LED lifespan L70 50,000 hours

Options

/M3 Remote Emergency

/DD LED Dimmable

/DD/M3 LED Dimmable Emergency

Trim Bezel

AGPL/TB/CH Twist On Trim Bezel - Chrome

AGPL/TB/SC Twist On Trim Bezel - Satin Chrome

Remote Emergency Box Dimensions

Length 415mm, Width 145mm,

Depth 70mm

- Suitable for internal use only
- 5 Year Product Warranty
- Bathroom Zone 2 BSEN7671:2008
- IP65

Luminaire data

Luminaire efficiency : 82.2%
Luminaire efficacy : 103.85 lm/W
Classification : A50 ↓99.9% ↑0.1%
CIE Flux Codes : 62 87 98 100 82
UGR 4H 8H : 22.5 / 21.5
Control gear : Electronic ballast
Power : 15 W
Luminous flux : 1557.7 lm

Dimensions : Ø226 mm x 8 mm

Equipped with

Quantity : 1
Designation : LED
Colour : 840/4000K
Luminous flux : 1895 lm
Socket : --
Colour reproduction : 1B/80...89

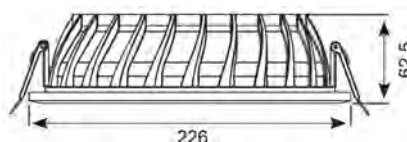
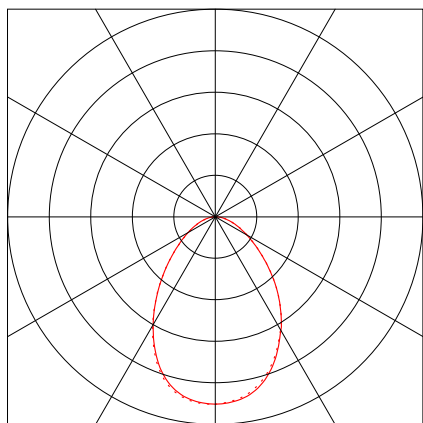
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1 Luminaire data

1.7 ANSELL, DISPLAY - Galaxy CCT LED... (AGALED/1/CCT/CW)

1.7.1 Data sheet



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1 Luminaire data

1.8 ANSELL, FLOODLIGHTING - Vaste LED Flood... (AVFLED30)

1.8.1 Data sheet

Manufacturer: ANSELL



AVFLED30 Projector FLOODLIGHTING - Vaste LED Floodlight

AVFLED30

FLOODLIGHTING

Vaste LED Floodlight

LED 30W - Cool White

Supplied c/w Integral Driver

- Modern architectural slim die-cast LED floodlight
- 10 W ideal for halogen replacement
- 30 W comparable light output to 35W HQI
- 50 W comparable light output to 70 W HQI-TS
- Die-Cast construction ,and heat sink design providing optimised thermal characteristics for optimum LED life and performance
- Graphite textured paint finish
- Pre-wired with 1 metre of rubber insulated cable for ease of installation
- PIR versions complete with manual override facility
- LED lifespan L70 20,000 hours
- Non-dimmable

Operating Temp -15°C to 40°C

- Suitable for both internal and external use
- 2 Year Product Warranty
- IP65

Luminaire data

Luminaire efficiency : 81.9%
Luminaire efficacy : 96.64 lm/W
Classification : A50 ↓100.0% ↑0.0%
CIE Flux Codes : 53 88 99 100 82
UGR 4H 8H : 27.5 / 31.1
Control gear : Electronic ballast
Power : 30 W
Luminous flux : 2899.3 lm

Dimensions : 165 mm x 198 mm x 54 mm

Equipped with

Quantity : 1
Designation : LED
Colour : 840/4000K
Luminous flux : 3540 lm
Socket : --
Colour reproduction : 1B/80...89

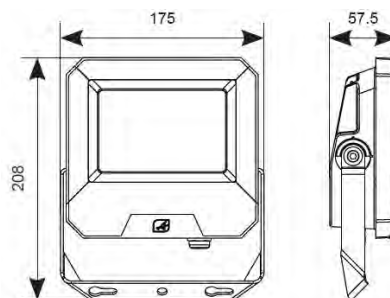
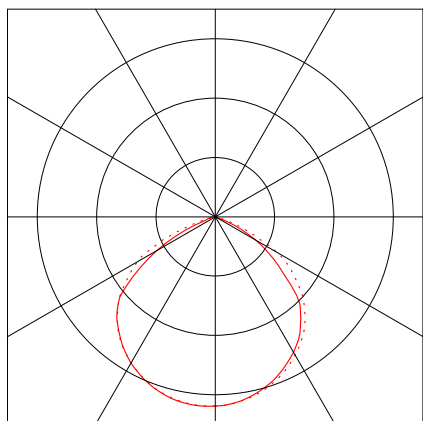
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1 Luminaire data

1.8 ANSELL, FLOODLIGHTING - Vaste LED Flood... (AVFLED30)

1.8.1 Data sheet



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1 Luminaire data

1.9 ANSELL, AMENITY - Nappa LED CC... (ANAPLED/B/M3 - ...)

1.9.1 Data sheet

Manufacturer: ANSELL



ANAPLED/B/M3 - CW 18W ceiling surface fixed wall wash luminaire **AMENITY - Nappa LED CCT**

ANAPLED/B/M3

Amenity Architectural Die-Cast Wall

Nappa LED CCT

Supplied c/w Integral Driver

- Die-cast aluminium construction with tamperproof stainless steel allen key screws to retain opal polycarbonate diffuser and frame
- One product with integral switches for multi-wattage and selectable CCT options
- 18 W exceeds performance of 38 W TC-DD
- 28 W exceeds performance of 2x26W PL-C
- LED lifespan L70 60,000 hours
- Non-dimmable
- Suitable for external use only
- 5 Year Product Warranty
- IP65

Luminaire data

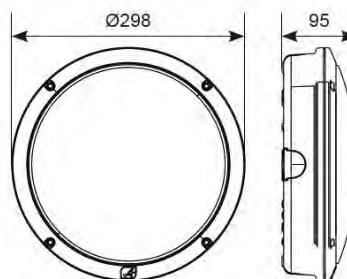
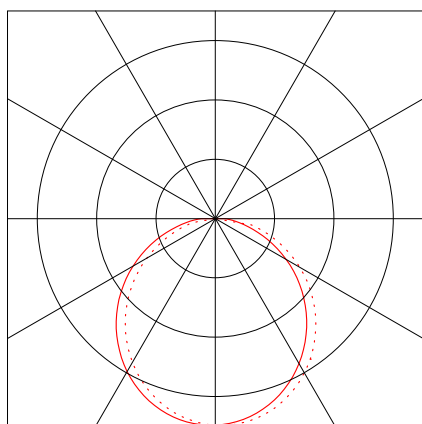
Absolute Photometry

Luminaire efficacy : 116.88 lm/W
Classification : A40 ↓99.9% ↑0.1%
CIE Flux Codes : 46 77 94 100 100
UGR 4H 8H : 21.9 / 21.4
Control gear : Electronic ballast
Power : 18 W
Luminous flux : 2103.9 lm

Dimensions : Ø325 mm x 125 mm

Equipped with

Quantity : 1
Designation : LED
Colour : 840/4000K
Socket : --
Colour reproduction : 1B/80...89



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1 Luminaire data

1.9 ANSELL, AMENITY - Nappa LED CC... (ANAPLED/B/M3 - ...)

1.9.1 Data sheet

Emergency Lighting

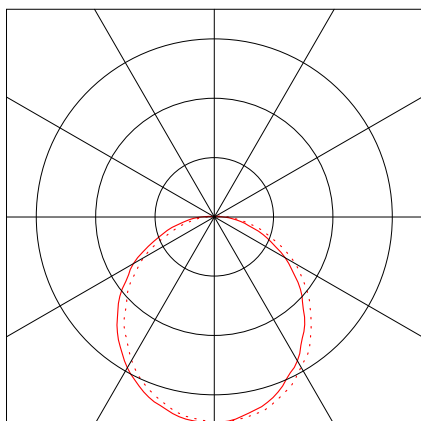
Emergency lighting with own light source

Absolute Photometry

Luminaire efficacy : 22.11 lm/W

Power : 18 W

Luminous flux : 397.9 lm



Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



1 Luminaire data

1.10 ANSELL, AMENITY - Duo Midi LED (ADMLED1/GR/CW)

1.10.1 Data sheet

Manufacturer: ANSELL



ADMLED1/GR/CW Bi-Directional Wall Light AMENITY - Duo Midi LED

ADMLED1/GR/CW

AMENITY

Duo Midi LED

Supplied c/w Integral Driver

- Bi-directional LED wall light
- 19W exceeds performance of 70W CDM-T
- 42W exceeds performance of 150W CDM-T
- Die-cast aluminium construction with graphite paint finish
- 34° beam angle
- LED lifespan L70 40,000 hours
- Non-dimmable

- Suitable for both internal and external use
- 2 Year Product Warranty
- IP65

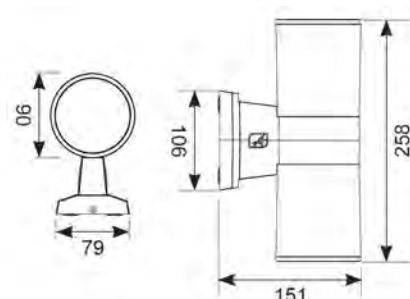
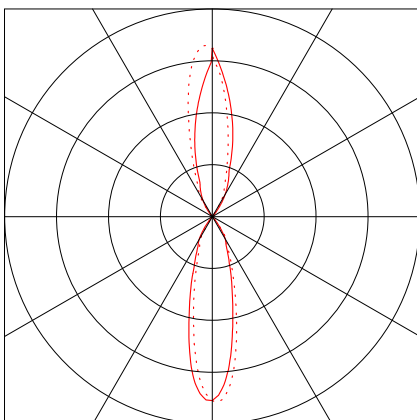
Luminaire data

Luminaire efficiency	: 89.3%
Luminaire efficacy	: 91.73 lm/W
Classification	: C84 ↓53.7% ↑46.3%
CIE Flux Codes	: 97 99 100 54 89
UGR 4H 8H	: <10.0 / <10.0
Control gear	: Electronic ballast
Power	: 19.1 W
Luminous flux	: 1752.1 lm

Equipped with

Quantity	: 1
Designation	: LED
Colour	: 840/4000K
Luminous flux	: 1962 lm
Socket	: --
Colour reproduction	: 1B/80...89

Dimensions : Ø90 mm x 258 mm



Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



1 Luminaire data

1.11 ANSELL, AMENITY - Mattone LED Uni-... (AMATBLED - CW)

1.11.1 Data sheet

Manufacturer: ANSELL



AMATBLED - CW Recessed Wall Light AMENITY - Mattone LED Uni-Bricklight CCT

AMATBLED

AMENITY

Mattone LED Uni-Bricklight CCT

LED 2W

- Universal polycarbonate LED bricklight
- Unique adjustable feet allows for installation into multiple brick apertures
- Polycarbonate construction ideal for coastal applications
- Push fit loop-in loop-out terminals for ease of installation
- Supplied c/w installation housing for additional protection and ease of installation
- CCT selectable between 3000K and 4000K
- Non-dimmable
- Suitable for external use only
- 2 Year Product Warranty
- IP65

Luminaire data

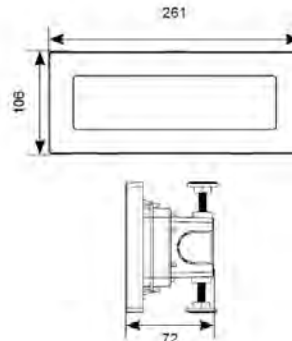
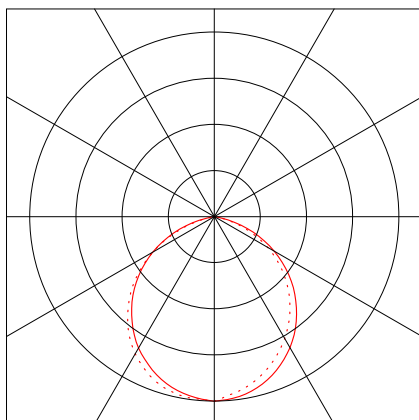
Absolute Photometry

Luminaire efficacy : 50.45 lm/W
 Classification : A40 ↓100.0% ↑0.0%
 CIE Flux Codes : 52 85 99 100 100
 UGR 4H 8H : 18.1 / 18.0
 Control gear : Electronic ballast
 Power : 2 W
 Luminous flux : 100.9 lm

Dimensions : 251 mm x 106 mm x 5 mm

Equipped with

Quantity : 1
 Designation : LED single 840
 Colour : 4000K
 Socket : --
 Colour reproduction : --



Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



1 Luminaire data

1.12 ANSELL, DISPLAY - Prism Pro LED Fire... (APRILEDP/WW)

1.12.1 Data sheet

Manufacturer: ANSELL



APRILEDP/WW ceiling recessed mount fixed LED downlight DISPLAY - Prism Pro LED Fire Rated Downlight

APRILEDP/WW

DISPLAY

Prism Pro LED Fire Rated Downlight

Supplied c/w Remote Driver

- 220 -240 V IP65 LED Fire Rated Downlight
- Remote driver with 2x1.5mm² + CPC push-fit loop-in, loop-out terminals provide an easy and efficient installation
- Detachable LED driver for fast install
- Low profile design and remote driver allow installation into shallow ceiling voids
- Fully tested for 30, 60 and 90 minute ceiling types to meet Part B of Building Regulations
- Fully tested to meet Part C (moisture) and Part E (acoustic) of Building Regulations
- Wide 60 ° beam angle for increased light distribution
- LED lifespan L70 60,000 hours

Luminaire data

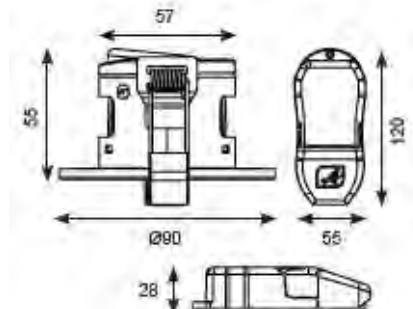
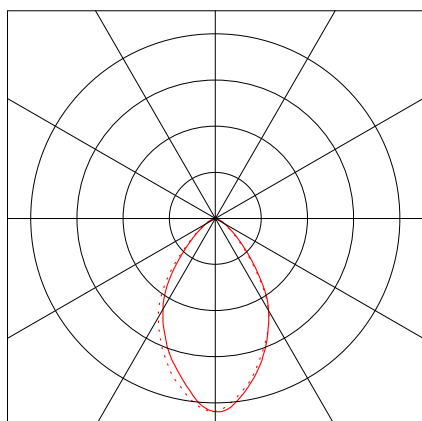
Absolute Photometry

Luminaire efficacy : 81.85 lm/W
 Classification : A60 ↓99.8% ↑0.2%
 CIE Flux Codes : 78 96 99 100 100
 UGR 4H 8H : 24.9 / 25.8
 Control gear : Electronic ballast
 Power : 6.5 W
 Luminous flux : 532 lm

Equipped with

Quantity : 1
 Designation : LED single 830
 Colour : 3000K
 Socket : --
 Colour reproduction : --

Dimensions : Ø90 mm x 5 mm



Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



1 Luminaire data

1.13 ANSELL, DISPLAY - Prism Pro LE... (!APRILEDP/WW+AC...)

1.13.1 Data sheet

Manufacturer: ANSELL



!APRILEDP/WW+ACFLP/3 ceiling recessed mount fixed LED downlight DISPLAY - Prism Pro LED Fire Rated Downlight

APRILEDP/WW

DISPLAY

Prism Pro LED Fire Rated Downlight

Supplied c/w Remote Driver

- 220 -240 V IP65 LED Fire Rated Downlight
- Remote driver with 2x1.5mm² + CPC push-fit loop-in, loop-out terminals provide an easy and efficient installation
- Detachable LED driver for fast install
- Low profile design and remote driver allow installation into shallow ceiling voids
- Fully tested for 30, 60 and 90 minute ceiling types to meet Part B of Building Regulations
- Fully tested to meet Part C (moisture) and Part E (acoustic) of Building Regulations
- Wide 60 ° beam angle for increased light distribution
- LED lifespan L70 60,000 hours

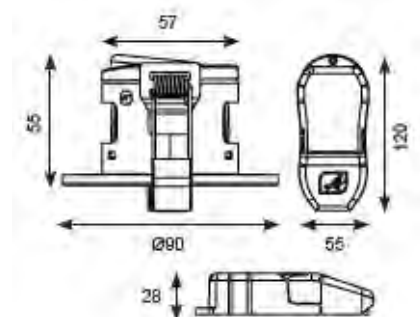
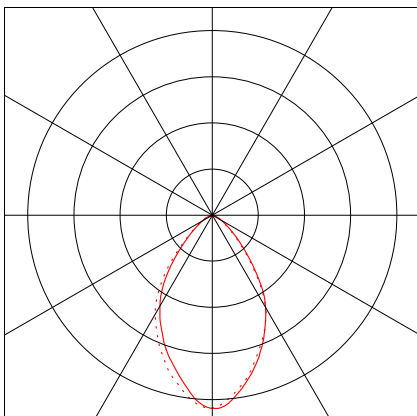
Luminaire data

Absolute Photometry
 Luminaire efficacy : 81.85 lm/W
 Classification : A60 ↓99.8% ↑0.2%
 CIE Flux Codes : 78 96 99 100 100
 UGR 4H 8H : 24.9 / 25.8
 Control gear : Electronic ballast
 Power : 6.5 W
 Luminous flux : 532 lm

Equipped with

Quantity : 1
 Designation : LED single 830
 Colour : 3000K
 Socket : --
 Colour reproduction : --

Dimensions : Ø90 mm x 5 mm



Emergency Lighting

Light source from normal operation with reduced flux

Luminous flux : 478 lm

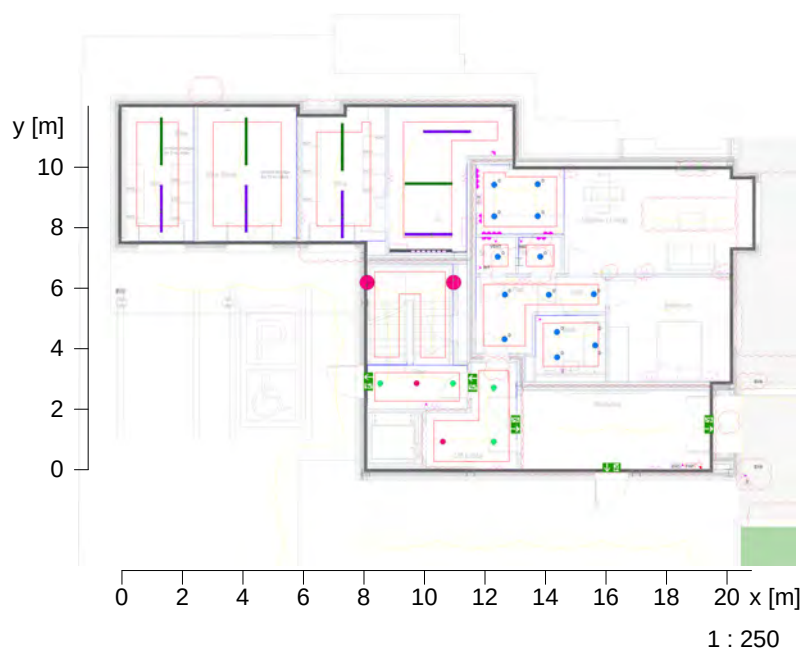
Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



2 Ground Floor

2.1 Description, Ground Floor

2.1.1 Floor plan



Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



2 Ground Floor

2.1 Description, Ground Floor

2.1.1 Floor plan

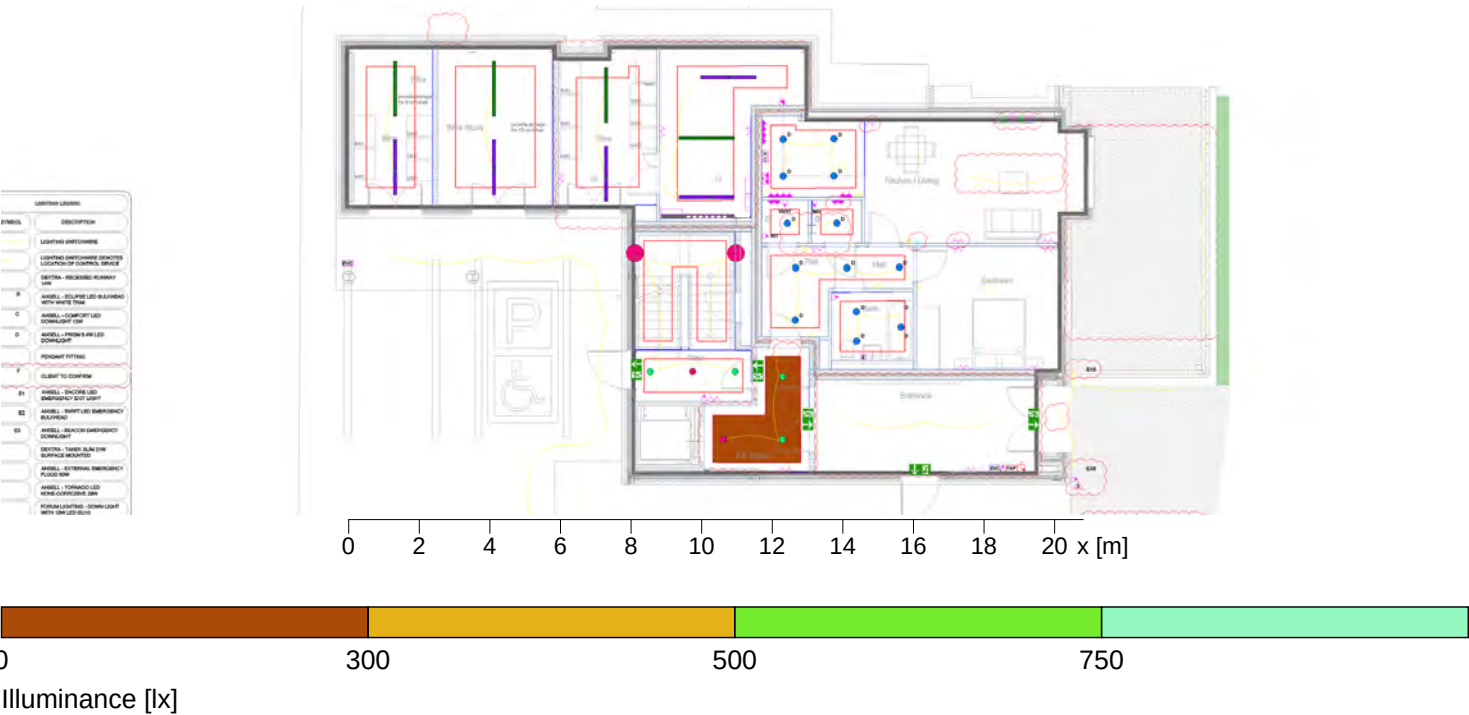
Wall	x	y	Length	Reflectance
1	29.71 m	24.90 m	8.10 m	28.4 %
2	29.71 m	17.37 m	7.52 m	28.4 %
3	41.02 m	17.36 m	11.31 m	28.4 %
4	41.02 m	20.27 m	2.90 m	28.4 %
5	41.68 m	20.27 m	0.66 m	28.4 %
6	41.68 m	24.70 m	4.43 m	28.4 %
7	42.42 m	24.70 m	0.74 m	28.4 %
8	42.42 m	26.95 m	2.25 m	28.4 %
9	41.68 m	26.95 m	0.74 m	28.4 %
10	41.68 m	27.28 m	0.33 m	28.4 %
11	34.52 m	27.28 m	7.17 m	28.4 %
12	34.52 m	29.33 m	2.06 m	28.4 %
13	29.03 m	29.33 m	5.48 m	28.4 %
14	29.03 m	29.01 m	0.33 m	28.4 %
15	27.40 m	29.01 m	1.64 m	28.4 %
16	27.40 m	29.33 m	0.33 m	28.4 %
17	21.61 m	29.33 m	5.78 m	28.4 %
18	21.61 m	24.90 m	4.44 m	28.4 %
Floor				21.1 %
Ceiling				33.2 %
Room height		2.50 m		
Height of ref. plane		0.00 m		



2 Ground Floor

2.2 Summary, Ground Floor

2.2.1 Result overview, Lift Lobby



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	1636.00 lm
Total power	24.7 W
Total power per area (8.00 m²)	3.09 W/m² (3.80 W/m²/100lx)

Lift Lobby

Reference plane 2.1

Em	81 lx
Emin	62 lx
Emin/Em (Uo)	0.76
Emin/Emax (Ud)	0.65
Position	0.00 m

Type No. \ Make

ANSELL		
2	2	Order No. : AENLED/3M/W -- Emergency Lighting --
		Luminaire name : EMERGENCY - Encore LED Exit Sign
		Equipment : 1 x LED 2.6 W / 20 lm (0%)
12	1	Order No. : APRILEDP/WW
		Luminaire name : DISPLAY - Prism Pro LED Fire Rated Downlight
		Equipment : 1 x LED single 830 6.5 W / 532 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



2 Ground Floor

2.2 Summary, Ground Floor

2.2.1 Result overview, Lift Lobby

13	2	Order No.	: !APRILEDP/WW+ACFLP/3
		Luminaire name	: DISPLAY - Prism Pro LED Fire Rated Downlight
		Equipment	: 1 x LED single 830 6.5 W / 532 lm



2.2.2 Result overview, Stairs Landing

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



2.2 Summary, Ground Floor

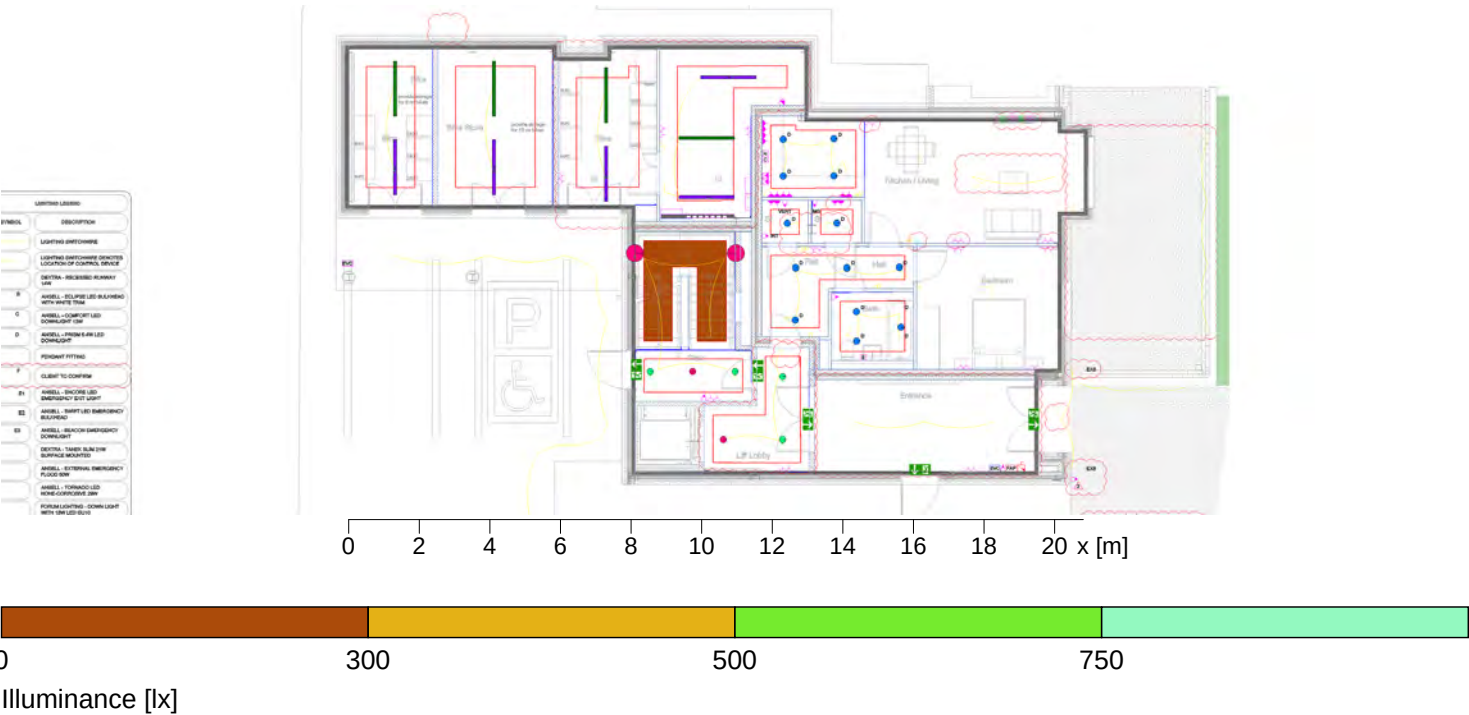
2.2.2 Result overview, Stairs Landing

13 2 Order No. : !APRILEDP/WW+ACFLP/3
 Luminaire name : DISPLAY - Prism Pro LED Fire Rated Downlight
Equipment : 1 x LED single 830 6.5 W / 532 lm



2.2 Summary, Ground Floor

2.2.3 Result overview, Stairs



General

Calculation algorithm used
Maintenance factor

Average indirect fraction
0.80

Total luminous flux of all lamps
Total power
Total power per area (8.99 m²)

7692.00 lm
50.0 W
5.56 W/m² (5.30 W/m²/100lx)

Stairs

Reference plane 4.1

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

105 lx
59 lx
0.57
0.35
0.00 m

Type No. Make

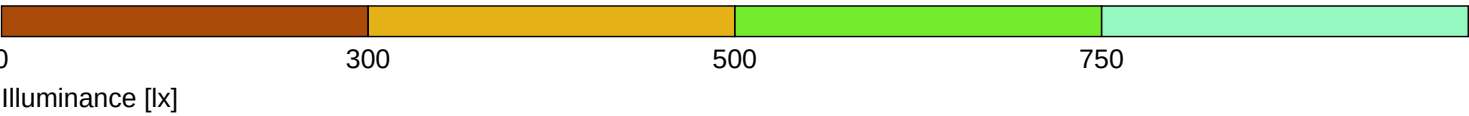
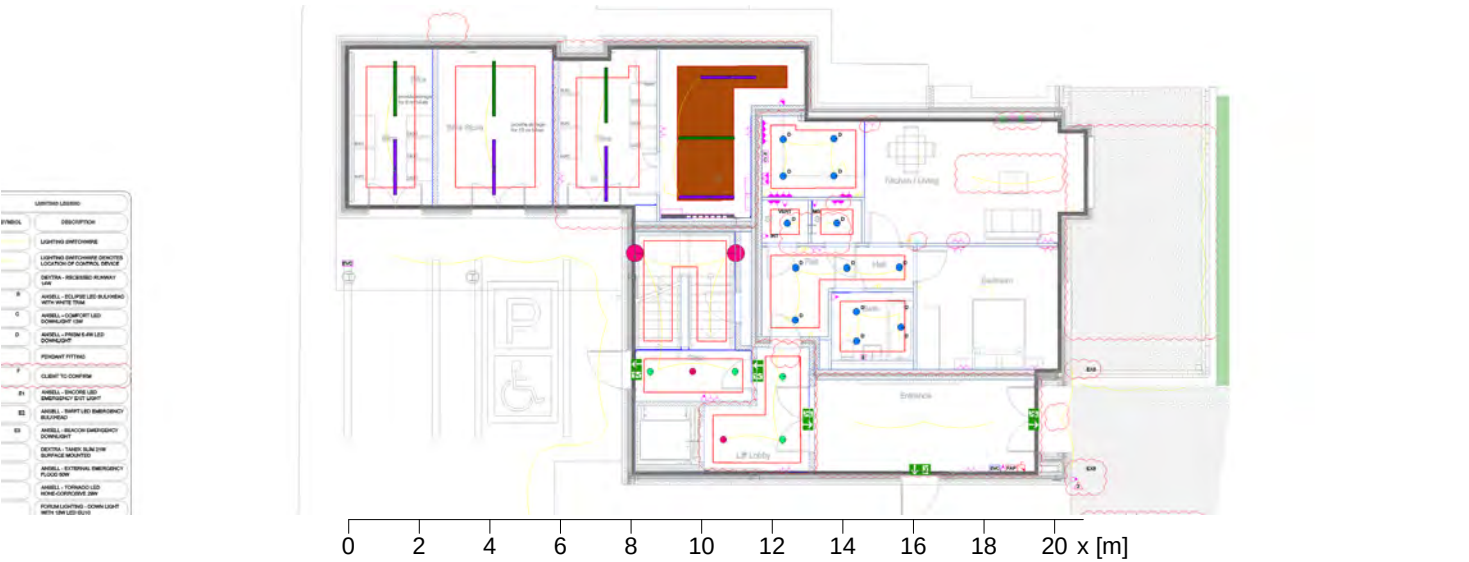
1	2	ANSELL	
		Order No.	: AECLED/W/CCT/M3-25W-CW
		Luminaire name	: AMENITY - Eclipse MultiLED CCT
		Equipment	: 1 x LED single 840 25 W / 3846 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



2.2 Summary, Ground Floor

2.2.4 Result overview, Tank Room



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	10051.00 lm
Total power	93.0 W
Total power per area (14.87 m²)	6.25 W/m² (2.81 W/m²/100lx)

Tank Room

Reference plane 5.1

Em	Horizontal
Emin	222 lx
Emin/Em (Uo)	112 lx
Emin/Emax (Ud)	0.51
Position	0.43
	0.00 m

Type No. \ Make

4	1	ANSELL	
		Order No.	: ATORPLED5
		Luminaire name	: INDUSTRIAL - Tornado Pro LED Non-Corrosive
		Equipment	: 1 x LED 29 W / 3209 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



2.2 Summary, Ground Floor

2.2.4 Result overview, Tank Room

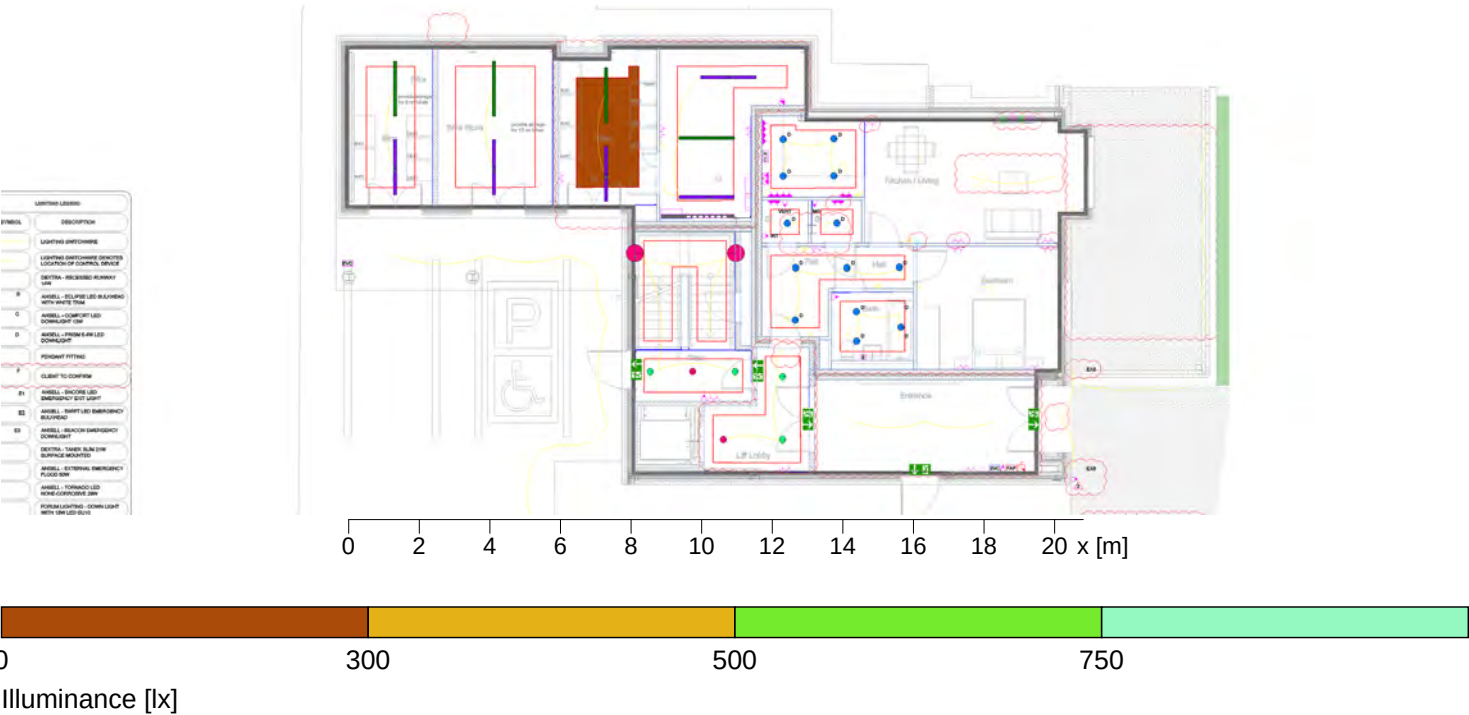
5	2	Order No.	: ATORPLED5/M3
		Luminaire name	: INDUSTRIAL - Tornado Pro LED Non-Corrosive
		with	: 1 x ATORPLED/5
		Equipment	: 1 x 29 W / 3209 lm
		with	: 1 x ATORPLED EM Module
		Equipment	: 1 x LED 3 W / 212 lm (0%)

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



2.2 Summary, Ground Floor

2.2.5 Result overview, Bins



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	6630.00 lm
Total power	61.0 W
Total power per area (11.78 m²)	5.18 W/m² (2.95 W/m²/100lx)

Bins Reference plane 6.1

	Horizontal
Em	175 lx
Emin	135 lx
Emin/Em (Uo)	0.77
Emin/Emax (Ud)	0.70
Position	0.00 m

Type No. Make

4	1	ANSELL
		Order No. : ATORPLED5
		Luminaire name : INDUSTRIAL - Tornado Pro LED Non-Corrosive
		Equipment : 1 x LED 29 W / 3209 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



2.2 Summary, Ground Floor

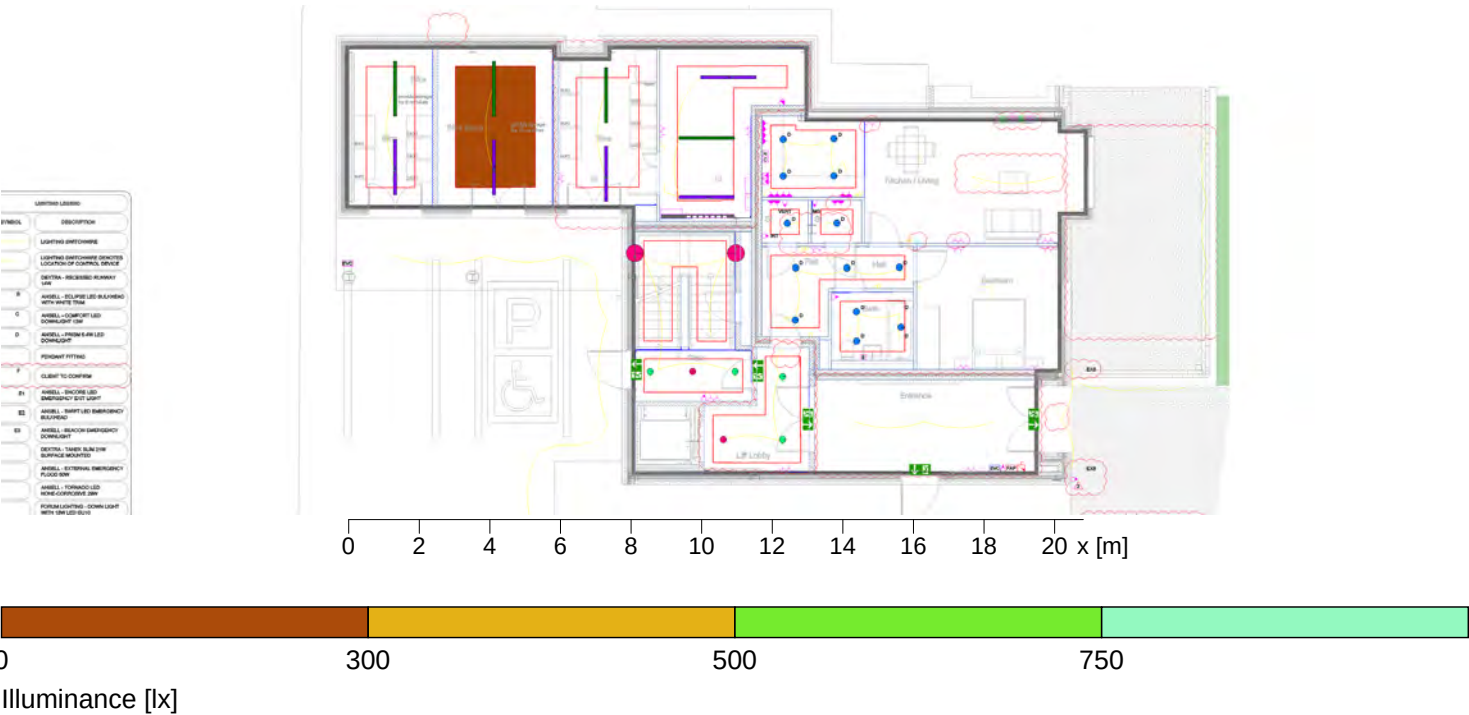
2.2.5 Result overview, Bins

5	1	Order No.	: ATORPLED5/M3
		Luminaire name	: INDUSTRIAL - Tornado Pro LED Non-Corrosive
		with	: 1 x ATORPLED/5
		Equipment	: 1 x 29 W / 3209 lm
		with	: 1 x ATORPLED EM Module
		Equipment	: 1 x LED 3 W / 212 lm (0%)



2.2 Summary, Ground Floor

2.2.6 Result overview, Bins



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	6630.00 lm
Total power	61.0 W
Total power per area (14.41 m²)	4.23 W/m² (2.59 W/m²/100lx)

Bins Reference plane 7.1

	Horizontal
Em	163 lx
Emin	130 lx
Emin/Em (Uo)	0.80
Emin/Emax (Ud)	0.69
Position	0.00 m

Type No. Make

4	1	ANSELL
		Order No. : ATORPLED5
		Luminaire name : INDUSTRIAL - Tornado Pro LED Non-Corrosive
		Equipment : 1 x LED 29 W / 3209 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



2.2 Summary, Ground Floor

2.2.6 Result overview, Bins

5	1	Order No.	: ATORPLED5/M3
		Luminaire name	: INDUSTRIAL - Tornado Pro LED Non-Corrosive
		with	: 1 x ATORPLED/5
		Equipment	: 1 x 29 W / 3209 lm
		with	: 1 x ATORPLED EM Module
		Equipment	: 1 x LED 3 W / 212 lm (0%)



Ansell
LIGHTING

2.2.7 Result overview, Bike/Bins

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



2.2 Summary, Ground Floor

2.2.7 Result overview, Bike/Bins

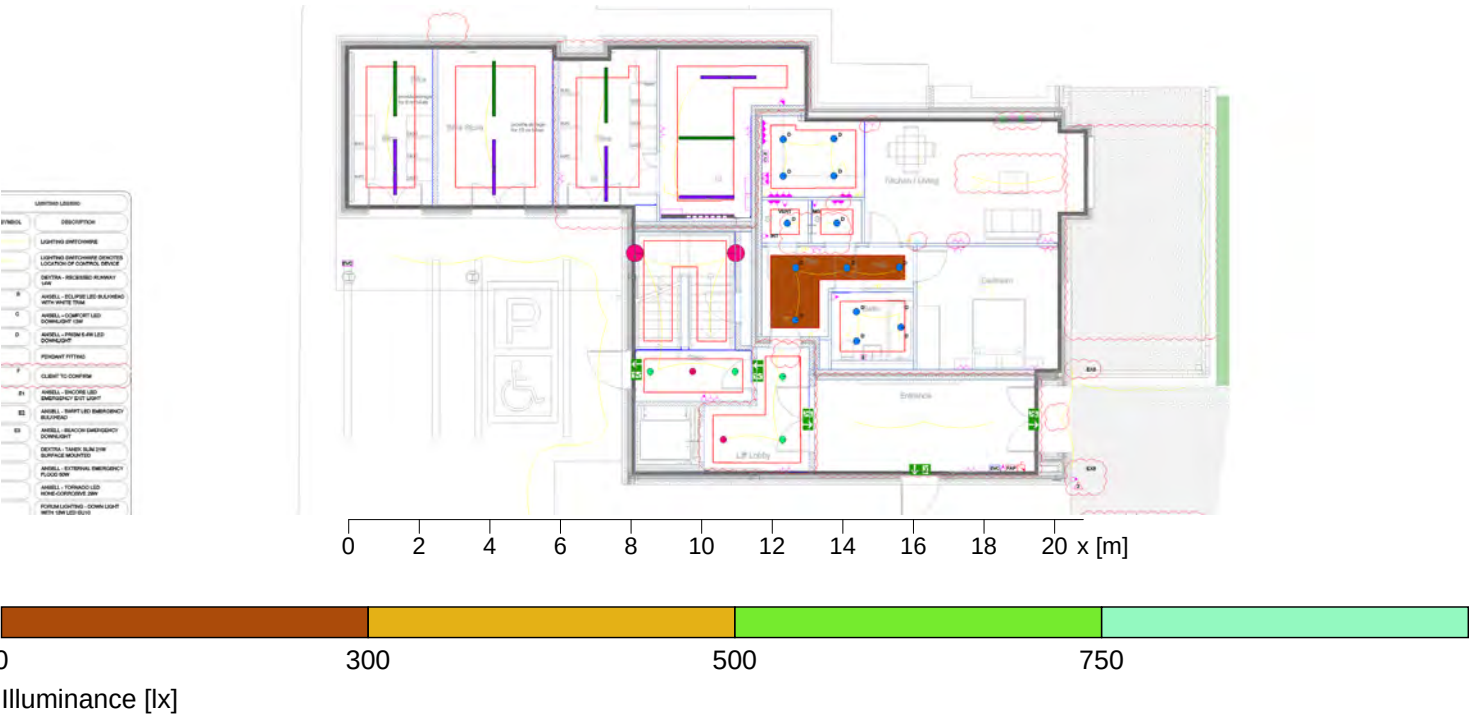
5	1	Order No.	: ATORPLED5/M3
		Luminaire name	: INDUSTRIAL - Tornado Pro LED Non-Corrosive
		with	: 1 x ATORPLED/5
		Equipment	: 1 x 29 W / 3209 lm
		with	: 1 x ATORPLED EM Module
		Equipment	: 1 x LED 3 W / 212 lm (0%)

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



2.2 Summary, Ground Floor

2.2.8 Result overview, Flat Hall



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	2852.00 lm
Total power	29.6 W
Total power per area (7.57 m²)	3.91 W/m² (2.68 W/m²/100lx)

Flat Hall

Reference plane 9.1

Em	Horizontal
Emin	146 lx
Emin/Em (Uo)	105 lx
Emin/Emax (Ud)	0.72
Position	0.60
	0.00 m

Type No. \ Make

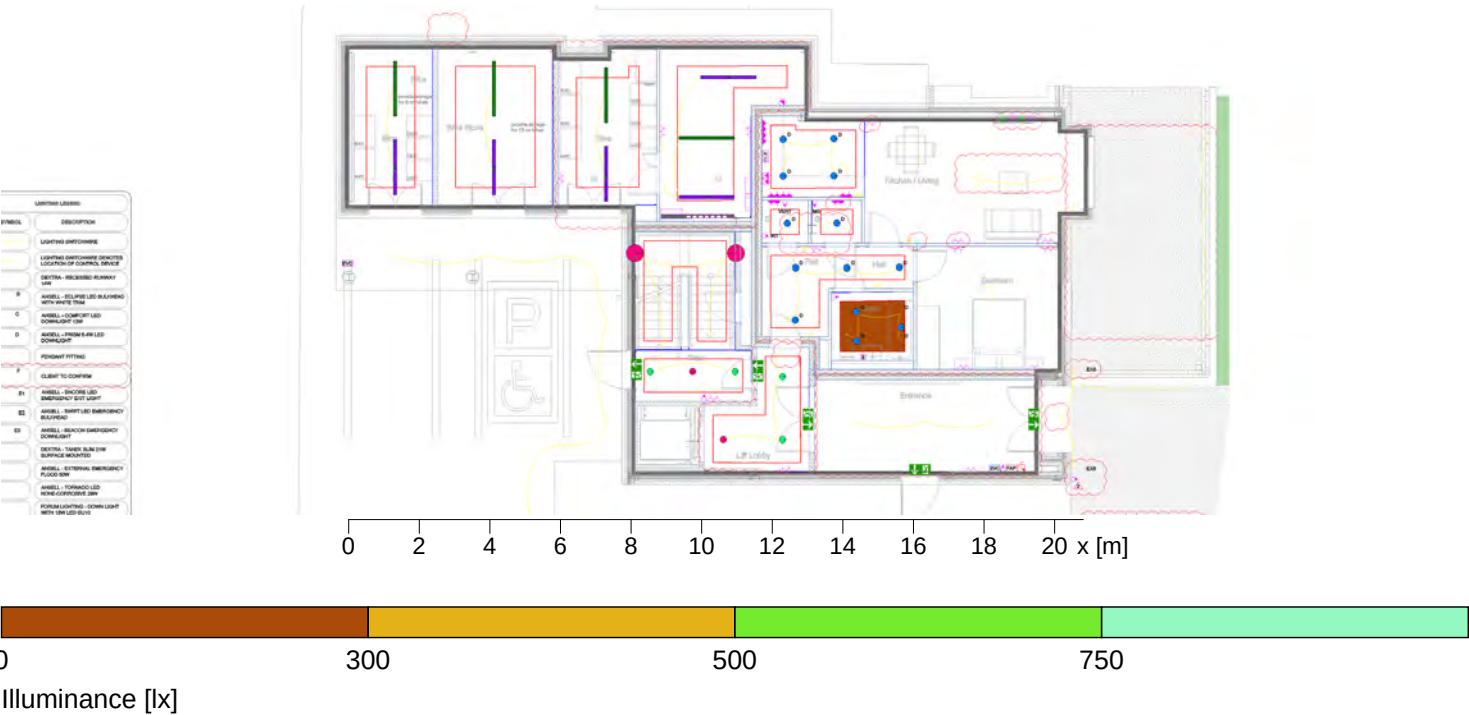
6	4	ANSELL
		Order No. : APRILED/WW
		Luminaire name : DISPLAY - Prism LED Fire Rated Downlight
		Equipment : 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



2.2 Summary, Ground Floor

2.2.9 Result overview, Flat Bath



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	2139.00 lm
Total power	22.2 W
Total power per area (4.48 m²)	4.95 W/m² (2.62 W/m²/100lx)

Flat Bath

	Reference plane 10.1
Em	Horizontal
Emin	189 lx
Emin/Em (Uo)	149 lx
Emin/Emax (Ud)	0.79
Position	0.67
	0.00 m

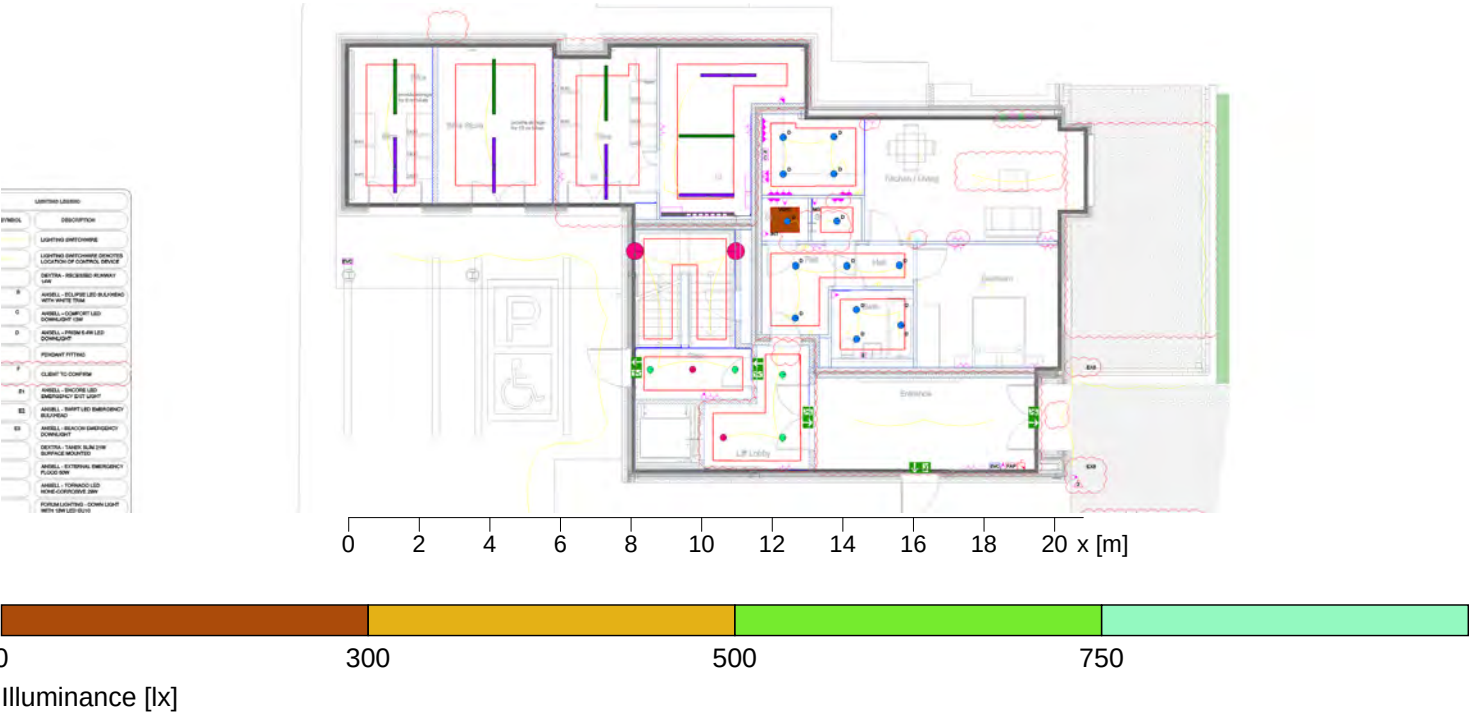
Type No. Make

6	3	ANSELL
		Order No. : APRILED/WW
		Luminaire name : DISPLAY - Prism LED Fire Rated Downlight
		Equipment : 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



2.2 Summary, Ground Floor
2.2.10 Result overview, Flat Store



General	
Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	713.00 lm
Total power	7.4 W
Total power per area (1.59 m²)	4.66 W/m² (4.82 W/m²/100lx)

Flat Store	Reference plane 11.1
	Horizontal
Em	97 lx
Emin	89 lx
Emin/Em (Uo)	0.92
Emin/Emax (Ud)	0.87
Position	0.00 m

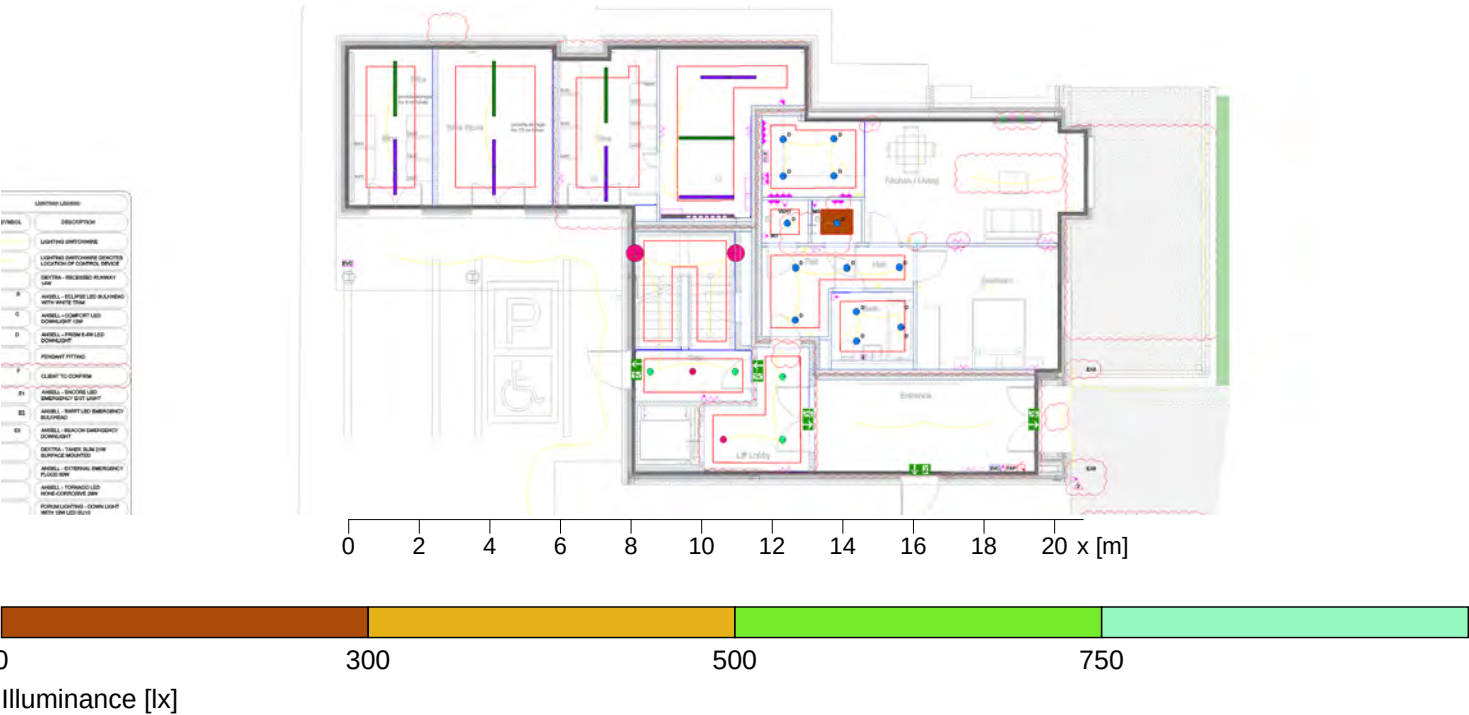
Type No. \ Make

6	1	ANSELL	
		Order No.	: APRILED/WW
		Luminaire name	: DISPLAY - Prism LED Fire Rated Downlight
		Equipment	: 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



2.2 Summary, Ground Floor
2.2.11 Result overview, Flat Store



General	
Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	713.00 lm
Total power	7.4 W
Total power per area (1.70 m²)	4.35 W/m² (4.68 W/m²/100lx)

Flat Store	Reference plane 12.1
	Horizontal
Em	93 lx
Emin	87 lx
Emin/Em (Uo)	0.93
Emin/Emax (Ud)	0.86
Position	0.00 m

Type No. \ Make

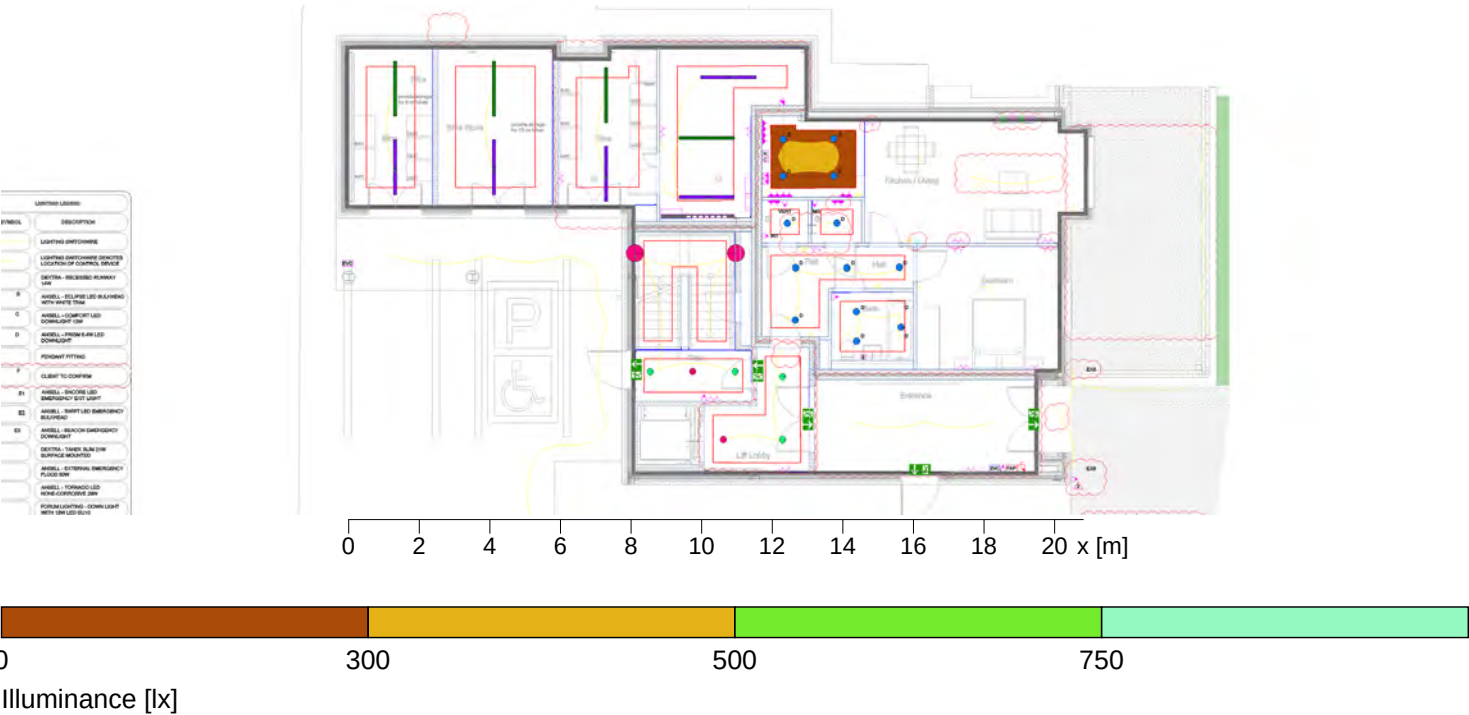
6	1	ANSELL	
		Order No.	: APRILED/WW
		Luminaire name	: DISPLAY - Prism LED Fire Rated Downlight
		Equipment	: 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



2.2 Summary, Ground Floor

2.2.12 Result overview, Flat Kitchen



General
Calculation algorithm used
Maintenance factor
Average indirect fraction
0.80
Total luminous flux of all lamps
2852.00 lm
Total power
29.6 W
Total power per area (6.40 m²)
4.62 W/m² (1.76 W/m²/100lx)

Flat Kitchen
Reference plane 13.1
Horizontal
Em
262 lx
Emin
180 lx
Emin/Em (Uo)
0.69
Emin/Emax (Ud)
0.57
Position
0.75 m

Type No. Make

6 4

ANSELL
Order No. : APRILED/WW
Luminaire name : DISPLAY - Prism LED Fire Rated Downlight
Equipment : 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



2 Ground Floor

2.4 Summary, Ground Floor

2.4.1 Result overview (emergency lighting)

Type No. Make

1		ANSELL	
		Order No.	: AECLED/W/CCT/M3-25W-CW
2		Luminaire name	: AMENITY - Eclipse MultiLED CCT
		Equipment	: 1 x 1 W / 162 lm
5		Order No.	: AENLED/3M/W -- Emergency Lighting --
		Luminaire name	: EMERGENCY - Encore LED Exit Sign
5		Equipment	: 1 x LED 2.6 W / 20 lm
		Order No.	: ATORPLED5/M3
13		Luminaire name	: INDUSTRIAL - Tornado Pro LED Non-Corrosive
		with	: 1 x ATORPLED/5
4		with	: 1 x ATORPLED EM Module
		Equipment	: 1 x LED 3 W / 212 lm
13		Order No.	: !APRILEDP/WW+ACFLP/3
		Luminaire name	: DISPLAY - Prism Pro LED Fire Rated Downlight
4		Equipment	: 1 x LED single 830 6.5 W / 478 lm

Result evaluation area

Calculation algorithm used: Direct component
 Maintenance factor: 0.8

Emergency area:

No.	Default[lx]	Emin[lx]	Surface Emax[lx]	Diversity	Height
Lift Lobby					
1	1.0	7.3	67.9	1: 9.31	0.00

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



2 Ground Floor

2.4 Summary, Ground Floor

2.4.1 Result overview (emergency lighting)

Stairs Landing					
2	1.0	42.2	66.0	1: 1.56	0.00
Stairs					
3	1.0	3.4	36.9	1: 10.90	0.00
Tank Room					
4	0.5	3.9	10.1	1: 2.56	0.00
Bins					
5	0.5	1.0	8.8	1: 8.88	0.00
Bins					
6	0.5	1.1	9.1	1: 8.41	0.00
Bike/Bins					
7	0.5	1.2	9.1	1: 7.29	0.00

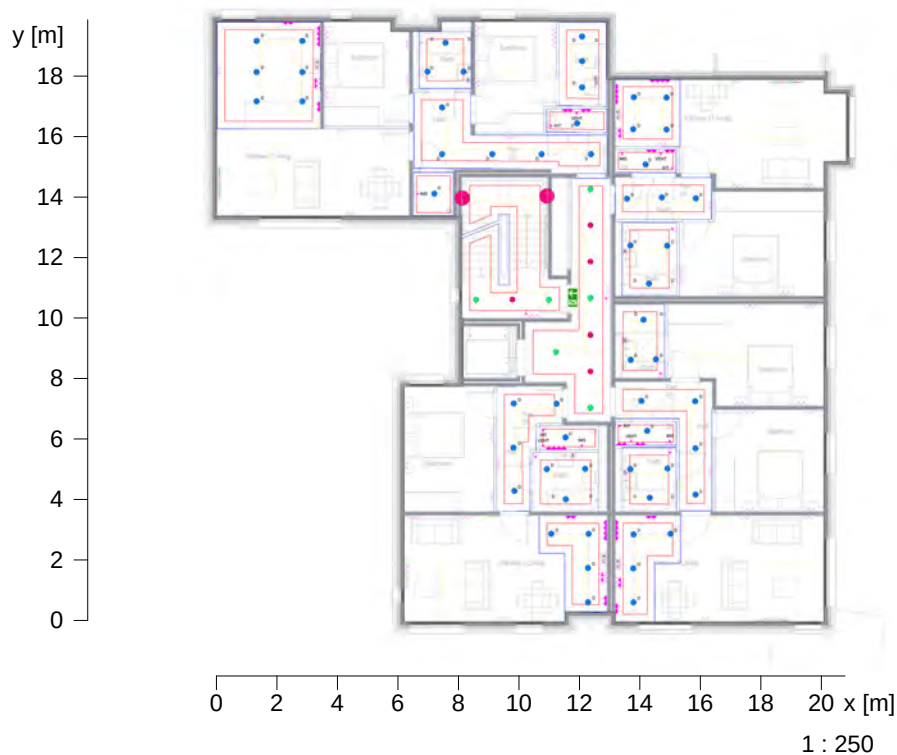
Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



3 First/Second/Third Floor

3.1 Description, First/Second/Third Floor

3.1.1 Floor plan



Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



3 First/Second/Third Floor

3.1 Description, First/Second/Third Floor

3.1.1 Floor plan

Wall	x	y	Length	Reflectance
1	84.20 m	9.22 m	5.30 m	28.4 %
2	84.20 m	9.55 m	0.34 m	28.4 %
3	85.87 m	9.55 m	1.68 m	28.4 %
4	85.87 m	9.22 m	0.34 m	28.4 %
5	92.75 m	9.22 m	6.87 m	28.4 %
6	92.75 m	24.42 m	15.20 m	28.4 %
7	93.49 m	24.42 m	0.75 m	28.4 %
8	93.49 m	26.65 m	2.23 m	28.4 %
9	92.75 m	26.65 m	0.75 m	28.4 %
10	92.75 m	27.11 m	0.47 m	28.4 %
11	85.58 m	27.11 m	7.17 m	28.4 %
12	85.58 m	29.03 m	1.91 m	28.4 %
13	80.14 m	29.03 m	5.44 m	28.4 %
14	80.14 m	28.70 m	0.33 m	28.4 %
15	78.46 m	28.70 m	1.68 m	28.4 %
16	78.46 m	29.03 m	0.33 m	28.4 %
17	72.71 m	29.03 m	5.75 m	28.4 %
18	72.71 m	22.60 m	6.42 m	28.4 %
19	80.52 m	22.60 m	7.81 m	28.4 %
20	80.81 m	22.61 m	0.29 m	28.4 %
21	80.81 m	19.23 m	3.37 m	28.4 %
22	80.85 m	19.23 m	0.04 m	28.4 %
23	80.85 m	16.99 m	2.25 m	28.4 %
24	78.90 m	16.99 m	1.95 m	28.4 %
25	78.90 m	9.22 m	7.77 m	28.4 %
Floor				21.1 %
Ceiling				33.2 %
Room height		2.75 m		
Height of ref. plane		0.00 m		

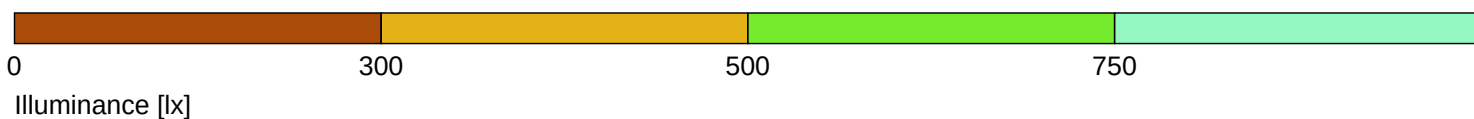
Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



3 First/Second/Third Floor

3.2 Summary, First/Second/Third Floor

3.2.1 Result overview, Stairs



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (12.91 m²)

9288.00 lm
 69.5 W
 5.38 W/m² (5.97 W/m²/100lx)

Stairs

Reference plane 1.1

Horizontal

Em 90 lx
 Emin 53 lx
 Emin/Em (Uo) 0.59
 Emin/Emax (Ud) 0.44
 Position 0.00 m

Type No. \ Make

1	2	ANSELL	
		Order No.	: AECLED/W/CCT/M3-25W-CW
		Luminaire name	: AMENITY - Eclipse MultiLED CCT
		Equipment	: 1 x LED single 840 25 W / 3846 lm
12	1	Order No.	: APRILED/WW
		Luminaire name	: DISPLAY - Prism Pro LED Fire Rated Downlight
		Equipment	: 1 x LED single 830 6.5 W / 532 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



3 First/Second/Third Floor

3.2 Summary, First/Second/Third Floor

3.2.1 Result overview, Stairs

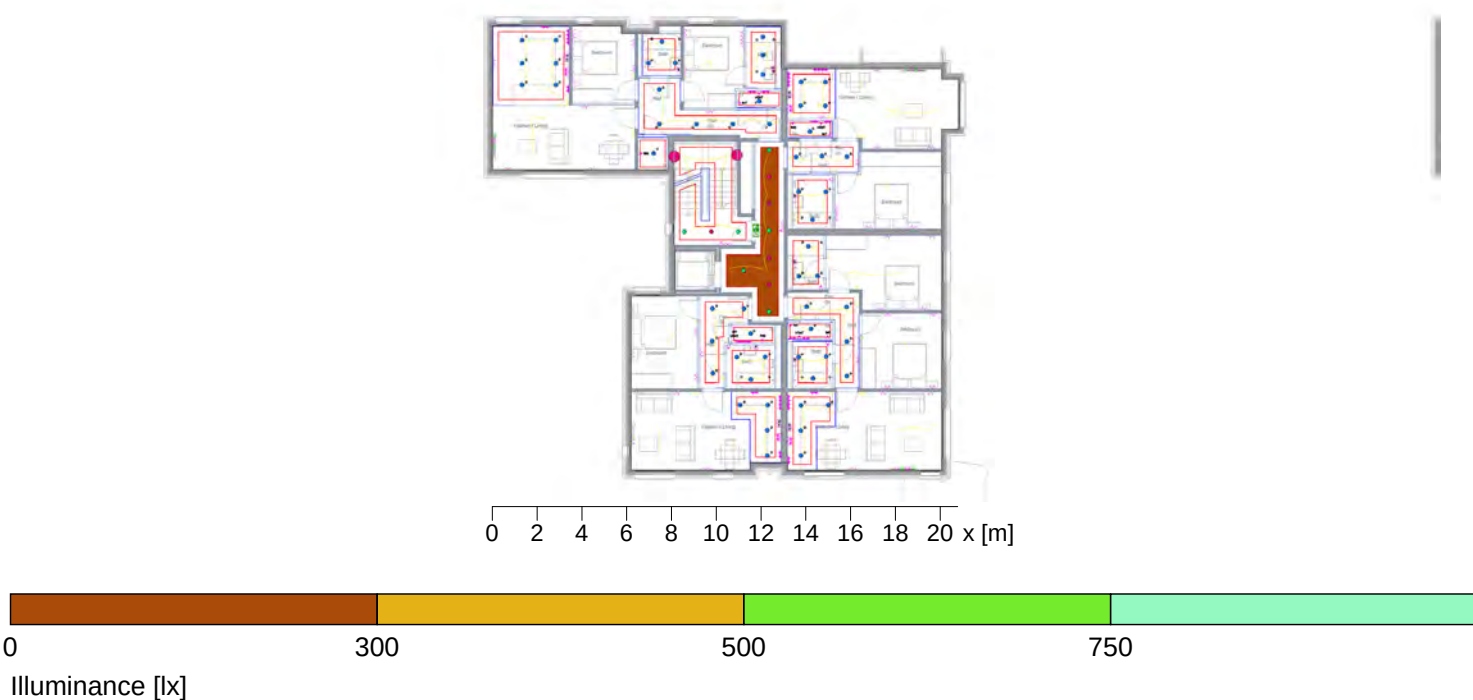
13	2	Order No.	: !APRILEDP/WW+ACFLP/3
		Luminaire name	: DISPLAY - Prism Pro LED Fire Rated Downlight
		Equipment	: 1 x LED single 830 6.5 W / 532 lm

Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



3.2 Summary, First/Second/Third Floor

3.2.2 Result overview, Corridor



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (13.36 m²)

4276.00 lm
 54.6 W
 4.09 W/m² (3.51 W/m²/100lx)

Corridor

Reference plane 2.1

Horizontal

Em 117 lx
 Emin 61 lx
 Emin/Em (Uo) 0.52
 Emin/Emax (Ud) 0.42
 Position 0.00 m

Type No. Make

2 1
 **ANSELL**
 Order No. : AENLED/3M/W -- Emergency Lighting --
 Luminaire name : EMERGENCY - Encore LED Exit Sign
 Equipment : 1 x LED 2.6 W / 20 lm (0%)

12 4
 **ANSELL**
 Order No. : APRILED/WW
 Luminaire name : DISPLAY - Prism Pro LED Fire Rated Downlight
 Equipment : 1 x LED single 830 6.5 W / 532 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



3.2 Summary, First/Second/Third Floor

3.2.2 Result overview, Corridor

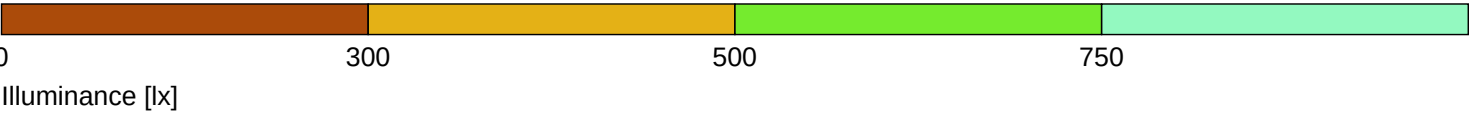
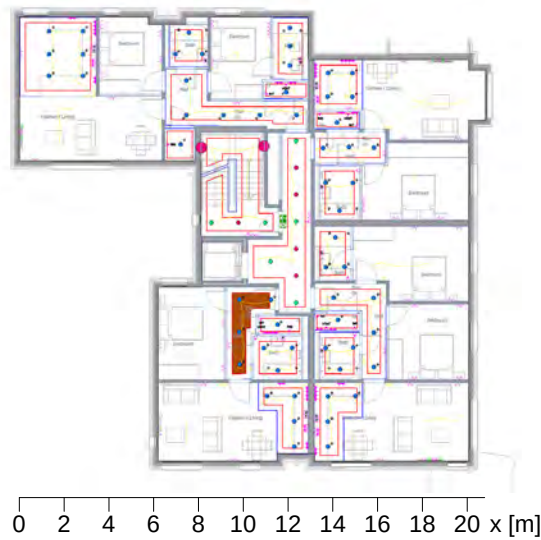
13	4	Order No.	: !APRILEDP/WW+ACFLP/3
		Luminaire name	: DISPLAY - Prism Pro LED Fire Rated Downlight
		Equipment	: 1 x LED single 830 6.5 W / 532 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



3.2 Summary, First/Second/Third Floor

3.2.3 Result overview, Flat Hall



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	2852.00 lm
Total power	29.6 W
Total power per area (5.98 m²)	4.95 W/m² (3.45 W/m²/100lx)

Flat Hall

Reference plane 3.1

	Horizontal
Em	143 lx
Emin	99 lx
Emin/Em (Uo)	0.69
Emin/Emax (Ud)	0.60
Position	0.00 m

Type No. Make

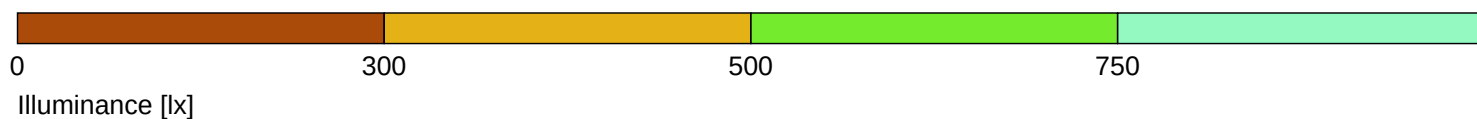
6	4	ANSELL	
		Order No.	: APRILED/WW
		Luminaire name	: DISPLAY - Prism LED Fire Rated Downlight
		Equipment	: 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



3.2 Summary, First/Second/Third Floor

3.2.4 Result overview, Flat Store



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (1.51 m²)

713.00 lm
 7.4 W
 4.89 W/m² (6.77 W/m²/100lx)

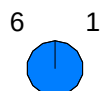
Flat Store

Reference plane 4.1

Horizontal

Em 72 lx
 Emin 54 lx
 Emin/Em (U₀) 0.75
 Emin/Emax (U_d) 0.65
 Position 0.00 m

Type No. Make



ANSELL

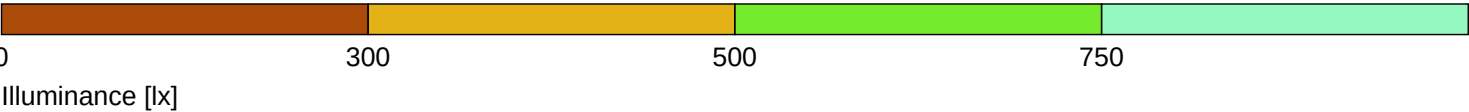
Order No. : APRILED/WW
 Luminaire name : DISPLAY - Prism LED Fire Rated Downlight
 Equipment : 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



3.2 Summary, First/Second/Third Floor

3.2.5 Result overview, Flat Bath



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	2139.00 lm
Total power	22.2 W
Total power per area (4.21 m²)	5.27 W/m² (3.14 W/m²/100lx)

Flat Bath

	Reference plane 5.1
	Horizontal
Em	168 lx
Emin	136 lx
Emin/Em (Uo)	0.81
Emin/Emax (Ud)	0.72
Position	0.00 m

Type No. Make

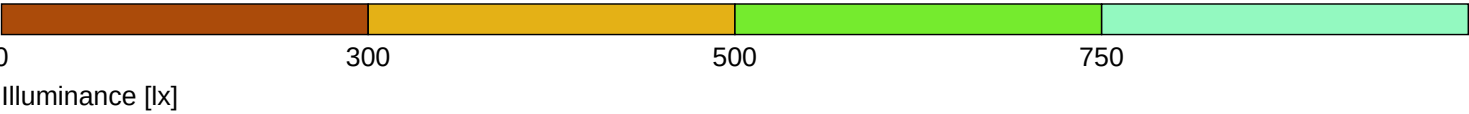
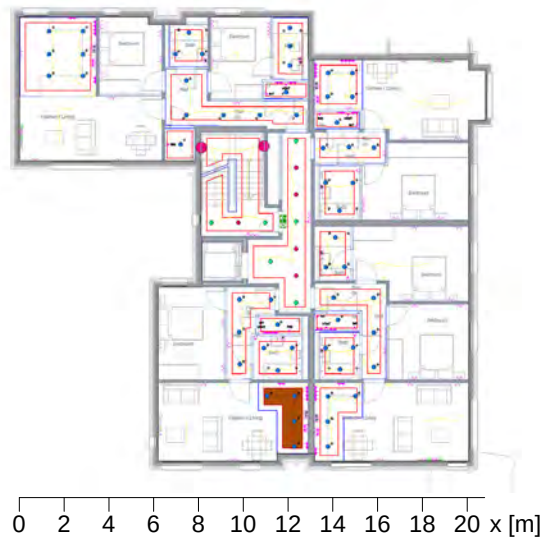
6	3	ANSELL	
	Order No.	: APRILED/WW	
	Luminaire name	: DISPLAY - Prism LED Fire Rated Downlight	
	Equipment	: 1 x LED single 830 7.4 W / 713 lm	

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



3.2 Summary, First/Second/Third Floor

3.2.6 Result overview, Flat Kitchen



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	2852.00 lm
Total power	29.6 W
Total power per area (5.44 m²)	5.44 W/m² (2.35 W/m²/100lx)

Flat Kitchen

Reference plane 6.1

	Horizontal
Em	232 lx
Emin	193 lx
Emin/Em (Uo)	0.84
Emin/Emax (Ud)	0.73
Position	0.75 m

Type No.lMake

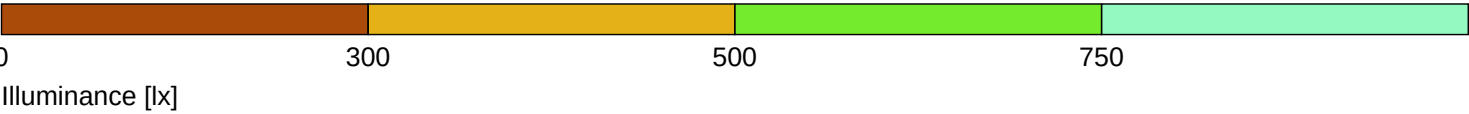
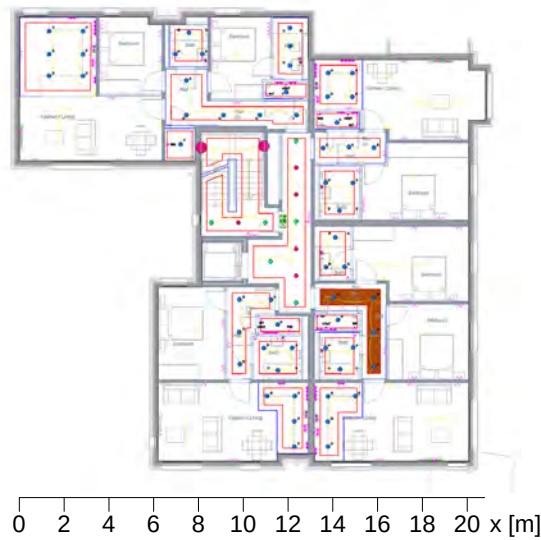
6	4	ANSSELL	
	Order No.	: APRILED/WW	
	Luminaire name	: DISPLAY - Prism LED Fire Rated Downlight	
	Equipment	: 1 x LED single 830 7.4 W / 713 lm	

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



3.2 Summary, First/Second/Third Floor

3.2.7 Result overview, Flat Hall



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	2852.00 lm
Total power	29.6 W
Total power per area (7.15 m²)	4.14 W/m² (3.42 W/m²/100lx)

Flat Hall

Reference plane 7.1

	Horizontal
Em	121 lx
Emin	79 lx
Emin/Em (Uo)	0.66
Emin/Emax (Ud)	0.55
Position	0.00 m

Type No.lMake



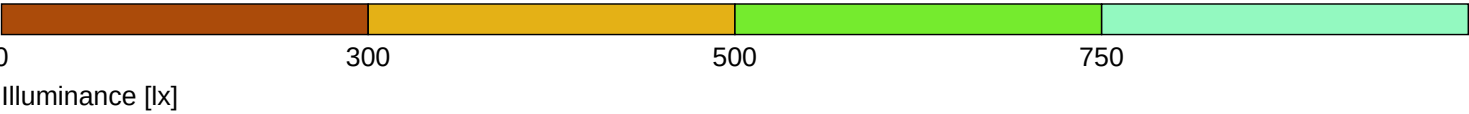
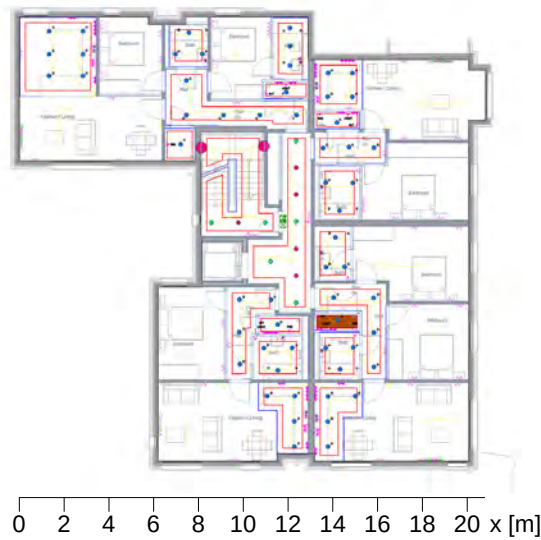
ANSELL	
Order No.	: APRILED/WW
Luminaire name	: DISPLAY - Prism LED Fire Rated Downlight
Equipment	: 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



3.2 Summary, First/Second/Third Floor

3.2.8 Result overview, Flat Store



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	713.00 lm
Total power	7.4 W
Total power per area (1.56 m²)	4.76 W/m² (6.80 W/m²/100lx)

Flat Store

Reference plane 8.1

	Horizontal
Em	70 lx
Emin	52 lx
Emin/Em (Uo)	0.74
Emin/Emax (Ud)	0.63
Position	0.00 m

Type No. Make



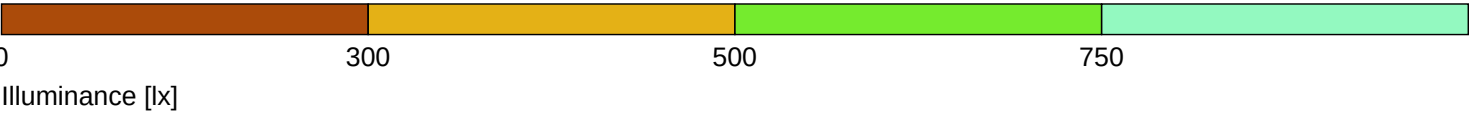
ANSELL	
Order No.	: APRILED/WW
Luminaire name	: DISPLAY - Prism LED Fire Rated Downlight
Equipment	: 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



3.2 Summary, First/Second/Third Floor

3.2.9 Result overview, Flat Bath



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	2139.00 lm
Total power	22.2 W
Total power per area (3.78 m²)	5.87 W/m² (3.38 W/m²/100lx)

Flat Bath

	Reference plane 9.1
	Horizontal
Em	174 lx
Emin	147 lx
Emin/Em (Uo)	0.84
Emin/Emax (Ud)	0.75
Position	0.00 m

Type No. Make

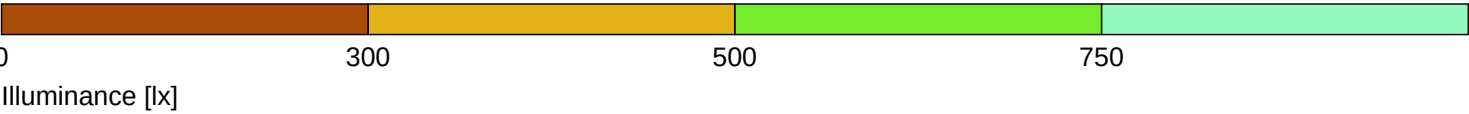


ANSELL	
Order No.	: APRILED/WW
Luminaire name	: DISPLAY - Prism LED Fire Rated Downlight
Equipment	: 1 x LED single 830 7.4 W / 713 lm



3.2 Summary, First/Second/Third Floor

3.2.10 Result overview, Flat Kitchen



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	2852.00 lm
Total power	29.6 W
Total power per area (5.90 m²)	5.02 W/m² (2.24 W/m²/100lx)

Flat Kitchen

Reference plane 10.1

	Horizontal
Em	224 lx
Emin	167 lx
Emin/Em (Uo)	0.75
Emin/Emax (Ud)	0.64
Position	0.75 m

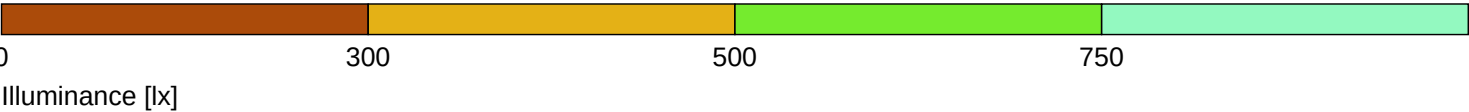
Type No. Make

6	4	ANSELL	
	Order No.	: APRILED/WW	
	Luminaire name	: DISPLAY - Prism LED Fire Rated Downlight	
	Equipment	: 1 x LED single 830 7.4 W / 713 lm	



3.2 Summary, First/Second/Third Floor

3.2.11 Result overview, Flat Bath



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	2139.00 lm
Total power	22.2 W
Total power per area (3.89 m²)	5.71 W/m² (3.35 W/m²/100lx)

Flat Bath

	Reference plane 11.1
	Horizontal
Em	170 lx
Emin	130 lx
Emin/Em (Uo)	0.76
Emin/Emax (Ud)	0.67
Position	0.00 m

Type No. Make

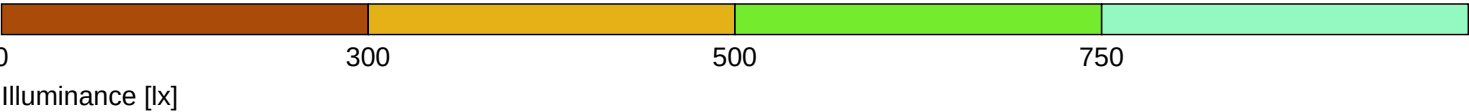
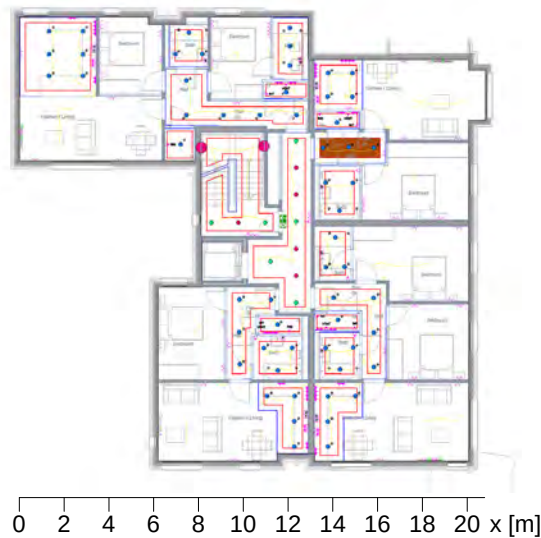


ANSELL	
Order No.	: APRILED/WW
Luminaire name	: DISPLAY - Prism LED Fire Rated Downlight
Equipment	: 1 x LED single 830 7.4 W / 713 lm



3.2 Summary, First/Second/Third Floor

3.2.12 Result overview, Flat Hall



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	2139.00 lm
Total power	22.2 W
Total power per area (4.41 m²)	5.04 W/m² (3.39 W/m²/100lx)

Flat Hall

Reference plane 12.1

	Horizontal
Em	148 lx
Emin	116 lx
Emin/Em (Uo)	0.78
Emin/Emax (Ud)	0.68
Position	0.00 m

Type No. Make



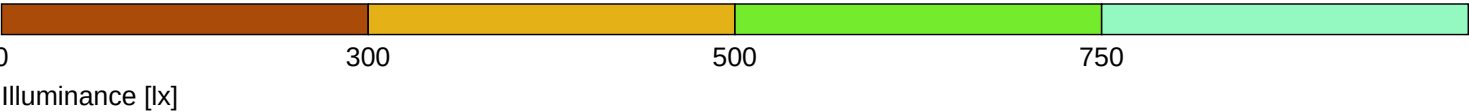
ANSELL	
Order No.	: APRILED/WW
Luminaire name	: DISPLAY - Prism LED Fire Rated Downlight
Equipment	: 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



3.2 Summary, First/Second/Third Floor

3.2.13 Result overview, Flat Bath



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	2139.00 lm
Total power	22.2 W
Total power per area (4.34 m²)	5.12 W/m² (3.21 W/m²/100lx)

Flat Bath

Reference plane 13.1

	Horizontal
Em	160 lx
Emin	133 lx
Emin/Em (Uo)	0.83
Emin/Emax (Ud)	0.74
Position	0.00 m

Type No. Make



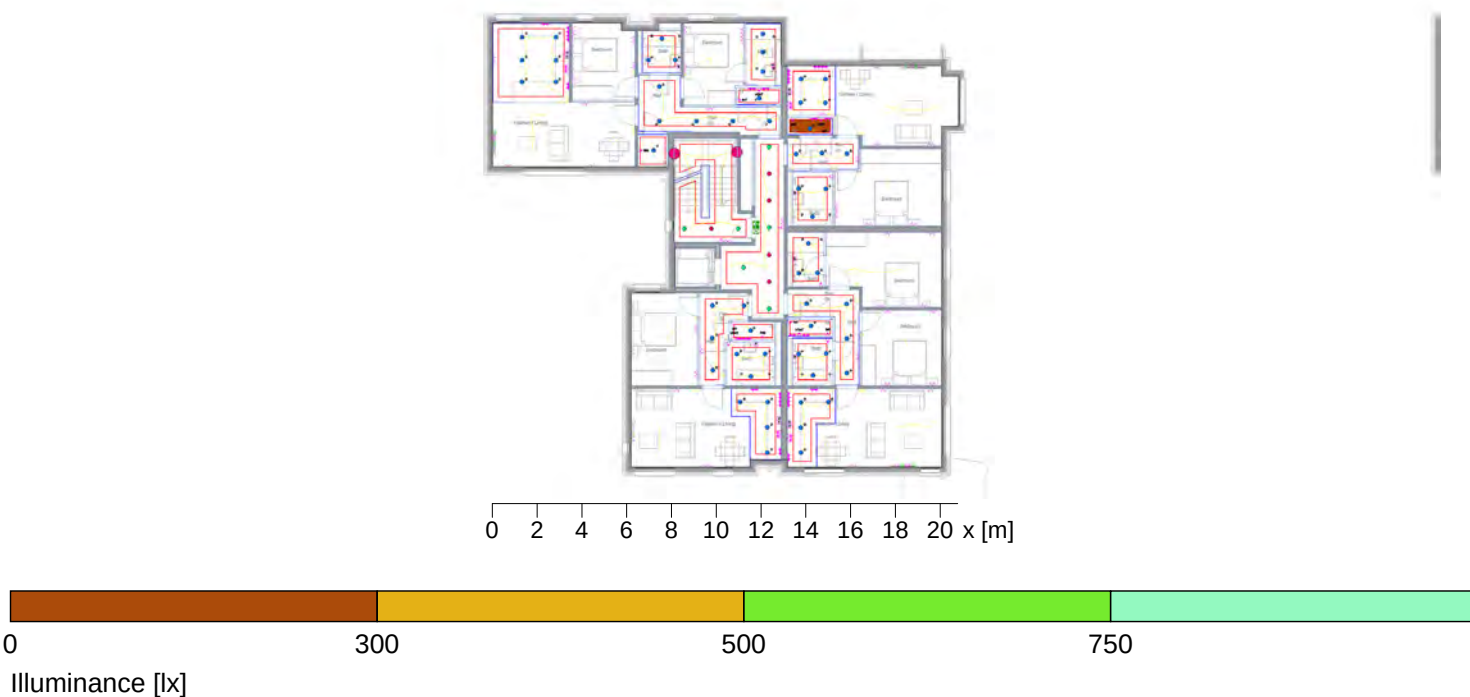
ANSELL	
Order No.	: APRILED/WW
Luminaire name	: DISPLAY - Prism LED Fire Rated Downlight
Equipment	: 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



3.2 Summary, First/Second/Third Floor

3.2.14 Result overview, Flat Store



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.80

Total luminous flux of all lamps

713.00 lm

Total power

7.4 W

Total power per area (1.54 m²)

4.81 W/m² (6.65 W/m²/100lx)

Flat Store

Reference plane 14.1

Horizontal

Em 72 lx

Emin 59 lx

Emin/Em (Uo) 0.82

Emin/Emax (Ud) 0.70

Position 0.00 m

Type No. Make

6 1



ANSELL

Order No. : APRILED/WW

Luminaire name : DISPLAY - Prism LED Fire Rated Downlight

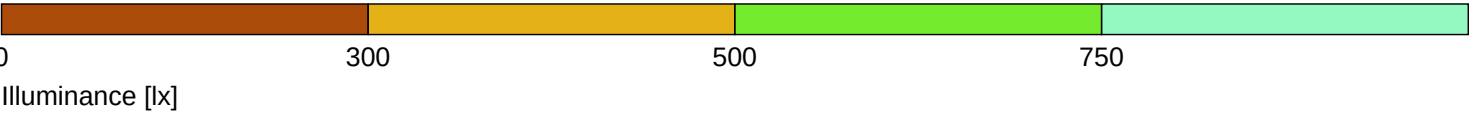
Equipment : 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



3.2 Summary, First/Second/Third Floor

3.2.15 Result overview, Flat Kitchen



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	2852.00 lm
Total power	29.6 W
Total power per area (4.75 m²)	6.23 W/m² (2.19 W/m²/100lx)

Flat Kitchen

Reference plane 15.1

	Horizontal
Em	285 lx
Emin	212 lx
Emin/Em (Uo)	0.74
Emin/Emax (Ud)	0.63
Position	0.75 m

Type No. Make

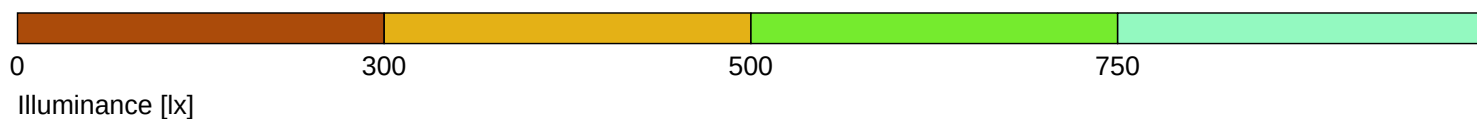
6	4	ANSELL	
	Order No.	: APRILED/WW	
	Luminaire name	: DISPLAY - Prism LED Fire Rated Downlight	
	Equipment	: 1 x LED single 830 7.4 W / 713 lm	

Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



3.2 Summary, First/Second/Third Floor

3.2.16 Result overview, Flat Hall



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (10.03 m²)

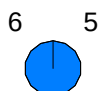
3565.00 lm
 37.0 W
 3.69 W/m² (2.96 W/m²/100lx)

Flat Hall

Reference plane 16.1

Horizontal
 Em 125 lx
 Emin 88 lx
 Emin/Em (Uo) 0.71
 Emin/Emax (Ud) 0.60
 Position 0.00 m

Type No. Make



ANSELL

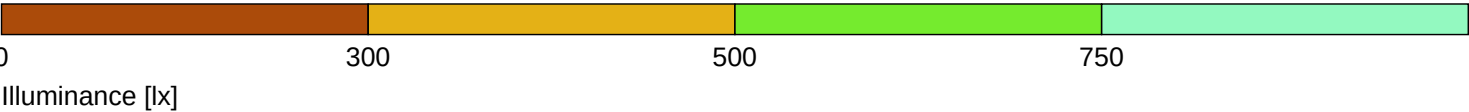
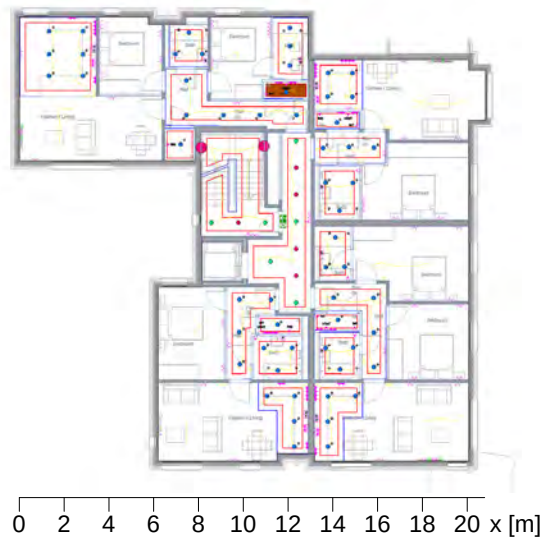
Order No. : APRILED/WW
 Luminaire name : DISPLAY - Prism LED Fire Rated Downlight
 Equipment : 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



3.2 Summary, First/Second/Third Floor

3.2.17 Result overview, Flat Store



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	713.00 lm
Total power	7.4 W
Total power per area (1.54 m²)	4.81 W/m² (6.89 W/m²/100lx)

Flat Store

Reference plane 17.1

	Horizontal
Em	70 lx
Emin	56 lx
Emin/Em (Uo)	0.81
Emin/Emax (Ud)	0.68
Position	0.00 m

Type No. Make



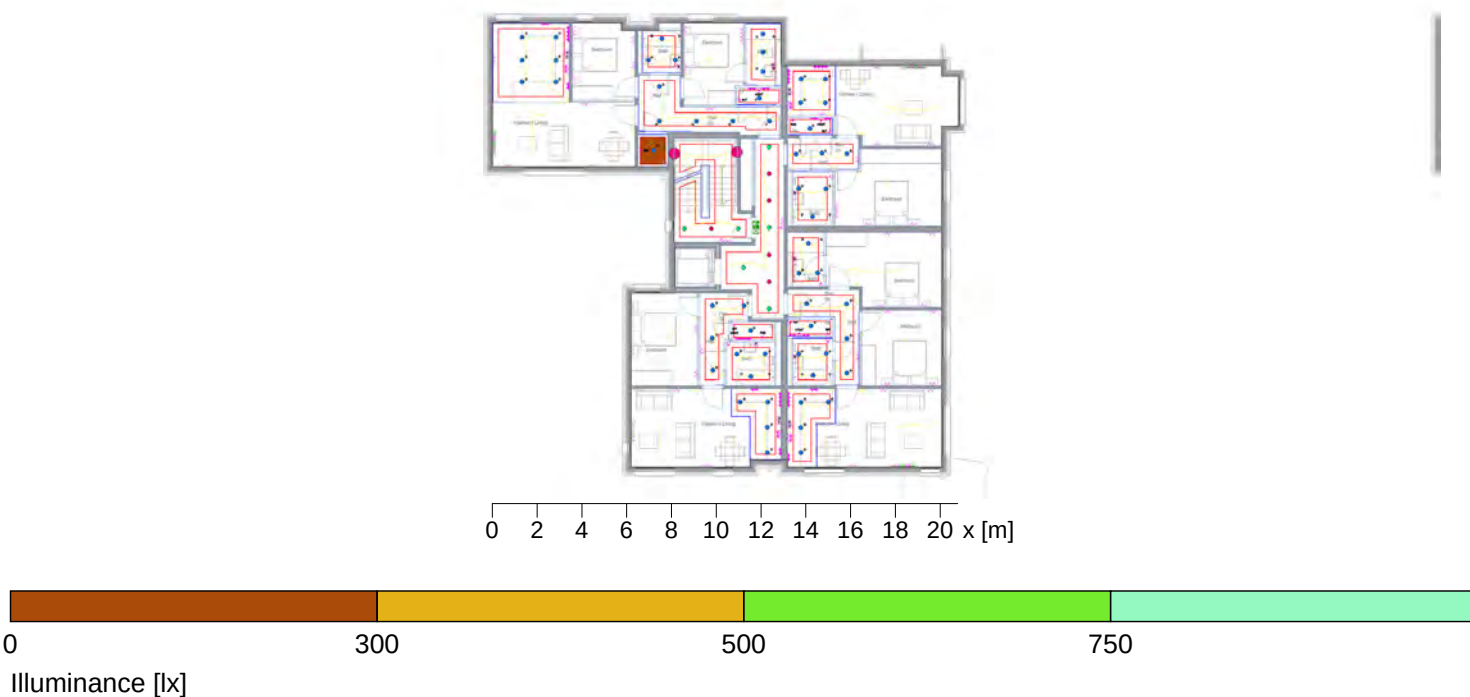
ANSELL	
Order No.	: APRILED/WW
Luminaire name	: DISPLAY - Prism LED Fire Rated Downlight
Equipment	: 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



3.2 Summary, First/Second/Third Floor

3.2.18 Result overview, Flat Store



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.80

Total luminous flux of all lamps

713.00 lm

Total power

7.4 W

Total power per area (1.88 m²)

3.94 W/m² (5.33 W/m²/100lx)

Flat Store

Reference plane 18.1

Horizontal

Em 74 lx

Emin 64 lx

Emin/Em (Uo) 0.86

Emin/Emax (Ud) 0.76

Position 0.00 m

Type No. Make

6 1



ANSELL

Order No. : APRILED/WW

Luminaire name : DISPLAY - Prism LED Fire Rated Downlight

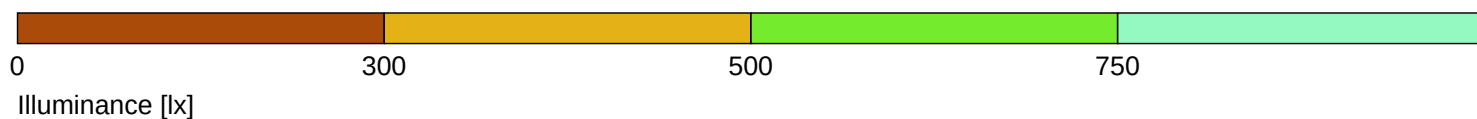
Equipment : 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



3.2 Summary, First/Second/Third Floor

3.2.19 Result overview, Flat Bath



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (4.32 m²)

2139.00 lm
 22.2 W
 5.14 W/m² (3.04 W/m²/100lx)

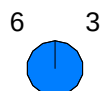
Flat Bath

Reference plane 19.1

Horizontal

Em 169 lx
 Emin 127 lx
 Emin/Em (Uo) 0.75
 Emin/Emax (Ud) 0.64
 Position 0.00 m

Type No. \ Make



ANSELL

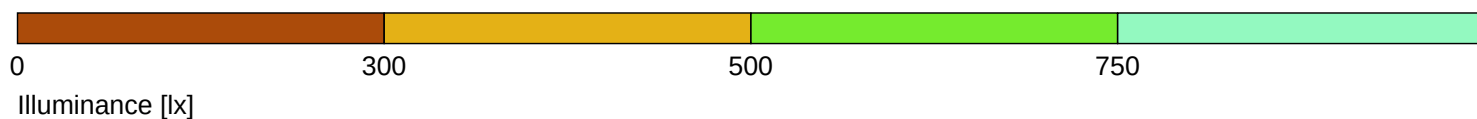
Order No. : APRILED/WW
 Luminaire name : DISPLAY - Prism LED Fire Rated Downlight
 Equipment : 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



3.2 Summary, First/Second/Third Floor

3.2.20 Result overview, Flat Bath



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (3.22 m²)

2139.00 lm
 22.2 W
 6.89 W/m² (3.81 W/m²/100lx)

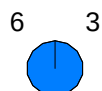
Flat Bath

Reference plane 20.1

Horizontal

Em 181 lx
 Emin 158 lx
 Emin/Em (Uo) 0.88
 Emin/Emax (Ud) 0.80
 Position 0.00 m

Type No. Make



ANSELL

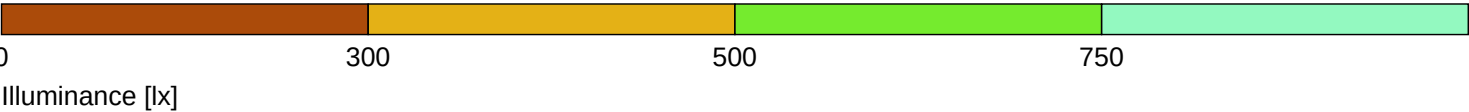
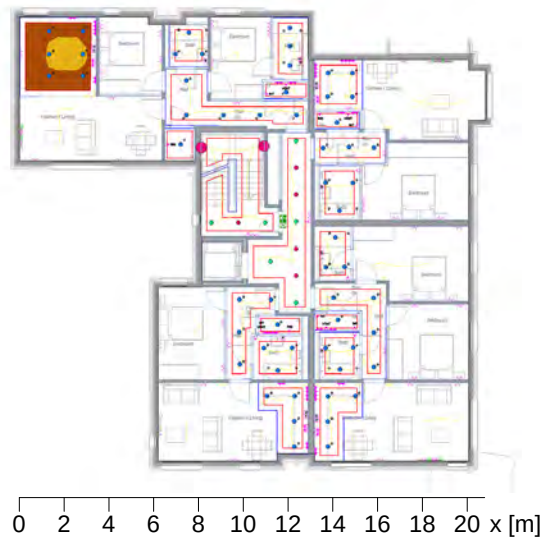
Order No. : APRILED/WW
 Luminaire name : DISPLAY - Prism LED Fire Rated Downlight
 Equipment : 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



3.2 Summary, First/Second/Third Floor

3.2.21 Result overview, Flat Kitchen



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	4278.00 lm
Total power	44.4 W
Total power per area (12.04 m²)	3.69 W/m² (1.57 W/m²/100lx)

Flat Kitchen

Reference plane 21.1

	Horizontal
Em	235 lx
Emin	86 lx
Emin/Em (Uo)	0.37
Emin/Emax (Ud)	0.27
Position	0.75 m

Type No.lMake

6	6	ANSELL	
	Order No.	: APRILED/WW	
	Luminaire name	: DISPLAY - Prism LED Fire Rated Downlight	
	Equipment	: 1 x LED single 830 7.4 W / 713 lm	

Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



3 First/Second/Third Floor

3.4 Summary, First/Second/Third Floor

3.4.1 Result overview (emergency lighting)

Type No. Make

1		ANSELL	
		Order No.	: AECLED/W/CCT/M3-25W-CW
2		Luminaire name	: AMENITY - Eclipse MultiLED CCT
		Equipment	: 1 x 1 W / 162 lm
2		Order No.	: AENLED/3M/W -- Emergency Lighting --
1		Luminaire name	: EMERGENCY - Encore LED Exit Sign
		Equipment	: 1 x LED 2.6 W / 20 lm
13		Order No.	: !APRILEDP/WW+ACFLP/3
6		Luminaire name	: DISPLAY - Prism Pro LED Fire Rated Downlight
		Equipment	: 1 x LED single 830 6.5 W / 478 lm

Result evaluation area

Calculation algorithm used: Direct component
 Maintenance factor: 0.8

Emergency area:

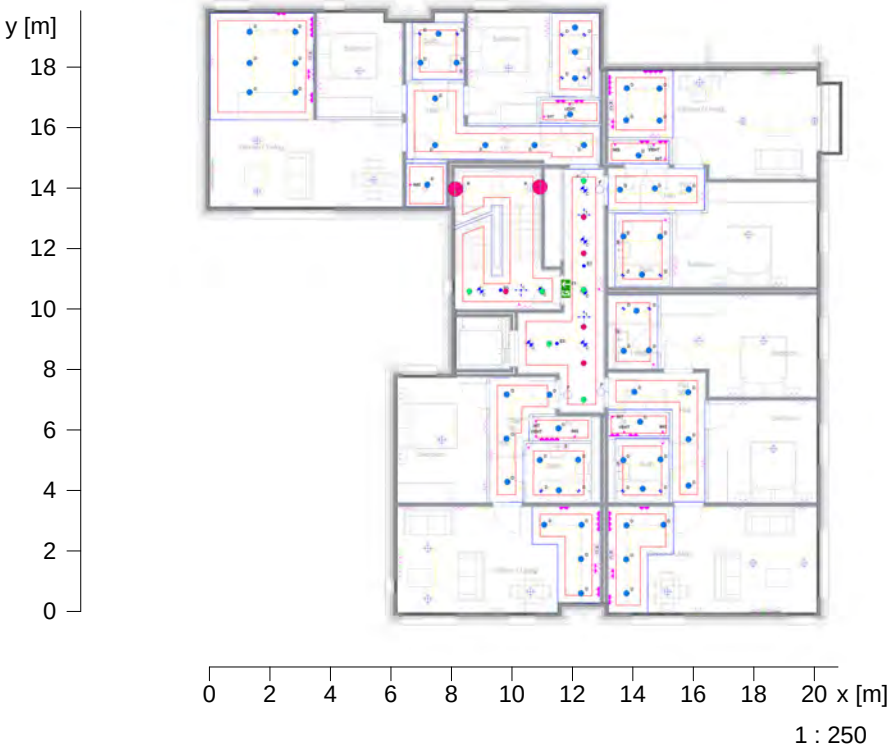
No.	Default[lx]	Emin[lx]	Surface Emax[lx]	Diversity	Height
Stairs					
1	1.0	2.7	46.2	1: 16.81	0.00
Corridor					
2	1.0	23.3	61.7	1: 2.65	0.00



4 Second Floor

4.1 Description, Second Floor

4.1.1 Floor plan



Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



4 Second Floor

4.1 Description, Second Floor

4.1.1 Floor plan

Wall	x	y	Length	Reflectance
1	84.20 m	9.22 m	5.30 m	28.4 %
2	84.20 m	9.55 m	0.34 m	28.4 %
3	85.87 m	9.55 m	1.68 m	28.4 %
4	85.87 m	9.22 m	0.34 m	28.4 %
5	92.75 m	9.22 m	6.87 m	28.4 %
6	92.75 m	24.42 m	15.20 m	28.4 %
7	93.49 m	24.42 m	0.75 m	28.4 %
8	93.49 m	26.65 m	2.23 m	28.4 %
9	92.75 m	26.65 m	0.75 m	28.4 %
10	92.75 m	27.11 m	0.47 m	28.4 %
11	85.58 m	27.11 m	7.17 m	28.4 %
12	85.58 m	29.03 m	1.91 m	28.4 %
13	80.14 m	29.03 m	5.44 m	28.4 %
14	80.14 m	28.70 m	0.33 m	28.4 %
15	78.46 m	28.70 m	1.68 m	28.4 %
16	78.46 m	29.03 m	0.33 m	28.4 %
17	72.71 m	29.03 m	5.75 m	28.4 %
18	72.71 m	22.60 m	6.42 m	28.4 %
19	80.52 m	22.60 m	7.81 m	28.4 %
20	80.81 m	22.61 m	0.29 m	28.4 %
21	80.81 m	19.23 m	3.37 m	28.4 %
22	80.85 m	19.23 m	0.04 m	28.4 %
23	80.85 m	16.99 m	2.25 m	28.4 %
24	78.90 m	16.99 m	1.95 m	28.4 %
25	78.90 m	9.22 m	7.77 m	28.4 %
Floor				21.1 %
Ceiling				33.2 %
Room height		2.75 m		
Height of ref. plane		0.00 m		

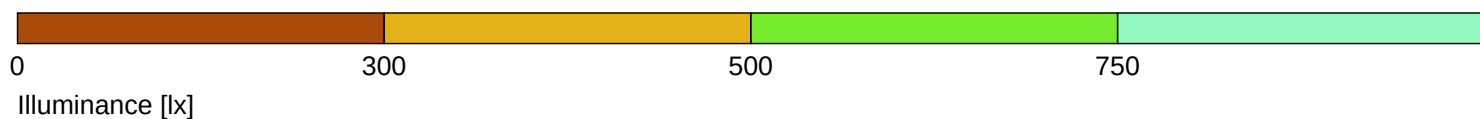
Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



4 Second Floor

4.2 Summary, Second Floor

4.2.1 Result overview, Stairs



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (12.91 m²)

9288.00 lm
 69.5 W
 5.38 W/m² (5.99 W/m²/100lx)

Stairs

Reference plane 1.1

Horizontal

Em 90 lx
 Emin 53 lx
 Emin/Em (Uo) 0.59
 Emin/Emax (Ud) 0.44
 Position 0.00 m

Type No. \ Make

1	2	ANSELL	
		Order No.	: AECLED/W/CCT/M3-25W-CW
		Luminaire name	: AMENITY - Eclipse MultiLED CCT
		Equipment	: 1 x LED single 840 25 W / 3846 lm
12	1	Order No.	: APRILEDP/WW
		Luminaire name	: DISPLAY - Prism Pro LED Fire Rated Downlight
		Equipment	: 1 x LED single 830 6.5 W / 532 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



4 Second Floor

4.2 Summary, Second Floor

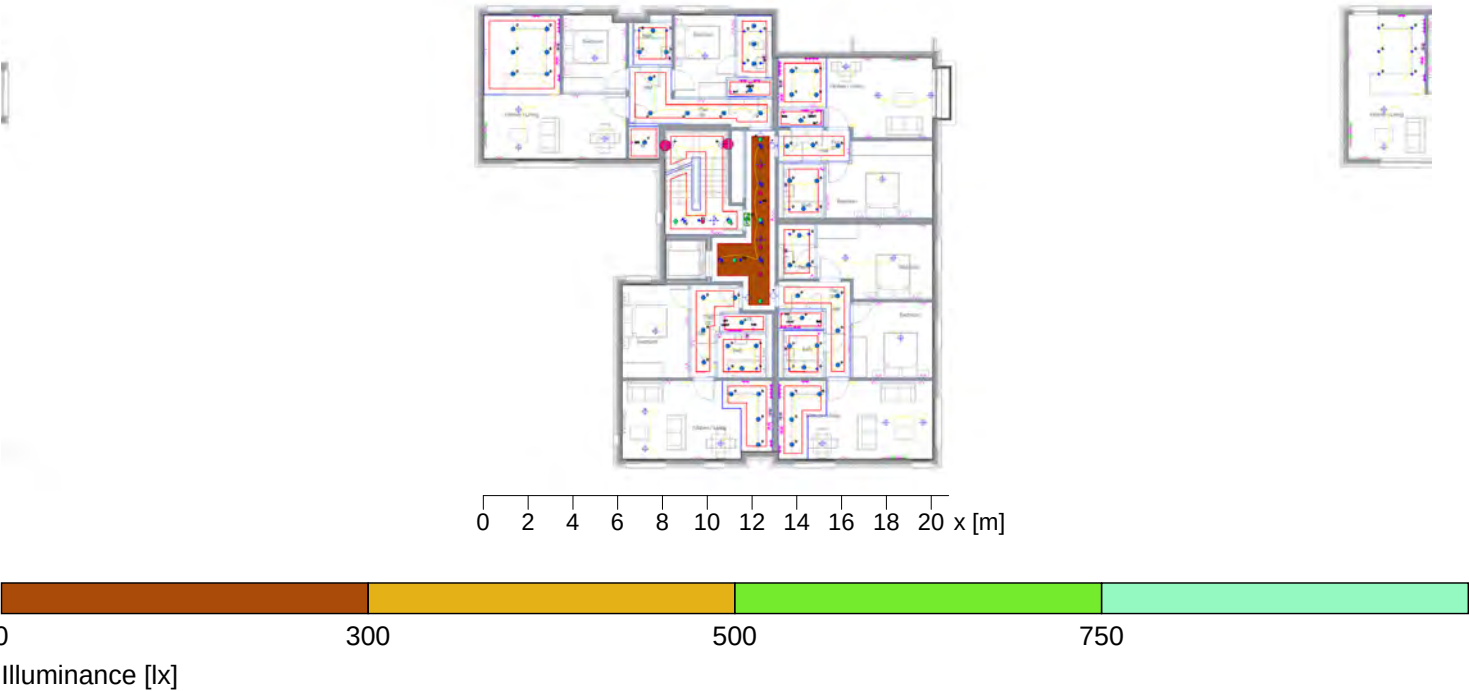
4.2.1 Result overview, Stairs

13	2	Order No.	: !APRILEDP/WW+ACFLP/3
		Luminaire name	: DISPLAY - Prism Pro LED Fire Rated Downlight
		Equipment	: 1 x LED single 830 6.5 W / 532 lm



4.2 Summary, Second Floor

4.2.2 Result overview, Corridor



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	4276.00 lm
Total power	54.6 W
Total power per area (13.36 m²)	4.09 W/m² (3.51 W/m²/100lx)

Corridor

Reference plane 2.1

	Horizontal
Em	117 lx
Emin	60 lx
Emin/Em (Uo)	0.52
Emin/Emax (Ud)	0.41
Position	0.00 m

Type No. Make

2	1	ANSELL	
		Order No.	: AENLED/3M/W -- Emergency Lighting --
		Luminaire name	: EMERGENCY - Encore LED Exit Sign
		Equipment	: 1 x LED 2.6 W / 20 lm (0%)
12	4		
		Order No.	: APRILEDP/WW
		Luminaire name	: DISPLAY - Prism Pro LED Fire Rated Downlight
		Equipment	: 1 x LED single 830 6.5 W / 532 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



4.2 Summary, Second Floor

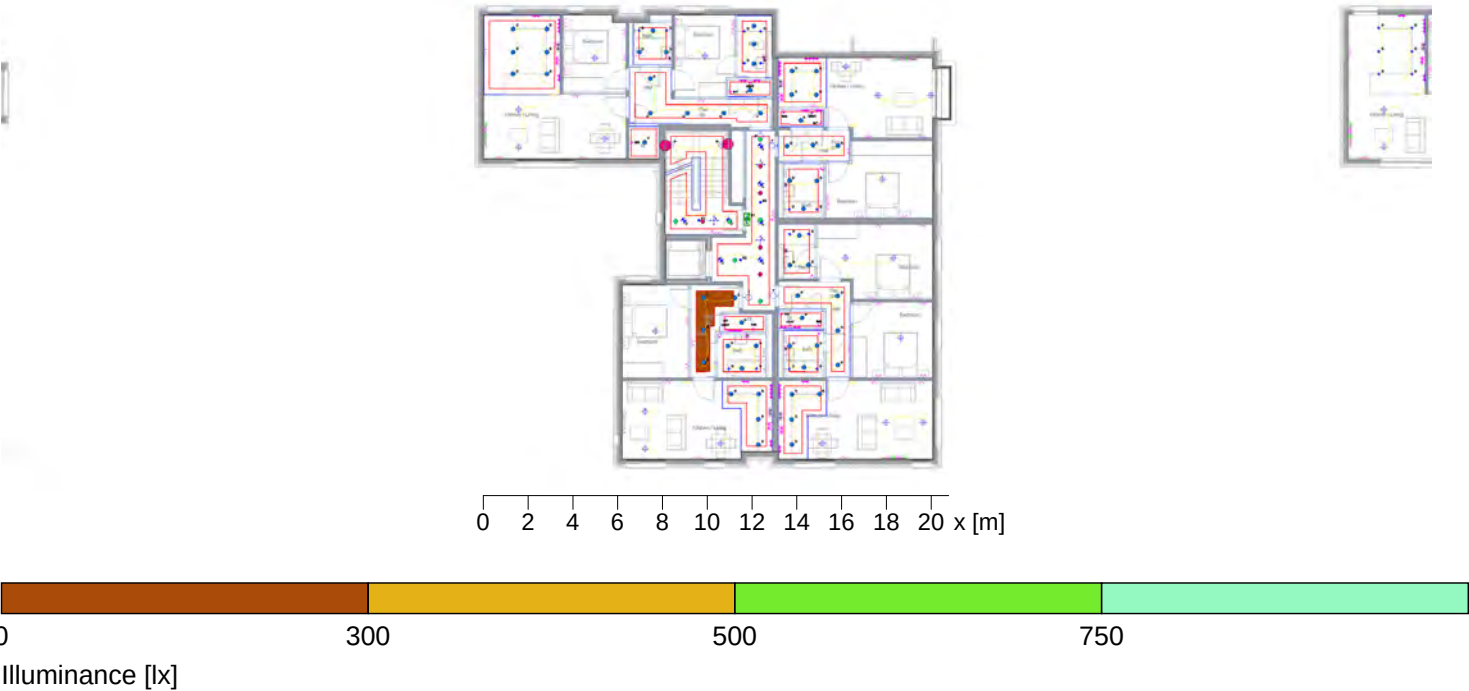
4.2.2 Result overview, Corridor

13 4 Order No. : !APRILEDP/WW+ACFLP/3
 Luminaire name : DISPLAY - Prism Pro LED Fire Rated Downlight
Equipment : 1 x LED single 830 6.5 W / 532 lm



4.2 Summary, Second Floor

4.2.3 Result overview, Flat Hall



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	2852.00 lm
Total power	29.6 W
Total power per area (5.98 m²)	4.95 W/m² (3.45 W/m²/100lx)

Flat Hall

Reference plane 3.1

	Horizontal
Em	143 lx
Emin	99 lx
Emin/Em (Uo)	0.69
Emin/Emax (Ud)	0.60
Position	0.00 m

Type No. Make

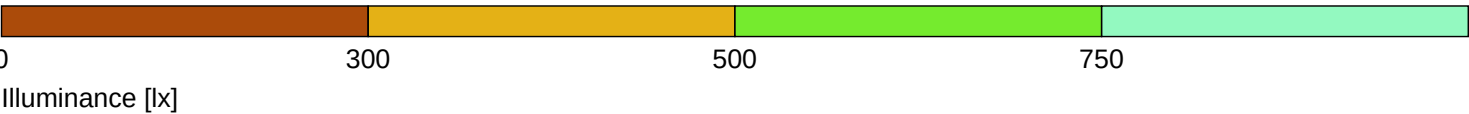
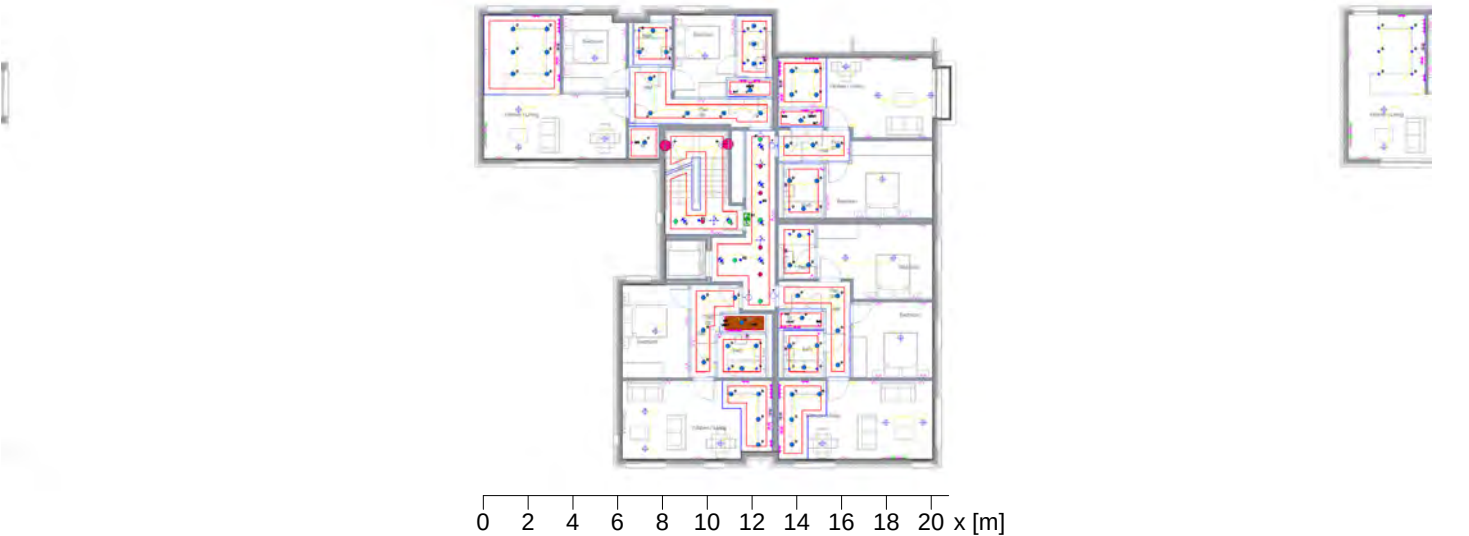
6	4	ANSELL	
		Order No.	: APRILED/WW
		Luminaire name	: DISPLAY - Prism LED Fire Rated Downlight
		Equipment	: 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



4.2 Summary, Second Floor

4.2.4 Result overview, Flat Store



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	713.00 lm
Total power	7.4 W
Total power per area (1.51 m²)	4.89 W/m² (6.77 W/m²/100lx)

Flat Store

Reference plane 4.1

	Horizontal
Em	72 lx
Emin	54 lx
Emin/Em (Uo)	0.75
Emin/Emax (Ud)	0.65
Position	0.00 m

Type No. Make

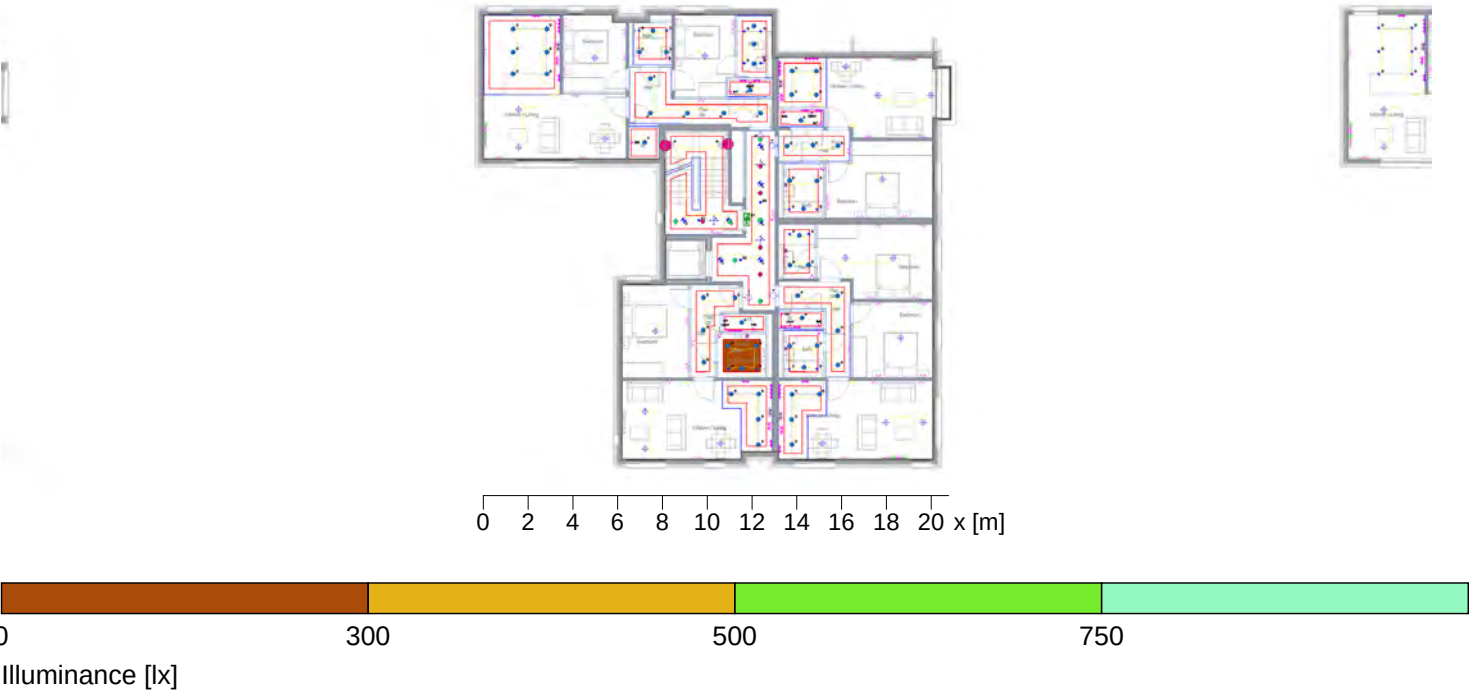
6	1	ANSELL
		Order No. : APRILED/WW
		Luminaire name : DISPLAY - Prism LED Fire Rated Downlight
		Equipment : 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



4.2 Summary, Second Floor

4.2.5 Result overview, Flat Bath



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	2139.00 lm
Total power	22.2 W
Total power per area (4.21 m²)	5.27 W/m² (3.14 W/m²/100lx)

Flat Bath

	Reference plane 5.1
	Horizontal
Em	168 lx
Emin	136 lx
Emin/Em (Uo)	0.81
Emin/Emax (Ud)	0.72
Position	0.00 m

Type No. Make

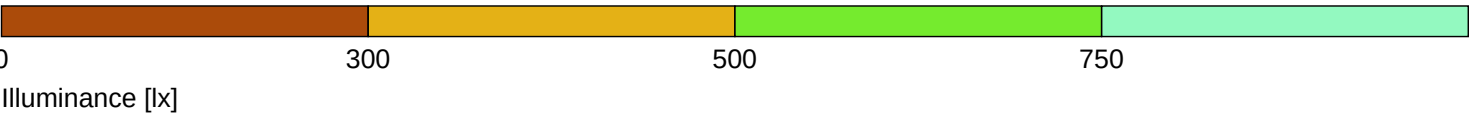
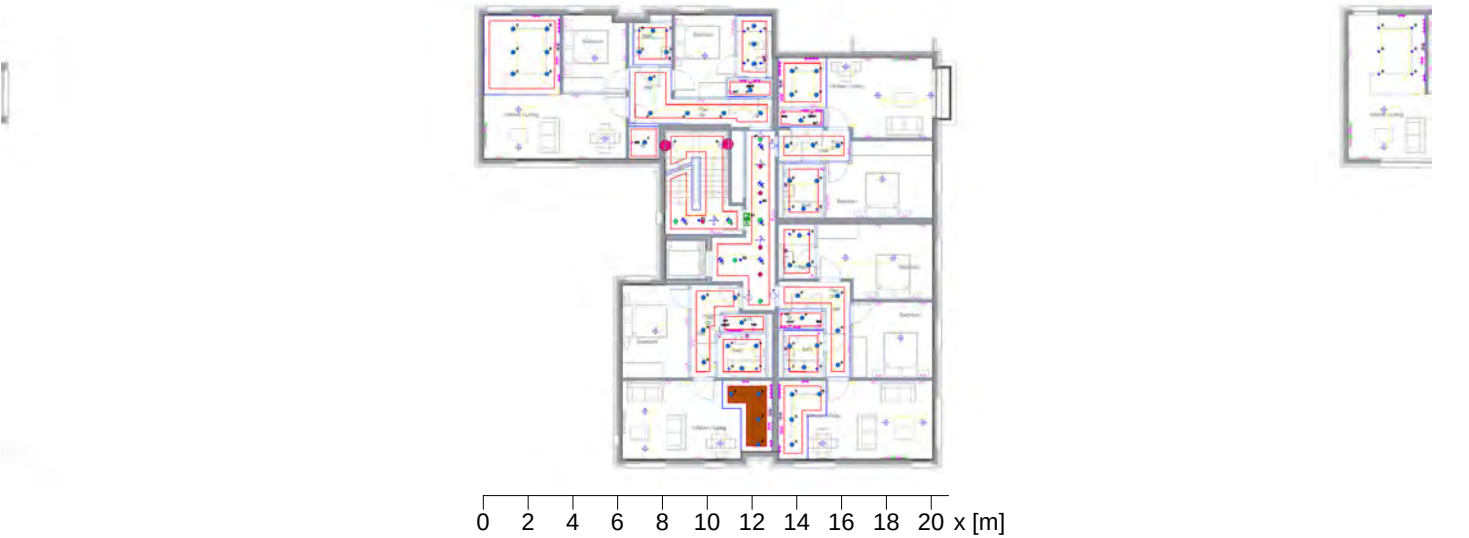
6	3	ANSELL
		Order No. : APRILED/WW
		Luminaire name : DISPLAY - Prism LED Fire Rated Downlight
		Equipment : 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



4.2 Summary, Second Floor

4.2.6 Result overview, Flat Kitchen



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	2852.00 lm
Total power	29.6 W
Total power per area (5.44 m²)	5.44 W/m² (2.35 W/m²/100lx)

Flat Kitchen

Reference plane 6.1

	Horizontal
Em	232 lx
Emin	193 lx
Emin/Em (Uo)	0.84
Emin/Emax (Ud)	0.73
Position	0.75 m

Type No.lMake

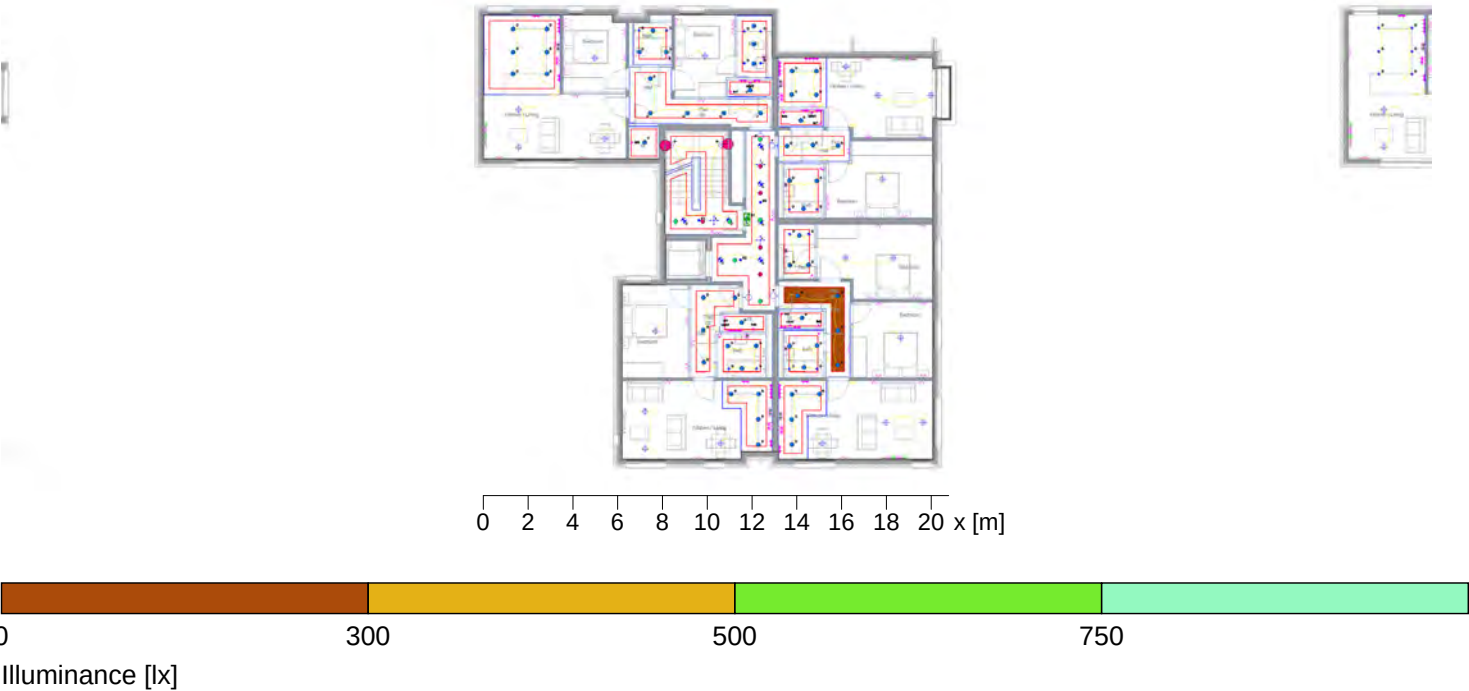
6	4	ANSELL
		Order No. : APRILED/WW
		Luminaire name : DISPLAY - Prism LED Fire Rated Downlight
		Equipment : 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



4.2 Summary, Second Floor

4.2.7 Result overview, Flat Hall



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	2852.00 lm
Total power	29.6 W
Total power per area (7.15 m²)	4.14 W/m² (3.42 W/m²/100lx)

Flat Hall

Reference plane 7.1

	Horizontal
Em	121 lx
Emin	79 lx
Emin/Em (Uo)	0.66
Emin/Emax (Ud)	0.55
Position	0.00 m

Type No. Make

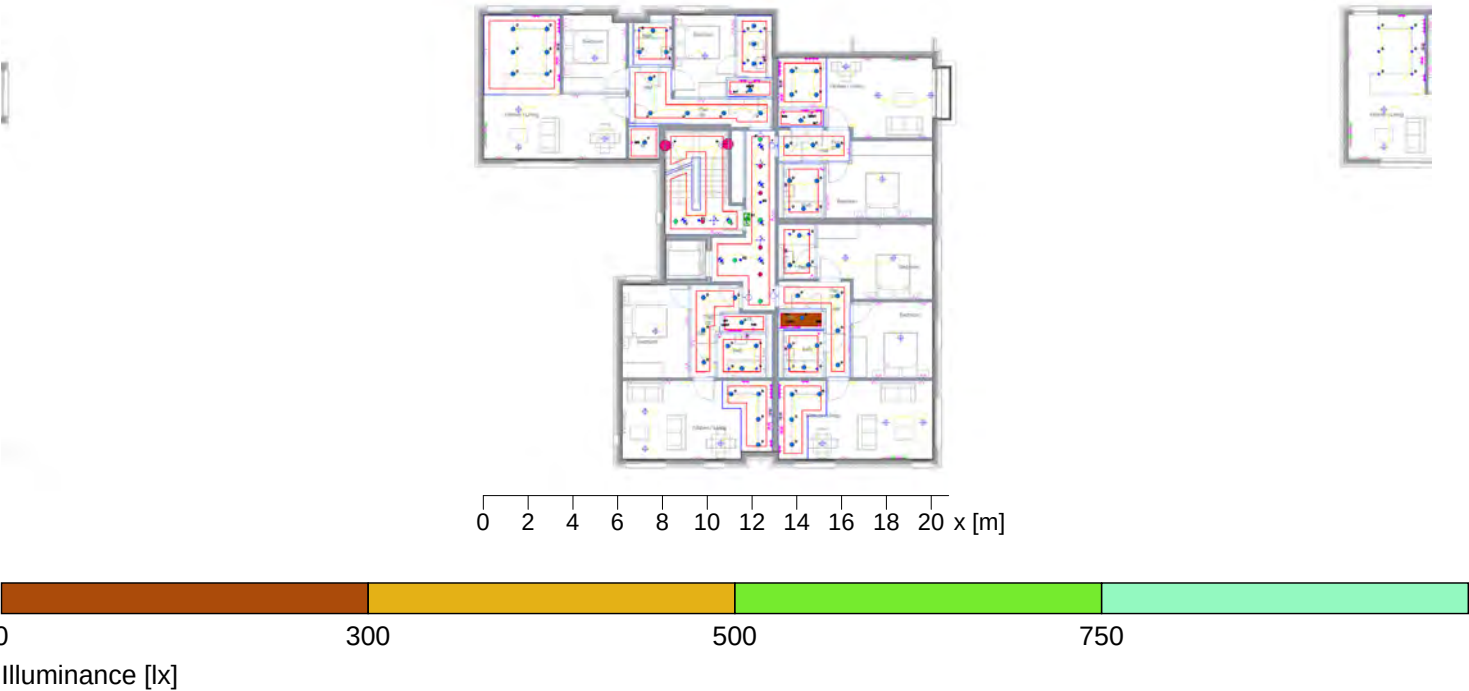
6	4	ANSELL	
		Order No.	: APRILED/WW
		Luminaire name	: DISPLAY - Prism LED Fire Rated Downlight
		Equipment	: 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



4.2 Summary, Second Floor

4.2.8 Result overview, Flat Store



General	
Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	713.00 lm
Total power	7.4 W
Total power per area (1.56 m²)	4.76 W/m² (6.80 W/m²/100lx)

Flat Store	Reference plane 8.1
	Horizontal
Em	70 lx
Emin	52 lx
Emin/Em (Uo)	0.74
Emin/Emax (Ud)	0.63
Position	0.00 m

Type No. Make

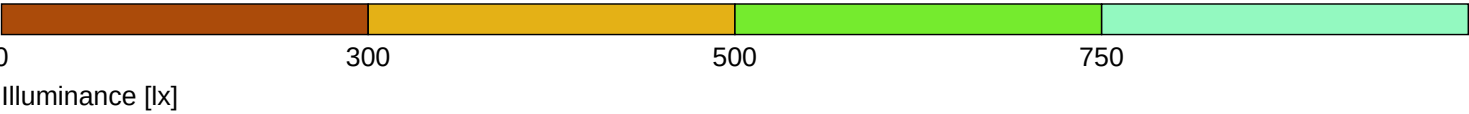
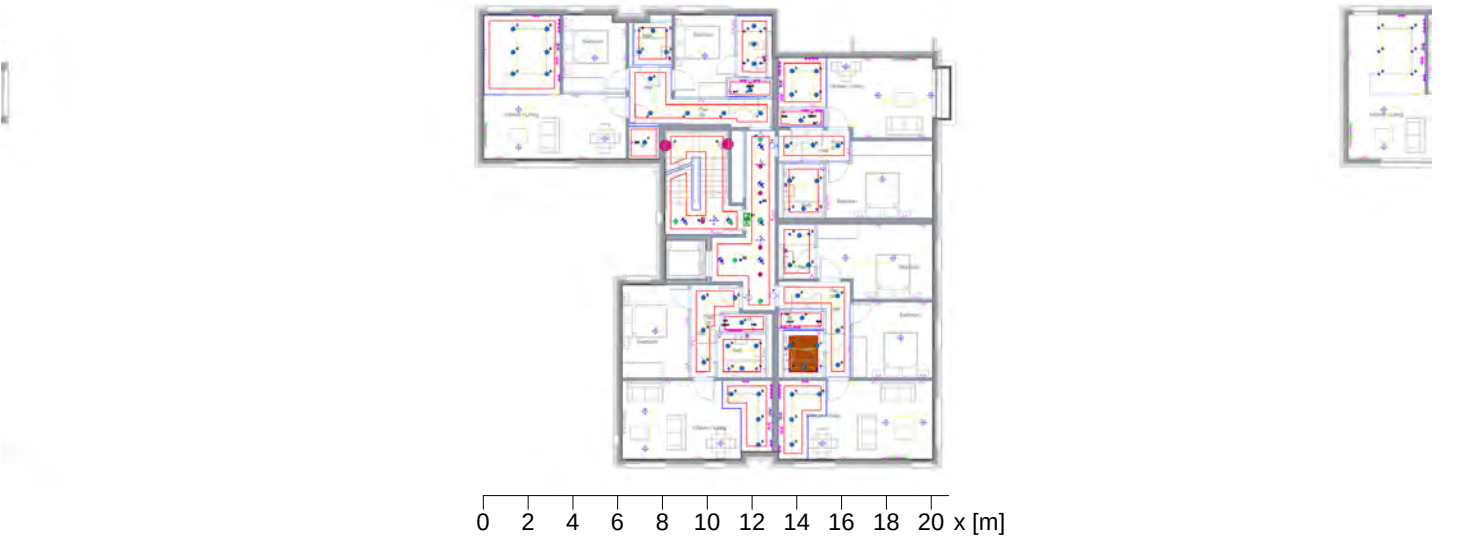
6	1	ANSELL	
		Order No.	: APRILED/WW
		Luminaire name	: DISPLAY - Prism LED Fire Rated Downlight
		Equipment	: 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



4.2 Summary, Second Floor

4.2.9 Result overview, Flat Bath



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	2139.00 lm
Total power	22.2 W
Total power per area (3.78 m²)	5.87 W/m² (3.37 W/m²/100lx)

Flat Bath

Em	174 lx
Emin	147 lx
Emin/Em (Uo)	0.84
Emin/Emax (Ud)	0.75
Position	0.00 m

Reference plane 9.1

Horizontal

Type No. Make



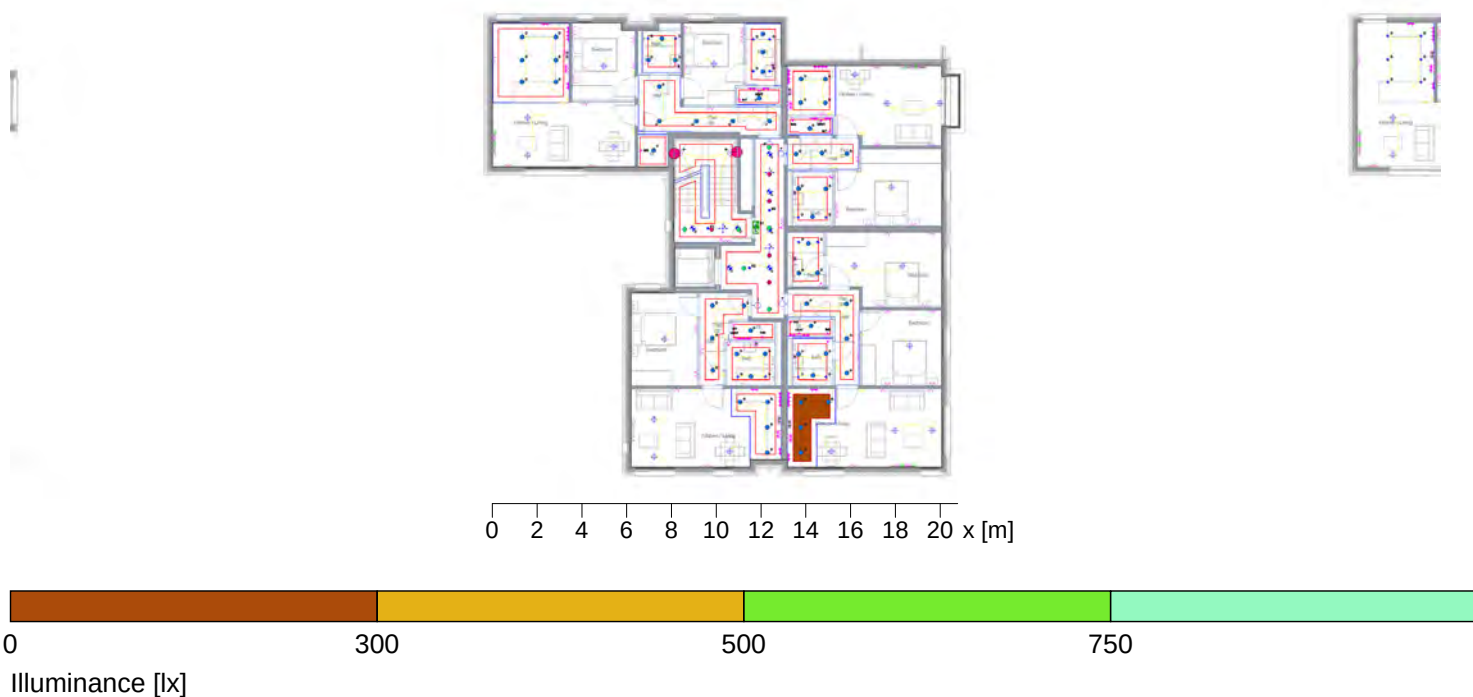
ANSSELL	
Order No.	: APRILED/WW
Luminaire name	: DISPLAY - Prism LED Fire Rated Downlight
Equipment	: 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



4.2 Summary, Second Floor

4.2.10 Result overview, Flat Kitchen



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (5.90 m²)

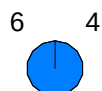
2852.00 lm
 29.6 W
 5.02 W/m² (2.24 W/m²/100lx)

Flat Kitchen

Reference plane 10.1

Horizontal
 Em 224 lx
 Emin 167 lx
 Emin/Em (Uo) 0.75
 Emin/Emax (Ud) 0.64
 Position 0.75 m

Type No. Make



ANSELL

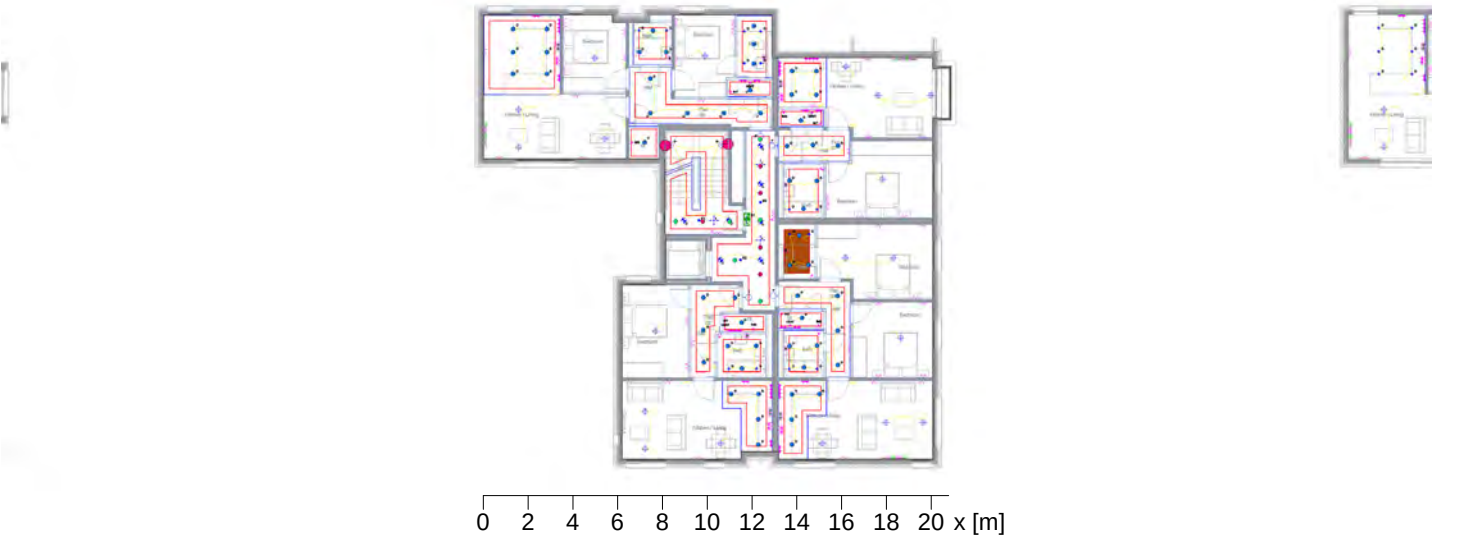
Order No. : APRILED/WW
 Luminaire name : DISPLAY - Prism LED Fire Rated Downlight
 Equipment : 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



4.2 Summary, Second Floor

4.2.11 Result overview, Flat Bath



General	
Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	2139.00 lm
Total power	22.2 W
Total power per area (3.89 m²)	5.71 W/m² (3.35 W/m²/100lx)

Flat Bath	Reference plane 11.1
	Horizontal
Em	170 lx
Emin	130 lx
Emin/Em (Uo)	0.76
Emin/Emax (Ud)	0.67
Position	0.00 m

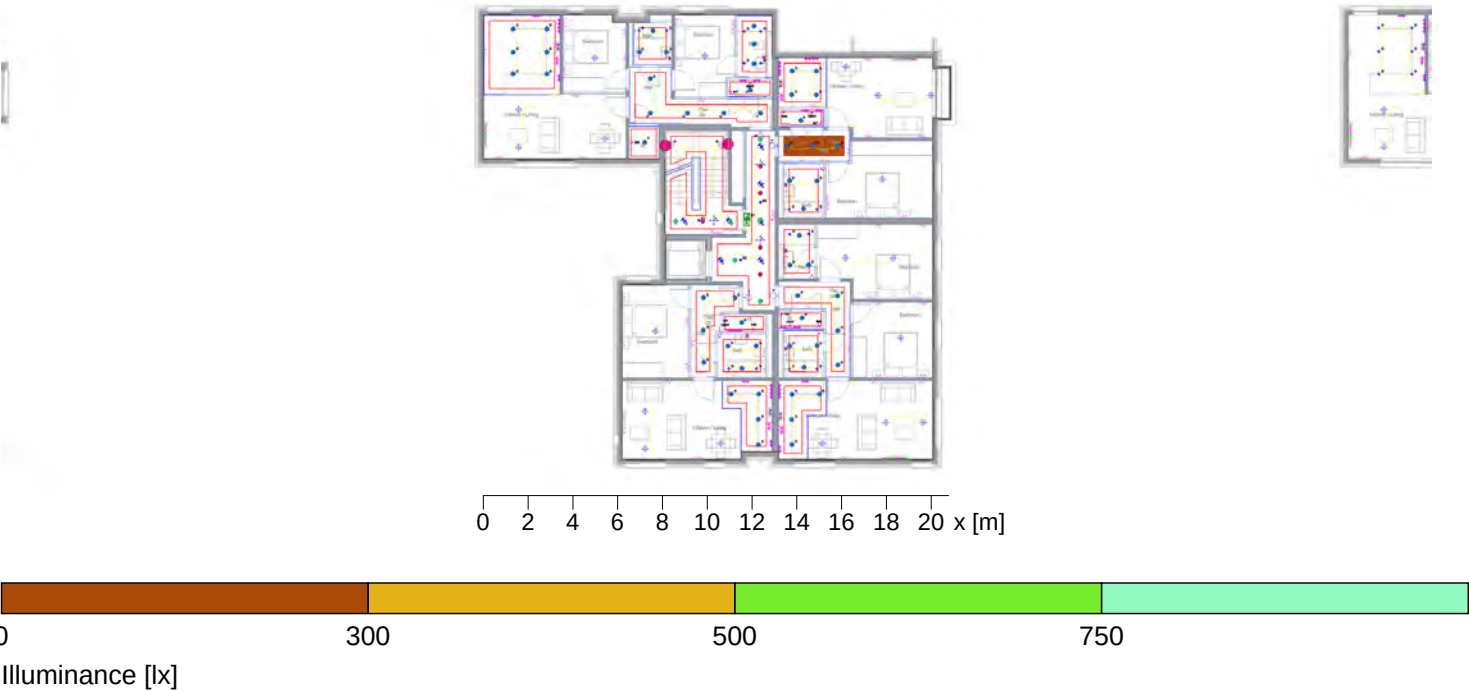
Type No.lMake

6	3	ANSELL	
		Order No.	: APRILED/WW
		Luminaire name	: DISPLAY - Prism LED Fire Rated Downlight
		Equipment	: 1 x LED single 830 7.4 W / 713 lm



4.2 Summary, Second Floor

4.2.12 Result overview, Flat Hall



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	2139.00 lm
Total power	22.2 W
Total power per area (4.41 m²)	5.04 W/m² (3.39 W/m²/100lx)

Flat Hall

Reference plane 12.1

	Horizontal
Em	148 lx
Emin	116 lx
Emin/Em (Uo)	0.78
Emin/Emax (Ud)	0.68
Position	0.00 m

Type No. Make



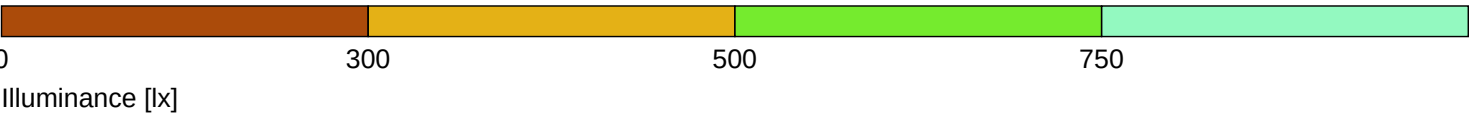
ANSELL	
Order No.	: APRILED/WW
Luminaire name	: DISPLAY - Prism LED Fire Rated Downlight
Equipment	: 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



4.2 Summary, Second Floor

4.2.13 Result overview, Flat Bath



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	2139.00 lm
Total power	22.2 W
Total power per area (4.34 m²)	5.12 W/m² (3.21 W/m²/100lx)

Flat Bath

Em	160 lx
Emin	133 lx
Emin/Em (Uo)	0.83
Emin/Emax (Ud)	0.74
Position	0.00 m

Reference plane 13.1

Horizontal

Type No. Make

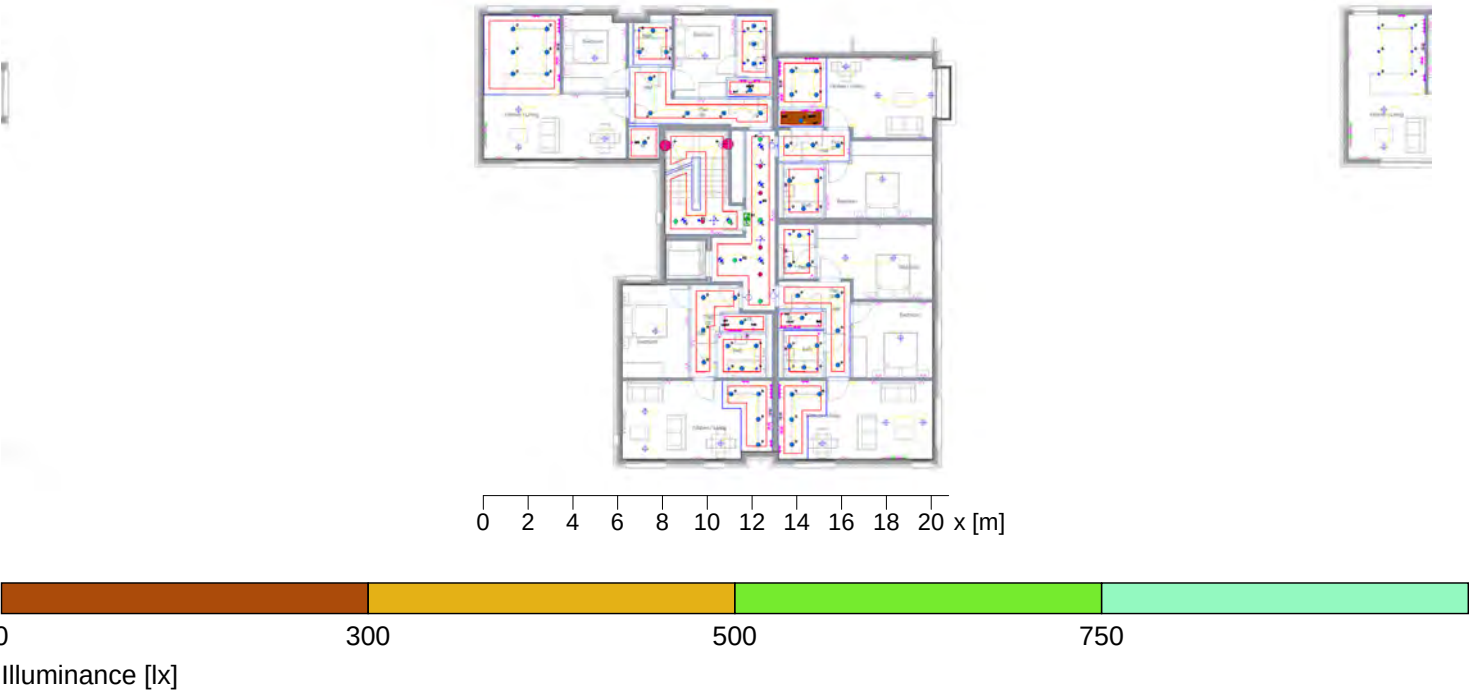
6	3	ANSELL
		Order No. : APRILED/WW
		Luminaire name : DISPLAY - Prism LED Fire Rated Downlight
		Equipment : 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



4.2 Summary, Second Floor

4.2.14 Result overview, Flat Store



General	
Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	713.00 lm
Total power	7.4 W
Total power per area (1.54 m²)	4.81 W/m² (6.65 W/m²/100lx)

Flat Store	Reference plane 14.1
	Horizontal
Em	72 lx
Emin	59 lx
Emin/Em (Uo)	0.82
Emin/Emax (Ud)	0.70
Position	0.00 m

Type No. Make

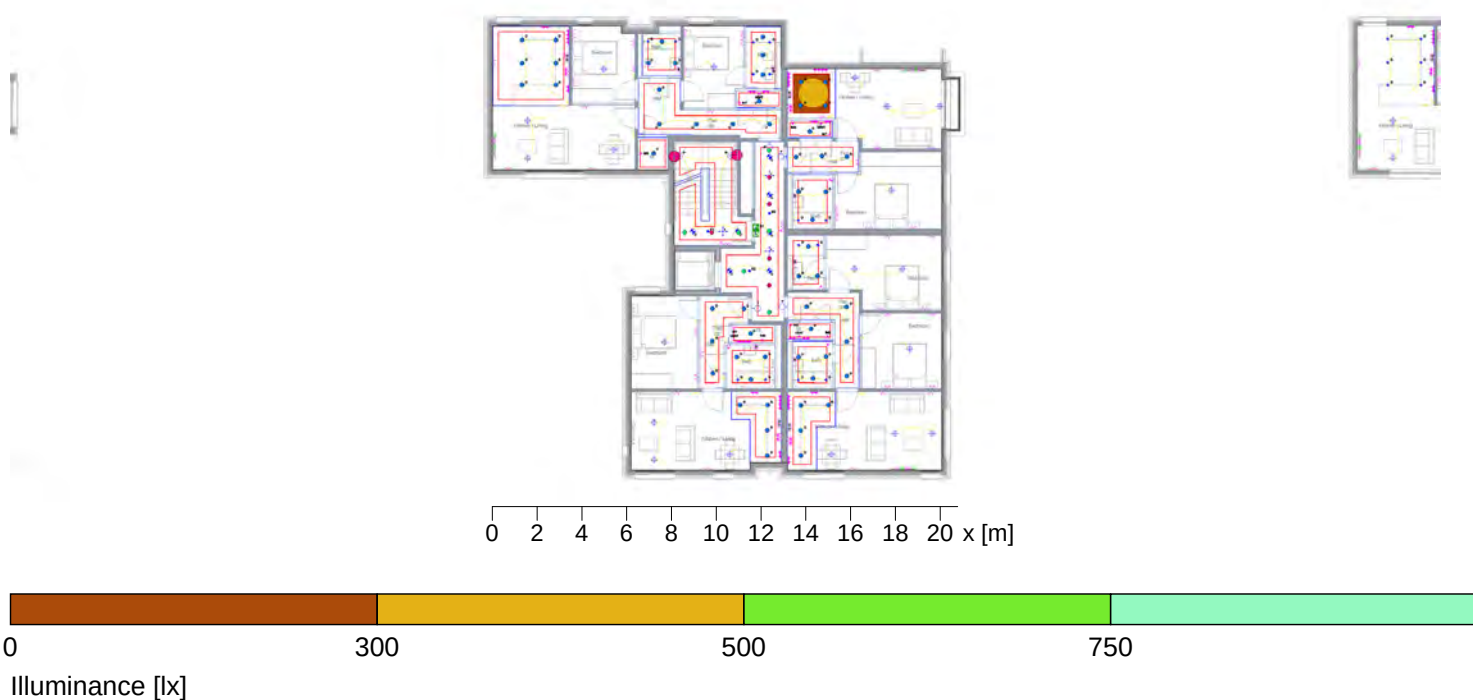
6	1	ANSELL
		Order No. : APRILED/WW
		Luminaire name : DISPLAY - Prism LED Fire Rated Downlight
		Equipment : 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



4.2 Summary, Second Floor

4.2.15 Result overview, Flat Kitchen



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (4.75 m²)

2852.00 lm
 29.6 W
 6.23 W/m² (2.19 W/m²/100lx)

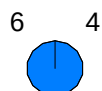
Flat Kitchen

Reference plane 15.1

Horizontal

Em 285 lx
 Emin 212 lx
 Emin/Em (Uo) 0.74
 Emin/Emax (Ud) 0.63
 Position 0.75 m

Type No. \ Make



ANSELL

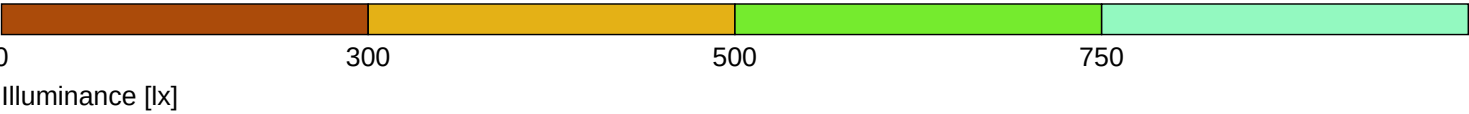
Order No. : APRILED/WW
 Luminaire name : DISPLAY - Prism LED Fire Rated Downlight
 Equipment : 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



4.2 Summary, Second Floor

4.2.16 Result overview, Flat Hall



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	3565.00 lm
Total power	37.0 W
Total power per area (10.03 m²)	3.69 W/m² (2.96 W/m²/100lx)

Flat Hall

Reference plane 16.1

	Horizontal
Em	125 lx
Emin	88 lx
Emin/Em (Uo)	0.71
Emin/Emax (Ud)	0.60
Position	0.00 m

Type No. Make

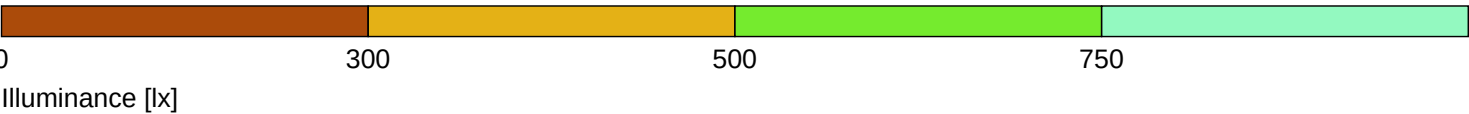
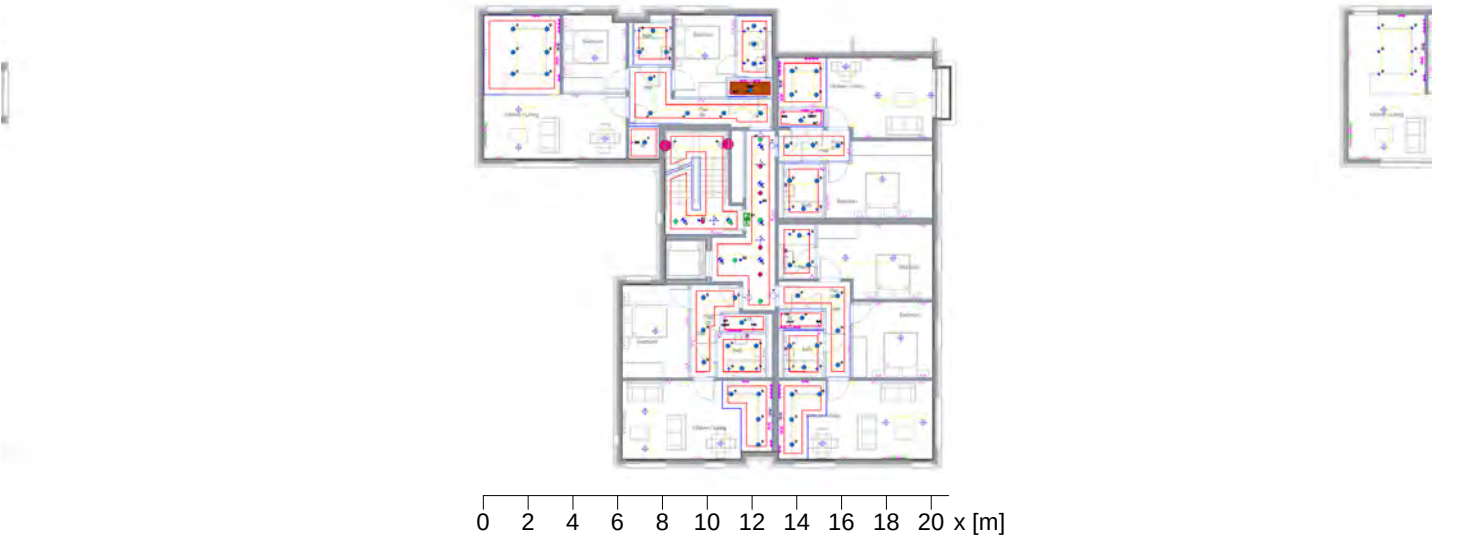
6	5	ANSELL	
		Order No.	: APRILED/WW
		Luminaire name	: DISPLAY - Prism LED Fire Rated Downlight
		Equipment	: 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



4.2 Summary, Second Floor

4.2.17 Result overview, Flat Store



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	713.00 lm
Total power	7.4 W
Total power per area (1.54 m²)	4.81 W/m² (6.89 W/m²/100lx)

Flat Store

Reference plane 17.1

	Horizontal
Em	70 lx
Emin	56 lx
Emin/Em (Uo)	0.81
Emin/Emax (Ud)	0.68
Position	0.00 m

Type No. Make

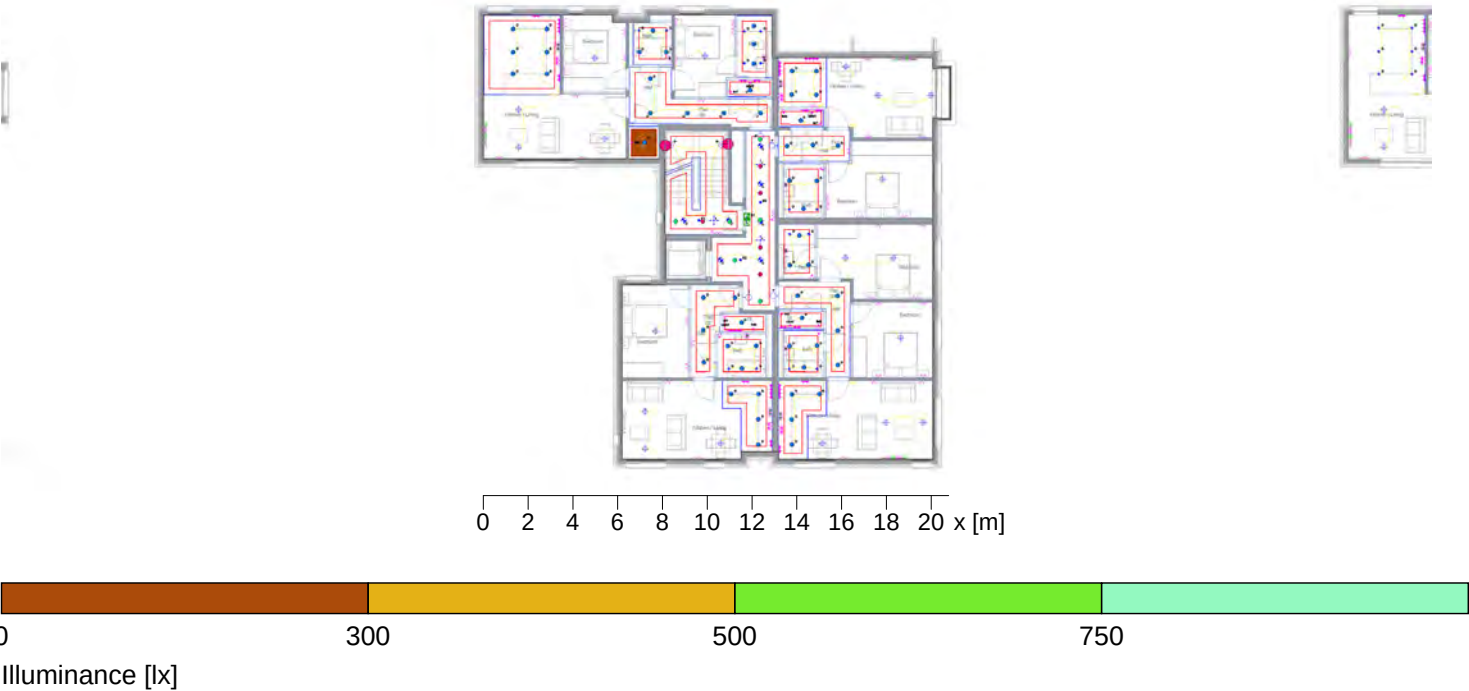
6	1	ANSELL	
		Order No.	: APRILED/WW
		Luminaire name	: DISPLAY - Prism LED Fire Rated Downlight
		Equipment	: 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



4.2 Summary, Second Floor

4.2.18 Result overview, Flat Store



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	713.00 lm
Total power	7.4 W
Total power per area (1.88 m²)	3.94 W/m² (5.33 W/m²/100lx)

Flat Store

Reference plane 18.1

	Horizontal
Em	74 lx
Emin	64 lx
Emin/Em (Uo)	0.86
Emin/Emax (Ud)	0.76
Position	0.00 m

Type No. Make

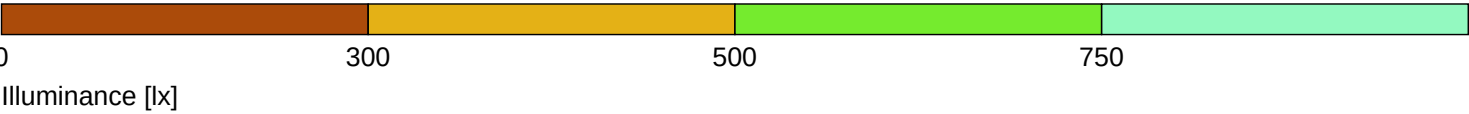
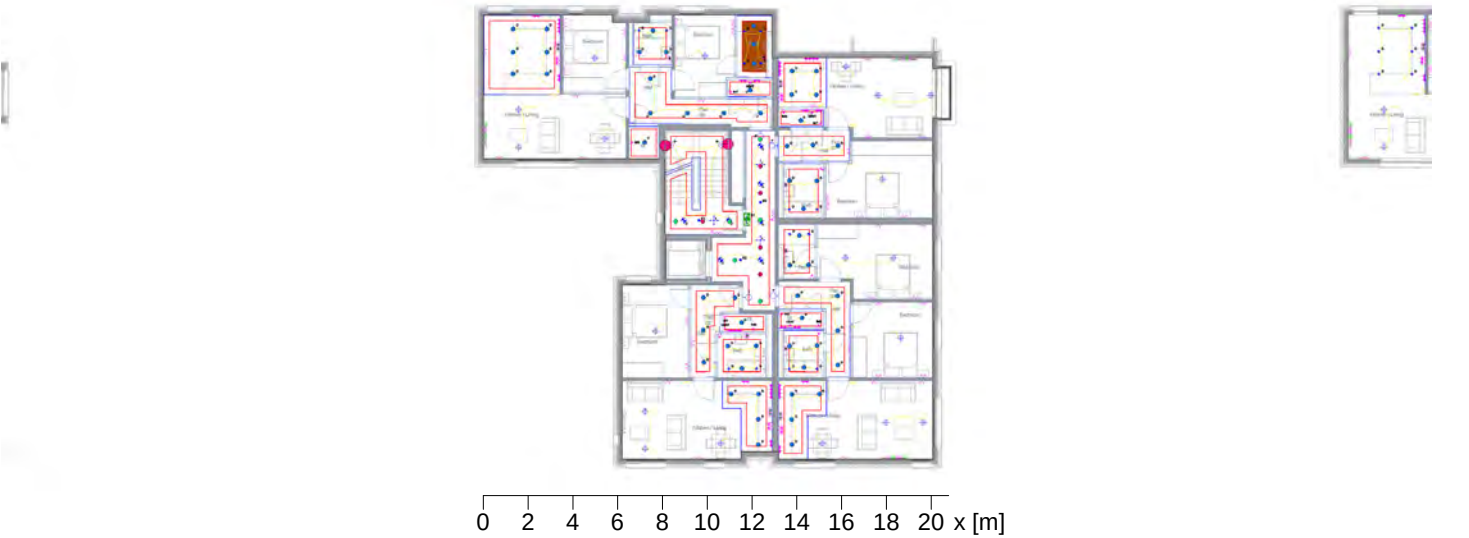
6	1	ANSELL
		Order No. : APRILED/WW
		Luminaire name : DISPLAY - Prism LED Fire Rated Downlight
		Equipment : 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



4.2 Summary, Second Floor

4.2.19 Result overview, Flat Bath



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	2139.00 lm
Total power	22.2 W
Total power per area (4.32 m²)	5.14 W/m² (3.04 W/m²/100lx)

Flat Bath

Reference plane 19.1

	Horizontal
Em	169 lx
Emin	127 lx
Emin/Em (Uo)	0.75
Emin/Emax (Ud)	0.64
Position	0.00 m

Type No. Make

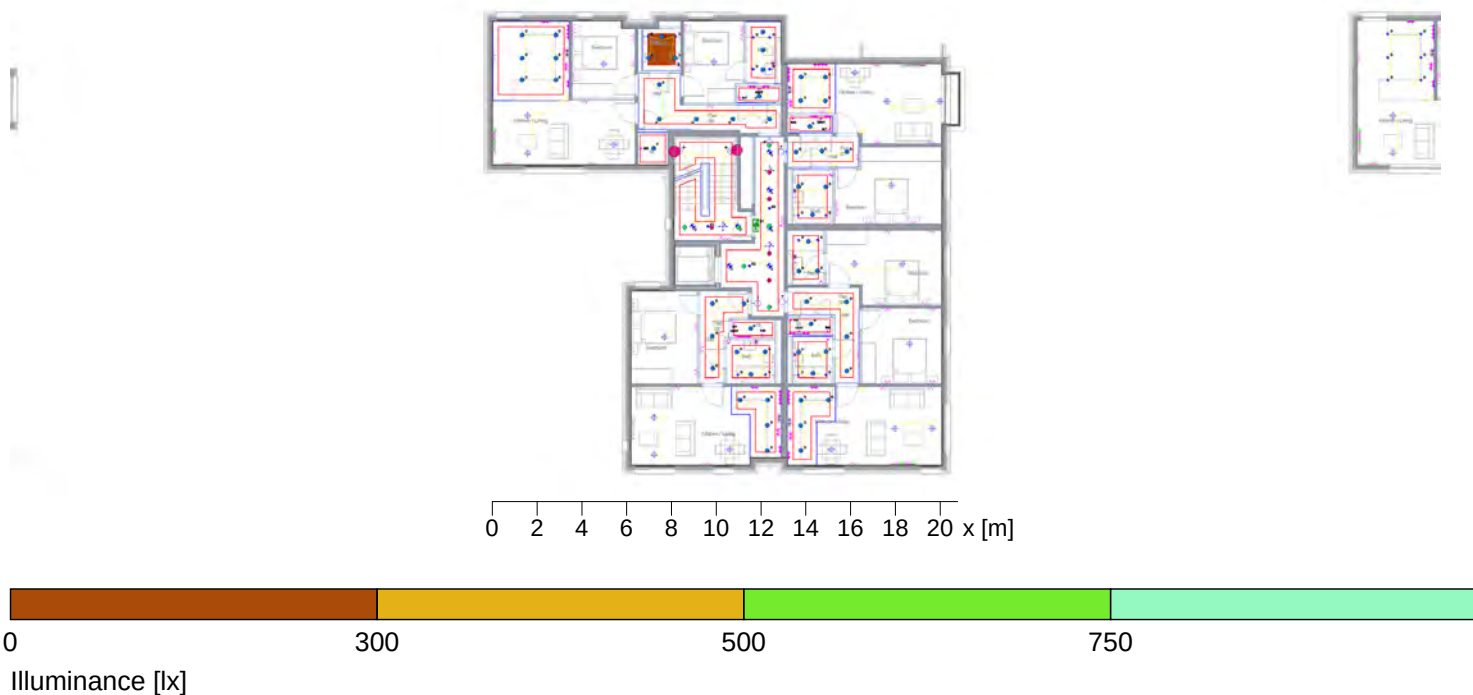
6	3	ANSELL	
		Order No.	: APRILED/WW
		Luminaire name	: DISPLAY - Prism LED Fire Rated Downlight
		Equipment	: 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



4.2 Summary, Second Floor

4.2.20 Result overview, Flat Bath



General

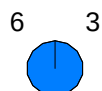
Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	2139.00 lm
Total power	22.2 W
Total power per area (3.22 m ²)	6.89 W/m ² (3.81 W/m ² /100lx)

Flat Bath

Reference plane 20.1

	Horizontal
Em	181 lx
Emin	158 lx
Emin/Em (Uo)	0.88
Emin/Emax (Ud)	0.80
Position	0.00 m

Type No. Make



ANSELL

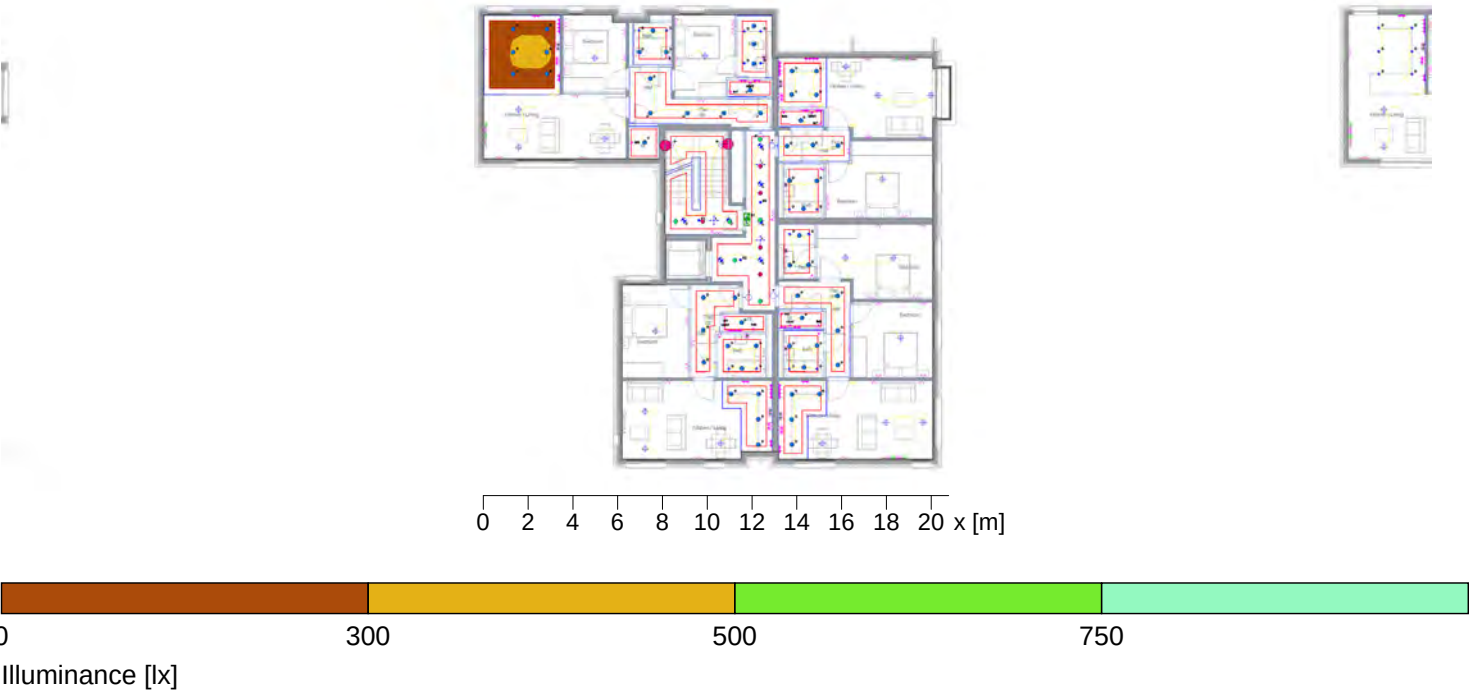
Order No. : APRILED/WW
 Luminaire name : DISPLAY - Prism LED Fire Rated Downlight
 Equipment : 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



4.2 Summary, Second Floor

4.2.21 Result overview, Flat Kitchen



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	4278.00 lm
Total power	44.4 W
Total power per area (12.04 m²)	3.69 W/m² (1.57 W/m²/100lx)

Flat Kitchen

Reference plane 21.1

	Horizontal
Em	235 lx
Emin	86 lx
Emin/Em (Uo)	0.37
Emin/Emax (Ud)	0.27
Position	0.75 m

Type No. Make



ANSELL	
Order No.	: APRILED/WW
Luminaire name	: DISPLAY - Prism LED Fire Rated Downlight
Equipment	: 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



4 Second Floor

4.4 Summary, Second Floor

4.4.1 Result overview (emergency lighting)

Type No. Make

		ANSELL	
1	2	Order No.	: AECLED/W/CCT/M3-25W-CW
		Luminaire name	: AMENITY - Eclipse MultiLED CCT
		Equipment	: 1 x 1 W / 162 lm
2	1	Order No.	: AENLED/3M/W -- Emergency Lighting --
		Luminaire name	: EMERGENCY - Encore LED Exit Sign
		Equipment	: 1 x LED 2.6 W / 20 lm
13	6	Order No.	: !APRILEDP/WW+ACFLP/3
		Luminaire name	: DISPLAY - Prism Pro LED Fire Rated Downlight
		Equipment	: 1 x LED single 830 6.5 W / 478 lm

Result evaluation area

Calculation algorithm used: Direct component
 Maintenance factor: 0.8

Emergency area:

No.	Default[lx]	Emin[lx]	Surface Emax[lx]	Diversity	Height
Stairs					
1	1.0	2.7	46.0	1: 16.86	0.00
Corridor					
2	1.0	23.3	61.5	1: 2.64	0.00

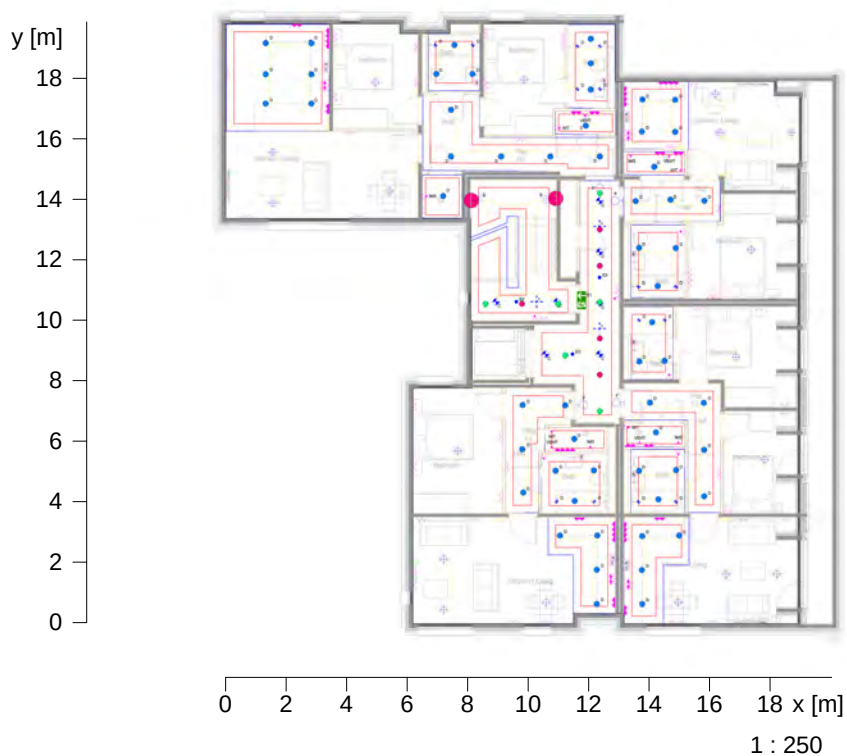
Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



5 Third Floor

5.1 Description, Third Floor

5.1.1 Floor plan



Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



5 Third Floor

5.1 Description, Third Floor

5.1.1 Floor plan

Wall	x	y	Length	Reflectance
1	84.20 m	9.22 m	5.30 m	50.0 %
2	84.20 m	9.55 m	0.34 m	50.0 %
3	85.87 m	9.55 m	1.68 m	50.0 %
4	85.87 m	9.22 m	0.34 m	50.0 %
5	91.61 m	9.22 m	5.73 m	50.0 %
6	91.60 m	24.42 m	15.20 m	50.0 %
7	91.65 m	24.42 m	0.05 m	50.0 %
8	91.65 m	26.65 m	2.23 m	50.0 %
9	90.83 m	26.65 m	0.82 m	50.0 %
10	90.83 m	27.11 m	0.47 m	50.0 %
11	85.58 m	27.11 m	5.25 m	50.0 %
12	85.58 m	29.03 m	1.91 m	50.0 %
13	80.14 m	29.03 m	5.44 m	50.0 %
14	80.14 m	28.70 m	0.33 m	50.0 %
15	78.46 m	28.70 m	1.68 m	50.0 %
16	78.46 m	29.03 m	0.33 m	50.0 %
17	72.71 m	29.03 m	5.75 m	50.0 %
18	72.71 m	22.60 m	6.42 m	50.0 %
19	80.52 m	22.60 m	7.81 m	50.0 %
20	80.81 m	22.61 m	0.29 m	50.0 %
21	80.81 m	19.23 m	3.37 m	50.0 %
22	80.85 m	19.23 m	0.04 m	50.0 %
23	80.85 m	16.99 m	2.25 m	50.0 %
24	78.90 m	16.99 m	1.95 m	50.0 %
25	78.90 m	9.22 m	7.77 m	50.0 %
Floor				21.1 %
Ceiling				33.2 %
Room height		2.75 m		
Height of ref. plane		0.00 m		

Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



5 Third Floor

5.2 Summary, Third Floor

5.2.1 Result overview, Stairs



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (12.91 m²)

9288.00 lm
 69.5 W
 5.38 W/m² (5.93 W/m²/100lx)

Stairs

Reference plane 1.1

Horizontal

Em 91 lx
 Emin 52 lx
 Emin/Em (Uo) 0.58
 Emin/Emax (Ud) 0.43
 Position 0.00 m

Type No. \ Make

1 2 **ANSELL**
 Order No. : AECLED/W/CCT/M3-25W-CW
 Luminaire name : AMENITY - Eclipse MultiLED CCT
 Equipment : 1 x LED single 840 25 W / 3846 lm

12 1
 Order No. : APRILEDP/WW
 Luminaire name : DISPLAY - Prism Pro LED Fire Rated Downlight
 Equipment : 1 x LED single 830 6.5 W / 532 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



5 Third Floor

5.2 Summary, Third Floor

5.2.1 Result overview, Stairs

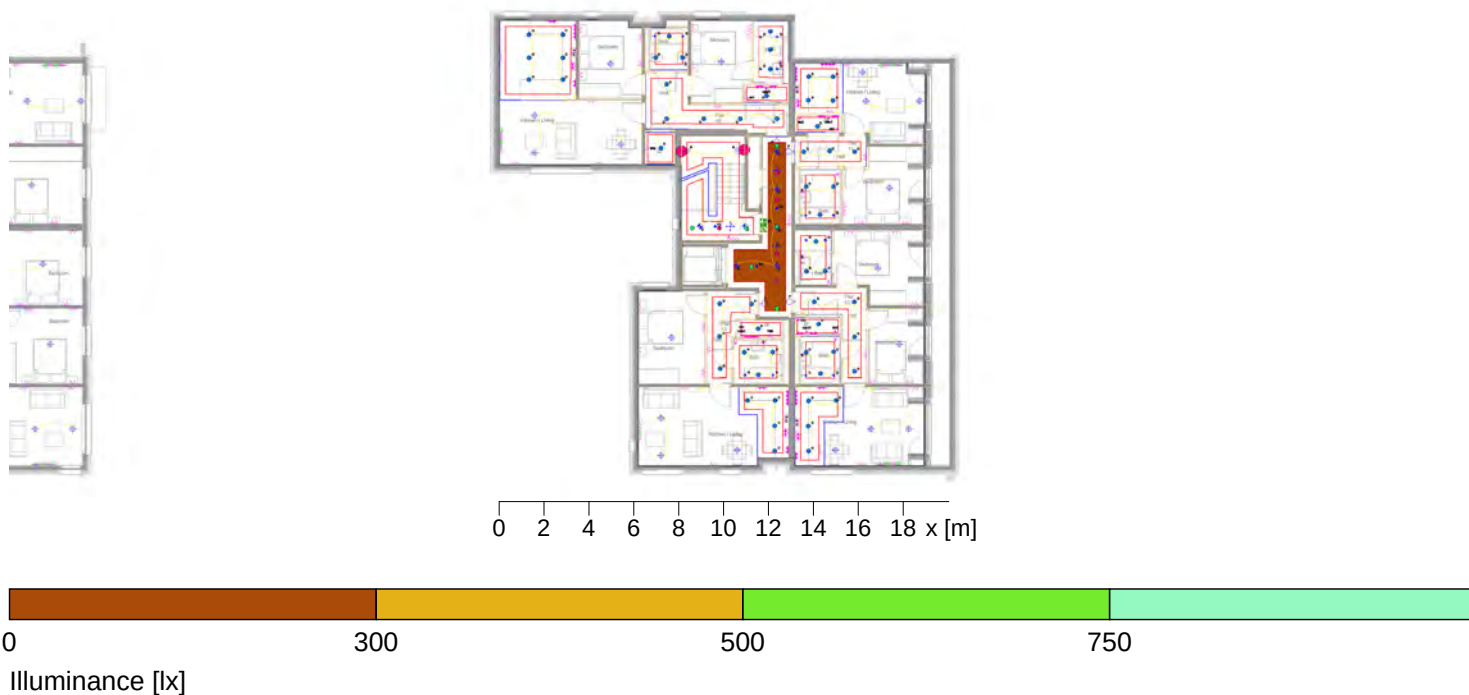
13	2	Order No.	: !APRILEDP/WW+ACFLP/3
		Luminaire name	: DISPLAY - Prism Pro LED Fire Rated Downlight
		Equipment	: 1 x LED single 830 6.5 W / 532 lm

Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



5.2 Summary, Third Floor

5.2.2 Result overview, Corridor



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	4276.00 lm
Total power	54.6 W
Total power per area (13.36 m ²)	4.09 W/m ² (3.51 W/m ² /100lx)

Corridor

Reference plane 2.1

	Horizontal
Em	117 lx
Emin	59 lx
Emin/Em (Uo)	0.50
Emin/Emax (Ud)	0.40
Position	0.00 m

Type No. \ Make

2	1	ANSELL	
		Order No.	: AENLED/3M/W -- Emergency Lighting --
		Luminaire name	: EMERGENCY - Encore LED Exit Sign
		Equipment	: 1 x LED 2.6 W / 20 lm (0%)
12	4	Order No.	: APRILEDP/WW
		Luminaire name	: DISPLAY - Prism Pro LED Fire Rated Downlight
		Equipment	: 1 x LED single 830 6.5 W / 532 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



5.2 Summary, Third Floor

5.2.2 Result overview, Corridor

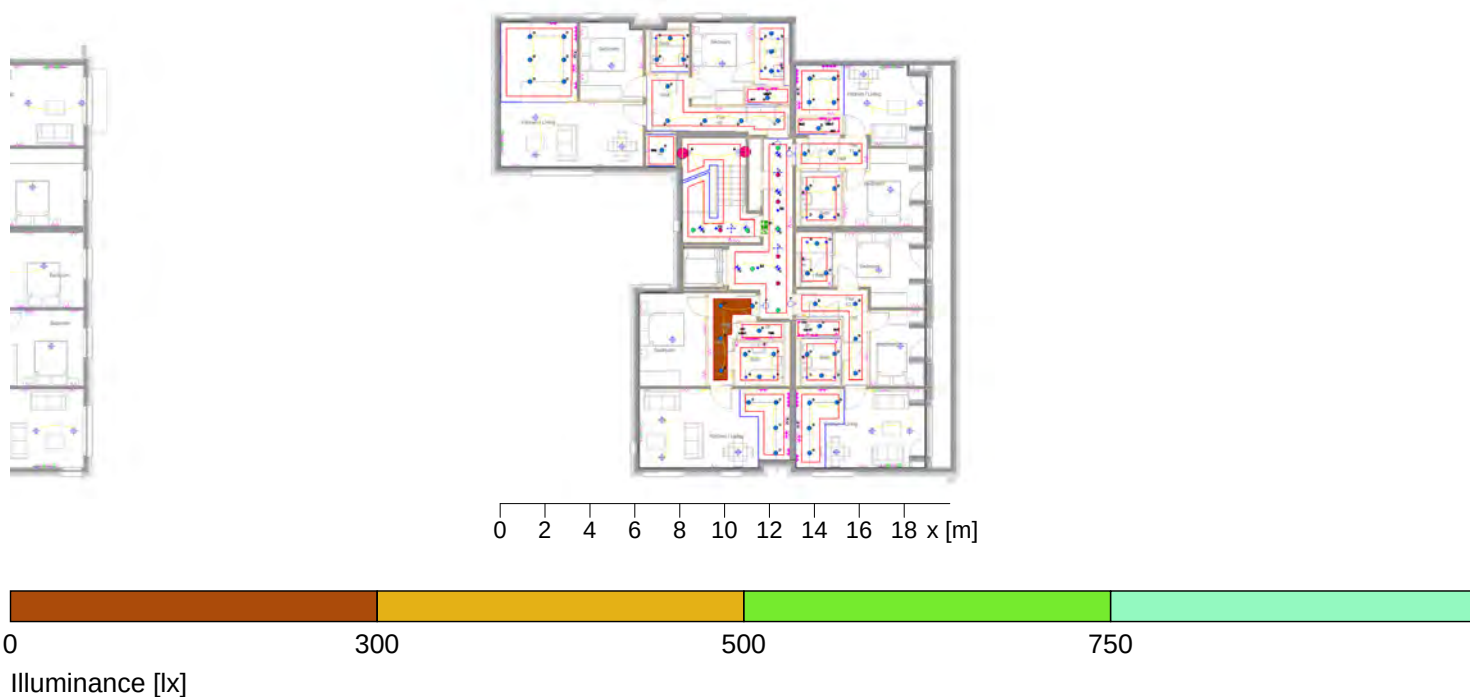
13 4 Order No. : !APRILEDP/WW+ACFLP/3
 Luminaire name : DISPLAY - Prism Pro LED Fire Rated Downlight
Equipment : 1 x LED single 830 6.5 W / 532 lm

Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



5.2 Summary, Third Floor

5.2.3 Result overview, Flat Hall



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (5.98 m²)

2852.00 lm
 29.6 W
 4.95 W/m² (3.45 W/m²/100lx)

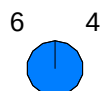
Flat Hall

Reference plane 3.1

Horizontal

Em 143 lx
 Emin 99 lx
 Emin/Em (Uo) 0.69
 Emin/Emax (Ud) 0.60
 Position 0.00 m

Type No. Make



ANSELL

Order No. : APRILED/WW
 Luminaire name : DISPLAY - Prism LED Fire Rated Downlight
 Equipment : 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



5.2 Summary, Third Floor
5.2.4 Result overview, Flat Store



General	
Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	713.00 lm
Total power	7.4 W
Total power per area (1.51 m²)	4.89 W/m² (6.76 W/m²/100lx)

Flat Store	Reference plane 4.1
	Horizontal
Em	72 lx
Emin	55 lx
Emin/Em (Uo)	0.75
Emin/Emax (Ud)	0.65
Position	0.00 m

Type No. Make

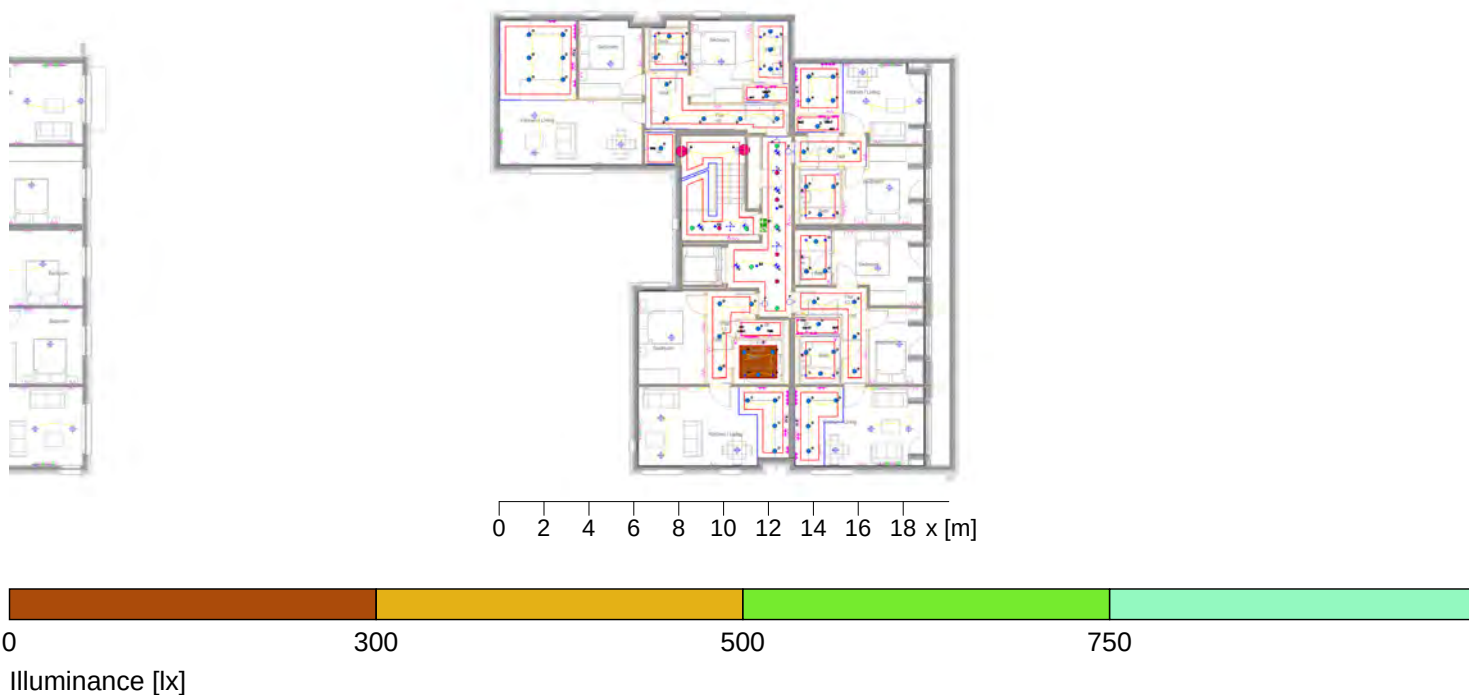
6	1	ANSELL	
		Order No.	: APRILED/WW
		Luminaire name	: DISPLAY - Prism LED Fire Rated Downlight
		Equipment	: 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



5.2 Summary, Third Floor

5.2.5 Result overview, Flat Bath



General

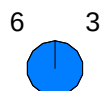
Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	2139.00 lm
Total power	22.2 W
Total power per area (4.21 m ²)	5.27 W/m ² (3.14 W/m ² /100lx)

Flat Bath

Reference plane 5.1

	Horizontal
Em	168 lx
Emin	136 lx
Emin/Em (Uo)	0.81
Emin/Emax (Ud)	0.72
Position	0.00 m

Type No. Make



ANSELL

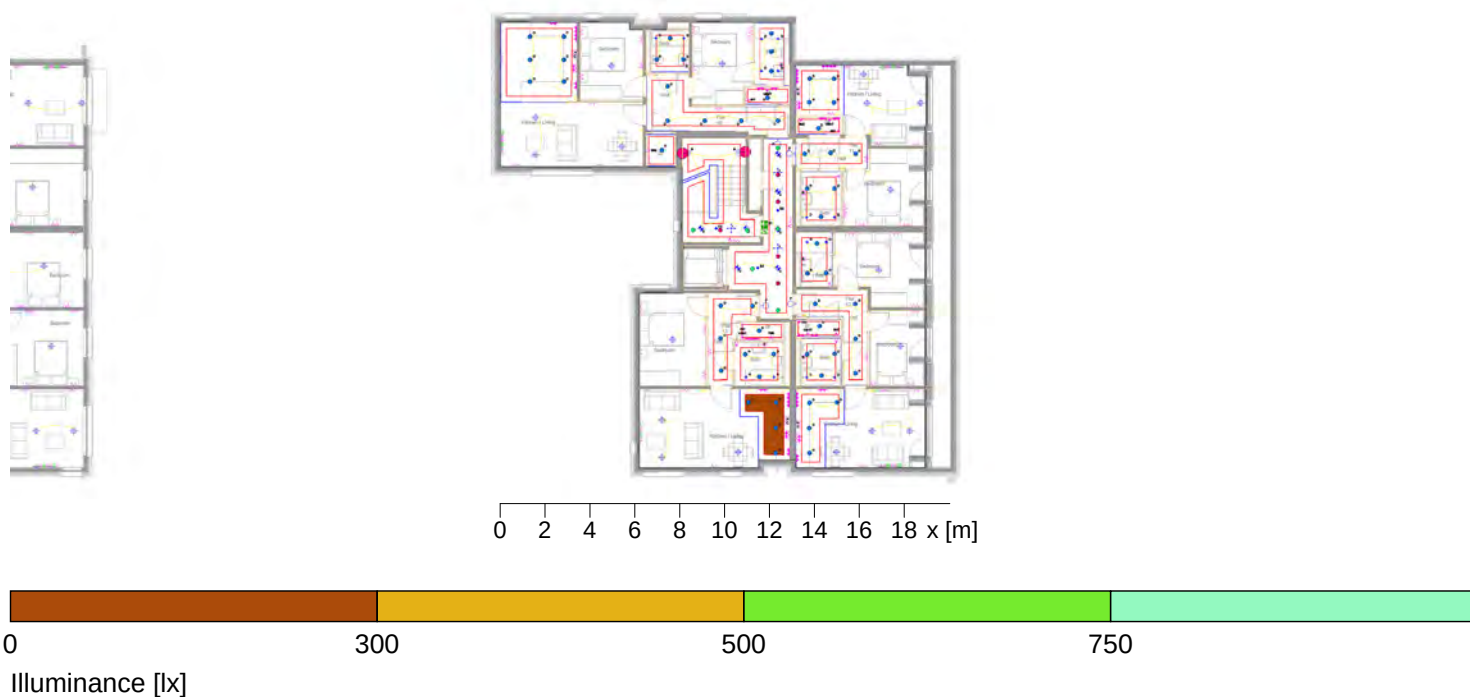
Order No.	: APRILED/WW
Luminaire name	: DISPLAY - Prism LED Fire Rated Downlight
Equipment	: 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



5.2 Summary, Third Floor

5.2.6 Result overview, Flat Kitchen



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (5.44 m²)

2852.00 lm
 29.6 W
 5.44 W/m² (2.33 W/m²/100lx)

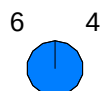
Flat Kitchen

Reference plane 6.1

Horizontal

Em 233 lx
 Emin 196 lx
 Emin/Em (U₀) 0.84
 Emin/Emax (U_d) 0.74
 Position 0.75 m

Type No. Make



ANSELL

Order No. : APRILED/WW
 Luminaire name : DISPLAY - Prism LED Fire Rated Downlight
 Equipment : 1 x LED single 830 7.4 W / 713 lm



5.2 Summary, Third Floor
5.2.7 Result overview, Flat Hall



General	
Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	2852.00 lm
Total power	29.6 W
Total power per area (7.15 m²)	4.14 W/m² (3.43 W/m²/100lx)

Flat Hall	Reference plane 7.1
	Horizontal
Em	121 lx
Emin	79 lx
Emin/Em (Uo)	0.65
Emin/Emax (Ud)	0.55
Position	0.00 m

Type No. Make

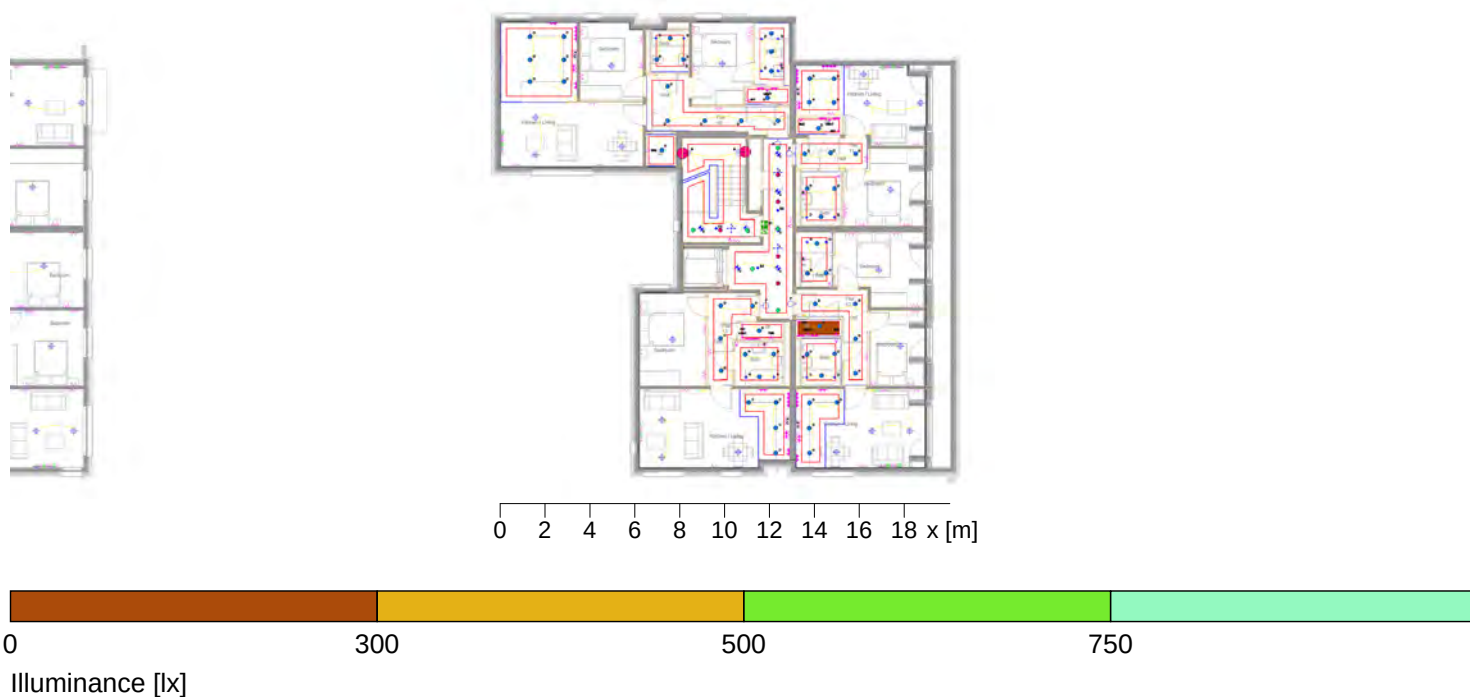
6	4	ANSELL	
		Order No.	: APRILED/WW
		Luminaire name	: DISPLAY - Prism LED Fire Rated Downlight
		Equipment	: 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



5.2 Summary, Third Floor

5.2.8 Result overview, Flat Store



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.80

Total luminous flux of all lamps

713.00 lm

Total power

7.4 W

Total power per area (1.56 m²)

4.76 W/m² (6.80 W/m²/100lx)

Flat Store

Reference plane 8.1

Horizontal

Em 70 lx

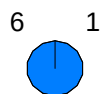
Emin 52 lx

Emin/Em (Uo) 0.74

Emin/Emax (Ud) 0.63

Position 0.00 m

Type No. Make



ANSELL

Order No. : APRILED/WW

Luminaire name : DISPLAY - Prism LED Fire Rated Downlight

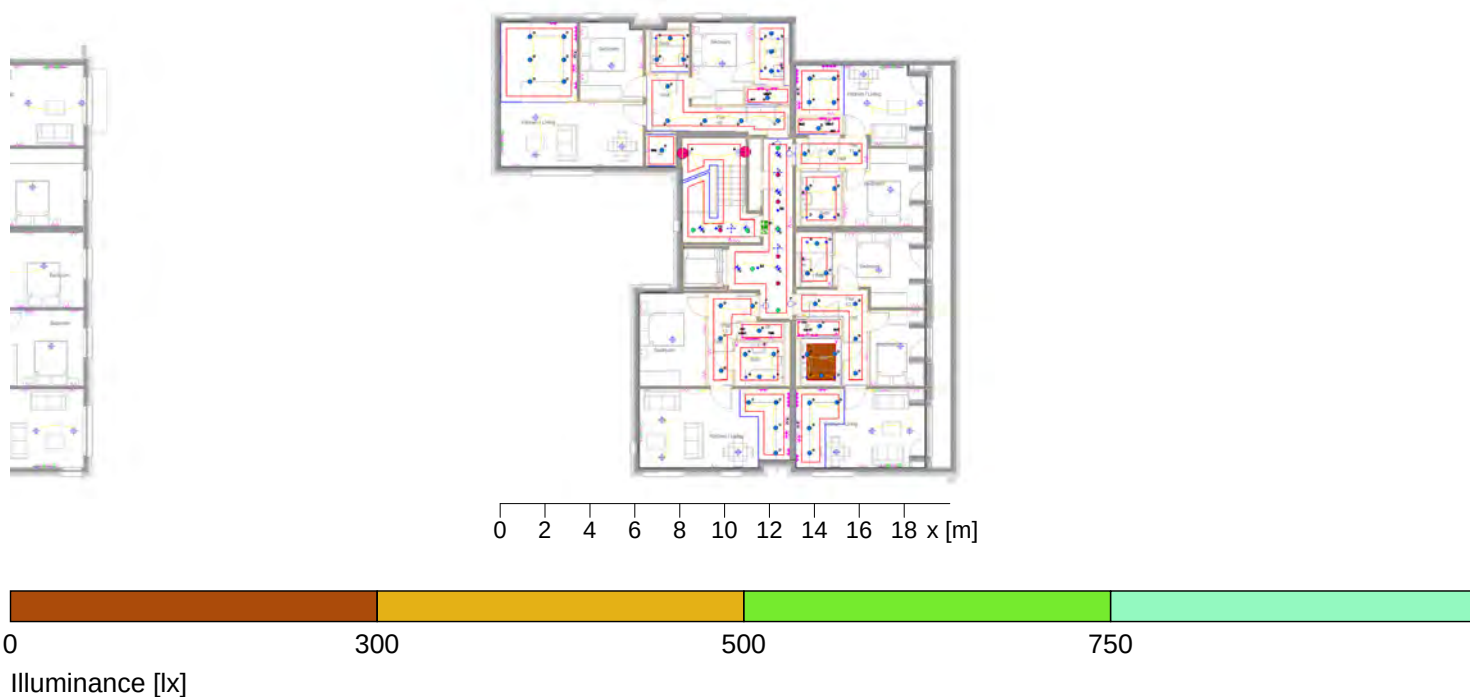
Equipment : 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



5.2 Summary, Third Floor

5.2.9 Result overview, Flat Bath



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (3.78 m²)

2139.00 lm
 22.2 W
 5.87 W/m² (3.37 W/m²/100lx)

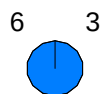
Flat Bath

Reference plane 9.1

Horizontal

Em 174 lx
 Emin 146 lx
 Emin/Em (U₀) 0.84
 Emin/Emax (U_d) 0.75
 Position 0.00 m

Type No. Make



ANSELL

Order No. : APRILED/WW
 Luminaire name : DISPLAY - Prism LED Fire Rated Downlight
 Equipment : 1 x LED single 830 7.4 W / 713 lm



5.2 Summary, Third Floor

5.2.10 Result overview, Flat Kitchen



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	2852.00 lm
Total power	29.6 W
Total power per area (5.90 m²)	5.02 W/m² (2.23 W/m²/100lx)

Flat Kitchen

Reference plane 10.1

	Horizontal
Em	225 lx
Emin	169 lx
Emin/Em (Uo)	0.75
Emin/Emax (Ud)	0.64
Position	0.75 m

Type No. Make

6	4	ANSELL
		Order No. : APRILED/WW
		Luminaire name : DISPLAY - Prism LED Fire Rated Downlight
		Equipment : 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



5.2 Summary, Third Floor

5.2.11 Result overview, Flat Bath



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.80

Total luminous flux of all lamps

2139.00 lm

Total power

22.2 W

Total power per area (3.89 m²)

5.71 W/m² (3.35 W/m²/100lx)

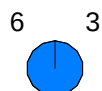
Flat Bath

Reference plane 11.1

Horizontal

Em 170 lx
 Emin 130 lx
 Emin/Em (Uo) 0.76
 Emin/Emax (Ud) 0.67
 Position 0.00 m

Type No. Make



ANSELL

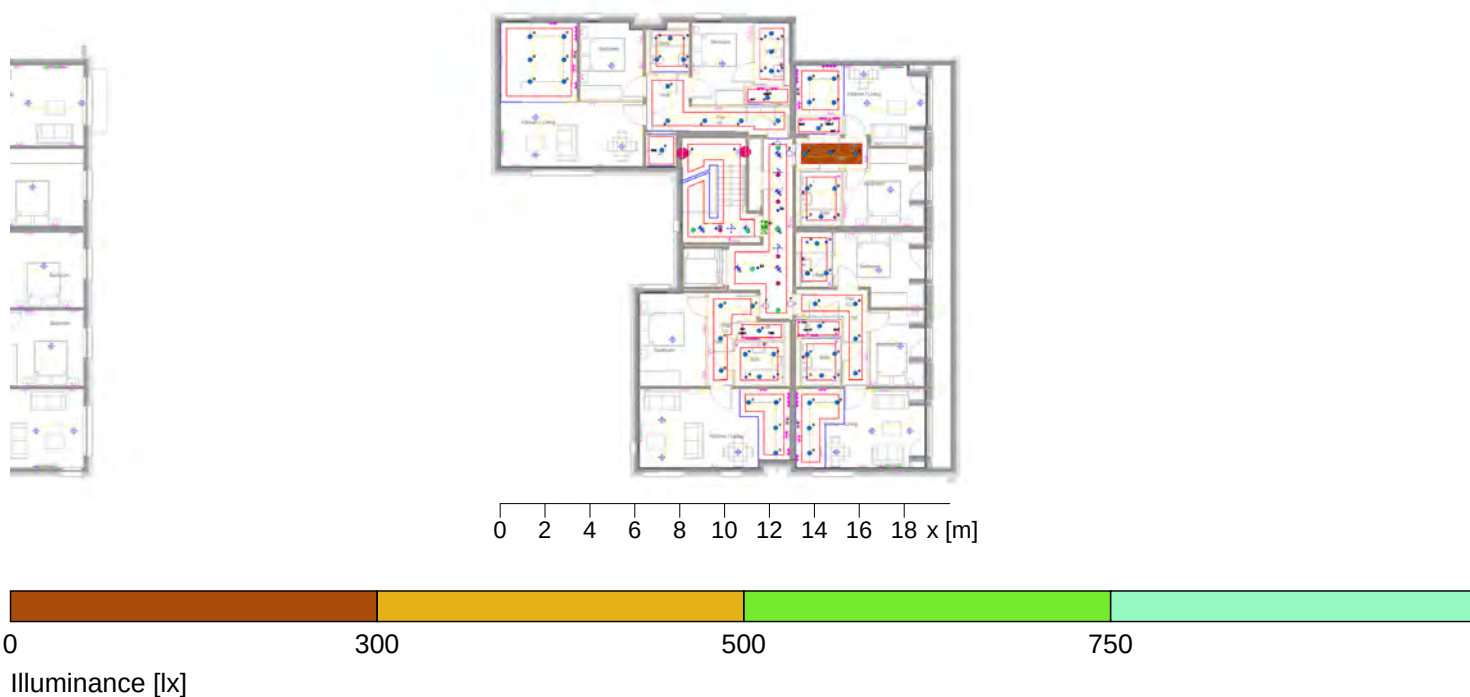
Order No. : APRILED/WW
 Luminaire name : DISPLAY - Prism LED Fire Rated Downlight
 Equipment : 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



5.2 Summary, Third Floor

5.2.12 Result overview, Flat Hall



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (4.41 m²)

2139.00 lm
 22.2 W
 5.04 W/m² (3.39 W/m²/100lx)

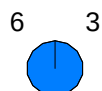
Flat Hall

Reference plane 12.1

Horizontal

Em 149 lx
 Emin 116 lx
 Emin/Em (Uo) 0.78
 Emin/Emax (Ud) 0.68
 Position 0.00 m

Type No. Make



ANSELL

Order No. : APRILED/WW
 Luminaire name : DISPLAY - Prism LED Fire Rated Downlight
 Equipment : 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



5.2 Summary, Third Floor

5.2.13 Result overview, Flat Bath



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	2139.00 lm
Total power	22.2 W
Total power per area (4.34 m ²)	5.12 W/m ² (3.20 W/m ² /100lx)

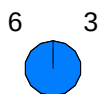
Flat Bath

Reference plane 13.1

Horizontal

Em	160 lx
Emin	133 lx
Emin/Em (Uo)	0.83
Emin/Emax (Ud)	0.74
Position	0.00 m

Type No. Make



ANSELL

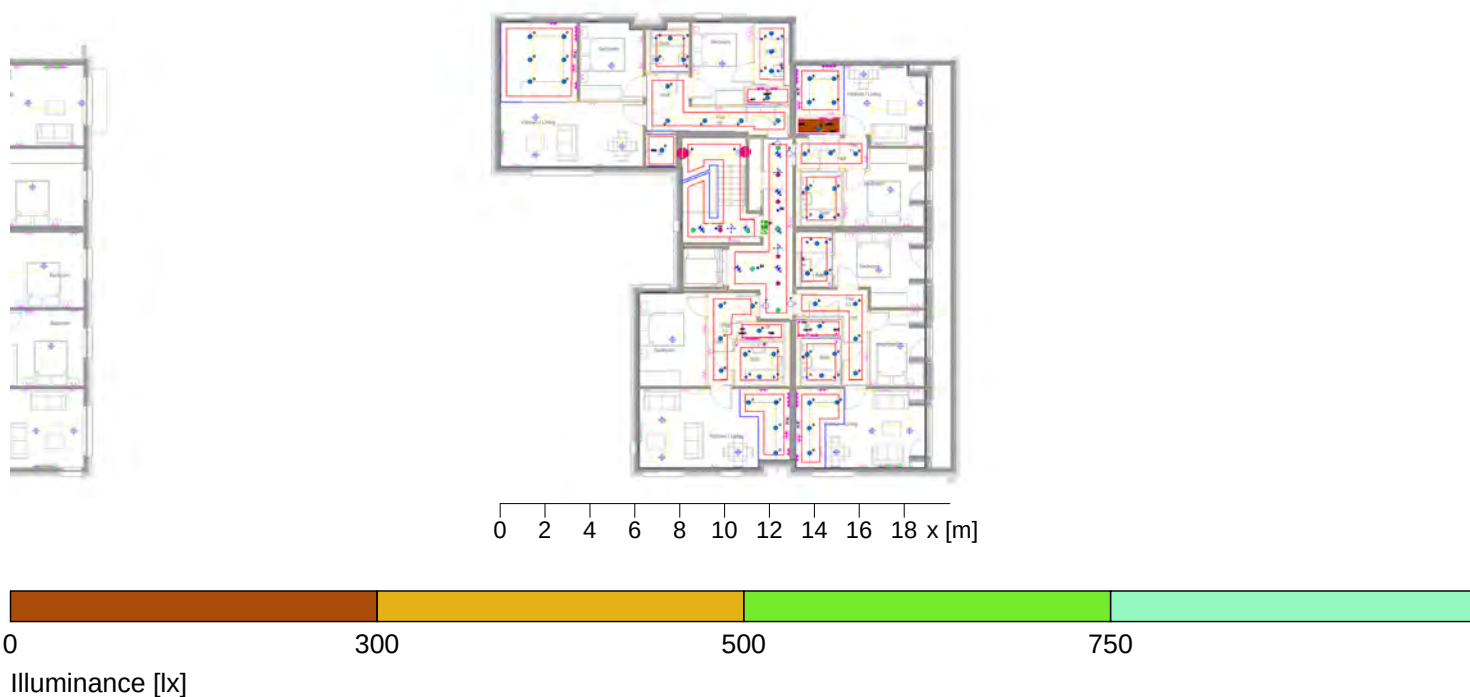
Order No.	: APRILED/WW
Luminaire name	: DISPLAY - Prism LED Fire Rated Downlight
Equipment	: 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



5.2 Summary, Third Floor

5.2.14 Result overview, Flat Store



General

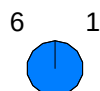
Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	713.00 lm
Total power	7.4 W
Total power per area (1.54 m ²)	4.81 W/m ² (6.66 W/m ² /100lx)

Flat Store

Reference plane 14.1

	Horizontal
Em	72 lx
Emin	59 lx
Emin/Em (Uo)	0.81
Emin/Emax (Ud)	0.70
Position	0.00 m

Type No. Make



ANSELL

Order No.	: APRILED/WW
Luminaire name	: DISPLAY - Prism LED Fire Rated Downlight
Equipment	: 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



5.2 Summary, Third Floor

5.2.15 Result overview, Flat Kitchen



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	2852.00 lm
Total power	29.6 W
Total power per area (4.75 m ²)	6.23 W/m ² (2.15 W/m ² /100lx)

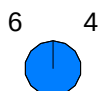
Flat Kitchen

Reference plane 15.1

Horizontal

Em	289 lx
Emin	215 lx
Emin/Em (Uo)	0.74
Emin/Emax (Ud)	0.62
Position	0.75 m

Type No. Make



ANSELL

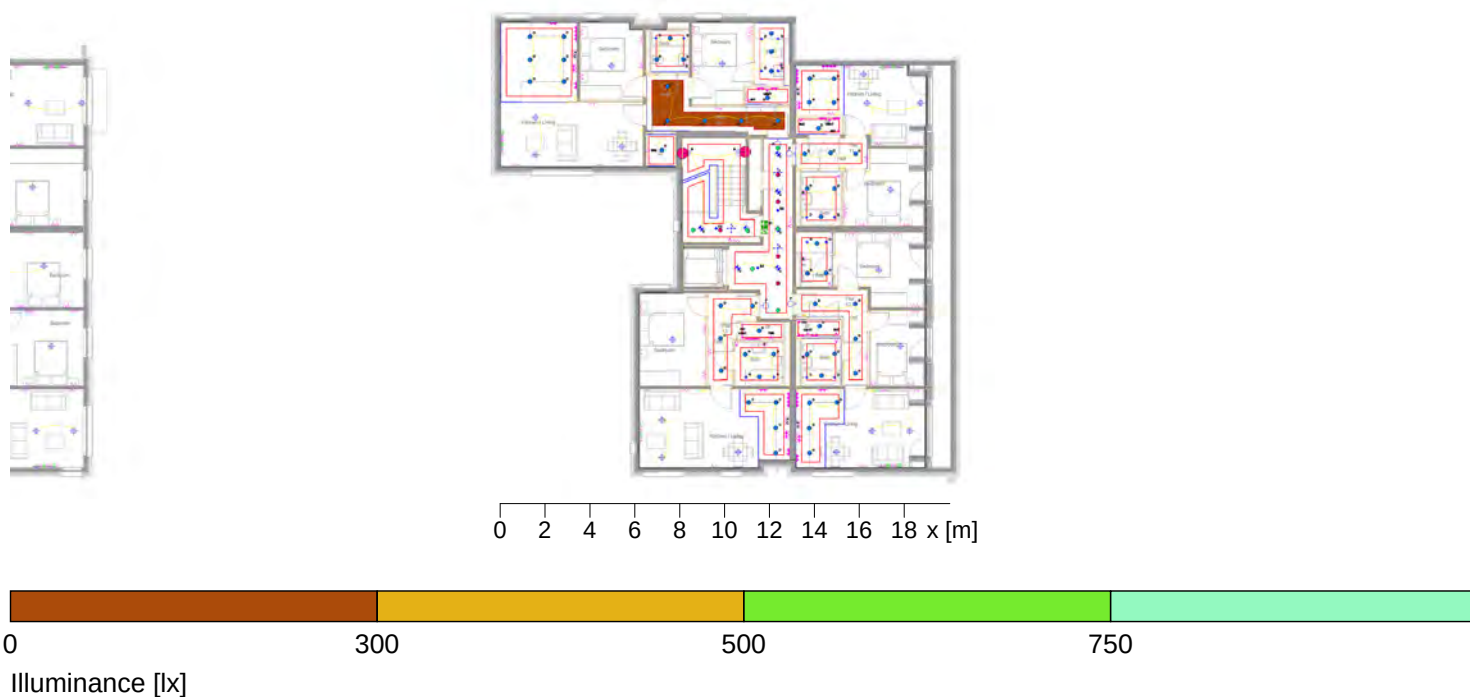
Order No.	: APRILED/WW
Luminaire name	: DISPLAY - Prism LED Fire Rated Downlight
Equipment	: 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



5.2 Summary, Third Floor

5.2.16 Result overview, Flat Hall



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (10.03 m²)

3565.00 lm
 37.0 W
 3.69 W/m² (2.96 W/m²/100lx)

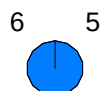
Flat Hall

Reference plane 16.1

Horizontal

Em 125 lx
 Emin 88 lx
 Emin/Em (Uo) 0.71
 Emin/Emax (Ud) 0.60
 Position 0.00 m

Type No. Make



ANSELL

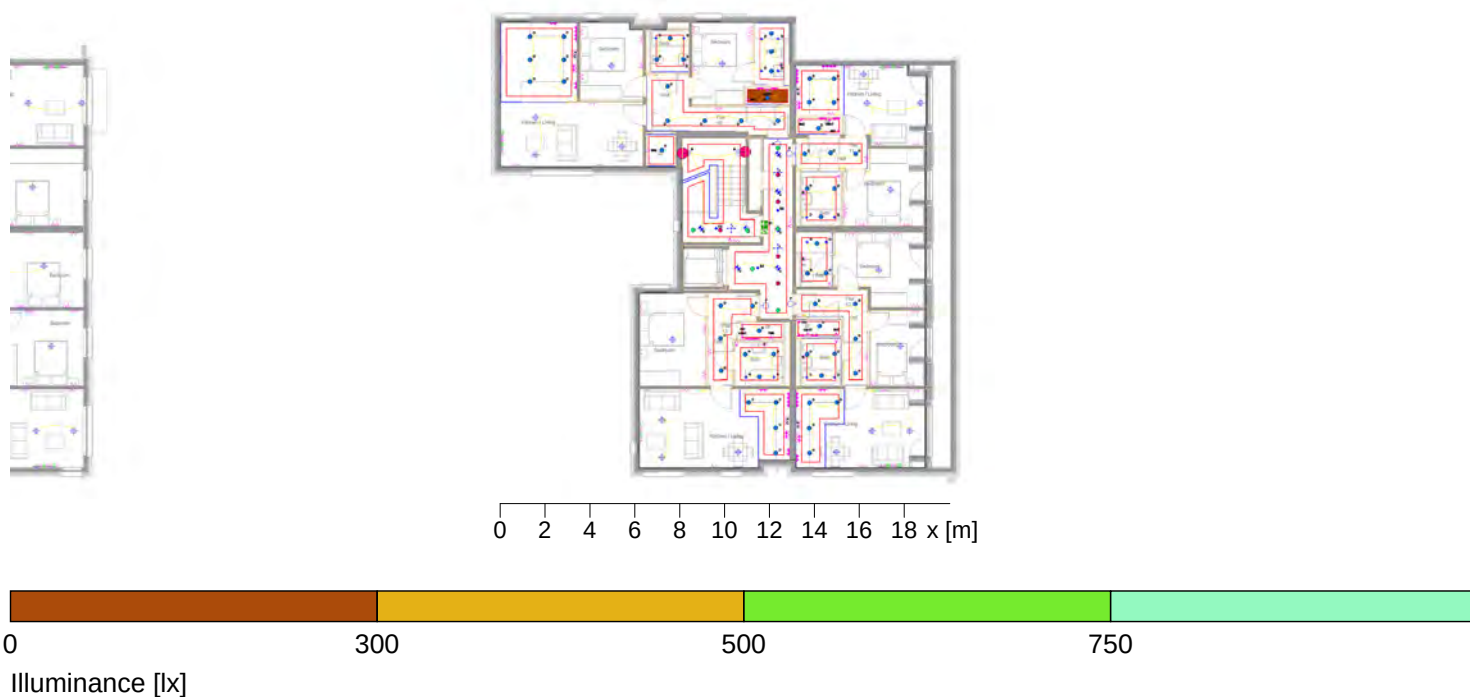
Order No. : APRILED/WW
 Luminaire name : DISPLAY - Prism LED Fire Rated Downlight
 Equipment : 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



5.2 Summary, Third Floor

5.2.17 Result overview, Flat Store



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (1.54 m²)

713.00 lm
 7.4 W
 4.81 W/m² (6.89 W/m²/100lx)

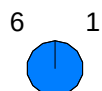
Flat Store

Reference plane 17.1

Horizontal

Em 70 lx
 Emin 56 lx
 Emin/Em (Uo) 0.81
 Emin/Emax (Ud) 0.68
 Position 0.00 m

Type No. Make



ANSELL

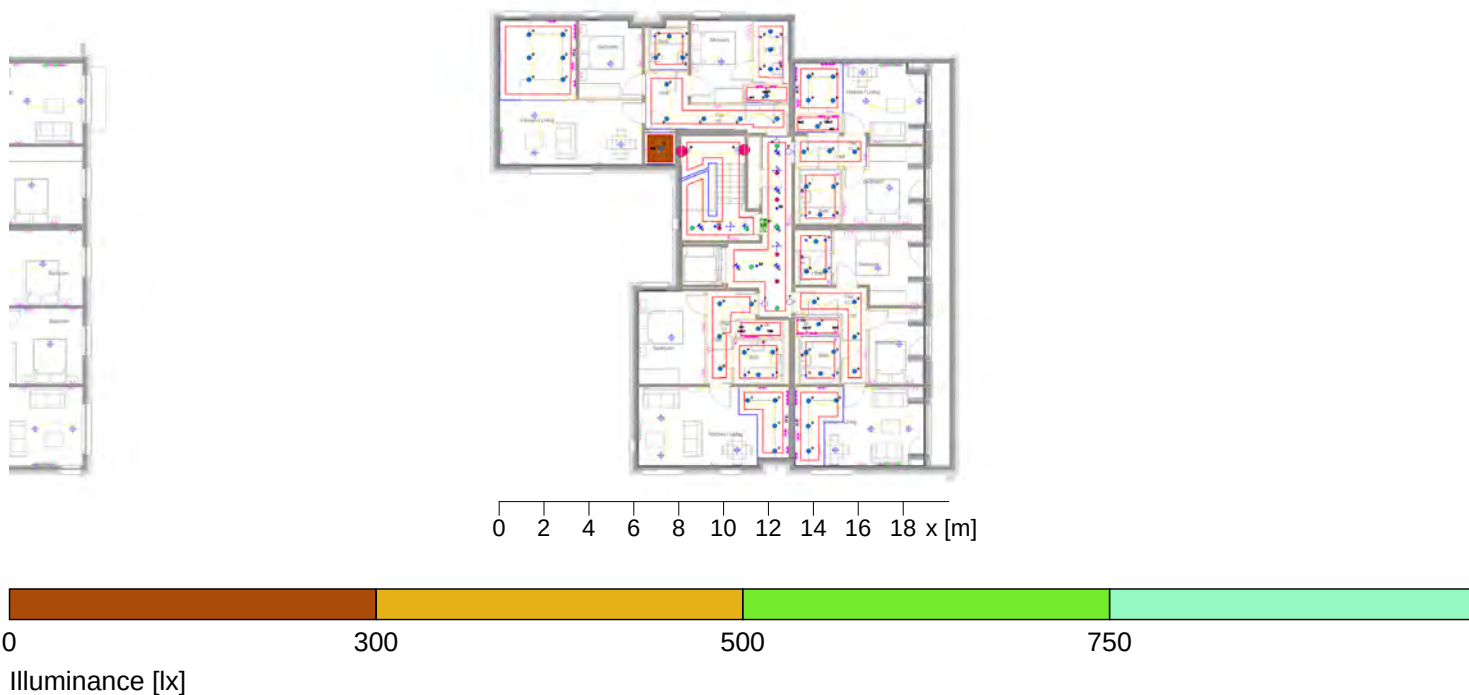
Order No. : APRILED/WW
 Luminaire name : DISPLAY - Prism LED Fire Rated Downlight
 Equipment : 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



5.2 Summary, Third Floor

5.2.18 Result overview, Flat Store



General

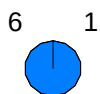
Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	713.00 lm
Total power	7.4 W
Total power per area (1.88 m ²)	3.94 W/m ² (5.20 W/m ² /100lx)

Flat Store

Reference plane 18.1

	Horizontal
Em	76 lx
Emin	65 lx
Emin/Em (Uo)	0.86
Emin/Emax (Ud)	0.76
Position	0.00 m

Type No. Make



ANSELL

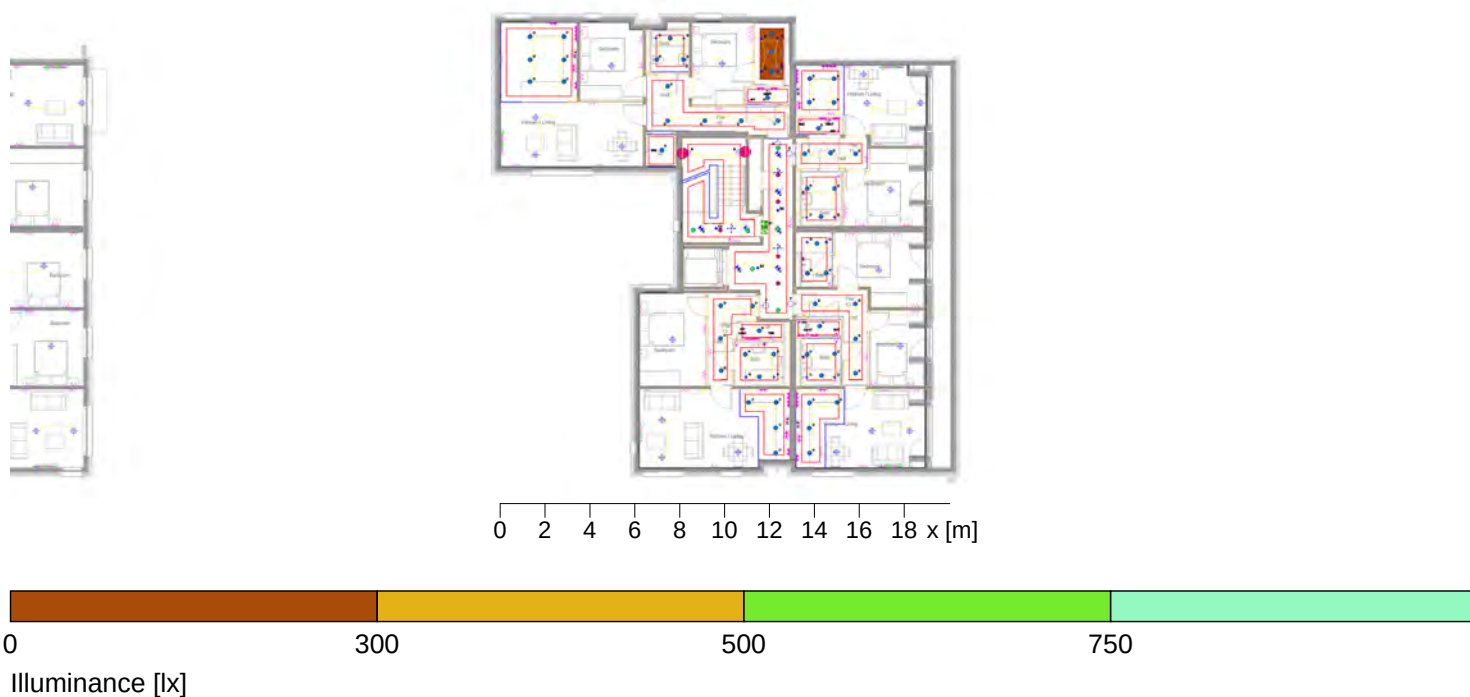
Order No.	: APRILED/WW
Luminaire name	: DISPLAY - Prism LED Fire Rated Downlight
Equipment	: 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



5.2 Summary, Third Floor

5.2.19 Result overview, Flat Bath



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (4.32 m²)

2139.00 lm
 22.2 W
 5.14 W/m² (2.91 W/m²/100lx)

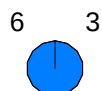
Flat Bath

Reference plane 19.1

Horizontal

Em 177 lx
 Emin 130 lx
 Emin/Em (U₀) 0.74
 Emin/Emax (U_d) 0.63
 Position 0.00 m

Type No. Make



ANSELL

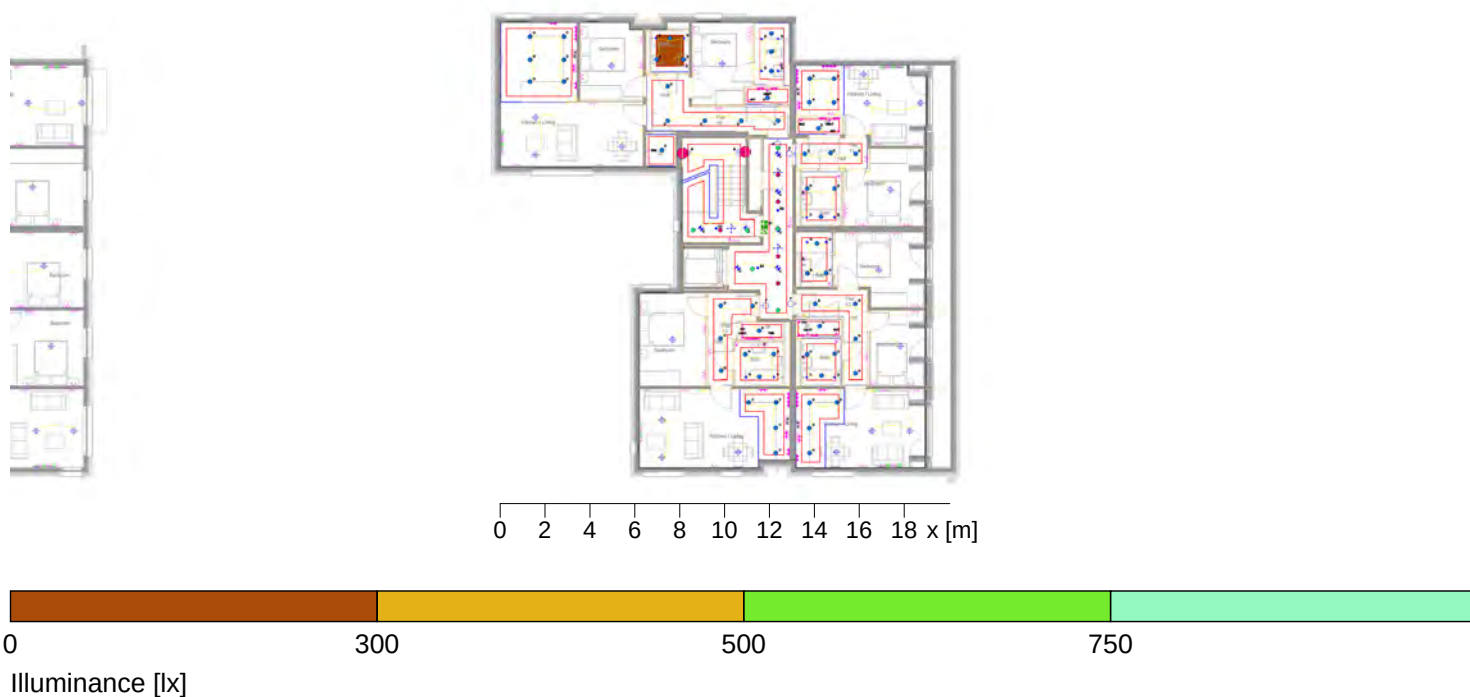
Order No. : APRILED/WW
 Luminaire name : DISPLAY - Prism LED Fire Rated Downlight
 Equipment : 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



5.2 Summary, Third Floor

5.2.20 Result overview, Flat Bath



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (3.22 m²)

2139.00 lm
 22.2 W
 6.89 W/m² (3.78 W/m²/100lx)

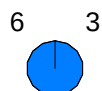
Flat Bath

Reference plane 20.1

Horizontal

Em 182 lx
 Emin 162 lx
 Emin/Em (Uo) 0.89
 Emin/Emax (Ud) 0.82
 Position 0.00 m

Type No. Make



ANSELL

Order No. : APRILED/WW
 Luminaire name : DISPLAY - Prism LED Fire Rated Downlight
 Equipment : 1 x LED single 830 7.4 W / 713 lm

Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



5.2 Summary, Third Floor

5.2.21 Result overview, Flat Kitchen



General

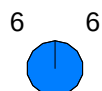
Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	4278.00 lm
Total power	44.4 W
Total power per area (12.04 m ²)	3.69 W/m ² (1.56 W/m ² /100lx)

Flat Kitchen

Reference plane 21.1

	Horizontal
Em	237 lx
Emin	88 lx
Emin/Em (Uo)	0.37
Emin/Emax (Ud)	0.27
Position	0.75 m

Type No. Make



ANSELL

Order No.	: APRILED/WW
Luminaire name	: DISPLAY - Prism LED Fire Rated Downlight
Equipment	: 1 x LED single 830 7.4 W / 713 lm

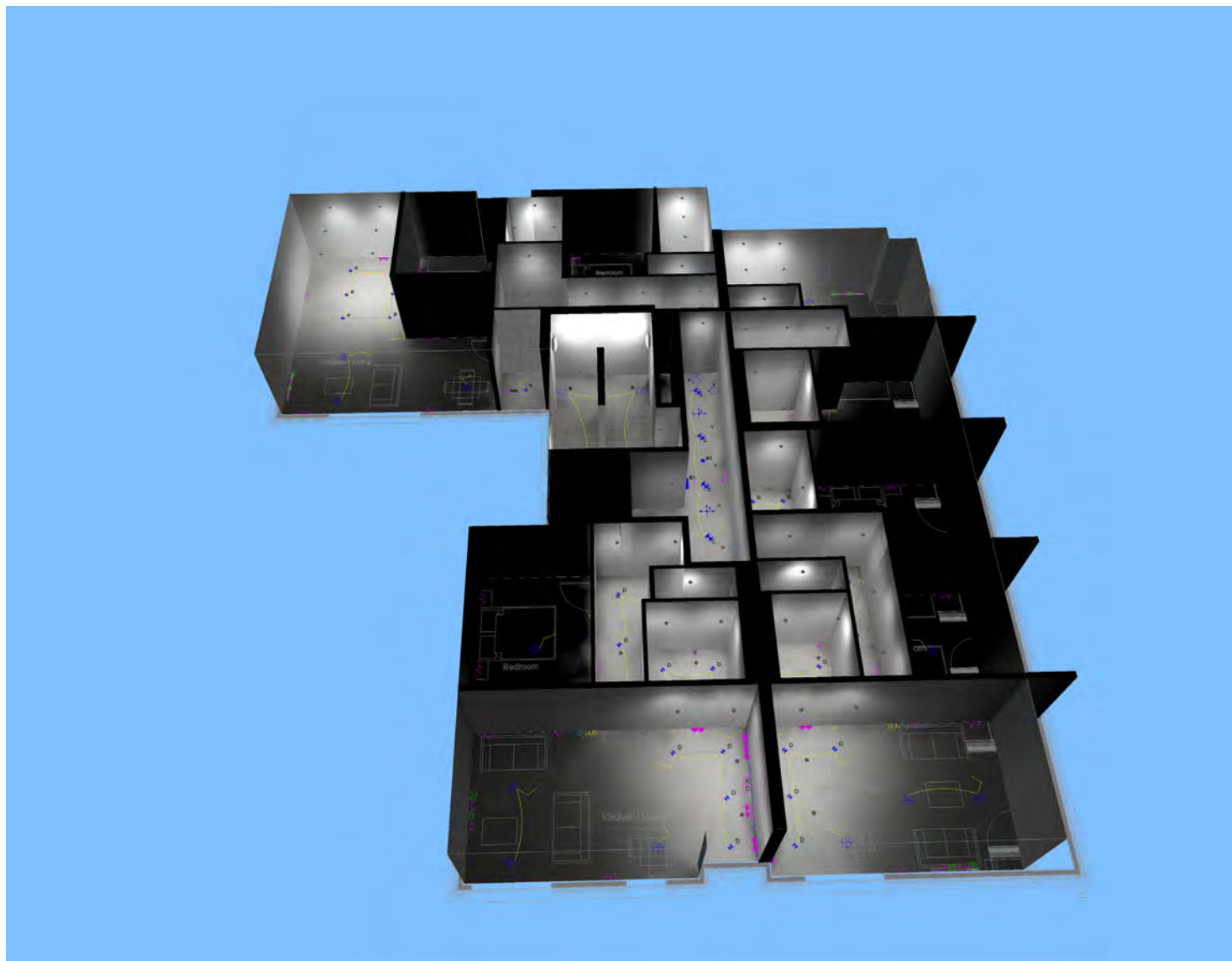
Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



5 Third Floor

5.3 Calculation results, Third Floor

5.3.22 3D luminance, View 1

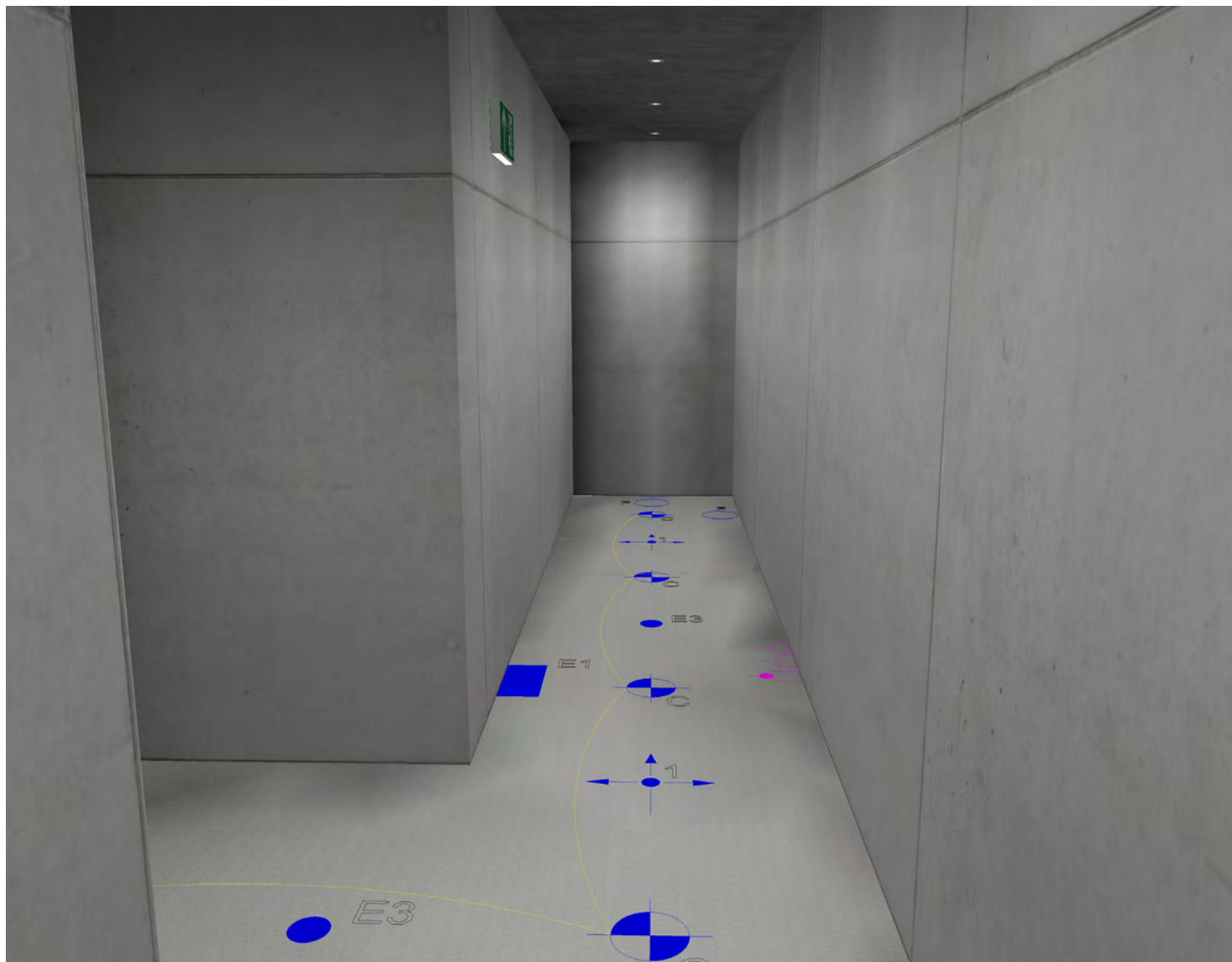


Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



5.3 Calculation results, Third Floor

5.3.23 3D luminance, View 2

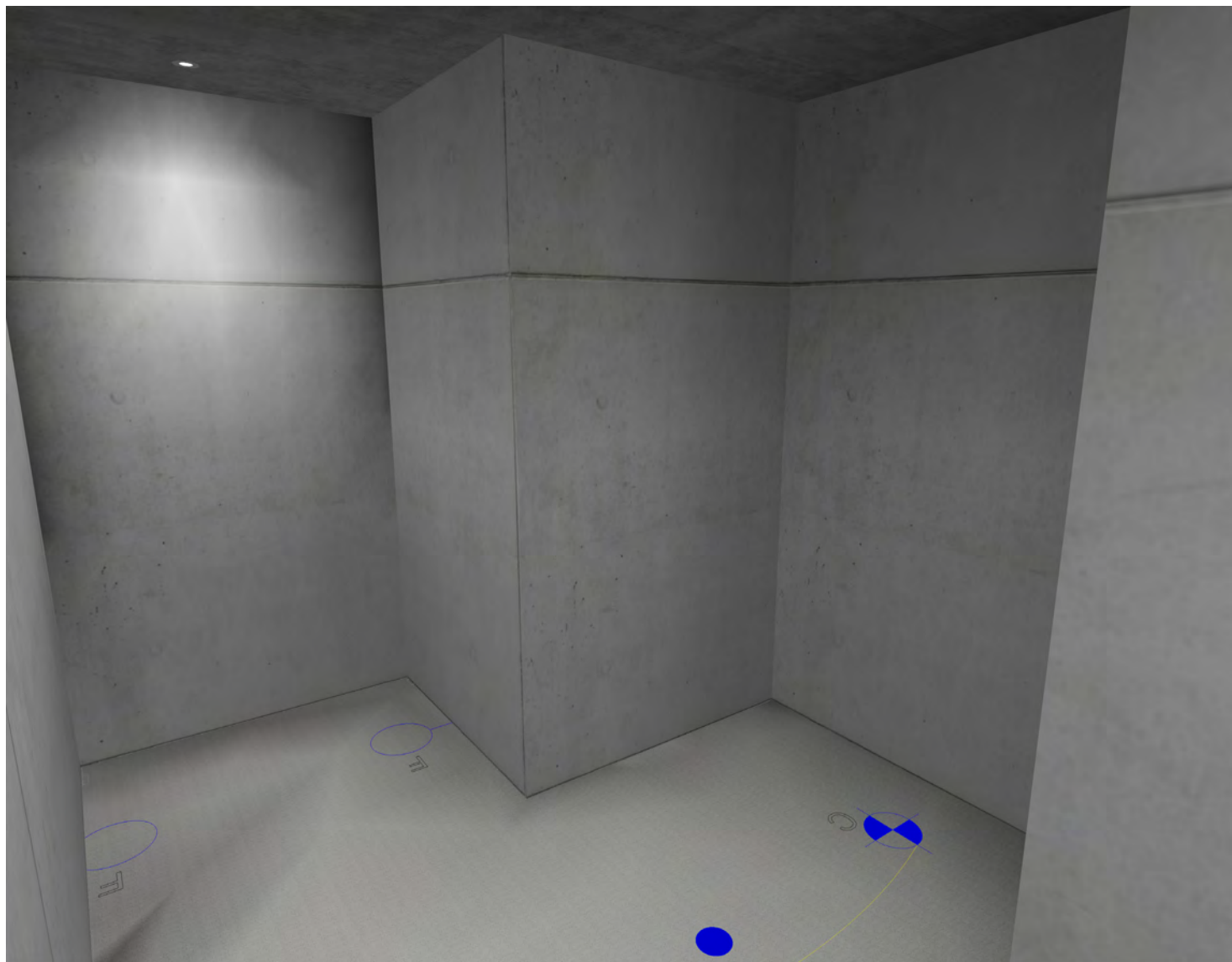


Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



5.3 Calculation results, Third Floor

5.3.24 3D luminance, View 3



Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



5 Third Floor

5.4 Summary, Third Floor

5.4.1 Result overview (emergency lighting)

Type No. Make

1		ANSELL	
		Order No.	: AECLED/W/CCT/M3-25W-CW
2		Luminaire name	: AMENITY - Eclipse MultiLED CCT
		Equipment	: 1 x 1 W / 162 lm
2		Order No.	: AENLED/3M/W -- Emergency Lighting --
1		Luminaire name	: EMERGENCY - Encore LED Exit Sign
		Equipment	: 1 x LED 2.6 W / 20 lm
13		Order No.	: !APRILEDP/WW+ACFLP/3
6		Luminaire name	: DISPLAY - Prism Pro LED Fire Rated Downlight
		Equipment	: 1 x LED single 830 6.5 W / 478 lm

Result evaluation area

Calculation algorithm used: Direct component
 Maintenance factor: 0.8

Emergency area:

No.	Default[lx]	Emin[lx]	Surface Emax[lx]	Diversity	Height
Stairs					
1	1.0	2.0	46.0	1: 22.62	0.00
Corridor					
2	1.0	23.4	61.2	1: 2.61	0.00



Ansell
LIGHTING

6.1.1 Floor plan

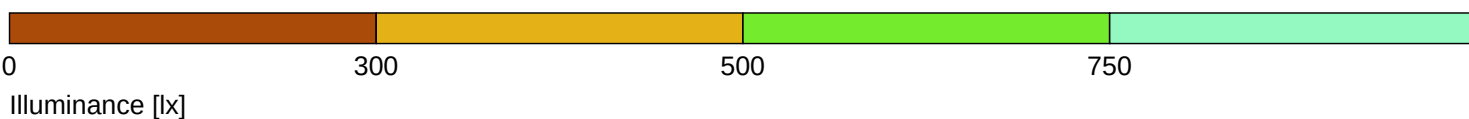
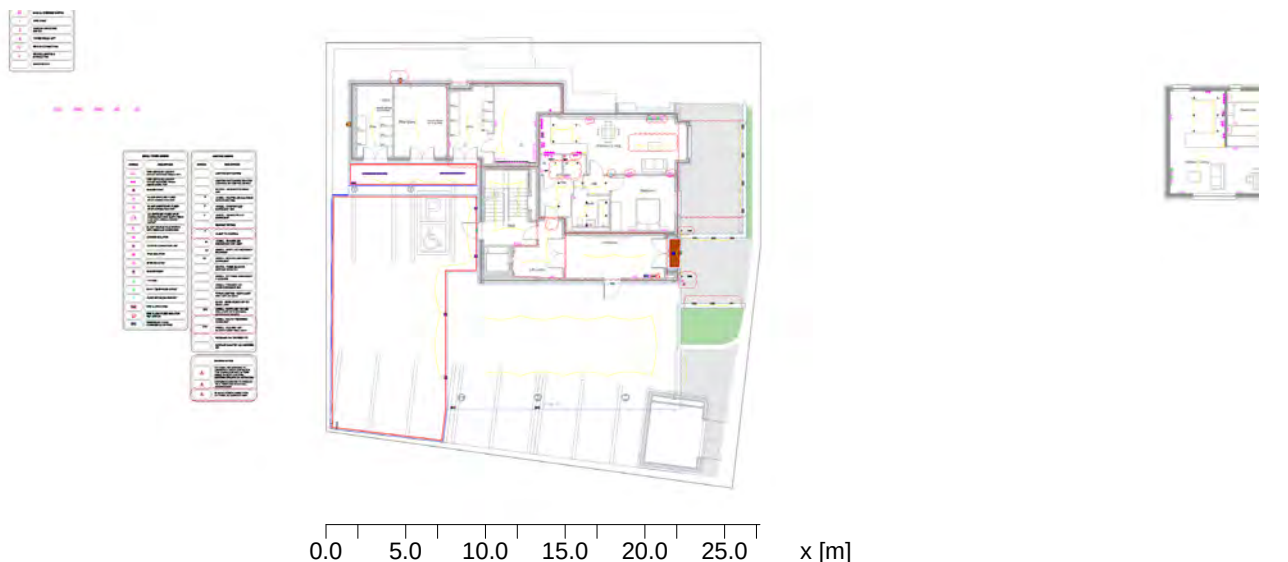
Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



6 Exterior

6.2 Summary, Exterior

6.2.1 Result overview, Entrance



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (1.52 m²)

2090.00 lm
 19.0 W
 12.53 W/m² (10.25 W/m²/100lx)

Entrance

Reference plane 3.1

Horizontal
 Em 122 lx
 Emin 96 lx
 Emin/Em (Uo) 0.79
 Emin/Emax (Ud) 0.60
 Upward light ratio (ULR) 0.12
 Position 0.00 m

Type No. Make

ANSELL

3 1



Order No. : ASWLED/3M -- Emergency Lighting --
 Luminaire name : EMERGENCY - Swift LED Bulkhead
 Equipment : 1 x LED 4 W / 195 lm (0%)

7 1



Order No. : AGALED/1/CCT/CW
 Luminaire name : DISPLAY - Galaxy CCT LED Downlight
 Equipment : 1 x LED 15 W / 1895 lm

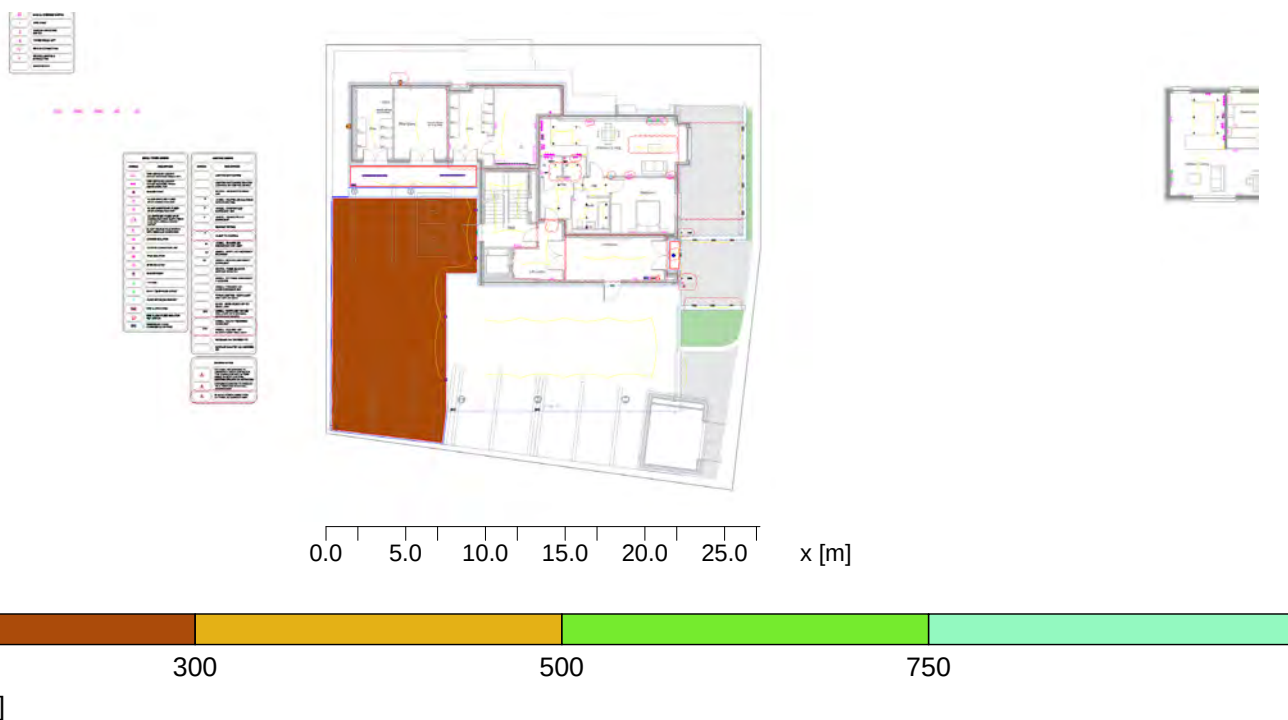
Produced By
 Ansell Lighting Design Department

Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



6.2 Summary, Exterior

6.2.2 Result overview, Uncovered Carpark



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (118.31 m²)

14355.00 lm
 124.0 W
 1.05 W/m² (2.26 W/m²/100lx)

Uncovered Carpark

Reference plane 1.1

Horizontal

Em 46 lx
 Emin 11 lx
 Emin/Em (Uo) 0.24
 Emin/Emax (Ud) 0.10
 Upward light ratio (ULR) 0.12
 Position 0.00 m

Type No. \ Make

ANSELL

3 1
 Order No. : ASWTLED/3M -- Emergency Lighting --
 Luminaire name : EMERGENCY - Swift LED Bulkhead
 Equipment : 1 x LED 4 W / 195 lm (0%)

8 4
 Order No. : AVFLED30
 Luminaire name : FLOODLIGHTING - Vaste LED Floodlight
 Equipment : 1 x LED 30 W / 3540 lm

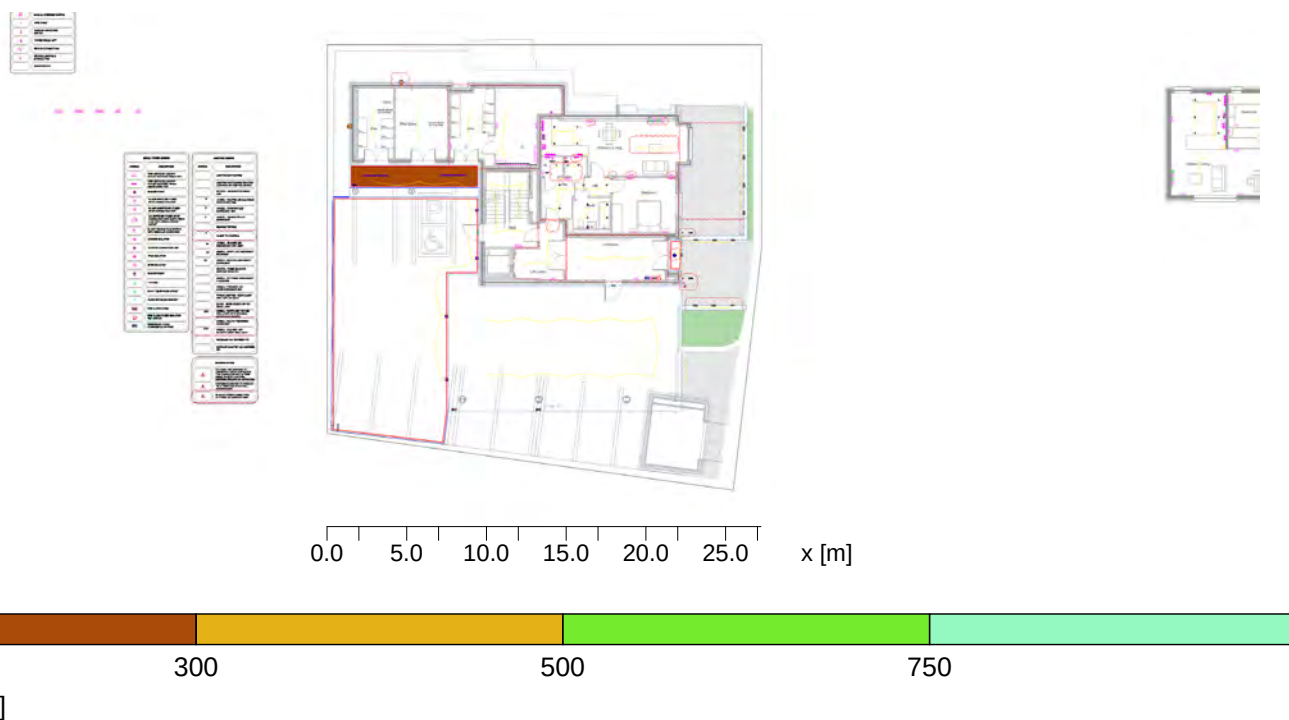
Produced By
 Ansell Lighting Design Department

Object : Withington Apartments
 Installation : Proposed New Installation
 Project number : QUO-39813-T5G5Q8
 Date : 30.10.2020



6.2 Summary, Exterior

6.2.3 Result overview, Bin Store Lobby



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (11.71 m²)

6842.00 lm
 64.0 W
 5.46 W/m² (4.39 W/m²/100lx)

Bin Store Lobby

Reference plane 2.1

Horizontal

Em 125 lx
 Emin 79 lx
 Emin/Em (Uo) 0.63
 Emin/Emax (Ud) 0.42
 Upward light ratio (ULR) 0.12
 Position 0.00 m

Type No. Make

5	2	ANSELL	
		Order No.	: ATORPLED5/M3
		Luminaire name	: INDUSTRIAL - Tornado Pro LED Non-Corrosive
		with	: 1 x ATORPLED/5
		Equipment	: 1 x 29 W / 3209 lm
		with	: 1 x ATORPLED EM Module
		Equipment	: 1 x LED 3 W / 212 lm (0%)

Object : Withington Apartments
Installation : Proposed New Installation
Project number : QUO-39813-T5G5Q8
Date : 30.10.2020



6 Exterior

6.3 Calculation results, Exterior

6.3.4 3D luminance, View 1

