



LIGHTING DESIGNER: AMY SMITH

CONTACT NUMBER: 01942 433514

PROJECT NUMBER: QUO-646508-J6M6TL

**PROJECT TITLE: WOODHEAD HALL FARM -
RESIDENTIAL DEVELOPMENT (M) - Rev A**



Designed to Deliver

Ansell Lighting Design Department

Ansell Electrical Products Ltd
Unit 6B, Stonecross Industrial Park
Yew Tree Way
Warrington
WA3 3JD



Category	Downlights
Application	Ancillary, Hospitality, Residential, Retail
Specification	Architectural

Prism Pro Fire Rated

Prism Pro CCT Fire Rated Downlight Dual Wattage

Code: APRIP/1



PRODUCT FEATURES

- IP65 dimmable LED Fire Rated Downlight suitable for residential and hospitality applications
- New innovative 2 part detachable connector design allows initial wiring and testing to be completed first, then simply plug the downlight back to the connector, ensuring a quick and simple installation
- Low profile design and remote driver allows installation into shallow ceiling voids
- Fully tested to meet Part C (moisture), Part E (acoustic) and Part L (energy) of Building Regulations
- CCT selectable between 2700K, 3000K, 4000K and 6000K and power selectable; offering a choice of 2 outputs, in one luminaire
- Remote driver with 2x1.5mm + CPC loop-in, loop-out colour coded push fit piano terminals provide an easy and efficient installation
- Fully tested for 30, 60 and 90 minute ceiling types to meet Part B of Building Regulations
- Wide 65° beam angle for increased light distribution

GENERAL INFORMATION

Wattage	5W - 7W
Lumens Delivered	560lm - 740lm
Lm/W	110lm/W - 105lm/W
Beam Angle	65
CRI	80
CCT	2700/3000/4000/6000K
Input	220-240V
Operating Temp	-20°C - 35°C
SDCM	6
UGR	25
Cut-Out Size	73mm
Product Weight without Packaging	0.285 kg

TECHNICAL INFORMATION

Light Source	LED
Colour / Finish	White
Fire Rated	Yes
IP Rating	IP65
Class Protection	1
Internal / External	Internal
Surface / Recessed / Suspended	Recessed
Lumen Depreciation	L70 60,000h
Warranty (Years)	5
CE Mark	Yes
Diameter	90 mm
Height	62 mm

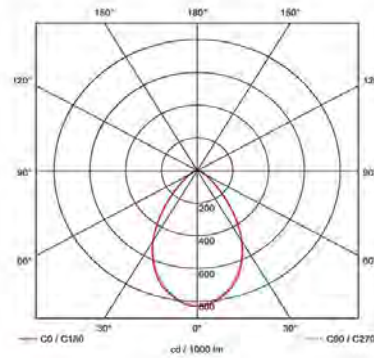
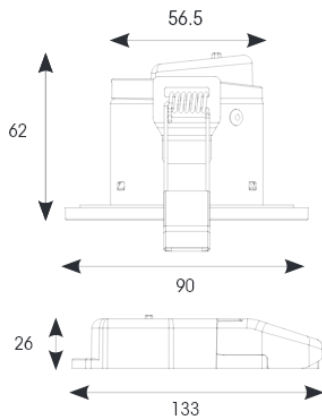


Category	Downlights
Application	Ancillary, Hospitality, Residential, Retail
Specification	Architectural

Prism Pro Fire Rated

Prism Pro CCT Fire Rated Downlight Dual Wattage

Code: APRIP/1



ACCESSORIES

APRILEDPBZ/BLK	Prism Pro Matt Black Bezel
APRILEDPBZ/SC	Prism Pro Satin Chrome Bezel
APRILEDPBZ/CH	Prism Pro Chrome Bezel
ACFLP/3	LED Emergency Lighting Pack Maintained / Non-Maintained





Category	Wall Lights
Application	Hospitality, Outdoor, Residential, Retail
Specification	Architectural

Latina Wall Lantern

Latina Wall Lantern PIR Black

Code: ALWLLED/PIR/BL

PRODUCT FEATURES

- LED light bar for uniform light output
- Unique design provides installer with option of top arm or bottom arm mounting, without the need of additional wiring (PIR version bottom arm mounting only)
- PIR option for convenience and security. Incorporates manual override option
- Non-dimmable
- LED light bar for uniform light output
- Textured polycarbonate finish and tinted lens
- Colour matching PIR lens ensures discreet appearance

GENERAL INFORMATION

Wattage	8W
Lumens Delivered	550lm
Lm/W	68lm/W
Beam Angle	360
CRI	80
CCT	3000K
Input	220-240V
Operating Temp	-10°C - 40°C
SDCM	6
Product Weight without Packaging	0.61 kg

TECHNICAL INFORMATION

Light Source	LED
Colour / Finish	Black
IP Rating	IP65
Class Protection	2
Internal / External	External
Surface / Recessed / Suspended	Wall
Lumen Depreciation	L70 60,000h
Warranty (Years)	3
CE Mark	Yes
Height	410 mm
Accessories	ALWL/CBB

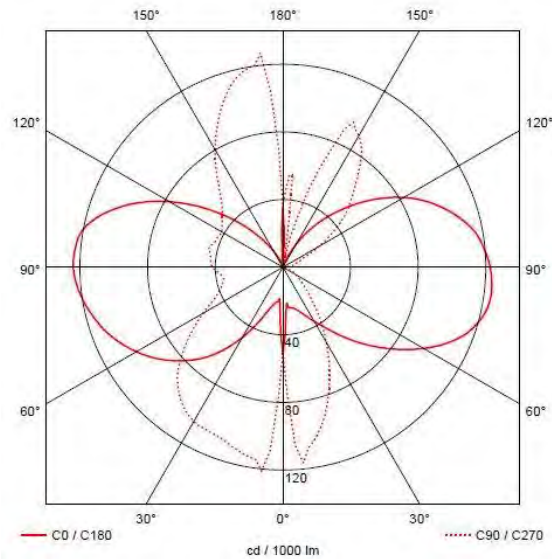
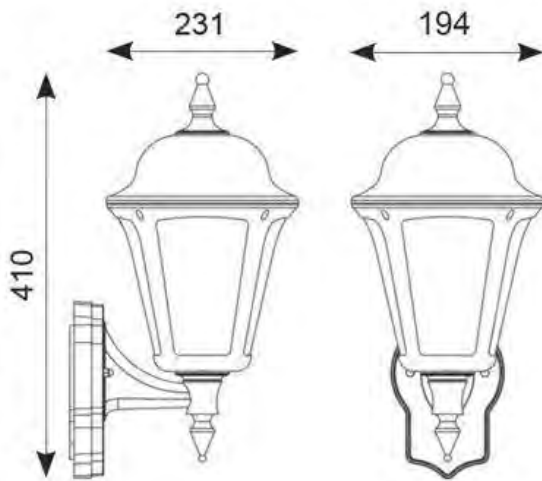




Category	Wall Lights
Application	Hospitality, Outdoor, Residential, Retail
Specification	Architectural

Latina Wall Lantern

Latina Wall Lantern PIR Black
Code: ALWLLED/PIR/BL



ACCESSORIES

ALWL/CBB

Latina Wall Lantern Corner Bracket Accessory Black





Woodhead Hall Farm - Residential Development (M)

Installation : Proposed New Lighting

Project number : QUO-646508-J6M6TL

Customer : Independent Elect W/Sale Ltd

Processed by : Amy Smith

Date : 31.01.2025 Rev A

Project description:

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

Calculation based on standard reflectance values as 70/50/20 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.

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

Please note - This design has been completed without emergency lighting as this is residential and there is no requirement for emergency lighting. Please ensure all information is checked before ordering.

Rev A - Added the external wall light as per the customers request.

The following values are based on precise calculations performed on calibrated lamps and luminaires, and their configurations, whereby gradual, unavoidable deviations can occur in practice. All guarantee claims are excluded for the specified data.

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



1 Luminaire data

1.1 ANSELL, DOWNLIGHTS - Prism Pro... (APRIP/1 (5W 4000K))

1.1.1 Data sheet

Manufacturer: ANSELL



APRIP/1 (5W 4000K) Recessed luminaire DOWNLIGHTS - Prism Pro Dual Wattage

APRIP/1
 DISPLAY
 Prism Pro LED Fire Rated Downlight Dual Wattage
 Supplied c/w Remote Driver

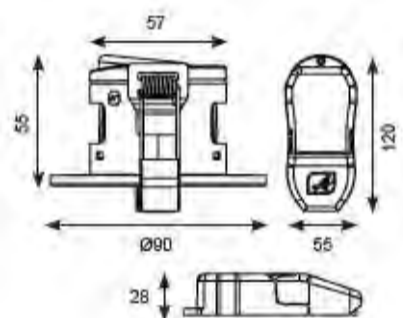
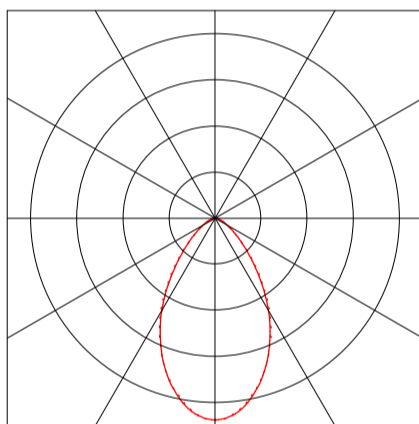
- IP65 dimmable LED Fire Rated Downlight suitable for residential and hospitality applications
- CCT selectable between 2700K, 3000K, 4000K and 6000K ,and power selectable; offering a choice of 2 outputs, in one ,luminaire
- New innovative 2 part detachable connector design allows ,initial wiring and testing to be completed first, then ,simply plug the downlight back to the connector, ensuring a quick ,and simple installation
- Remote driver with 2x1.5mm² + CPC loop-in, loop-out ,colour coded push fit piano terminals provide an easy and efficient installation
- Low profile design and remote driver allows 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), Part E (acoustic) and Part L (energy) of Building Regulations
- Wide 65° beam angle for increased light distribution

Luminaire data

Absolute Photometry	
Luminaire efficacy	: 120.51 lm/W
Classification	: A60 ↓100.0% ↑0.0%
CIE Flux Codes	: 75 94 99 100 106
UGR 4H 8H	: 26.1 / 26.3
Control gear	: Electronic ballast
Power	: 5 W
Luminous flux	: 602.6 lm
Dimensions	: Ø90 mm x 0.0 mm

Equipped with

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





1 Luminaire data

1.2 ANSELL, DOWNLIGHTS - Prism Pro... (APRIP/1 (7W 4000K))

1.2.1 Data sheet

Manufacturer: ANSELL



APRIP/1 (7W 4000K) Recessed luminaire DOWNLIGHTS - Prism Pro Dual Wattage

APRIP/1
 DISPLAY
 Prism Pro LED Fire Rated Downlight Dual Wattage
 Supplied c/w Remote Driver

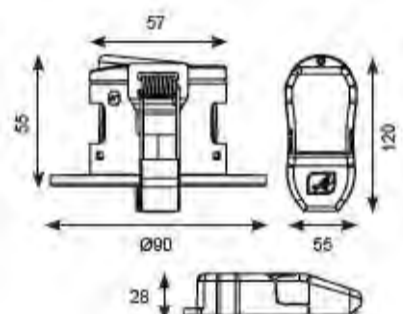
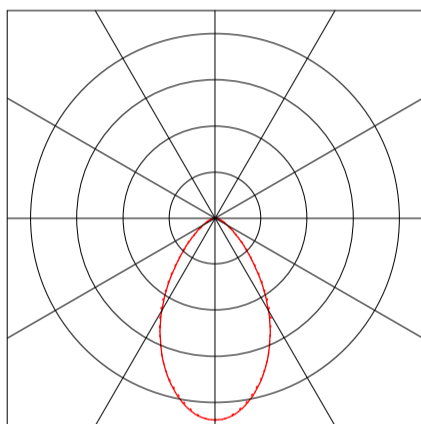
- IP65 dimmable LED Fire Rated Downlight suitable for residential and hospitality applications
- CCT selectable between 2700K, 3000K, 4000K and 6000K ,and power selectable; offering a choice of 2 outputs, in one ,luminaire
- New innovative 2 part detachable connector design allows ,initial wiring and testing to be completed first, then ,simply plug the downlight back to the connector, ensuring a quick ,and simple installation
- Remote driver with 2x1.5mm² + CPC loop-in, loop-out ,colour coded push fit piano terminals provide an easy and efficient installation
- Low profile design and remote driver allows 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), Part E (acoustic) and Part L (energy) of Building Regulations
- Wide 65° beam angle for increased light distribution

Luminaire data

Absolute Photometry	
Luminaire efficacy	: 112.07 lm/W
Classification	: A60 ↓100.0% ↑0.0%
CIE Flux Codes	: 75 94 99 100 106
UGR 4H 8H	: 27.0 / 27.2
Control gear	: Electronic ballast
Power	: 7 W
Luminous flux	: 784.5 lm
Dimensions	: Ø90 mm x 0.0 mm

Equipped with

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





1 Luminaire data

1.3 ANSELL, WALL LIGHTS - Latina Wal... (!ALWLLED/PIR/BL)

1.3.1 Data sheet

Manufacturer: ANSELL



!ALWLLED/PIR/BL Ceiling mounted luminaire WALL LIGHTS - Latina Wall Lantern

ALWLLED/BL
 AMENITY
 Latina LED Wall Lantern
 LED 8W - Warm White - Black

Supplied c/w Integral Driver

- Contemporary IP65 polycarbonate lantern range and resistant to corrosion
- LED light bar for uniform light output
- Unique design provides installer with option of top arm or bottom arm mounting, without the need of additional wiring (PIR version bottom arm mounting only)
- Textured polycarbonate finish and tinted lens
- PIR option for convenience and security. Incorporates manual override option
- Colour matching PIR lens ensures discreet appearance
- LED lifespan L70 56,000 hours
- Non-dimmable

Accessories

ALWL/CBB Wall Lantern Corner Bracket Black
 ALWL/CBW Wall Lantern Corner Bracket White

- Suitable for external use only
- 3 Year Product Warranty
- IP65

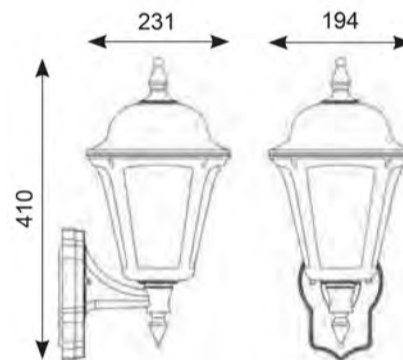
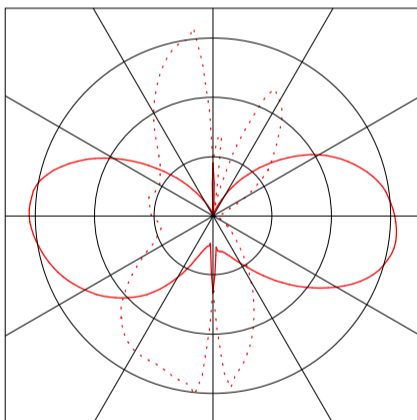
Luminaire data

Luminaire efficiency : 73.8276%
 Luminaire efficacy : 68.48 lm/W
 Classification : C11 ↓50.8% ↑49.2%
 CIE Flux Codes : 23 47 73 51 74
 UGR 4H 8H : 21.4 / 15.8
 Control gear : Electronic ballast
 Power : 8 W
 Luminous flux : 547.8 lm

Equipped with

Quantity : 1
 Designation : LED
 Colour :
 Luminous flux : 742 lm
 Socket : --

Dimensions : Ø212 mm x 400 mm





2 New Cottages - Ground Floor

2.1 Description, New Cottages - Ground Floor

2.1.1 Floor plan

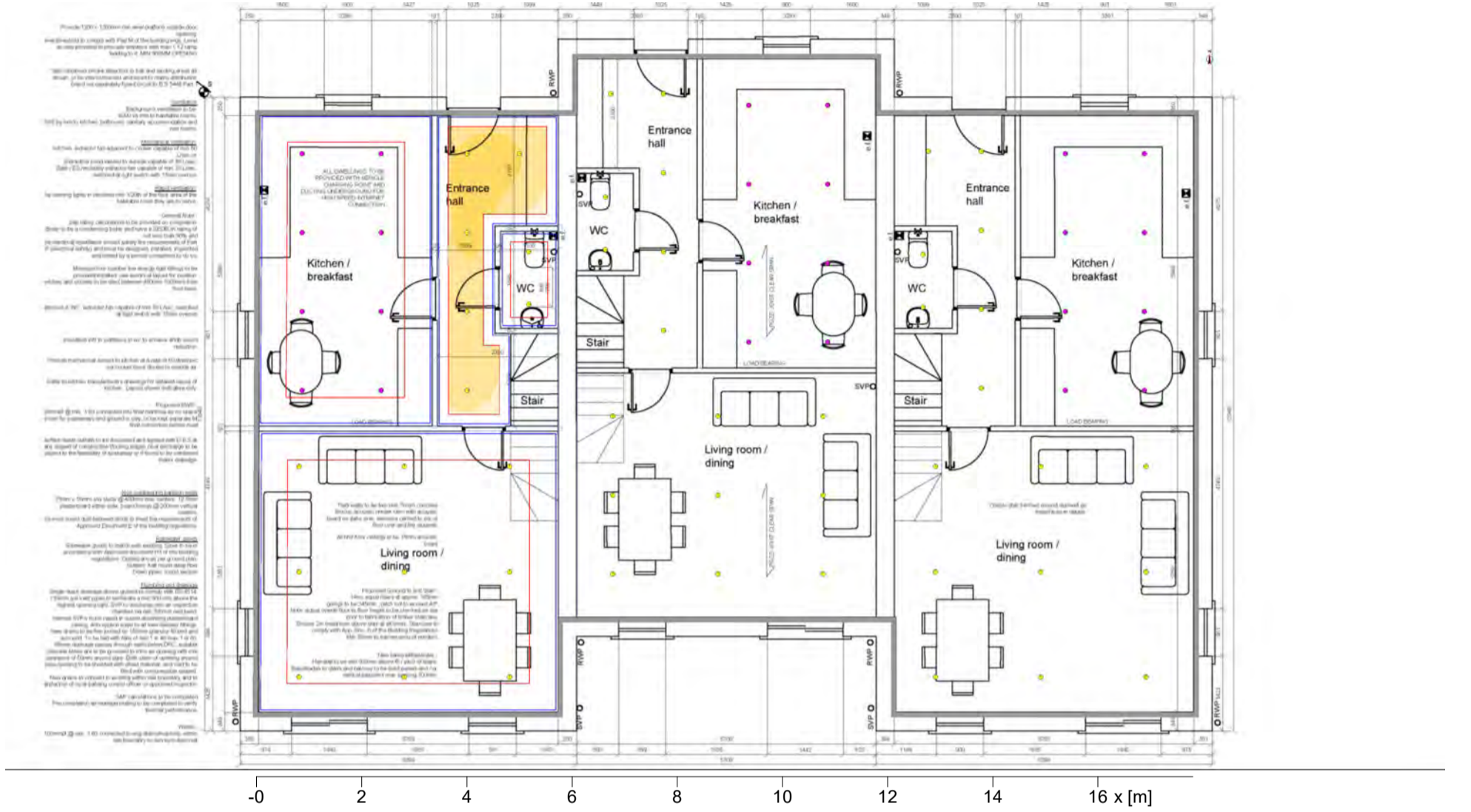
Wall	x	y	Length	Area[m ²]	Reflectance
1	9.76 m	1.48 m	5.70 m	13.24	50.0 %
2	9.76 m	3.28 m	1.80 m	4.19	50.0 %
3	16.19 m	3.28 m	6.43 m	14.95	50.0 %
4	16.19 m	1.48 m	1.80 m	4.19	50.0 %
5	21.85 m	1.48 m	5.66 m	13.15	50.0 %
6	21.85 m	12.80 m	11.33 m	26.34	50.0 %
7	15.80 m	12.80 m	6.04 m	14.05	50.0 %
8	15.80 m	13.87 m	1.07 m	2.49	50.0 %
9	10.13 m	13.87 m	5.67 m	13.19	50.0 %
10	10.13 m	12.80 m	1.07 m	2.49	50.0 %
11	4.11 m	12.80 m	6.03 m	14.01	50.0 %
12	4.07 m	1.48 m	11.33 m	26.34	50.0 %
Floor:				195.7	20.0 %
Ceiling:				195.7	70.0 %
Room height [m]:	2.33 m				
Height of ref. plane [m]:	0.00 m				
Volume	454.9 m ³				



2 New Cottages - Ground Floor

2.2 Summary, New Cottages - Ground Floor

2.2.1 Result overview, Entrance



General		
Calculation algorithm used		Average indirect fraction
Height of luminaire plane		2.33 m
Maintenance factor		0.80
Luminaire luminous flux		3013 lm
Total power		25.0 W
Total power per area (8.91 m ²)		2.81 W/m ² (1.98 W/m ² /100lx)
Entrance	Entrance	
	Horizontal	cylindrical
\bar{E}_m	142 lx	43 lx
E_{min}	95 lx	27 lx
$E_{min}/\bar{E}_m (U_0)$	0.67	0.64
$E_{min}/E_{max} (U_d)$	0.54	
E_z/E_h		0.25
Position	0.00 m	0.45 m
RUG (--- ---)	---	
Luminaire :		
(DOWNLIGHTS - Prism Pro Dual Wattage, APRIP/1 (5W 4000K))		
Hints:		
- The luminous area is less than 0.005m ² .		

Type No./Make

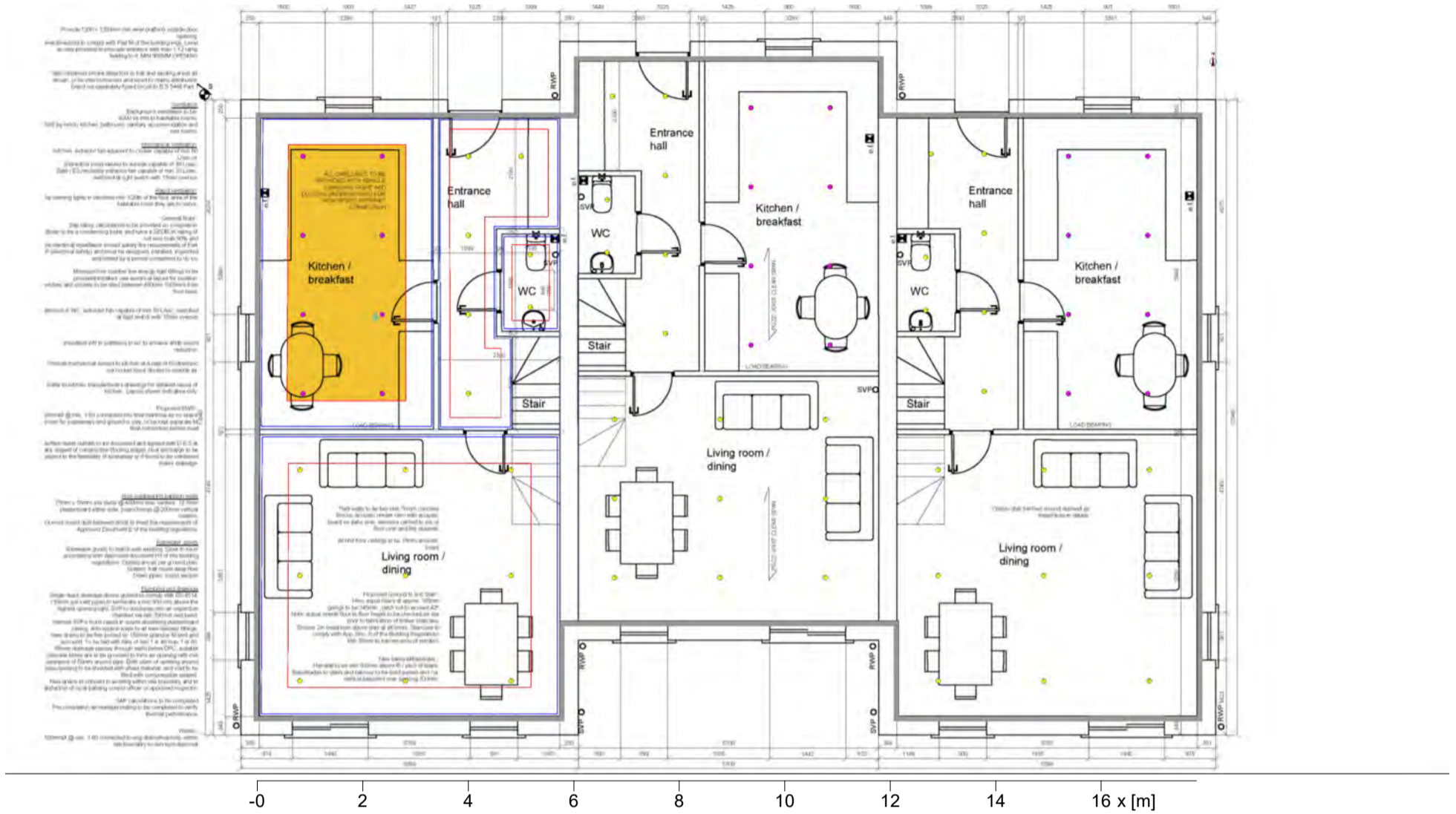
- 1 5 x **ANSELL**
- Order No. : APRIP/1 (5W 4000K)
- Luminaire name : DOWNLIGHTS - Prism Pro Dual Wattage
- Equipment : 1 x LED single 840 5 W / 566 lm





2.2 Summary, New Cottages - Ground Floor


2.2.2 Result overview, Kitchen



200	300
Illuminance [lx]	
General	
Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.33 m
Maintenance factor	0.80
Luminaire luminous flux	6276 lm
Total power	56.0 W
Total power per area (18.66 m ²)	3.00 W/m ² (1.13 W/m ² /100lx)

Kitchen	Kitchen	
\bar{E}_m	Horizontal	cylindrical
E_{min}	266 lx	83 lx
$E_{min}/\bar{E}_m (U_0)$	228 lx	60 lx
$E_{min}/E_{max} (U_d)$	0.86	0.72
E_z/E_h		0.27
Position	0.75 m	1.20 m
RUG (--- ---)	---	
Luminaire :		
(DOWNLIGHTS - Prism Pro Dual Wattage, APRIP/1 (7W 4000K))		
Hints:		
- The luminous area is less than 0.005m ² .		

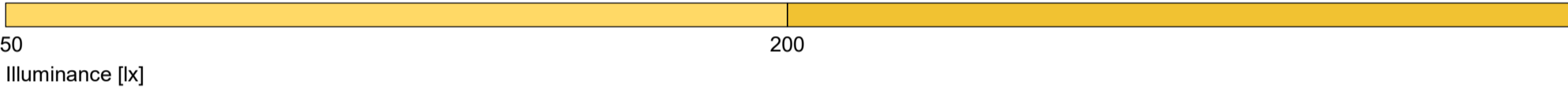
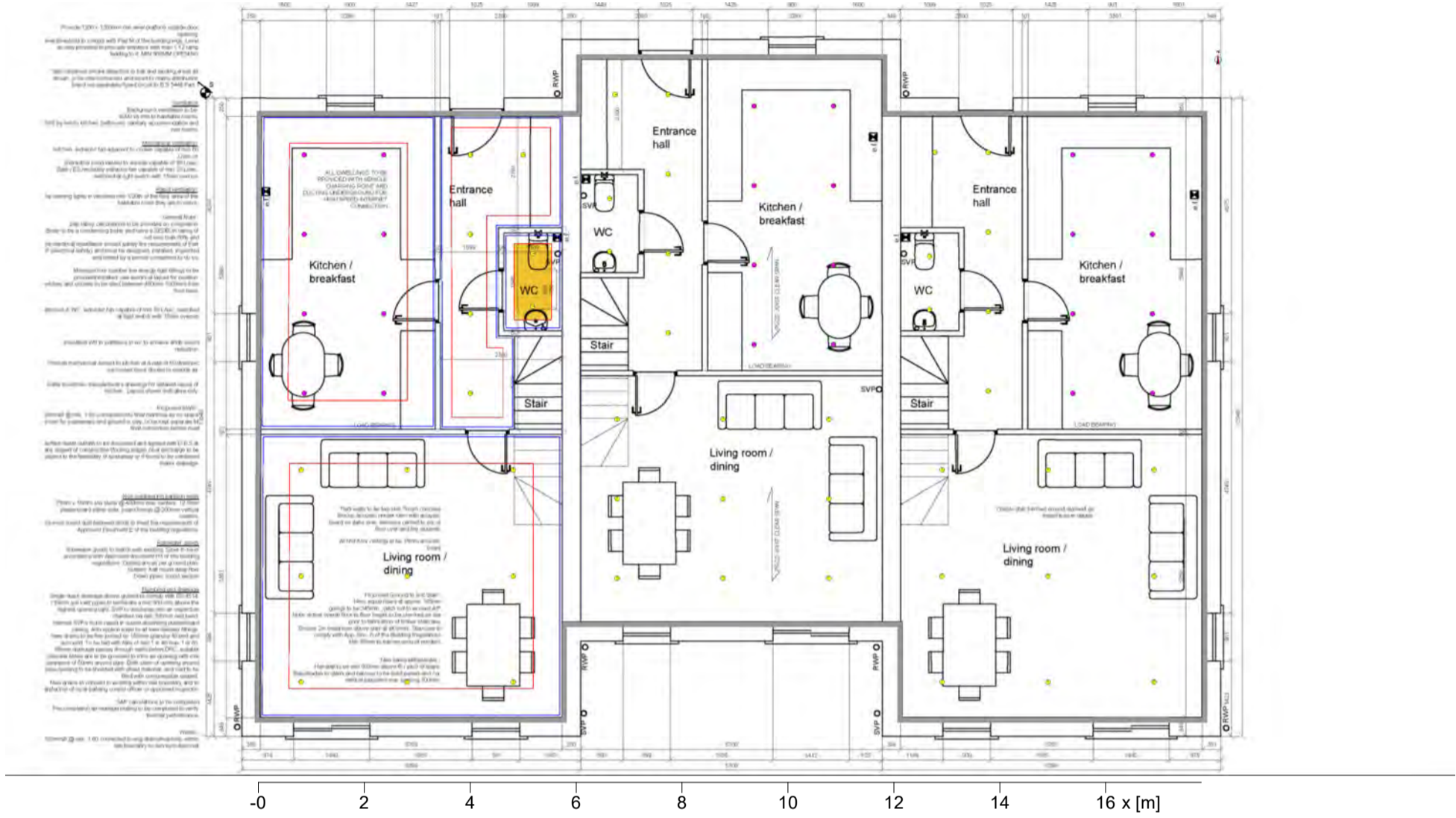
Type No./Make

2	8 x	ANSELL	
	Order No.	: APRIP/1 (7W 4000K)	
	Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage	
	Equipment	: 1 x LED single 840 7 W / 737 lm	



2.2 Summary, New Cottages - Ground Floor

2.2.3 Result overview, WC



General		
Calculation algorithm used		Average indirect fraction
Height of luminaire plane		2.33 m
Maintenance factor		0.80
Luminaire luminous flux		1205 lm
Total power		10.0 W
Total power per area (1.77 m ²)		5.64 W/m ² (2.42 W/m ² /100lx)
WC	WC	
\bar{E}_m	Horizontal	cylindrical
E_{min}	233 lx	71 lx
$E_{min}/\bar{E}_m (U_0)$	189 lx	50 lx
$E_{min}/E_{max} (U_d)$	0.81	0.71
E_z/E_h		0.21
Position	0.75 m	1.20 m
RUG (--- ---)	---	
Luminaire :		
(DOWNLIGHTS - Prism Pro Dual Wattage, APRIP/1 (5W 4000K))		
Hints:		
- The luminous area is less than 0.005m ² .		

Type No./Make

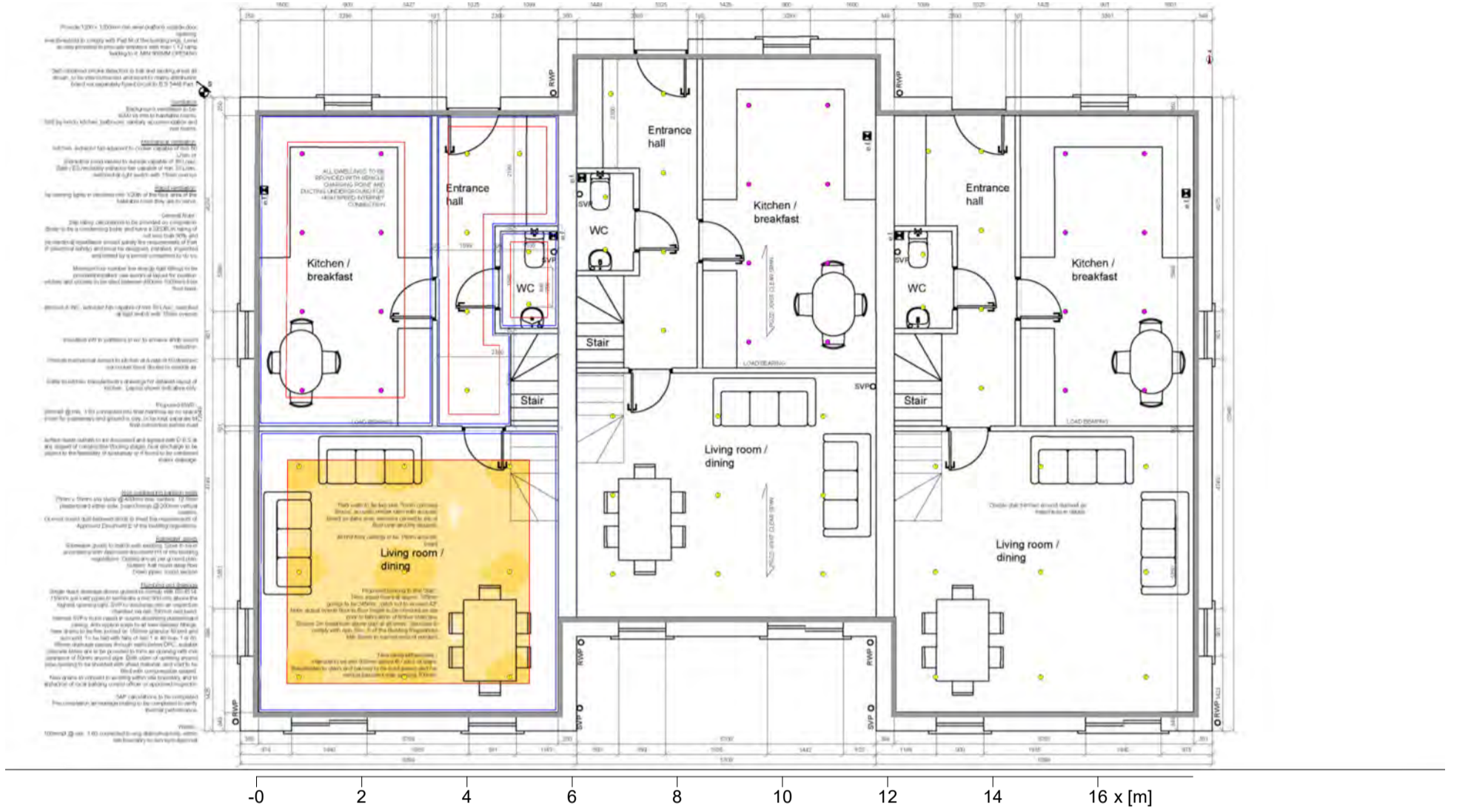
- 1 2 x **ANSELL**
- Order No. : APRIP/1 (5W 4000K)
- Luminaire name : DOWNLIGHTS - Prism Pro Dual Wattage
- Equipment : 1 x LED single 840 5 W / 566 lm





2.2 Summary, New Cottages - Ground Floor

2.2.4 Result overview, Living/Dining Room



General	
Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.33 m
Maintenance factor	0.80
Luminaire luminous flux	5423 lm
Total power	45.0 W
Total power per area (29.42 m ²)	1.53 W/m ² (1.13 W/m ² /100lx)

Living/Dining Room	Living/Dining Room	
\bar{E}_m	Horizontal	cylindrical
E_{min}	135 lx	46 lx
$E_{min}/\bar{E}_m (U_0)$	94 lx	33 lx
$E_{min}/E_{max} (U_d)$	0.70	0.71
E_z/E_h	0.48	0.31
Position	0.75 m	1.20 m
RUG (--- ---)	---	
Luminaire :		
(DOWNLIGHTS - Prism Pro Dual Wattage, APRIP/1 (5W 4000K))		
Hints:		
- The luminous area is less than 0.005m ² .		

Type No./Make

- 1 9 x **ANSELL**
- Order No. : APRIP/1 (5W 4000K)
- Luminaire name : DOWNLIGHTS - Prism Pro Dual Wattage
- Equipment : 1 x LED single 840 5 W / 566 lm

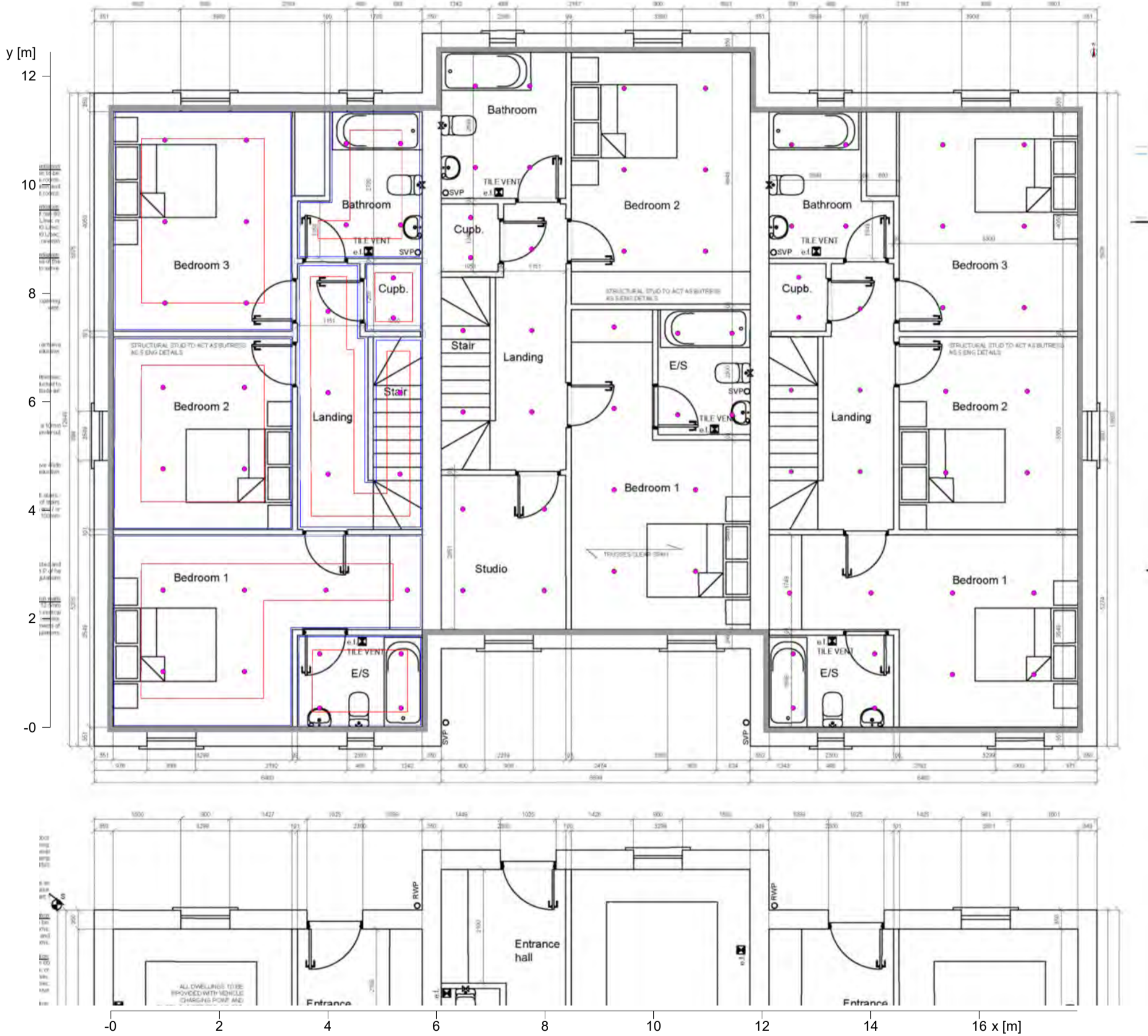




3 New Cottages - First Floor

3.1 Description, New Cottages - First Floor

3.1.1 Floor plan





3 New Cottages - First Floor

3.1 Description, New Cottages - First Floor

3.1.1 Floor plan

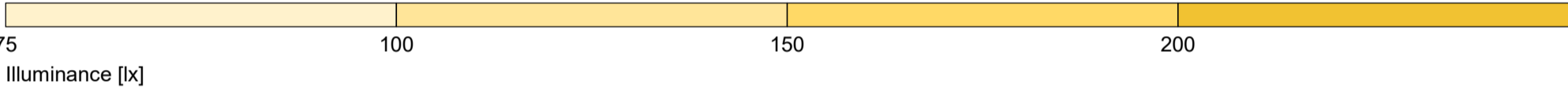
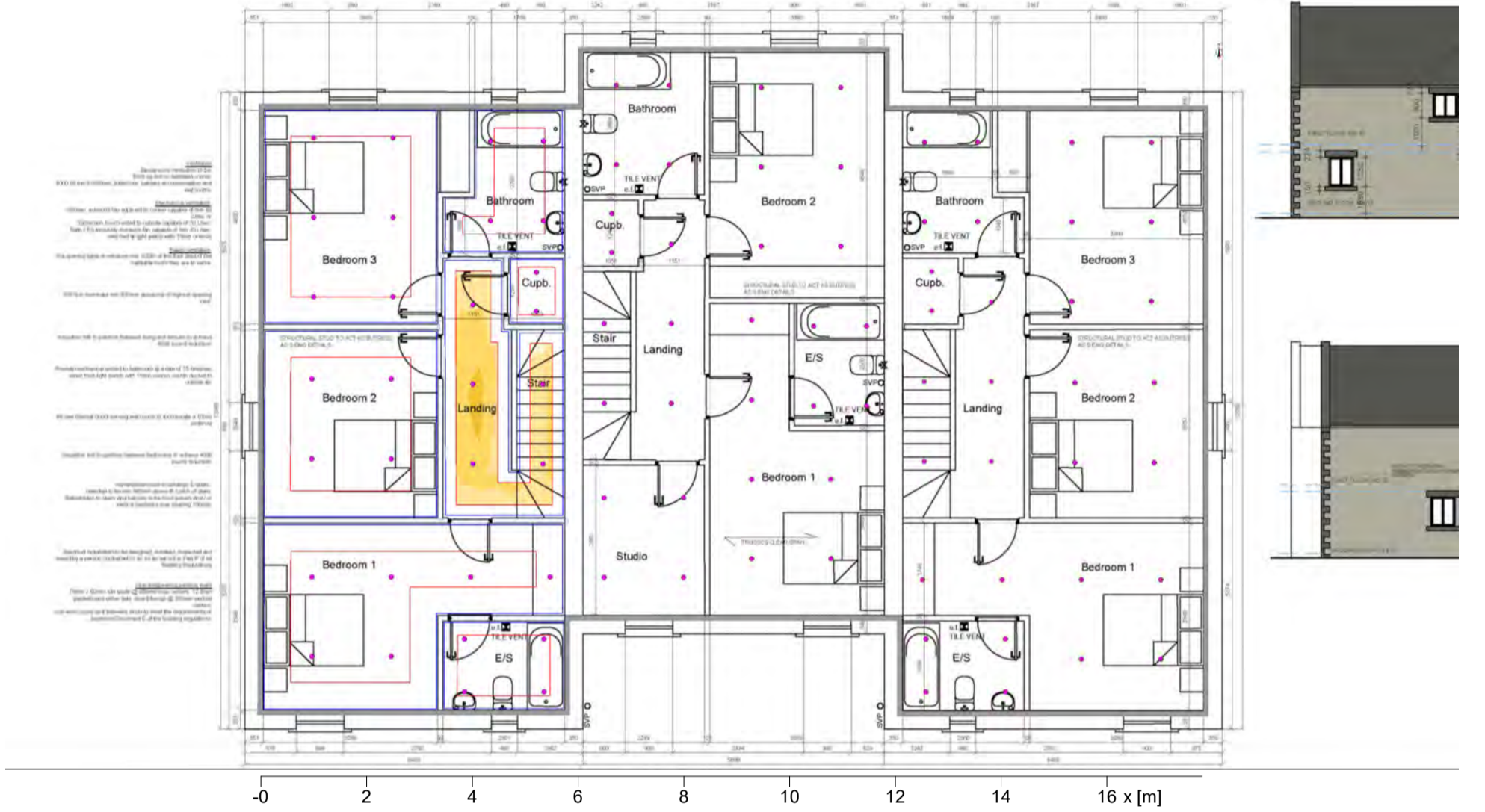
Wall	x	y	Length	Area[m ²]	Reflectance
1	9.78 m	16.53 m	5.71 m	15.41	50.0 %
2	9.78 m	18.32 m	1.79 m	4.84	50.0 %
3	16.15 m	18.32 m	6.38 m	17.22	50.0 %
4	16.15 m	16.51 m	1.81 m	4.89	50.0 %
5	21.84 m	16.51 m	5.69 m	15.36	50.0 %
6	21.84 m	27.85 m	11.34 m	30.62	50.0 %
7	15.82 m	27.85 m	6.02 m	16.26	50.0 %
8	15.82 m	28.95 m	1.11 m	2.99	50.0 %
9	10.13 m	28.95 m	5.69 m	15.36	50.0 %
10	10.13 m	27.88 m	1.07 m	2.90	50.0 %
11	4.09 m	27.88 m	6.04 m	16.31	50.0 %
12	4.07 m	16.53 m	11.35 m	30.65	50.0 %
Floor:				196.2	20.0 %
Ceiling:				196.2	70.0 %
Room height [m]:		2.70 m			
Height of ref. plane [m]:		0.00 m			
Volume		529.8 m ³			



3 New Cottages - First Floor

3.2 Summary, New Cottages - First Floor


3.2.1 Result overview, Landing/Stairs



General	
Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	3922 lm
Total power	35.0 W
Total power per area (8.55 m ²)	4.09 W/m ² (2.64 W/m ² /100lx)

Landing/Stairs	Landing/Stairs	
\bar{E}_m	Horizontal	cylindrical
E_{min}	155 lx	49 lx
$E_{min}/\bar{E}_m (U_0)$	92 lx	35 lx
$E_{min}/E_{max} (U_d)$	0.59	0.72
E_z/E_h	0.43	
Position	0.00 m	0.26
RUG (--- ---)	---	0.45 m
Luminaire :		
(DOWNLIGHTS - Prism Pro Dual Wattage, APRIP/1 (7W 4000K))		
Hints:		
- The luminous area is less than 0.005m ² .		

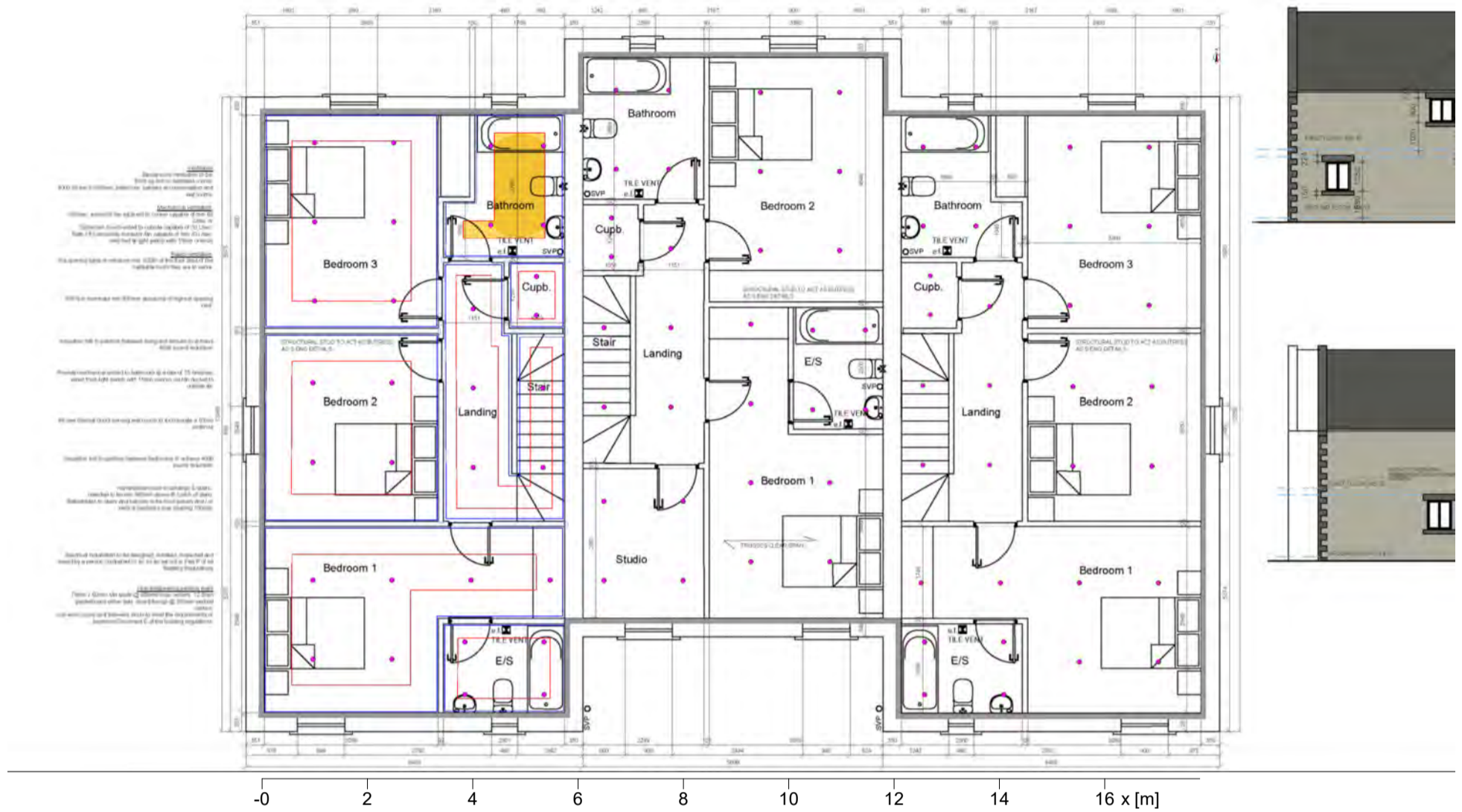
Type No./Make

2	5 x	ANSSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



3.2 Summary, New Cottages - First Floor

3.2.2 Result overview, Bathroom



150
Illuminance [lx]

200


General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	3138 lm
Total power	28.0 W
Total power per area (4.91 m ²)	5.71 W/m ² (2.63 W/m ² /100lx)

Bathroom

\bar{E}_m	217 lx	cylindrical	62 lx
E_{min}	170 lx		52 lx
$E_{min}/\bar{E}_m (U_0)$	0.78		0.84
$E_{min}/E_{max} (U_d)$	0.72		
E_z/E_h			0.24
Position	0.00 m		0.45 m
RUG (--- ---)	---		
Luminaire :			
(DOWNLIGHTS - Prism Pro Dual Wattage, APRIP/1 (7W 4000K))			
Hints:			
- The luminous area is less than 0.005m ² .			

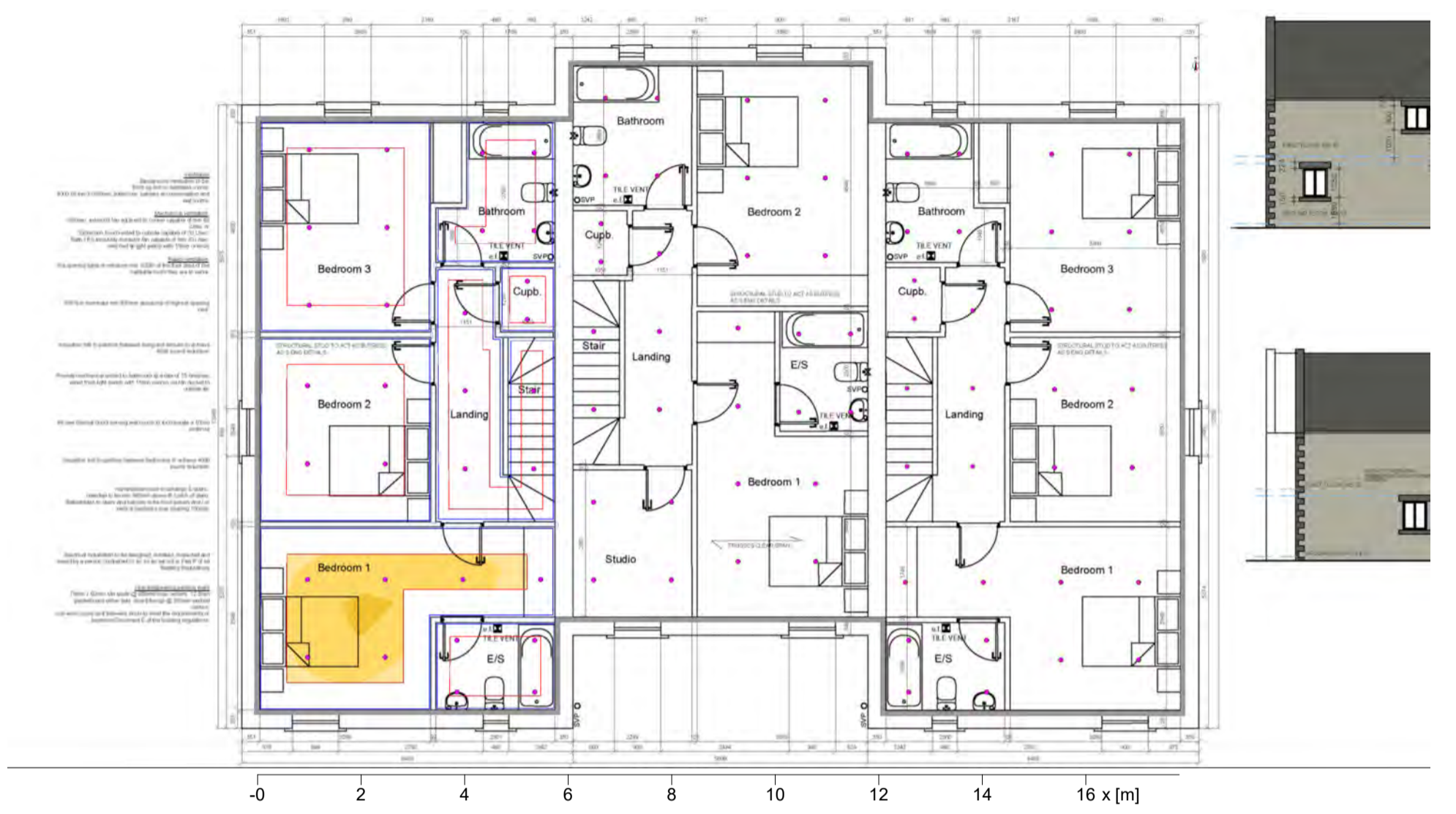
Type No./Make

2	4 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



3.2 Summary, New Cottages - First Floor

3.2.3 Result overview, Bedroom 1



General	
Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	4707 lm
Total power	42.0 W
Total power per area (15.32 m ²)	2.74 W/m ² (1.56 W/m ² /100lx)

Bedroom 1	Bedroom 1	
\bar{E}_m	Horizontal	cylindrical
E_{min}	176 lx	52 lx
$E_{min}/\bar{E}_m (U_0)$	145 lx	42 lx
$E_{min}/E_{max} (U_d)$	0.82	0.81
E_z/E_h	0.71	0.26
Position	0.00 m	0.45 m
RUG (--- ---)	---	
Luminaire :		
(DOWNLIGHTS - Prism Pro Dual Wattage, APRIP/1 (7W 4000K))		
Hints:		
- The luminous area is less than 0.005m ² .		

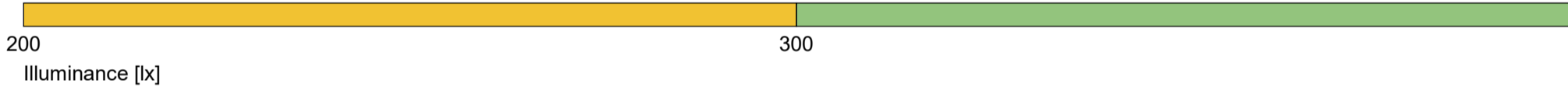
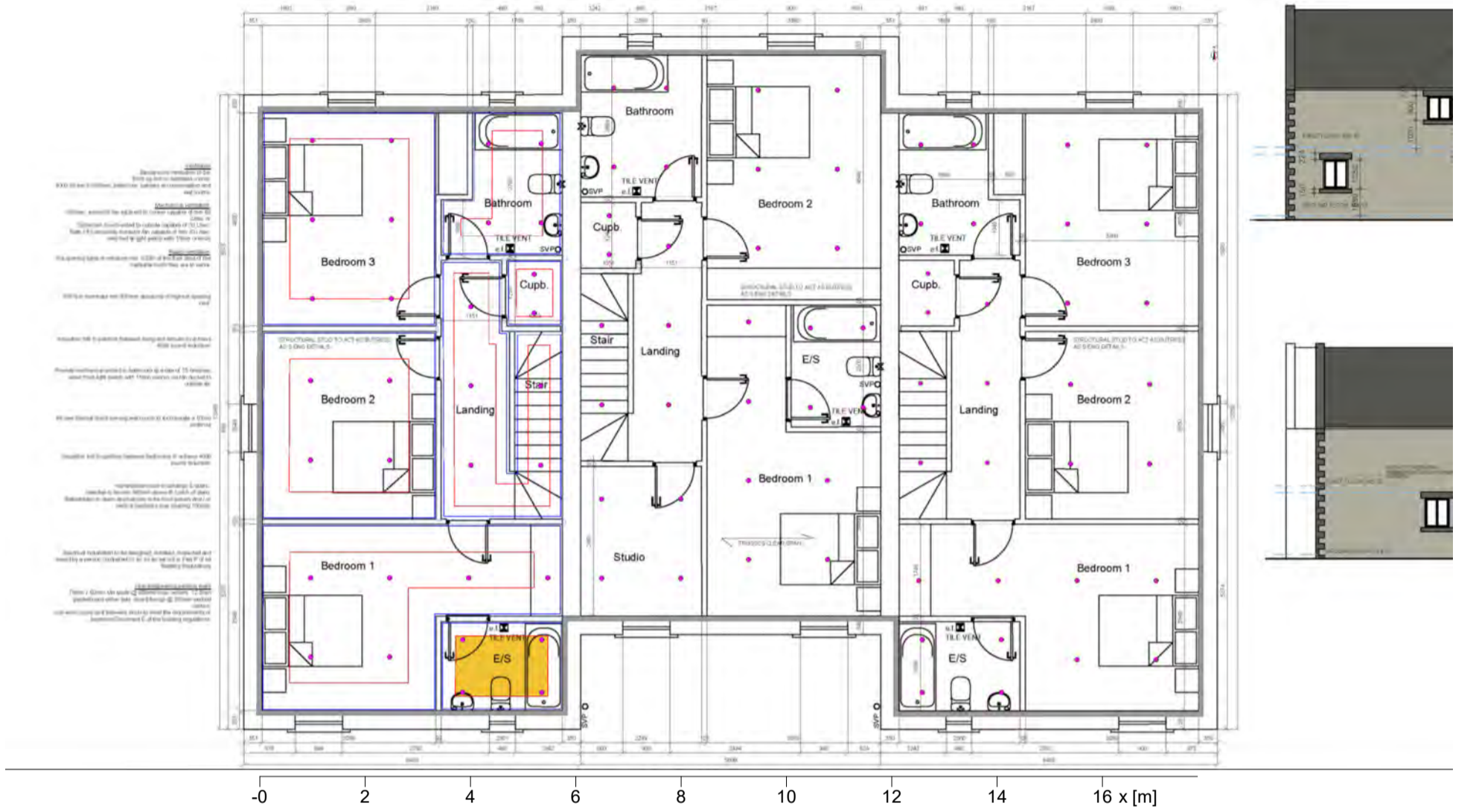
Type No. Make

2	6 x	ANSSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



3.2 Summary, New Cottages - First Floor

3.2.4 Result overview, Ensuite




General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	3138 lm
Total power	28.0 W
Total power per area (3.66 m ²)	7.64 W/m ² (3.26 W/m ² /100lx)

Ensuite

Ensuite	Ensuite	
\bar{E}_m	Horizontal	cylindrical
E_{min}	235 lx	71 lx
$E_{min}/\bar{E}_m (U_0)$	216 lx	60 lx
$E_{min}/E_{max} (U_d)$	0.92	0.85
E_z/E_h	0.87	
Position	0.00 m	0.26
RUG (--- ---)	---	0.45 m
Luminaire :		
(DOWNLIGHTS - Prism Pro Dual Wattage, APRIP/1 (7W 4000K))		
Hints:		
- The luminous area is less than 0.005m ² .		

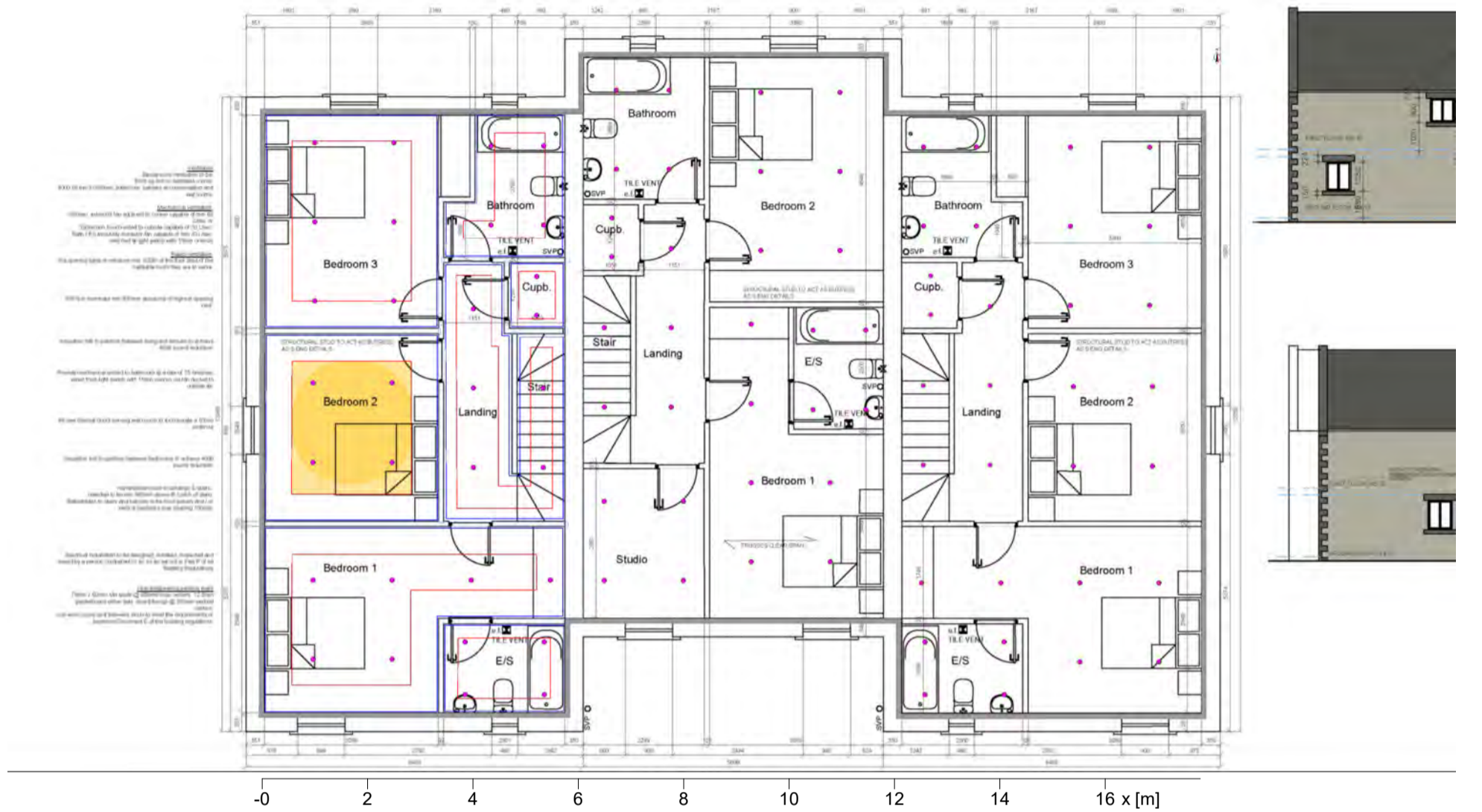
Type No./Make

2	4 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



3.2 Summary, New Cottages - First Floor

3.2.5 Result overview, Bedroom 2



100
Illuminance [lx]

150


General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	3138 lm
Total power	28.0 W
Total power per area (11.32 m ²)	2.47 W/m ² (1.50 W/m ² /100lx)

Bedroom 2

\bar{E}_m	Horizontal	cylindrical
E_{min}	165 lx	47 lx
$E_{min}/\bar{E}_m (U_0)$	129 lx	40 lx
$E_{min}/E_{max} (U_d)$	0.78	0.85
E_z/E_h	0.68	0.25
Position	0.00 m	0.45 m
RUG (--- ---)	---	
Luminaire :		
(DOWNLIGHTS - Prism Pro Dual Wattage, APRIP/1 (7W 4000K))		
Hints:		
- The luminous area is less than 0.005m ² .		

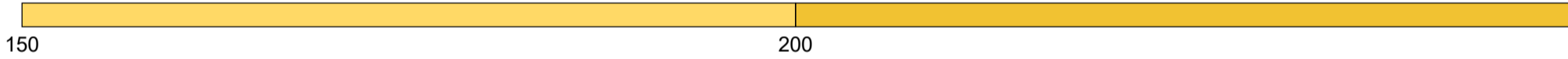
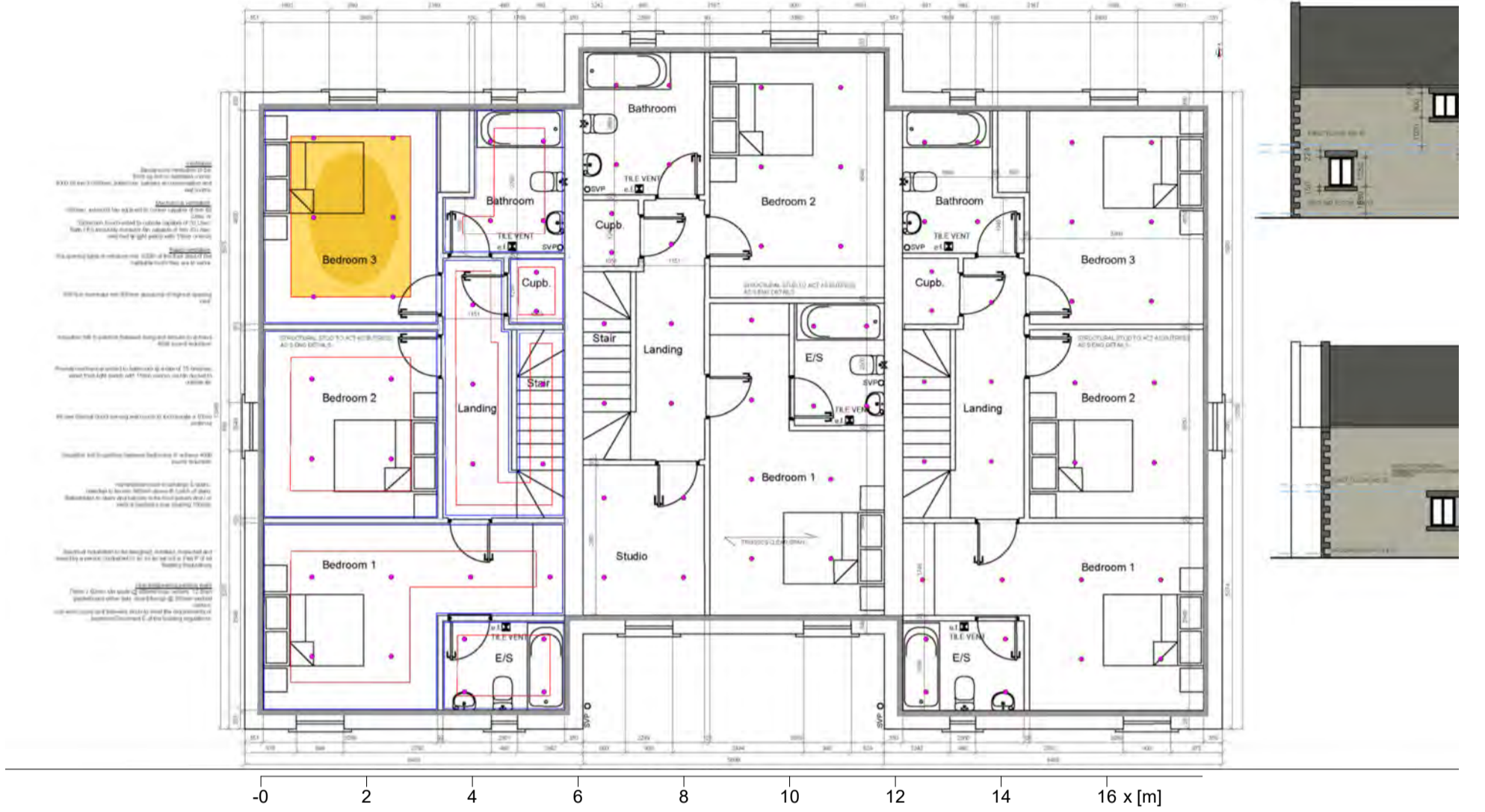
Type No. Make

2	4 x	ANSSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



3.2 Summary, New Cottages - First Floor

3.2.6 Result overview, Bedroom 3



150
Illuminance [lx]

200


General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	4707 lm
Total power	42.0 W
Total power per area (12.94 m ²)	3.25 W/m ² (1.62 W/m ² /100lx)

Bedroom 3

Bedroom 3	Bedroom 3	
\bar{E}_m	Horizontal	cylindrical
E_{min}	201 lx	61 lx
$E_{min}/\bar{E}_m (U_0)$	171 lx	50 lx
$E_{min}/E_{max} (U_d)$	0.85	0.82
E_z/E_h	0.76	
Position	0.00 m	0.27
RUG (--- ---)	---	0.45 m
Luminaire :		
(DOWNLIGHTS - Prism Pro Dual Wattage, APRIP/1 (7W 4000K))		
Hints:		
- The luminous area is less than 0.005m ² .		

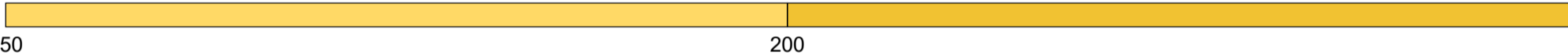
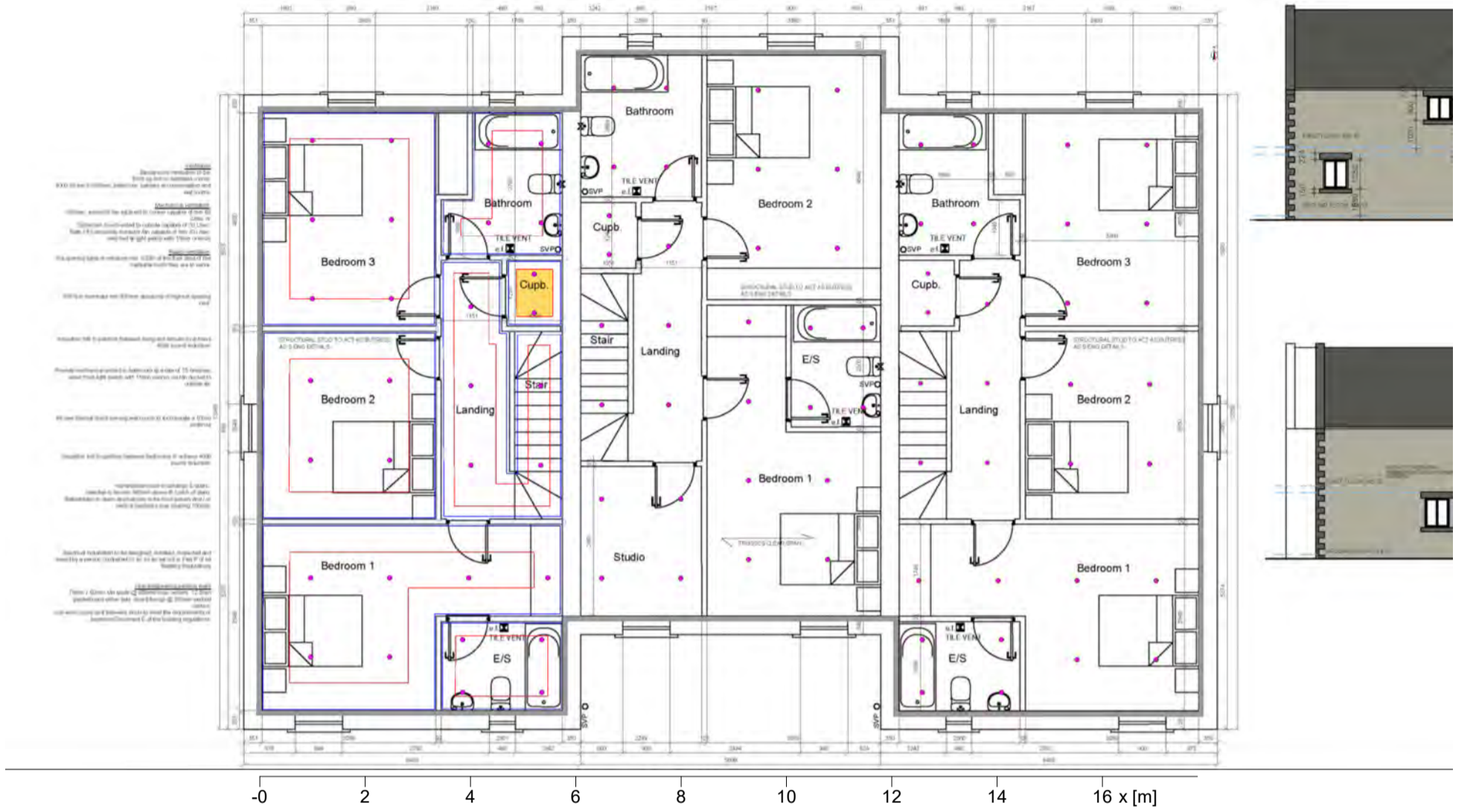
Type No. Make

2	6 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



3.2 Summary, New Cottages - First Floor

3.2.7 Result overview, Cupd.



150
Illuminance [lx]

200

General


Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	1569 lm
Total power	14.0 W
Total power per area (1.18 m ²)	11.85 W/m ² (6.76 W/m ² /100lx)

Cupd.

\bar{E}_m	Cupd. Horizontal	cylindrical
E_{min}	175 lx	47 lx
$E_{min}/\bar{E}_m (U_0)$	168 lx	45 lx
$E_{min}/E_{max} (U_d)$	0.96	0.96
E_z/E_h	0.92	0.22
Position	0.00 m	0.45 m
RUG (--- ---)	---	---

Luminaire :
 (DOWNLIGHTS - Prism Pro Dual Wattage, APRIP/1 (7W 4000K))
 Hints:
 - The luminous area is less than 0.005m².

Type No. Make

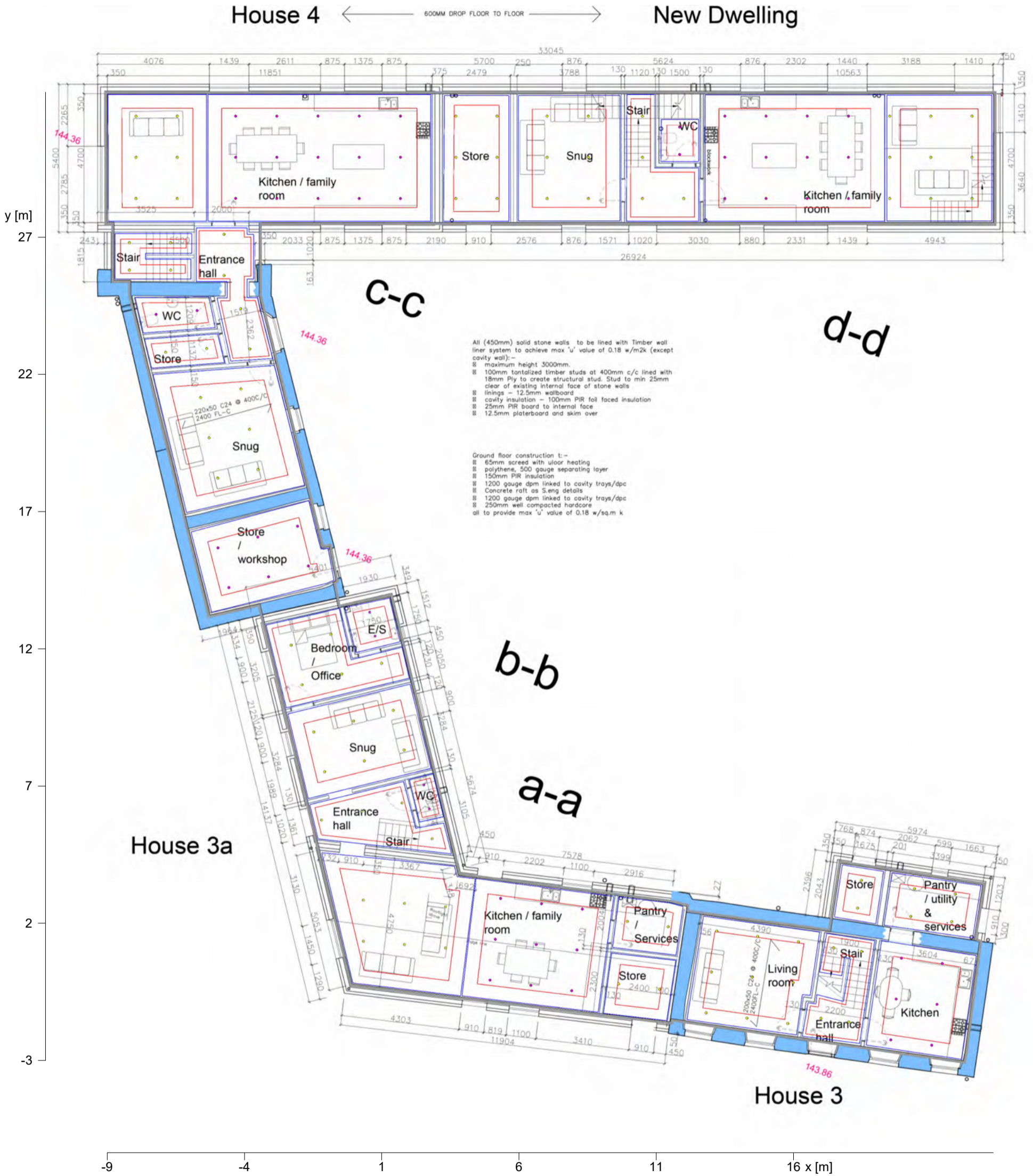
2	2 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



4 House 4/ New dwelling/house 3/a

4.1 Description, House 4/ New dwelling/house 3/a

4.1.1 Floor plan





4 House 4/ New dwelling/house 3/a

4.1 Description, House 4/ New dwelling/house 3/a

4.1.1 Floor plan

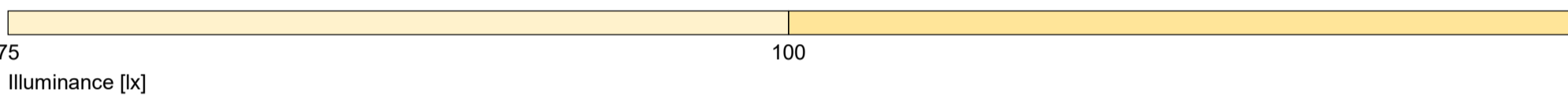
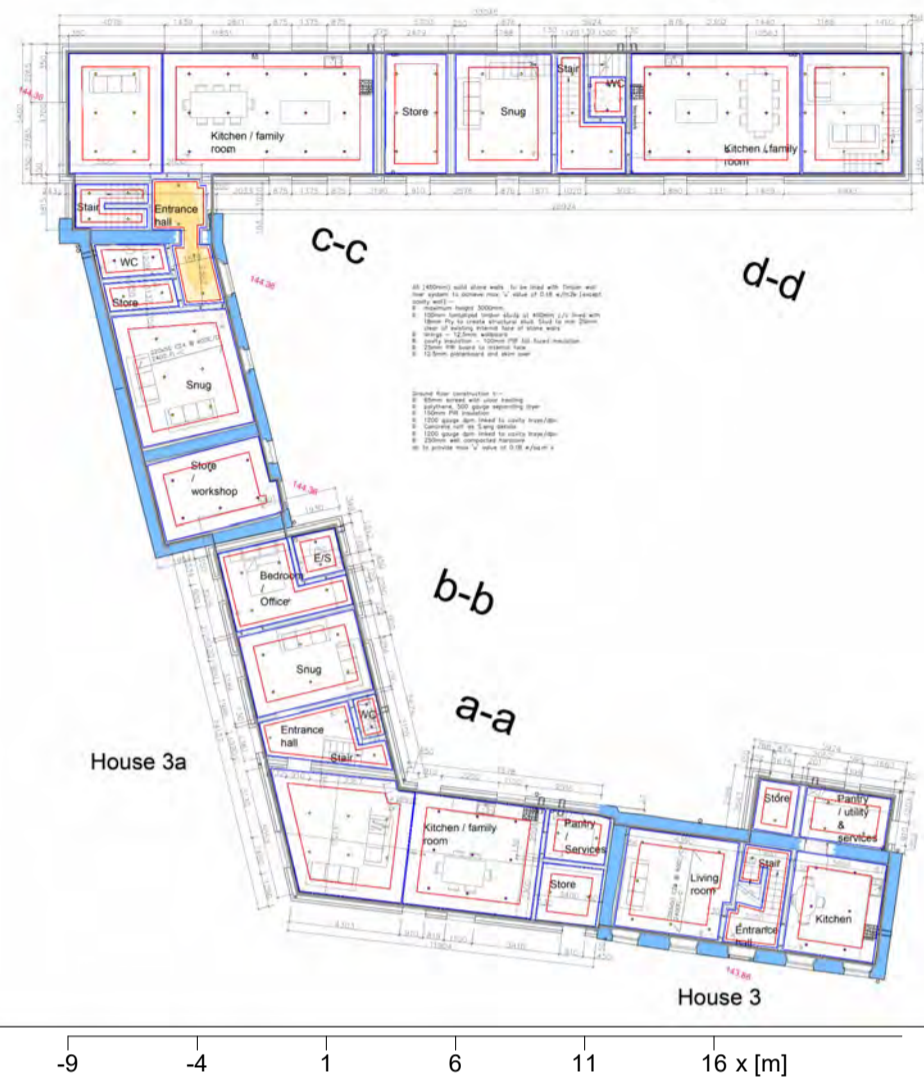
Wall	x	y	Length	Area[m ²]	Reflectance
1	23.85 m	20.59 m	11.67 m	31.51	50.0 %
2	23.86 m	20.70 m	0.12 m	0.31	50.0 %
3	34.52 m	19.16 m	10.76 m	29.06	50.0 %
4	34.58 m	19.52 m	0.37 m	0.99	50.0 %
5	35.09 m	23.49 m	4.00 m	10.80	50.0 %
6	34.89 m	23.55 m	0.21 m	0.56	50.0 %
7	35.22 m	25.57 m	2.04 m	5.51	50.0 %
8	30.06 m	26.36 m	5.22 m	14.10	50.0 %
9	29.68 m	23.87 m	2.52 m	6.80	50.0 %
10	24.44 m	24.57 m	5.29 m	14.29	50.0 %
11	24.44 m	24.78 m	0.21 m	0.58	50.0 %
12	23.85 m	24.93 m	0.61 m	1.64	50.0 %
13	16.13 m	25.91 m	7.78 m	21.01	50.0 %
14	13.65 m	36.06 m	10.44 m	28.19	50.0 %
15	11.75 m	35.66 m	1.94 m	5.24	50.0 %
16	11.56 m	36.60 m	0.95 m	2.57	50.0 %
17	11.66 m	36.64 m	0.11 m	0.31	50.0 %
18	11.42 m	37.89 m	1.27 m	3.44	50.0 %
19	11.16 m	37.83 m	0.27 m	0.74	50.0 %
20	8.88 m	47.02 m	9.46 m	25.55	50.0 %
21	8.88 m	49.70 m	2.68 m	7.25	50.0 %
22	35.62 m	49.70 m	26.74 m	72.21	50.0 %
23	35.62 m	54.38 m	4.68 m	12.64	50.0 %
24	3.34 m	54.38 m	32.28 m	87.15	50.0 %
25	3.34 m	49.71 m	4.67 m	12.60	50.0 %
26	3.60 m	49.71 m	0.25 m	0.69	50.0 %
27	3.60 m	47.60 m	2.12 m	5.71	50.0 %
28	4.21 m	47.60 m	0.61 m	1.65	50.0 %
29	4.21 m	47.03 m	0.57 m	1.53	50.0 %
30	7.09 m	35.40 m	11.98 m	32.34	50.0 %
31	8.91 m	35.82 m	1.87 m	5.04	50.0 %
32	12.26 m	21.96 m	14.26 m	38.49	50.0 %
Floor:				374.4	20.0 %
Ceiling:				374.4	70.0 %
Room height [m]:	2.70 m				
Height of ref. plane [m]:	0.00 m				
Volume	1010.9 m ³				



4 House 4/ New dwelling/house 3/a

4.2 Summary, House 4/ New dwelling/house 3/a

4.2.1 Result overview, Entrance



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	2410 lm
Total power	20.0 W
Total power per area (7.84 m ²)	2.55 W/m ² (2.37 W/m ² /100lx)

Entrance

Entrance	Entrance	
	Horizontal	cylindrical
\bar{E}_m	108 lx	31 lx
E_{min}	77 lx	25 lx
$E_{min}/\bar{E}_m (U_o)$	0.71	0.82
$E_{min}/E_{max} (U_d)$	0.61	
E_z/E_h		0.25
Position	0.00 m	0.45 m
RUG (--- ---)	---	

Hints:
 - Room dimensions deviate too much from a rectangular room.

Type No. Make

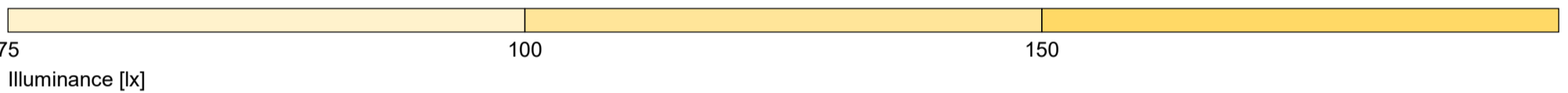
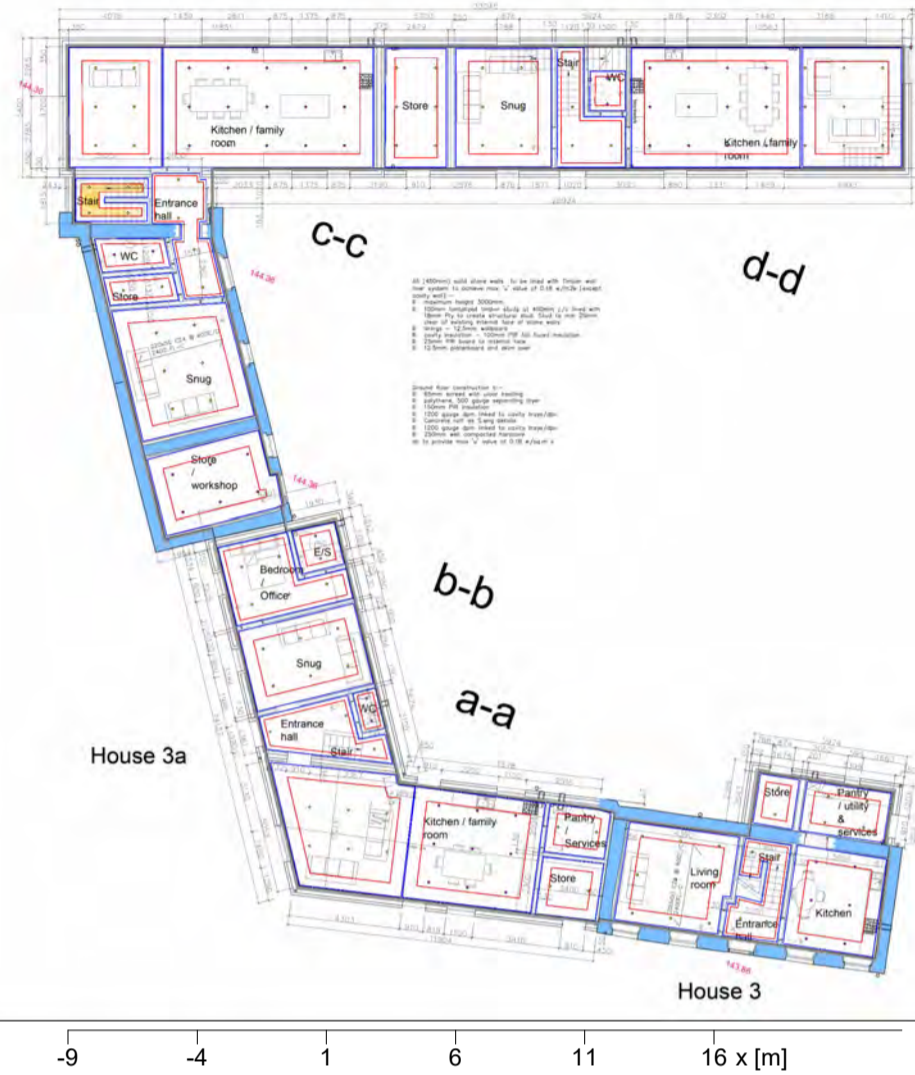
1	4 x	ANSELL	
		Order No.	: APRIP/1 (5W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 5 W / 566 lm





4.2 Summary, House 4/ New dwelling/house 3/a

4.2.2 Result overview, Stairs



General


Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	2410 lm
Total power	20.0 W
Total power per area (4.25 m ²)	4.70 W/m ² (3.62 W/m ² /100lx)

Stairs

Stairs	Stairs	
	Horizontal	cylindrical
\bar{E}_m	130 lx	36 lx
E_{min}	83 lx	25 lx
$E_{min}/\bar{E}_m (U_0)$	0.64	0.70
$E_{min}/E_{max} (U_d)$	0.48	
E_z/E_h		0.23
Position	0.00 m	0.45 m
RUG (--- ---)	---	

Hints:
 - Room dimensions deviate too much from a rectangular room.

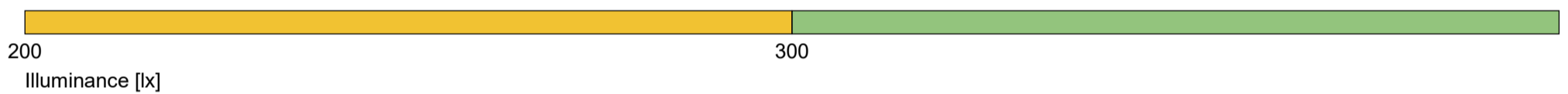
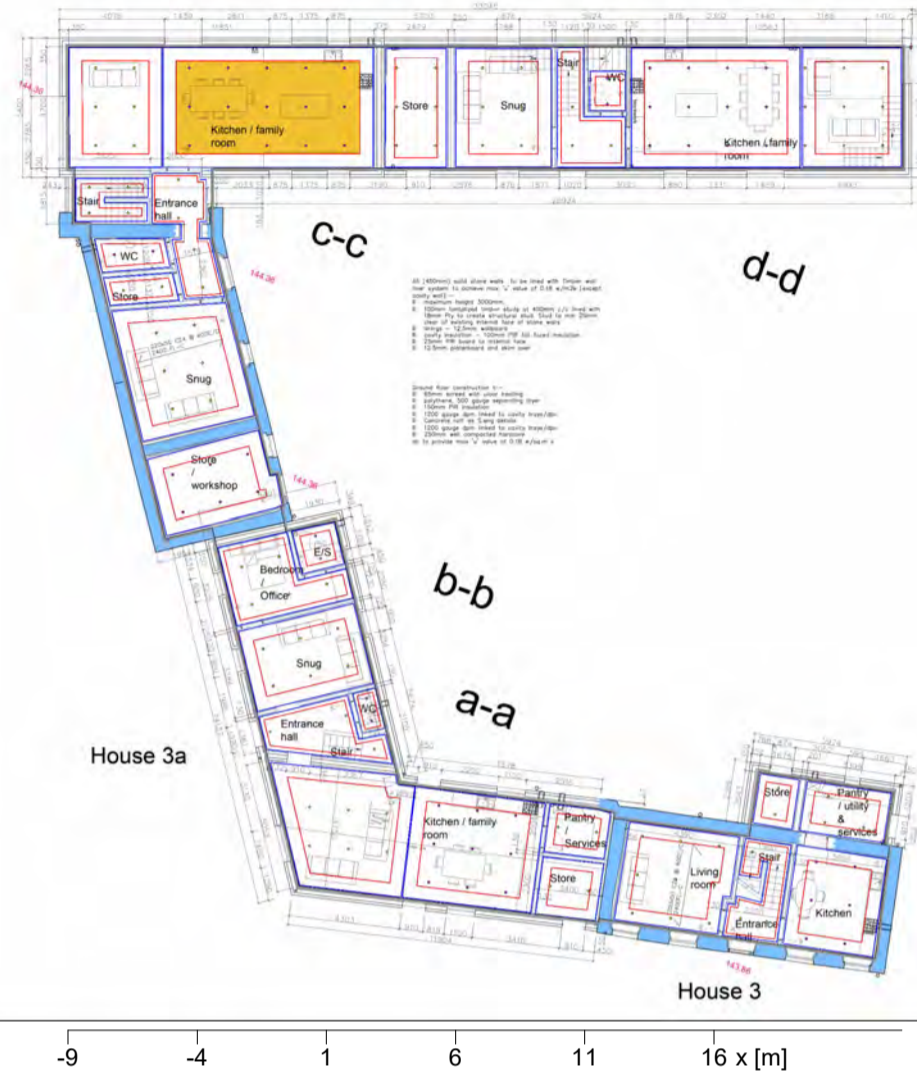
Type No. Make

1	4 x	ANSELL	
		Order No.	: APRIP/1 (5W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 5 W / 566 lm



4.2 Summary, House 4/ New dwelling/house 3/a

4.2.3 Result overview, Kitchen



General	
Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	11767 lm
Total power	105.0 W
Total power per area (37.41 m ²)	2.81 W/m ² (1.09 W/m ² /100lx)

Kitchen	Kitchen	
\bar{E}_m	Horizontal	cylindrical
E_{min}	259 lx	78 lx
$E_{min}/\bar{E}_m (U_0)$	207 lx	54 lx
$E_{min}/E_{max} (U_d)$	0.80	0.70
E_z/E_h	0.69	0.28
Position	0.75 m	1.20 m
RUG (--- ---)	---	
Hints:		
- Room dimensions deviate too much from a rectangular room.		

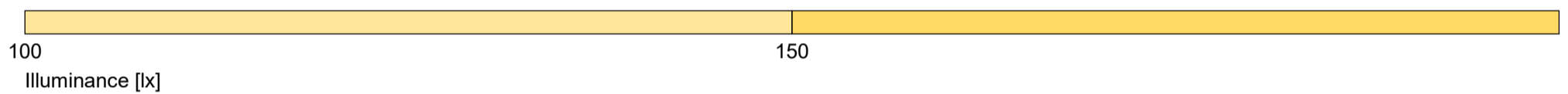
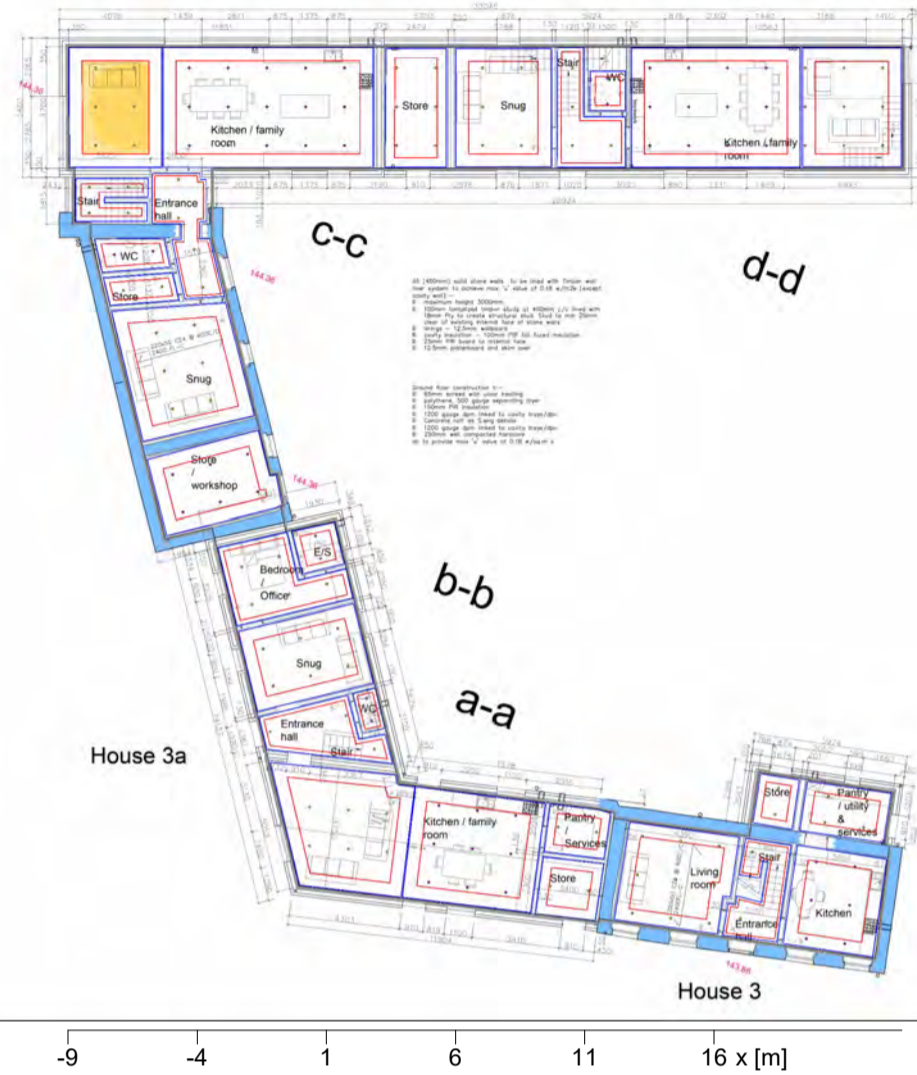
Type No. Make

2	15 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



4.2 Summary, House 4/ New dwelling/house 3/a

4.2.4 Result overview, Family Room



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	3615 lm
Total power	30.0 W
Total power per area (16.52 m ²)	1.82 W/m ² (1.11 W/m ² /100lx)

Family Room

Family Room	Family Room	
\bar{E}_m	Horizontal	cylindrical
E_{min}	163 lx	50 lx
$E_{min}/\bar{E}_m (U_0)$	124 lx	37 lx
$E_{min}/E_{max} (U_d)$	0.76	0.74
E_z/E_h	0.66	
Position	0.00 m	0.28
RUG (--- ---)	---	0.45 m
Hints:		
- Room dimensions deviate too much from a rectangular room.		

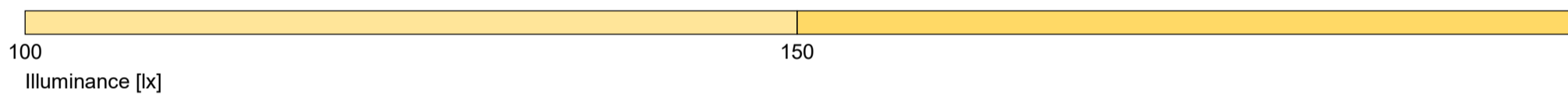
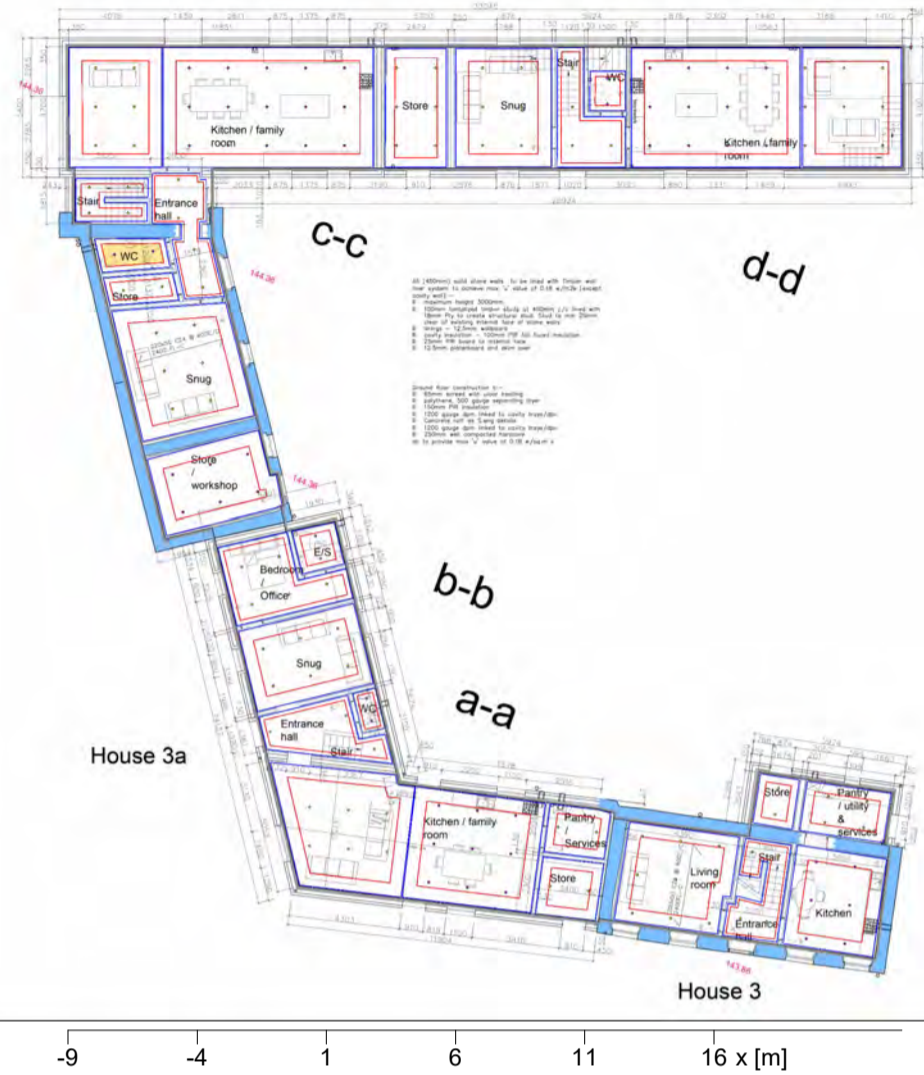
Type No. Make

1	6 x	ANSELL	
		Order No.	: APRIP/1 (5W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 5 W / 566 lm



4.2 Summary, House 4/ New dwelling/house 3/a

4.2.5 Result overview, WC



General


Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	1569 lm
Total power	14.0 W
Total power per area (3.22 m ²)	4.34 W/m ² (3.49 W/m ² /100lx)

WC

\bar{E}_m	124 lx	Horizontal	cylindrical
E_{min}	102 lx		35 lx
$E_{min}/\bar{E}_m (U_0)$	0.82		30 lx
$E_{min}/E_{max} (U_d)$	0.75		0.85
E_z/E_h			0.22
Position	0.00 m		0.45 m
RUG (--- ---)	---		

Hints:
 - Room dimensions deviate too much from a rectangular room.

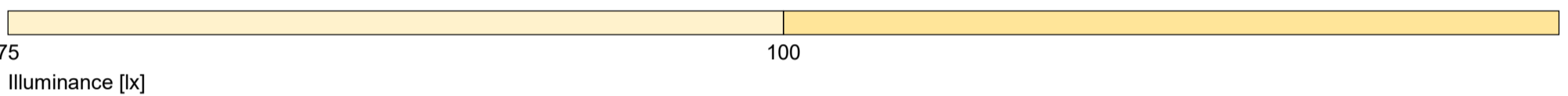
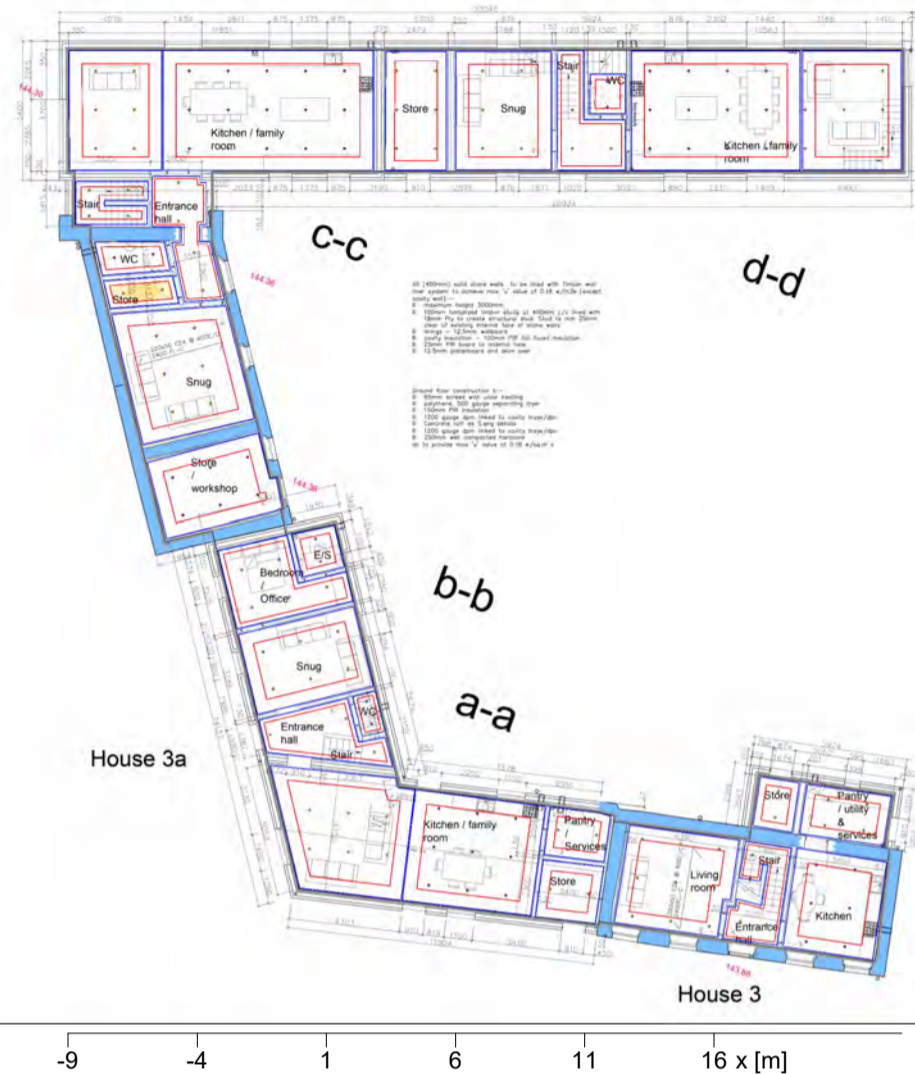
Type No. Make

2	2 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



4.2 Summary, House 4/ New dwelling/house 3/a

4.2.6 Result overview, Store



General	
Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	1205 lm
Total power	10.0 W
Total power per area (2.83 m ²)	3.53 W/m ² (3.62 W/m ² /100lx)

Store	Store	
\bar{E}_m	Horizontal	cylindrical
E_{min}	97.5 lx	25.2 lx
$E_{min}/\bar{E}_m (U_0)$	81.4 lx	21.3 lx
$E_{min}/E_{max} (U_d)$	0.83	0.85
E_z/E_h	0.77	0.21
Position	0.00 m	0.45 m
RUG (--- ---)	---	
Hints:		
- Room dimensions deviate too much from a rectangular room.		

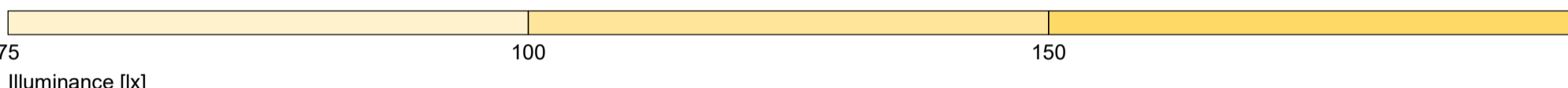
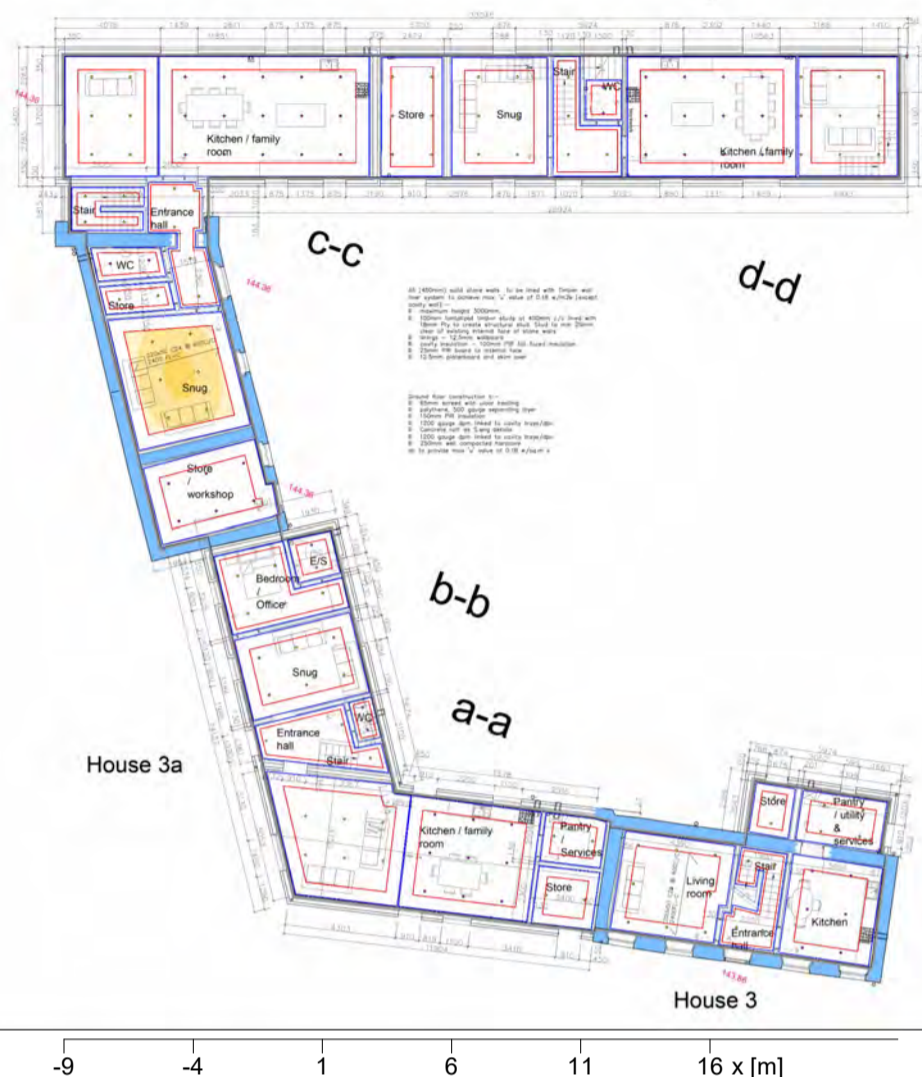
Type No. Make

1	2 x	ANSELL	
		Order No.	: APRIP/1 (5W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 5 W / 566 lm



4.2 Summary, House 4/ New dwelling/house 3/a

4.2.7 Result overview, Snug



General


Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	3615 lm
Total power	30.0 W
Total power per area (21.25 m ²)	1.41 W/m ² (1.13 W/m ² /100lx)

Snug

Snug	Snug	
\bar{E}_m	Horizontal	cylindrical
E_{min}	125 lx	34 lx
$E_{min}/\bar{E}_m (U_0)$	80 lx	27 lx
$E_{min}/E_{max} (U_d)$	0.64	0.79
E_z/E_h	0.50	0.25
Position	0.00 m	0.45 m
RUG (--- ---)	---	

Hints:
 - Room dimensions deviate too much from a rectangular room.

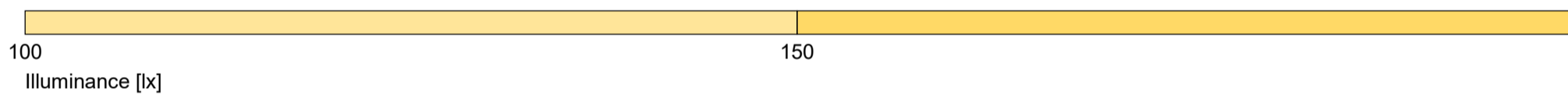
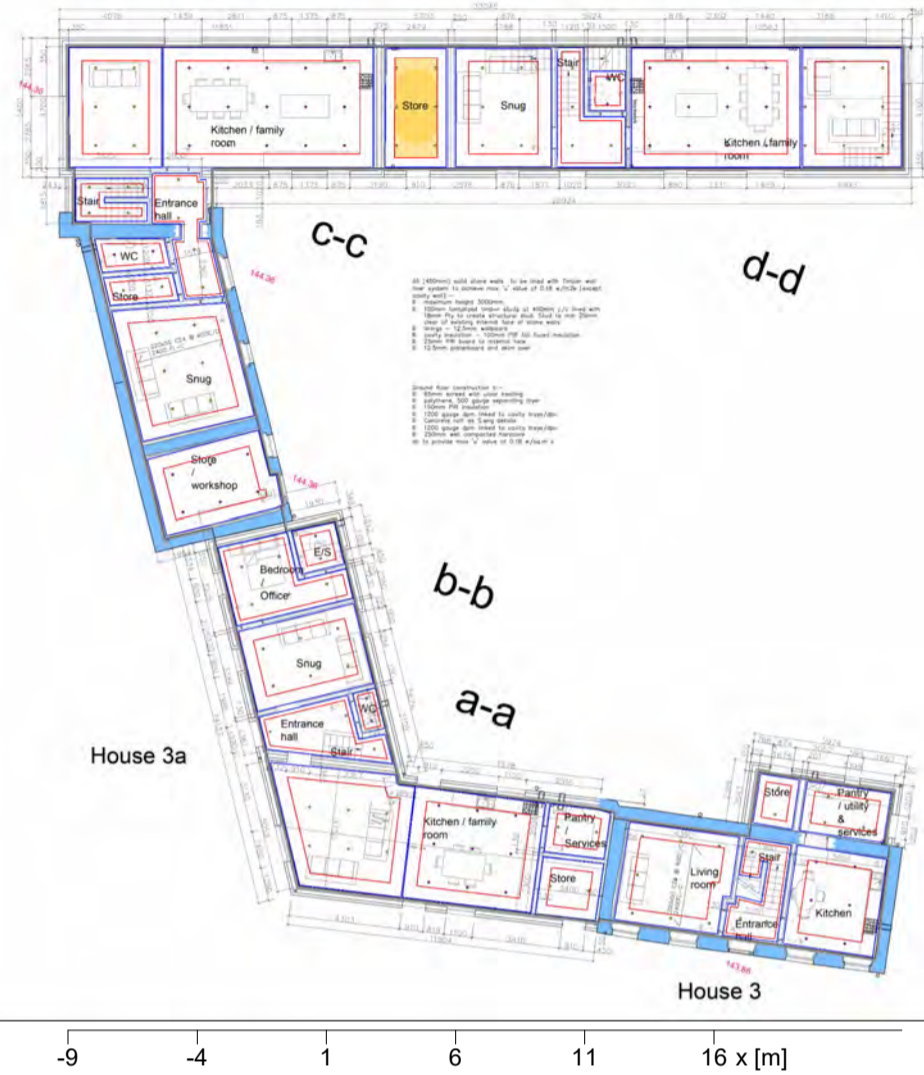
Type No. Make

1	6 x	ANSELL	
		Order No.	: APRIP/1 (5W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 5 W / 566 lm



4.2 Summary, House 4/ New dwelling/house 3/a

4.2.8 Result overview, Store



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	3615 lm
Total power	30.0 W
Total power per area (10.80 m ²)	2.78 W/m ² (1.78 W/m ² /100lx)

Store

Store	Store	
\bar{E}_m	Horizontal	cylindrical
E_{min}	156 lx	46 lx
$E_{min}/\bar{E}_m (U_0)$	123 lx	35 lx
$E_{min}/E_{max} (U_d)$	0.79	0.76
E_z/E_h	0.70	0.26
Position	0.00 m	0.45 m
RUG (--- ---)	---	

Hints:
 - Room dimensions deviate too much from a rectangular room.

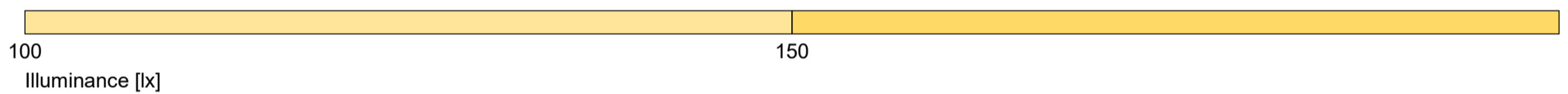
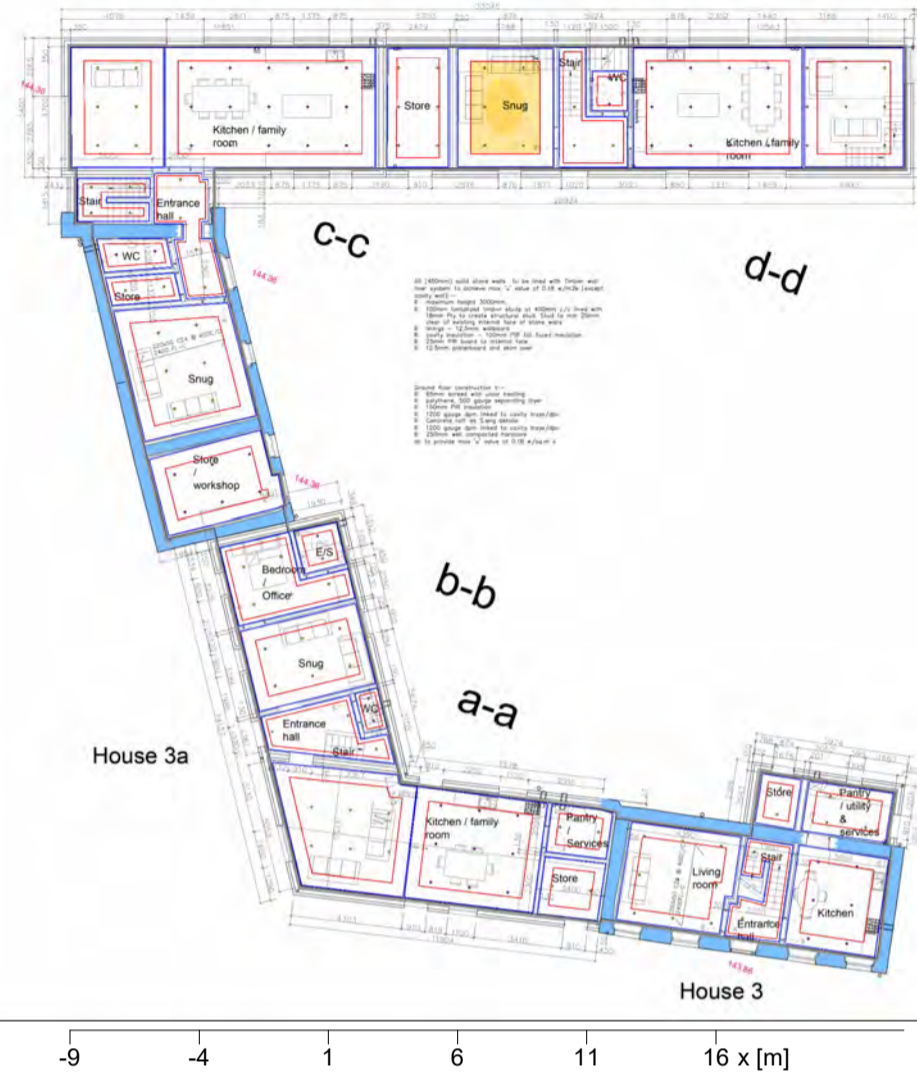
Type No. Make

1	6 x	ANSELL
	Order No.	: APRIP/1 (5W 4000K)
	Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
	Equipment	: 1 x LED single 840 5 W / 566 lm



4.2 Summary, House 4/ New dwelling/house 3/a

4.2.9 Result overview, Snug




General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	3615 lm
Total power	30.0 W
Total power per area (16.88 m ²)	1.78 W/m ² (1.28 W/m ² /100lx)

Snug

Snug	Snug	
\bar{E}_m	Horizontal	cylindrical
E_{min}	139 lx	38 lx
$E_{min}/\bar{E}_m (U_0)$	104 lx	29 lx
$E_{min}/E_{max} (U_d)$	0.75	0.77
E_z/E_h	0.63	0.25
Position	0.00 m	0.45 m
RUG (--- ---)	---	
Hints:		
- Room dimensions deviate too much from a rectangular room.		

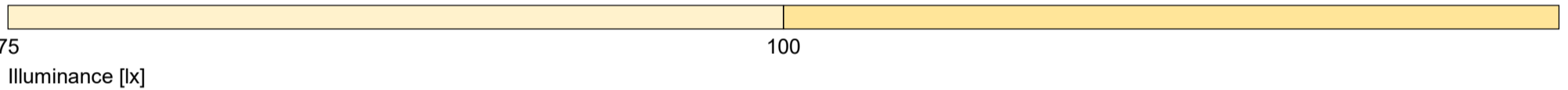
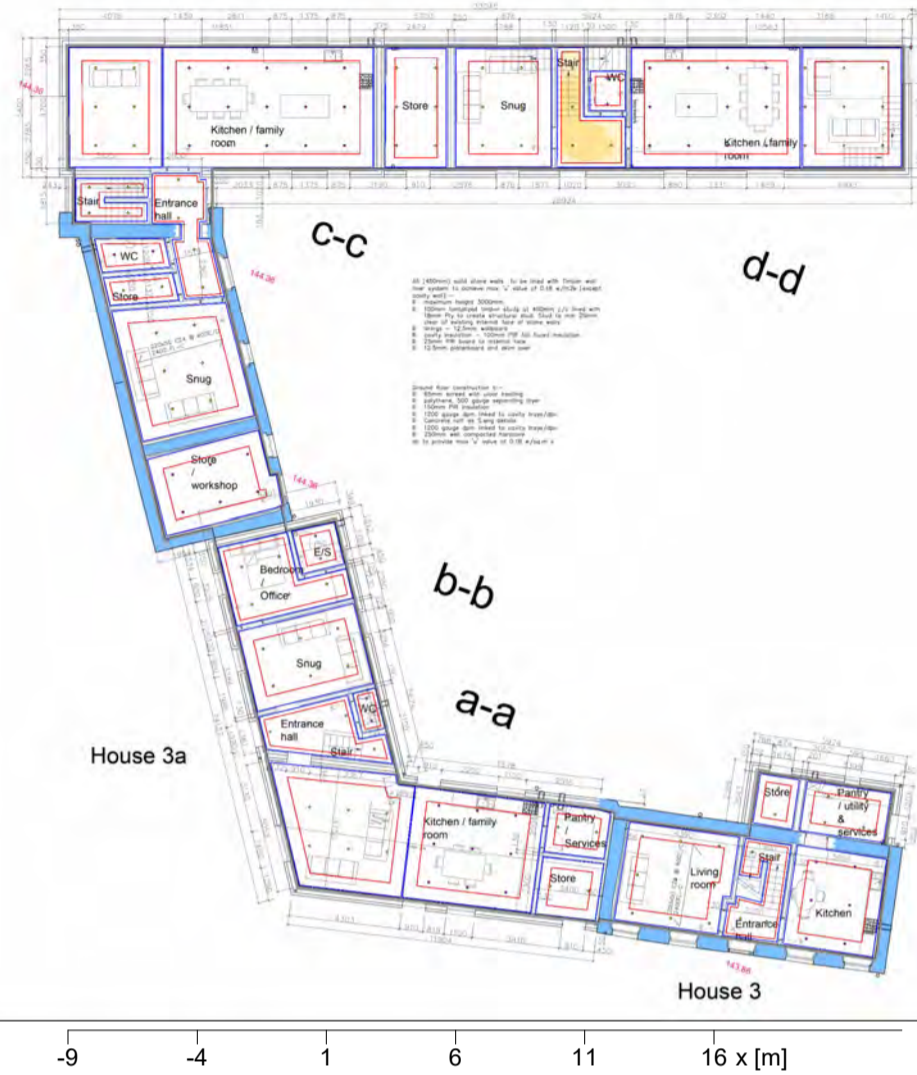
Type No. Make

1	6 x	ANSELL	
		Order No.	: APRIP/1 (5W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 5 W / 566 lm



4.2 Summary, House 4/ New dwelling/house 3/a


4.2.10 Result overview, Stairs



General	
Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	2410 lm
Total power	20.0 W
Total power per area (7.81 m ²)	2.56 W/m ² (2.33 W/m ² /100lx)

Stairs	Stairs	
	Horizontal	cylindrical
\bar{E}_m	110 lx	31 lx
E_{min}	80 lx	21 lx
$E_{min}/\bar{E}_m (U_0)$	0.73	0.66
$E_{min}/E_{max} (U_d)$	0.62	
E_z/E_h		0.25
Position	0.00 m	0.45 m
RUG (--- ---)	---	
Hints:		
- Room dimensions deviate too much from a rectangular room.		

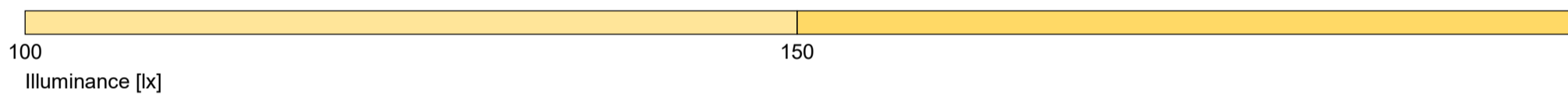
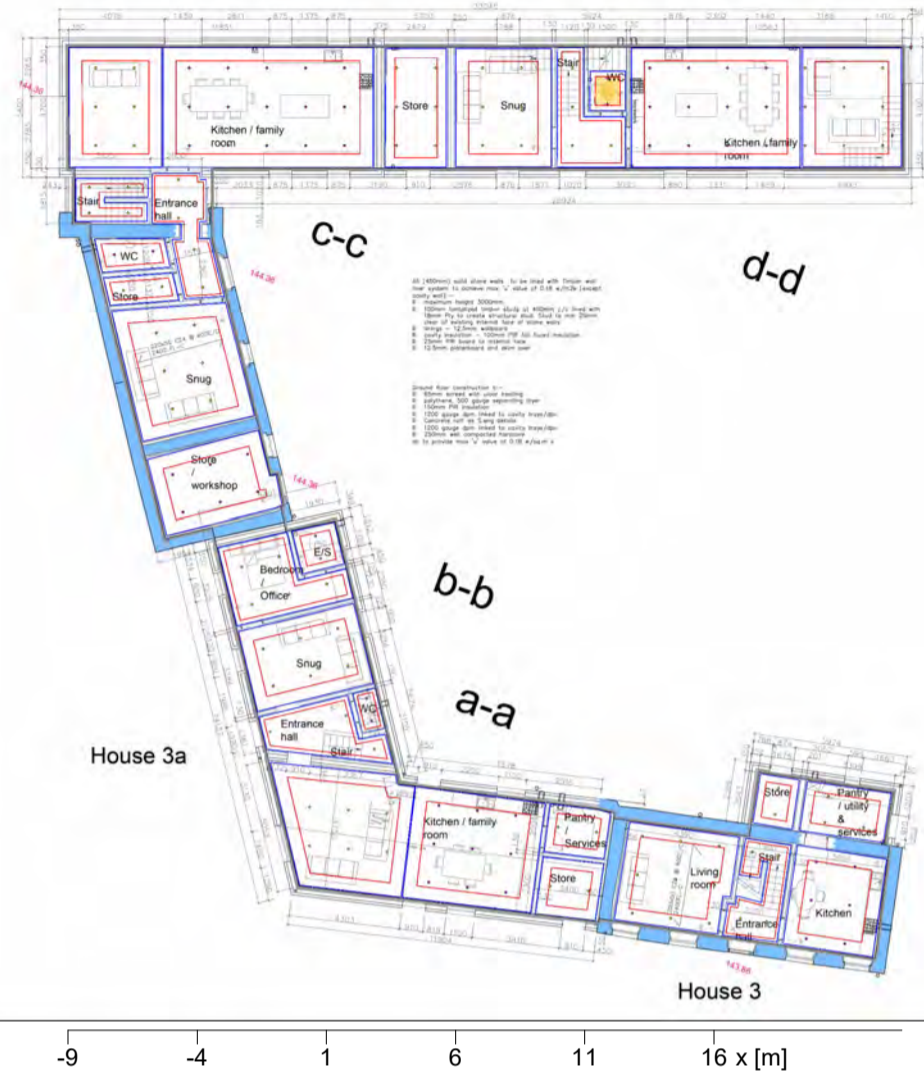
Type No. Make

1	4 x	ANSELL	
		Order No.	: APRIP/1 (5W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 5 W / 566 lm



4.2 Summary, House 4/ New dwelling/house 3/a

4.2.11 Result overview, WC




General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	1569 lm
Total power	14.0 W
Total power per area (2.10 m ²)	6.67 W/m ² (4.49 W/m ² /100lx)

WC		WC	
\bar{E}_m	148 lx	Horizontal	cylindrical
E_{min}	139 lx		38 lx
$E_{min}/\bar{E}_m (U_0)$	0.94		35 lx
$E_{min}/E_{max} (U_d)$	0.88		0.92
E_z/E_h			0.20
Position	0.00 m		0.45 m
RUG (--- ---)	---		

Hints:
 - Room dimensions deviate too much from a rectangular room.

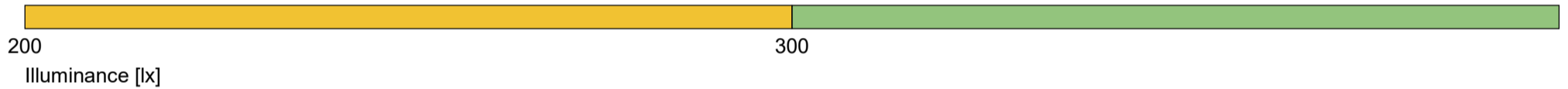
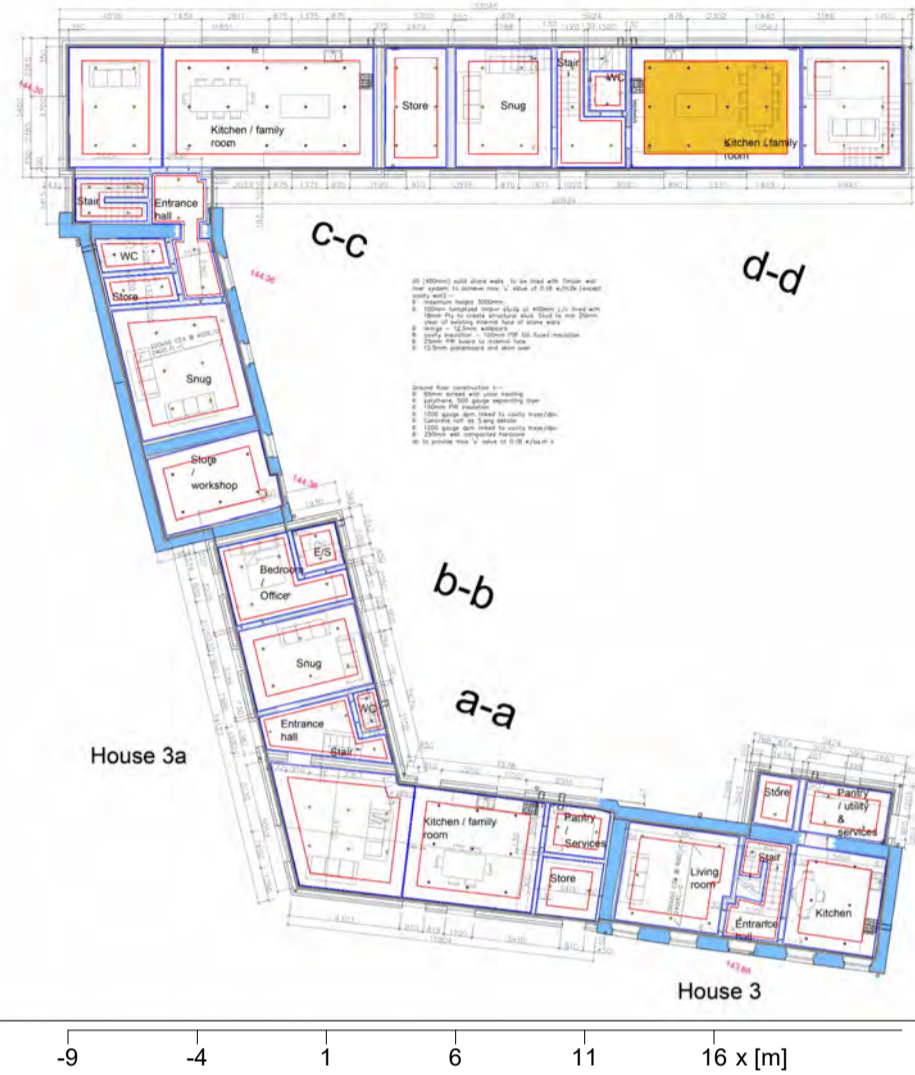
Type No. Make

2	2 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



4.2 Summary, House 4/ New dwelling/house 3/a

4.2.12 Result overview, Kitchen



General	
Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	9414 lm
Total power	84.0 W
Total power per area (30.08 m ²)	2.79 W/m ² (1.06 W/m ² /100lx)

Kitchen	Kitchen	
\bar{E}_m	Horizontal	cylindrical
E_{min}	264 lx	81 lx
$E_{min}/\bar{E}_m (U_0)$	232 lx	57 lx
$E_{min}/E_{max} (U_d)$	0.88	0.70
E_z/E_h	0.78	
Position	0.75 m	0.28
RUG (--- ---)	---	1.20 m
Hints:		
- Room dimensions deviate too much from a rectangular room.		

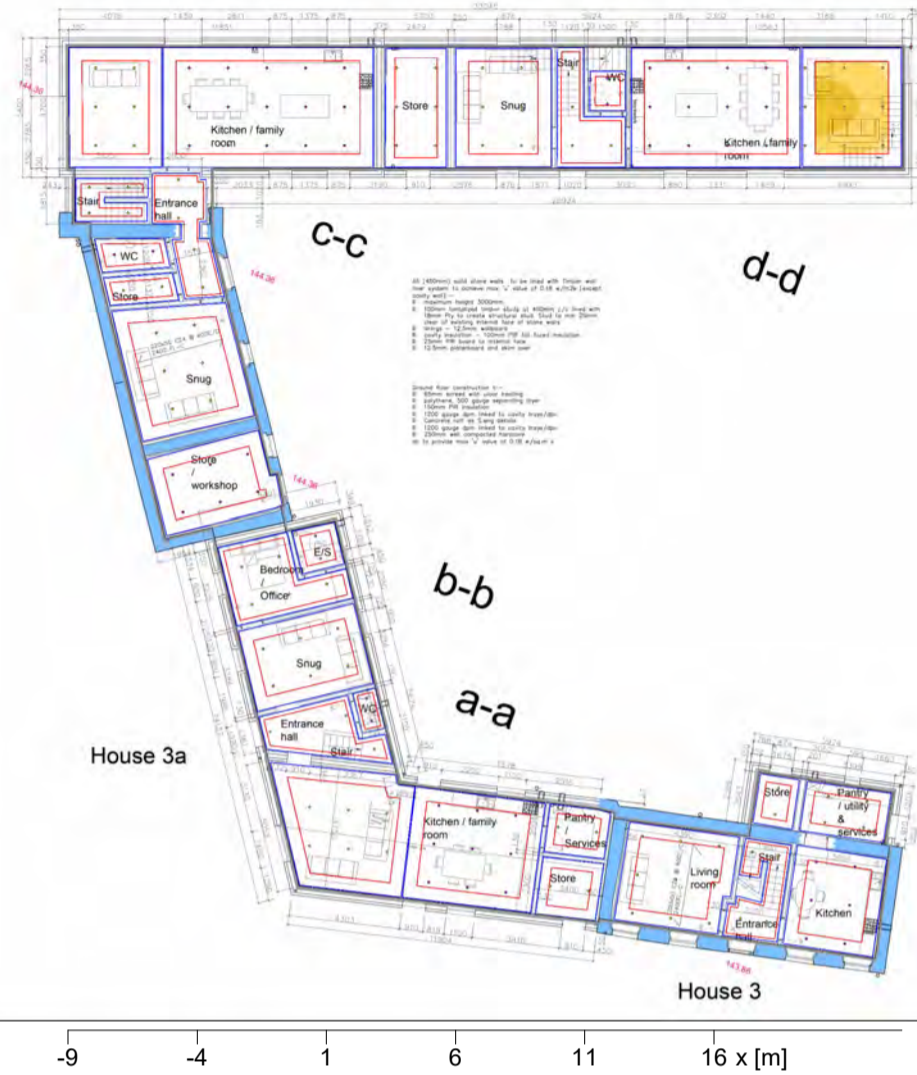
Type No. Make

2	12 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



4.2 Summary, House 4/ New dwelling/house 3/a

4.2.13 Result overview, Family Room




General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	5423 lm
Total power	45.0 W
Total power per area (17.55 m ²)	2.56 W/m ² (1.37 W/m ² /100lx)

Family Room

Family Room	Family Room	
\bar{E}_m	Horizontal	cylindrical
E_{min}	187 lx	58 lx
$E_{min}/\bar{E}_m (U_0)$	144 lx	42 lx
$E_{min}/E_{max} (U_d)$	0.77	0.73
E_z/E_h	0.65	
Position	0.00 m	0.29
RUG (--- ---)	---	0.45 m
Hints:		
- Room dimensions deviate too much from a rectangular room.		

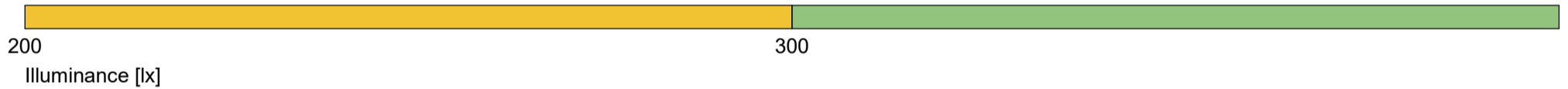
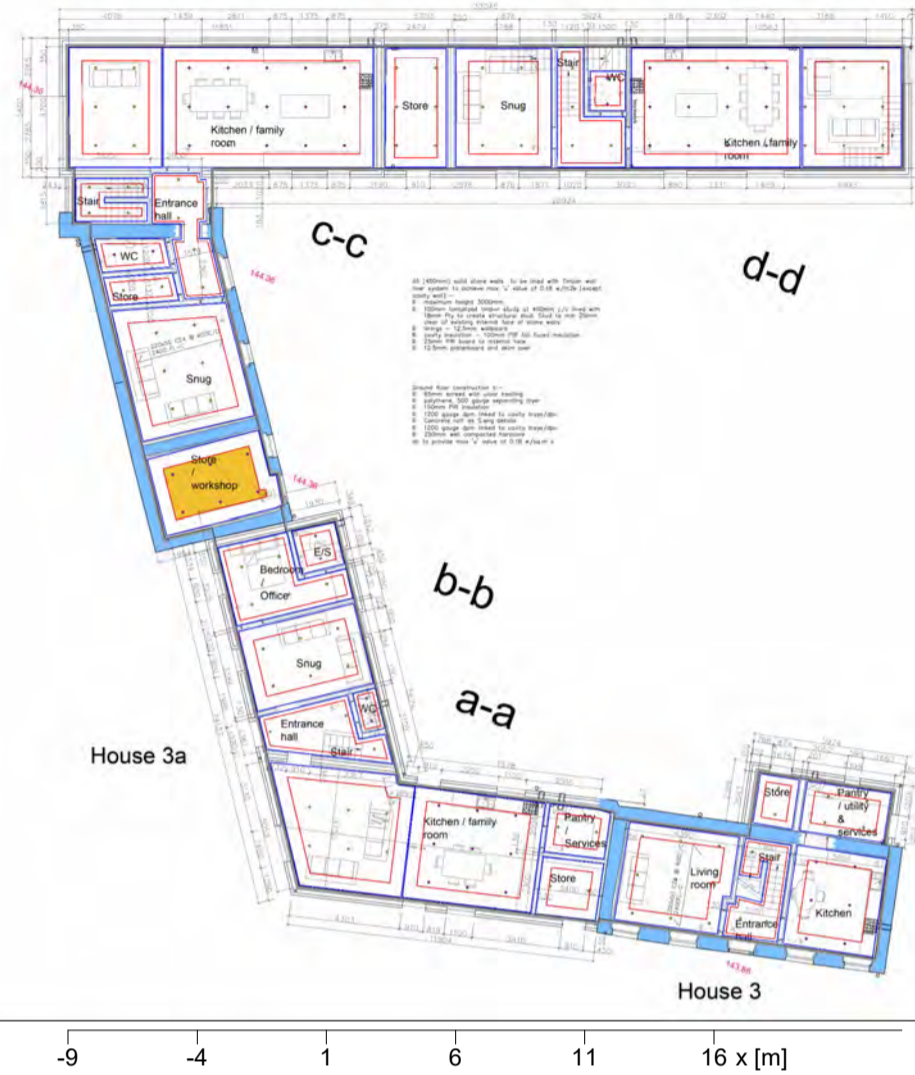
Type No. Make

1	9 x	ANSELL
	Order No.	: APRIP/1 (5W 4000K)
	Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
	Equipment	: 1 x LED single 840 5 W / 566 lm



4.2 Summary, House 4/ New dwelling/house 3/a

4.2.14 Result overview, Store/Workshop



General	
Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	4707 lm
Total power	42.0 W
Total power per area (13.76 m ²)	3.05 W/m ² (1.33 W/m ² /100lx)

Store/Workshop	Store/Workshop	
\bar{E}_m	Horizontal	cylindrical
E_{min}	230 lx	67 lx
$E_{min}/\bar{E}_m (U_0)$	205 lx	46 lx
$E_{min}/E_{max} (U_d)$	0.89	0.68
E_z/E_h	0.81	0.25
Position	0.75 m	1.20 m
RUG (--- ---)	---	
Hints:		
- Room dimensions deviate too much from a rectangular room.		

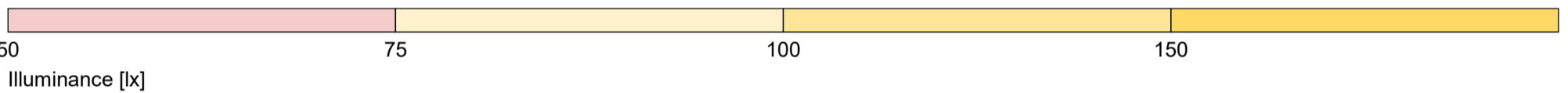
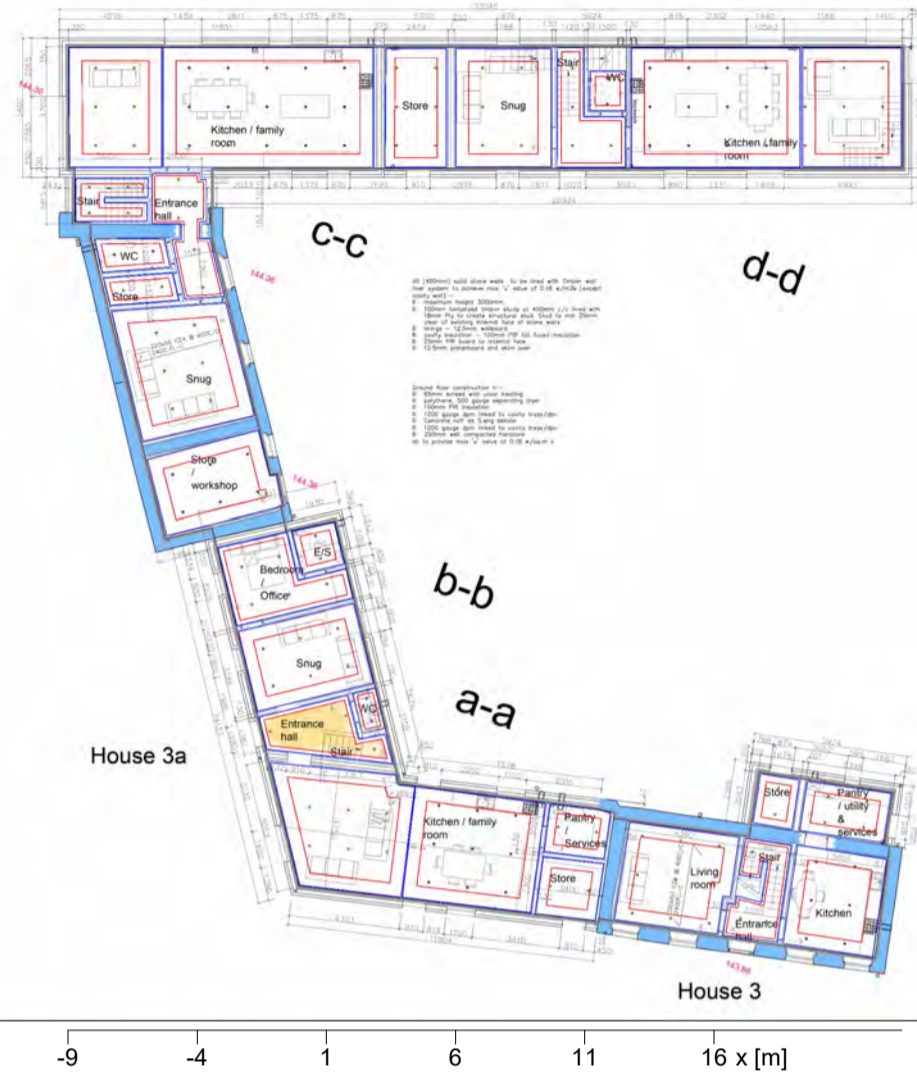
Type No. Make

2	6 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



4.2 Summary, House 4/ New dwelling/house 3/a

4.2.15 Result overview, Entrance



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	2410 lm
Total power	20.0 W
Total power per area (7.87 m ²)	2.54 W/m ² (2.30 W/m ² /100lx)

Entrance

Entrance	Entrance	
\bar{E}_m	Horizontal	cylindrical
E_{min}	111 lx	33 lx
$E_{min}/\bar{E}_m (U_0)$	72 lx	19 lx
$E_{min}/E_{max} (U_d)$	0.65	0.58
E_z/E_h	0.47	
Position	0.00 m	0.26
RUG (--- ---)	---	0.45 m
Hints:		
- Room dimensions deviate too much from a rectangular room.		

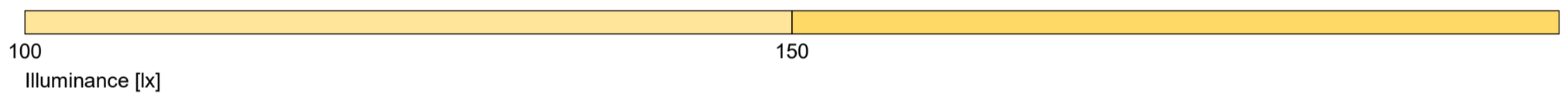
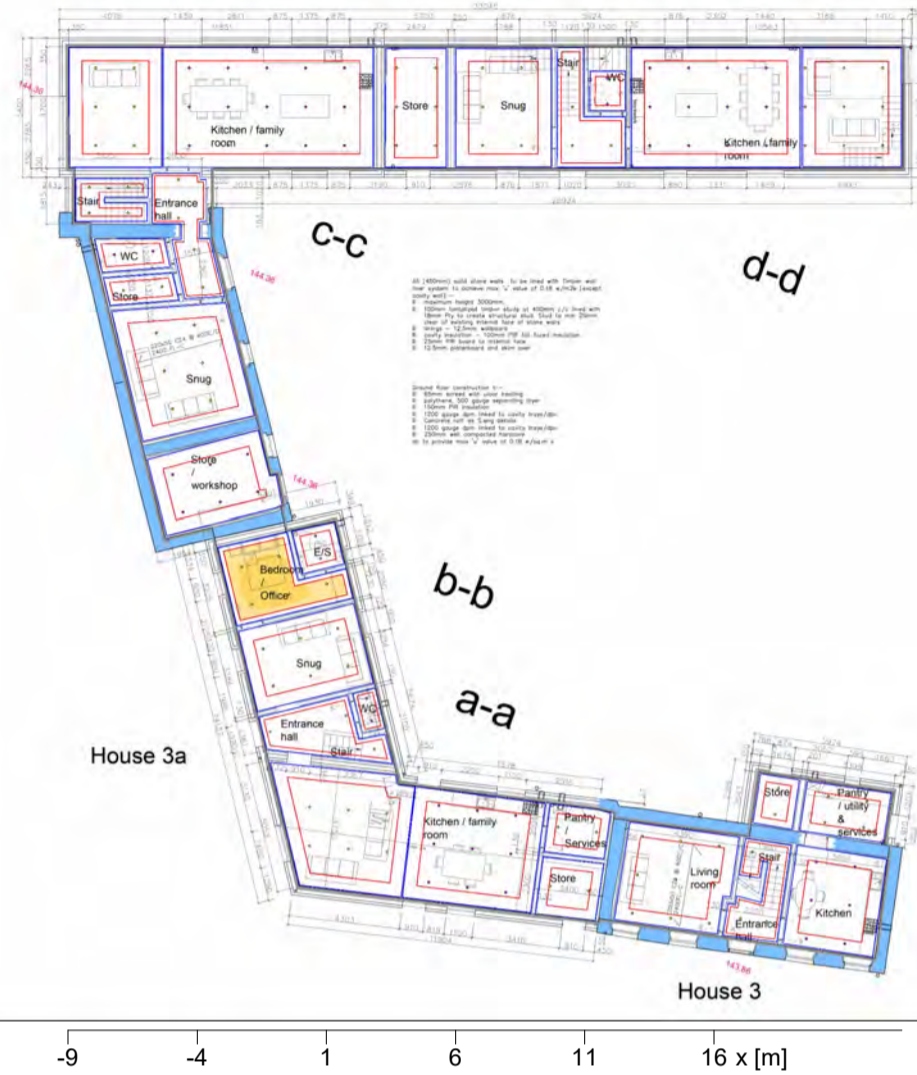
Type No. Make

1	4 x	ANSELL
	Order No.	: APRIP/1 (5W 4000K)
	Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
	Equipment	: 1 x LED single 840 5 W / 566 lm



4.2 Summary, House 4/ New dwelling/house 3/a

4.2.16 Result overview, Bedroom/Office



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	3013 lm
Total power	25.0 W
Total power per area (10.57 m ²)	2.37 W/m ² (1.53 W/m ² /100lx)

Bedroom/Office

Bedroom/Office	Bedroom/Office	
\bar{E}_m	Horizontal	cylindrical
E_{min}	155 lx	48 lx
$E_{min}/\bar{E}_m (U_o)$	102 lx	32 lx
$E_{min}/E_{max} (U_d)$	0.66	0.66
E_z/E_h	0.54	0.26
Position	0.75 m	1.20 m
RUG (--- ---)	---	

Hints:
 - Room dimensions deviate too much from a rectangular room.

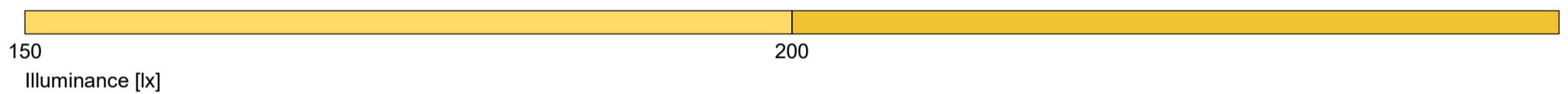
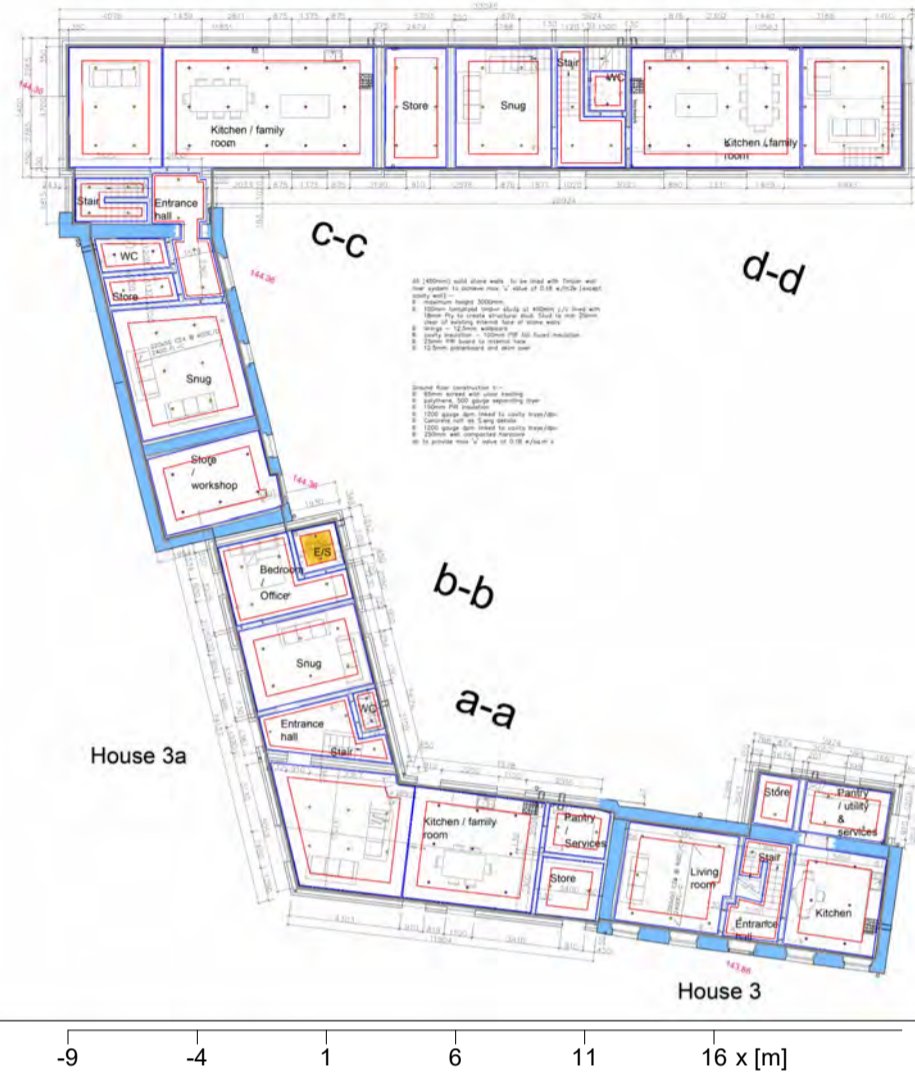
Type No. Make

1	5 x	ANSELL
	Order No.	: APRIP/1 (5W 4000K)
	Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
	Equipment	: 1 x LED single 840 5 W / 566 lm



4.2 Summary, House 4/ New dwelling/house 3/a

4.2.17 Result overview, Ensuite



General	
Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	1569 lm
Total power	14.0 W
Total power per area (2.76 m ²)	5.07 W/m ² (2.33 W/m ² /100lx)

Ensuite	Ensuite	
\bar{E}_m	Horizontal	cylindrical
E_{min}	217 lx	64 lx
$E_{min}/\bar{E}_m (U_0)$	183 lx	51 lx
$E_{min}/E_{max} (U_d)$	0.84	0.80
E_z/E_h	0.73	
Position	0.21	0.21
RUG (--- ---)	0.75 m	1.20 m
Hints:	---	
- Room dimensions deviate too much from a rectangular room.		

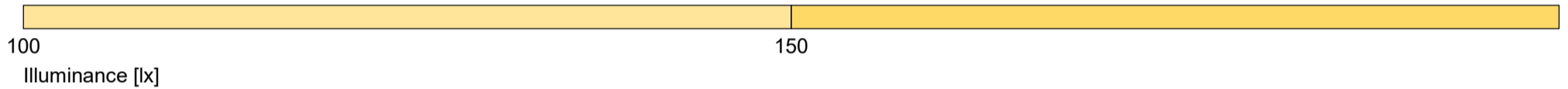
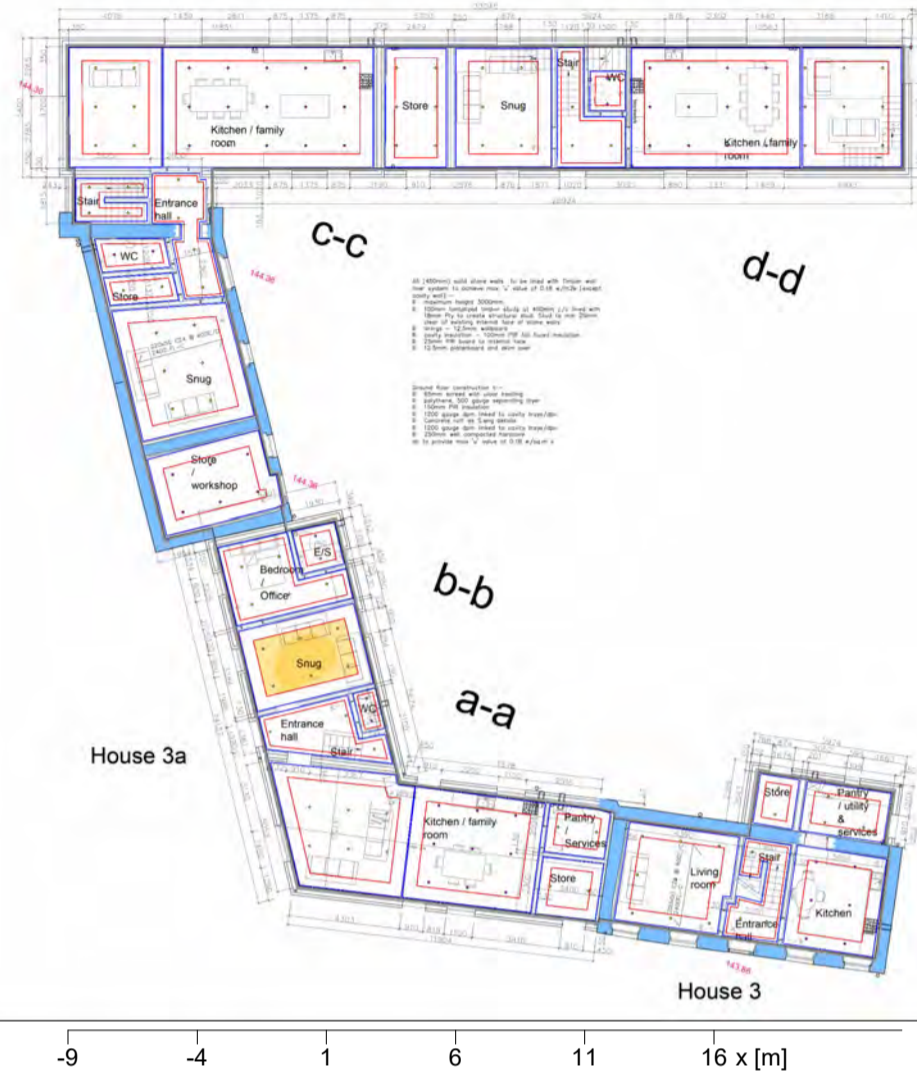
Type No. Make

2	2 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



4.2 Summary, House 4/ New dwelling/house 3/a

4.2.18 Result overview, Snug



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	3615 lm
Total power	30.0 W
Total power per area (14.53 m ²)	2.06 W/m ² (1.38 W/m ² /100lx)

Snug

Snug	Snug	
\bar{E}_m	Horizontal	cylindrical
E_{min}	149 lx	43 lx
$E_{min}/\bar{E}_m (U_o)$	125 lx	33 lx
$E_{min}/E_{max} (U_d)$	0.83	0.77
E_z/E_h	0.73	
Position	0.00 m	0.26
RUG (--- ---)	---	0.45 m
Hints:		
- Room dimensions deviate too much from a rectangular room.		

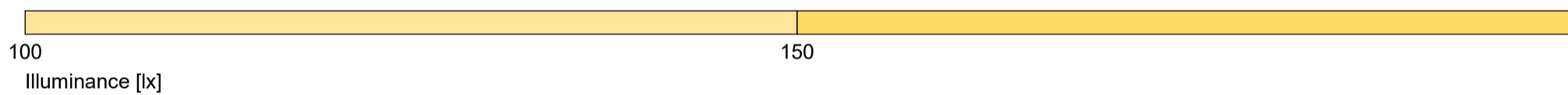
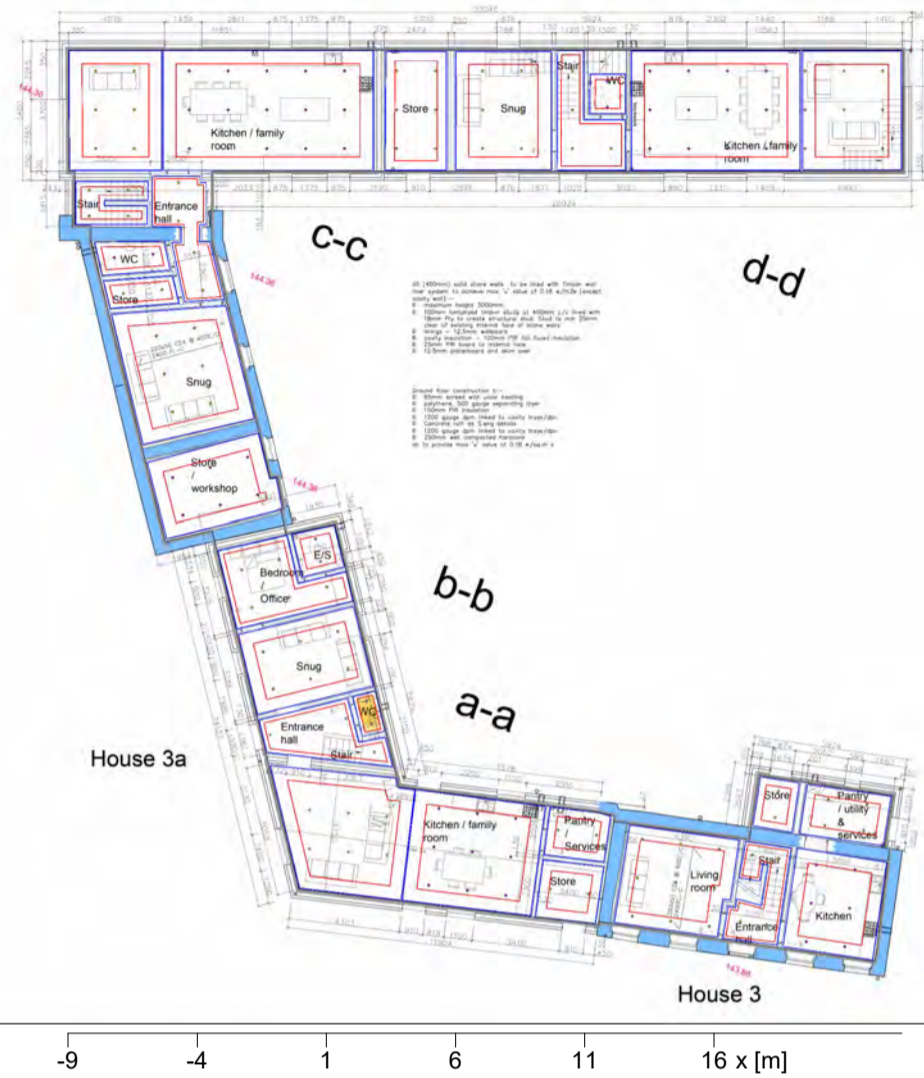
Type No. Make

1	6 x	ANSELL
	Order No.	: APRIP/1 (5W 4000K)
	Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
	Equipment	: 1 x LED single 840 5 W / 566 lm



4.2 Summary, House 4/ New dwelling/house 3/a

4.2.19 Result overview, WC



General	
Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	1569 lm
Total power	14.0 W
Total power per area (1.42 m ²)	9.85 W/m ² (6.35 W/m ² /100lx)

WC	WC	
\bar{E}_m	Horizontal	cylindrical
E_{min}	155 lx	36 lx
$E_{min}/\bar{E}_m (U_0)$	135 lx	33 lx
$E_{min}/E_{max} (U_d)$	0.87	0.92
E_z/E_h	0.82	0.18
Position	0.00 m	0.45 m
RUG (--- ---)	---	
Hints:		
- Room dimensions deviate too much from a rectangular room.		

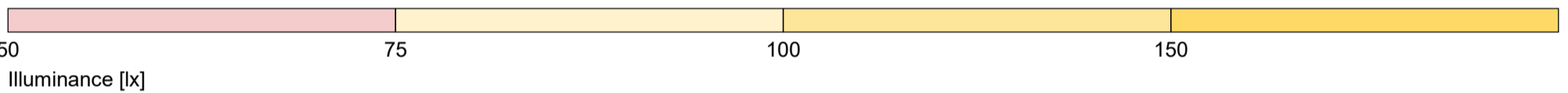
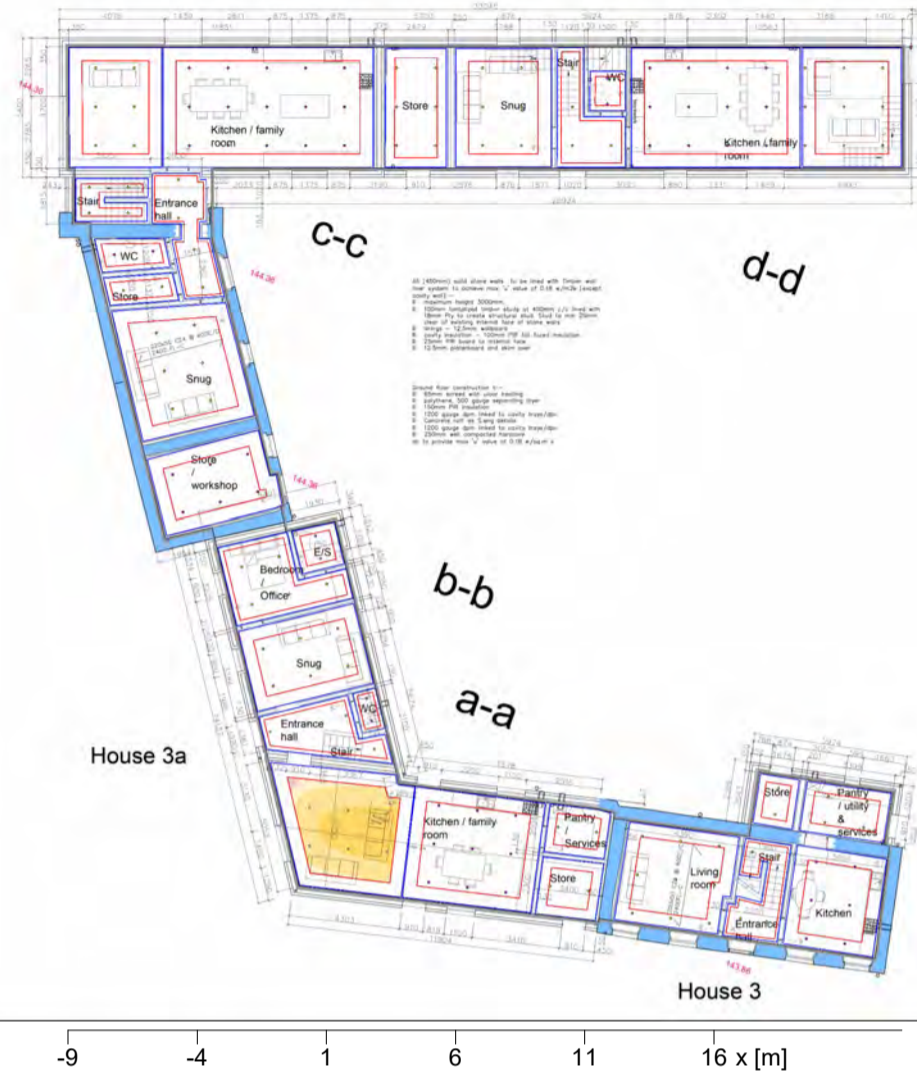
Type No. Make

2	2 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



4.2 Summary, House 4/ New dwelling/house 3/a

4.2.20 Result overview, Family Room



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	3615 lm
Total power	30.0 W
Total power per area (22.00 m ²)	1.36 W/m ² (0.98 W/m ² /100lx)

Family Room

Family Room	Family Room	
\bar{E}_m	Horizontal	cylindrical
E_{min}	140 lx	42 lx
$E_{min}/\bar{E}_m (U_0)$	71 lx	27 lx
$E_{min}/E_{max} (U_d)$	0.51	0.65
E_z/E_h	0.39	
Position	0.00 m	0.28
RUG (--- ---)	---	0.45 m
Hints:		
- Room dimensions deviate too much from a rectangular room.		

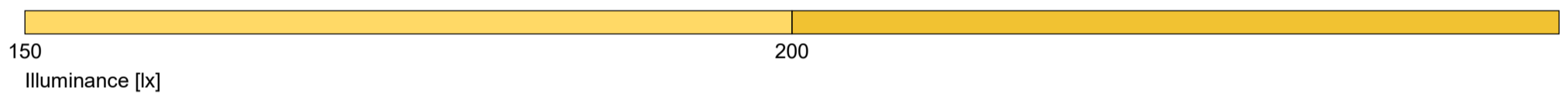
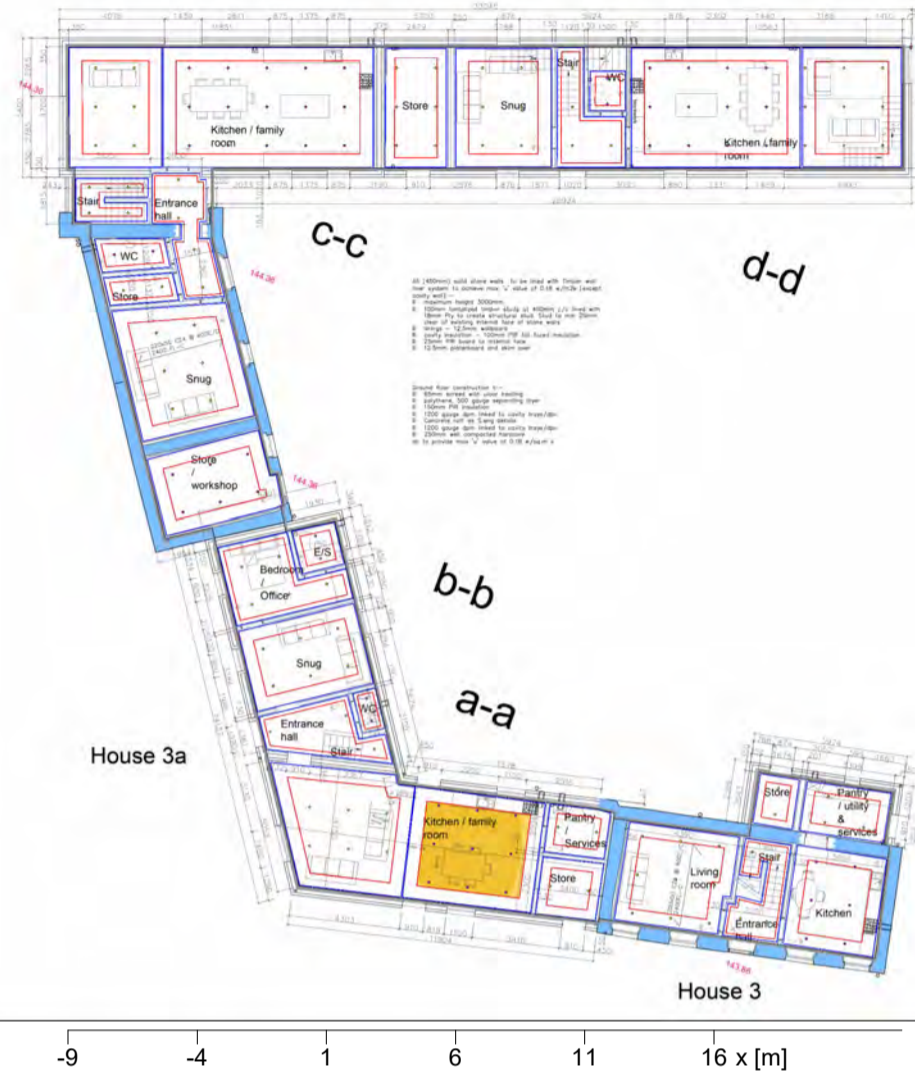
Type No. Make

1	6 x	ANSELL
	Order No.	: APRIP/1 (5W 4000K)
	Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
	Equipment	: 1 x LED single 840 5 W / 566 lm



4.2 Summary, House 4/ New dwelling/house 3/a

4.2.21 Result overview, Kitchen



General	
Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	7060 lm
Total power	63.0 W
Total power per area (21.50 m ²)	2.93 W/m ² (1.18 W/m ² /100lx)

Kitchen	Kitchen	
\bar{E}_m	Horizontal	cylindrical
E_{min}	249 lx	75 lx
$E_{min}/\bar{E}_m (U_0)$	194 lx	57 lx
$E_{min}/E_{max} (U_d)$	0.78	0.76
E_z/E_h	0.68	
Position	0.75 m	0.27
RUG (--- ---)	---	1.20 m
Hints:		
- Room dimensions deviate too much from a rectangular room.		

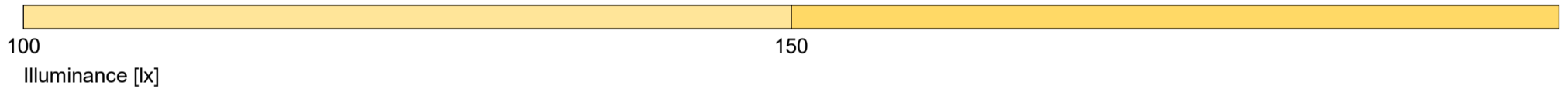
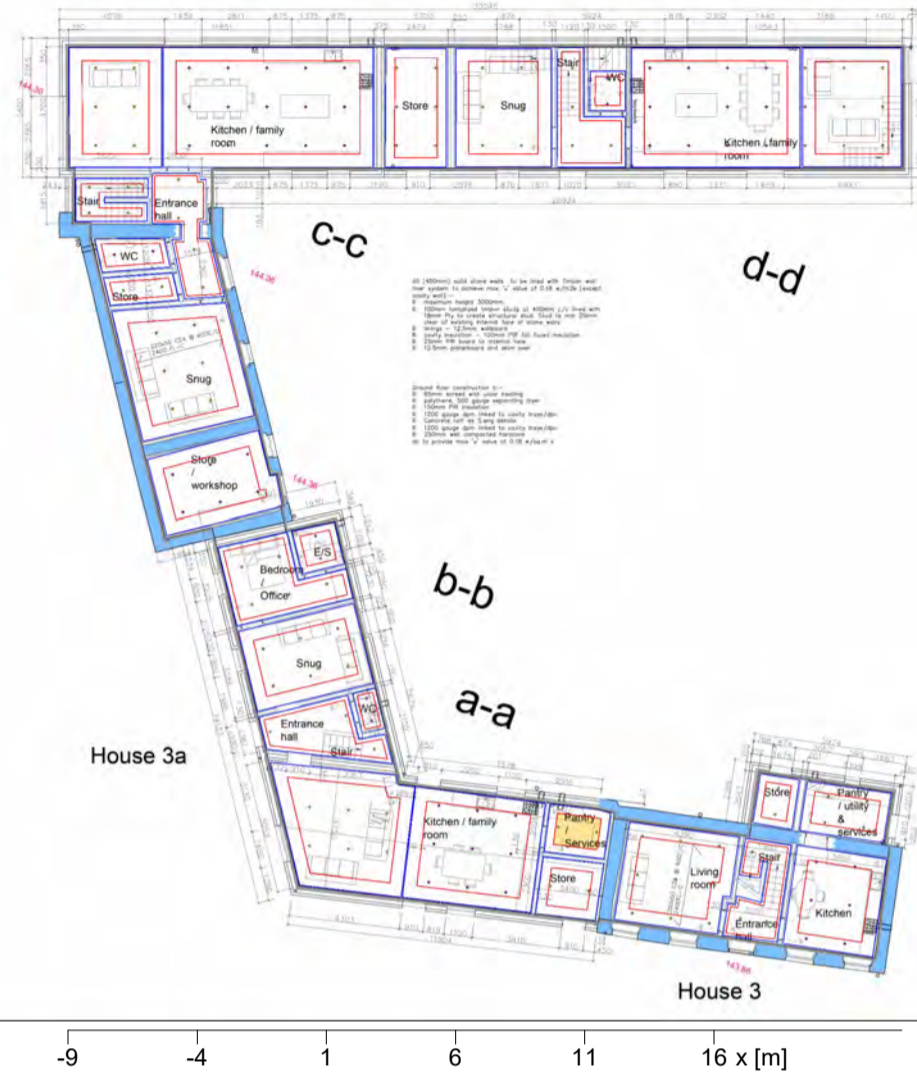
Type No. Make

2	9 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



4.2 Summary, House 4/ New dwelling/house 3/a

4.2.22 Result overview, Pantry/Services



General	
Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	1205 lm
Total power	10.0 W
Total power per area (4.33 m ²)	2.31 W/m ² (1.80 W/m ² /100lx)

Pantry/Services	Pantry/Services	
\bar{E}_m	Horizontal	cylindrical
E_{min}	128 lx	38 lx
$E_{min}/\bar{E}_m (U_0)$	110 lx	28 lx
$E_{min}/E_{max} (U_d)$	0.85	0.73
E_z/E_h	0.77	
Position	0.23	0.23
RUG (--- ---)	0.75 m	1.20 m
Hints:	---	
- Room dimensions deviate too much from a rectangular room.		

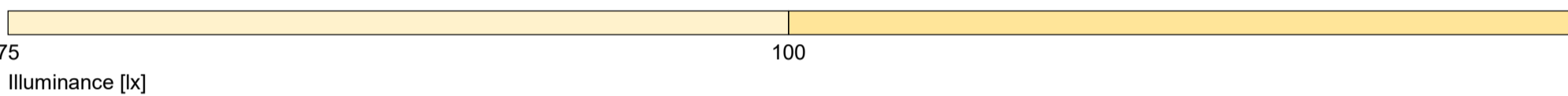
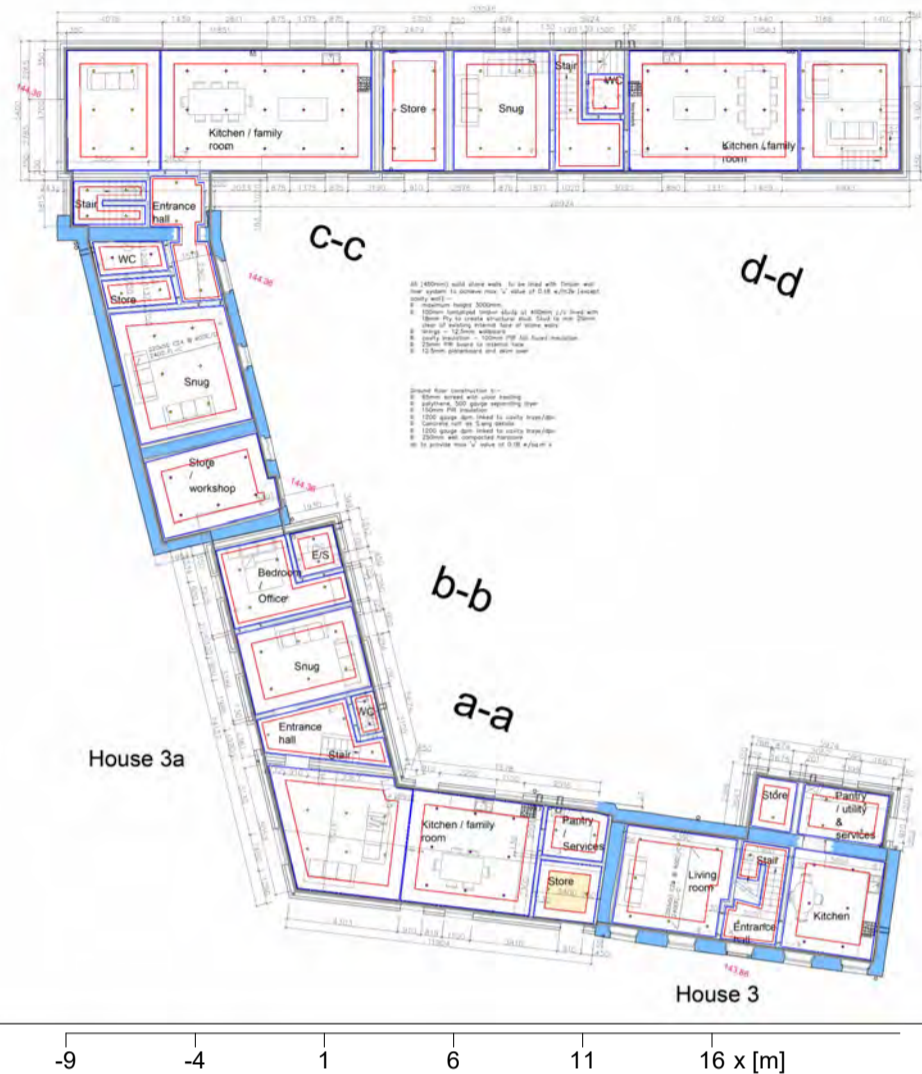
Type No. Make

1	2 x	ANSELL	
		Order No.	: APRIP/1 (5W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 5 W / 566 lm



4.2 Summary, House 4/ New dwelling/house 3/a

4.2.23 Result overview, Store



General	
Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	1205 lm
Total power	10.0 W
Total power per area (5.16 m ²)	1.94 W/m ² (2.17 W/m ² /100lx)

Store	Store	
\bar{E}_m	Horizontal	cylindrical
E_{min}	89.4 lx	24.1 lx
$E_{min}/\bar{E}_m (U_0)$	79.4 lx	18.6 lx
$E_{min}/E_{max} (U_d)$	0.89	0.77
E_z/E_h	0.81	0.23
Position	0.00 m	0.45 m
RUG (--- ---)	---	
Hints:		
- Room dimensions deviate too much from a rectangular room.		

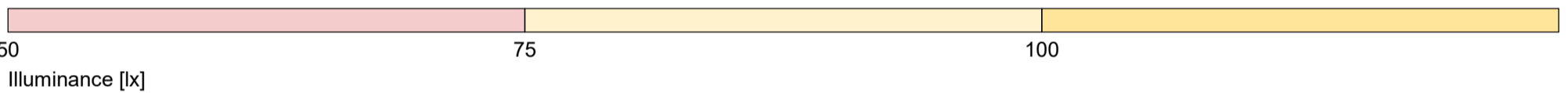
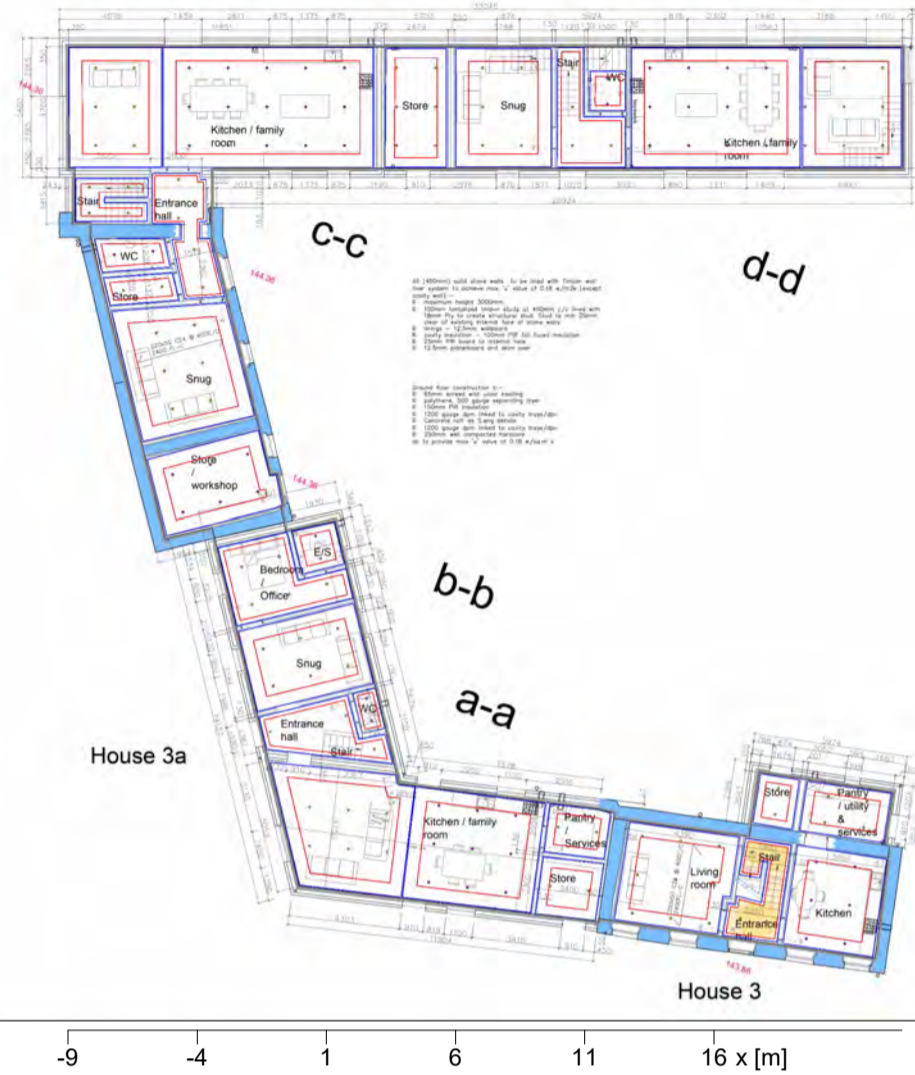
Type No. Make

1	2 x	ANSELL	
		Order No.	: APRIP/1 (5W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 5 W / 566 lm



4.2 Summary, House 4/ New dwelling/house 3/a

4.2.24 Result overview, Entrance/Stairs



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	2410 lm
Total power	20.0 W
Total power per area (6.17 m ²)	3.24 W/m ² (3.09 W/m ² /100lx)

Entrance/Stairs

Entrance/Stairs	Entrance/Stairs	
\bar{E}_m	Horizontal	cylindrical
E_{min}	105 lx	29 lx
$E_{min}/\bar{E}_m (U_0)$	74 lx	26 lx
$E_{min}/E_{max} (U_d)$	0.70	0.87
E_z/E_h	0.60	0.23
Position	0.00 m	0.45 m
RUG (--- ---)	---	
Hints:		
- Room dimensions deviate too much from a rectangular room.		

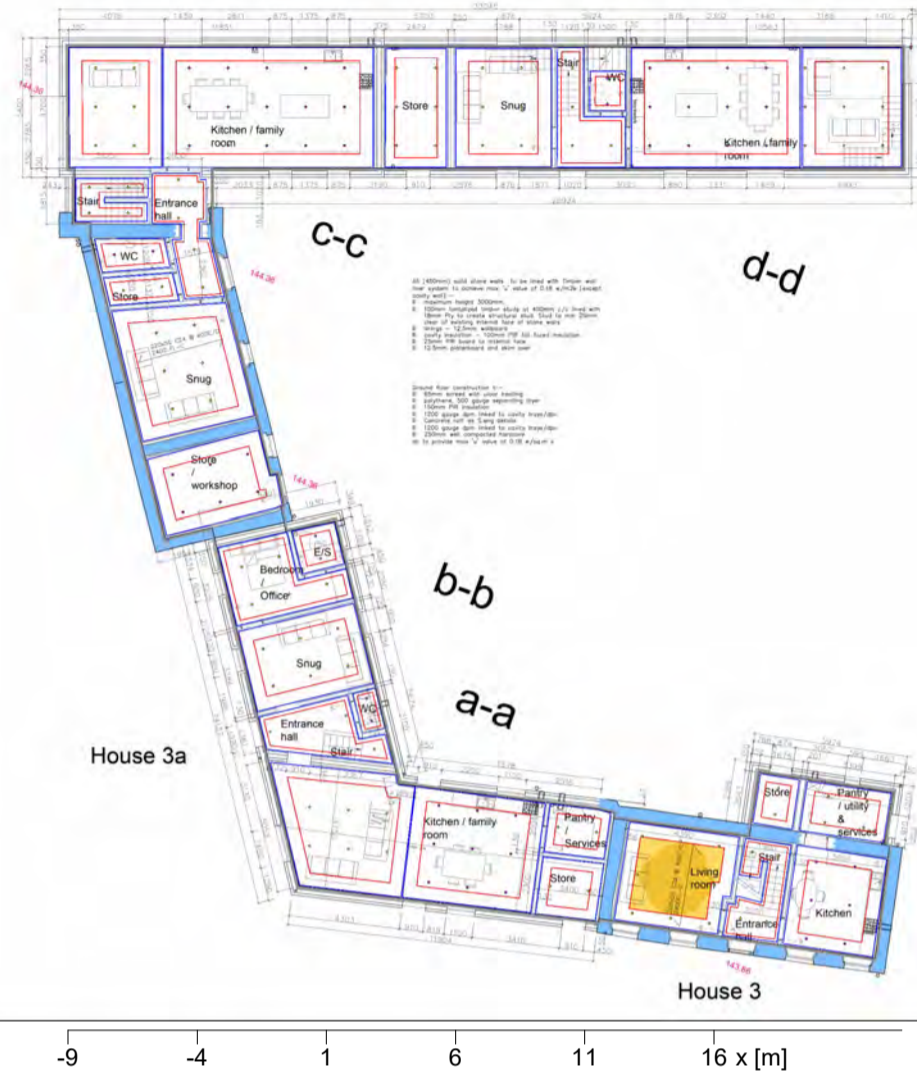
Type No. Make

1	4 x	ANSELL
	Order No.	: APRIP/1 (5W 4000K)
	Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
	Equipment	: 1 x LED single 840 5 W / 566 lm



4.2 Summary, House 4/ New dwelling/house 3/a

4.2.25 Result overview, Living Room



150
Illuminance [lx]

200

General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	5423 lm
Total power	45.0 W
Total power per area (15.95 m ²)	2.82 W/m ² (1.37 W/m ² /100lx)

Living Room

	Living Room	
	Horizontal	cylindrical
\bar{E}_m	205 lx	67 lx
E_{min}	187 lx	56 lx
$E_{min}/\bar{E}_m (U_0)$	0.91	0.83
$E_{min}/E_{max} (U_d)$	0.82	
E_z/E_h		0.30
Position	0.75 m	1.20 m
RUG (--- ---)	---	

Hints:
- Room dimensions deviate too much from a rectangular room.

Type No. Make

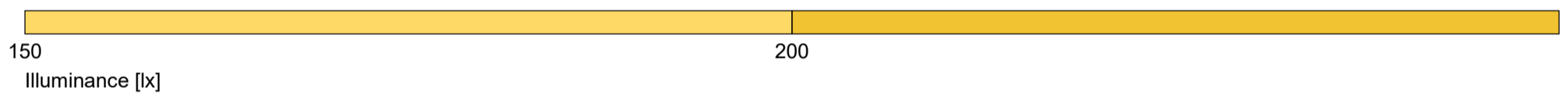
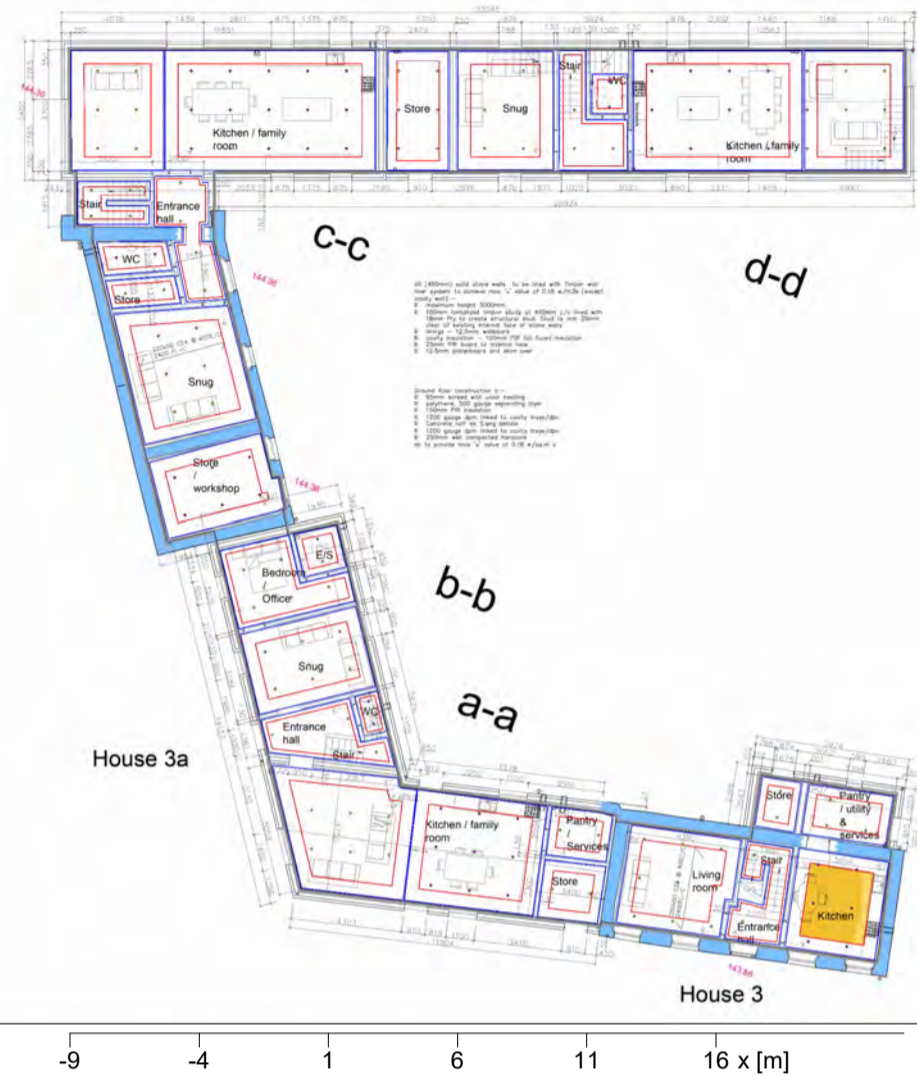
1	9 x	ANSELL	
		Order No.	: APRIP/1 (5W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 5 W / 566 lm





4.2 Summary, House 4/ New dwelling/house 3/a

4.2.26 Result overview, Kitchen



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	4707 lm
Total power	42.0 W
Total power per area (13.40 m ²)	3.13 W/m ² (1.37 W/m ² /100lx)

Kitchen

Kitchen	Kitchen	
\bar{E}_m	Horizontal	cylindrical
E_{min}	229 lx	69 lx
$E_{min}/\bar{E}_m (U_0)$	172 lx	53 lx
$E_{min}/E_{max} (U_d)$	0.75	0.77
E_z/E_h	0.67	0.27
Position	0.75 m	1.20 m
RUG (--- ---)	---	
Hints:		
- Room dimensions deviate too much from a rectangular room.		

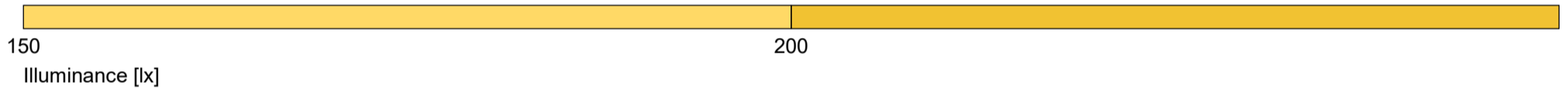
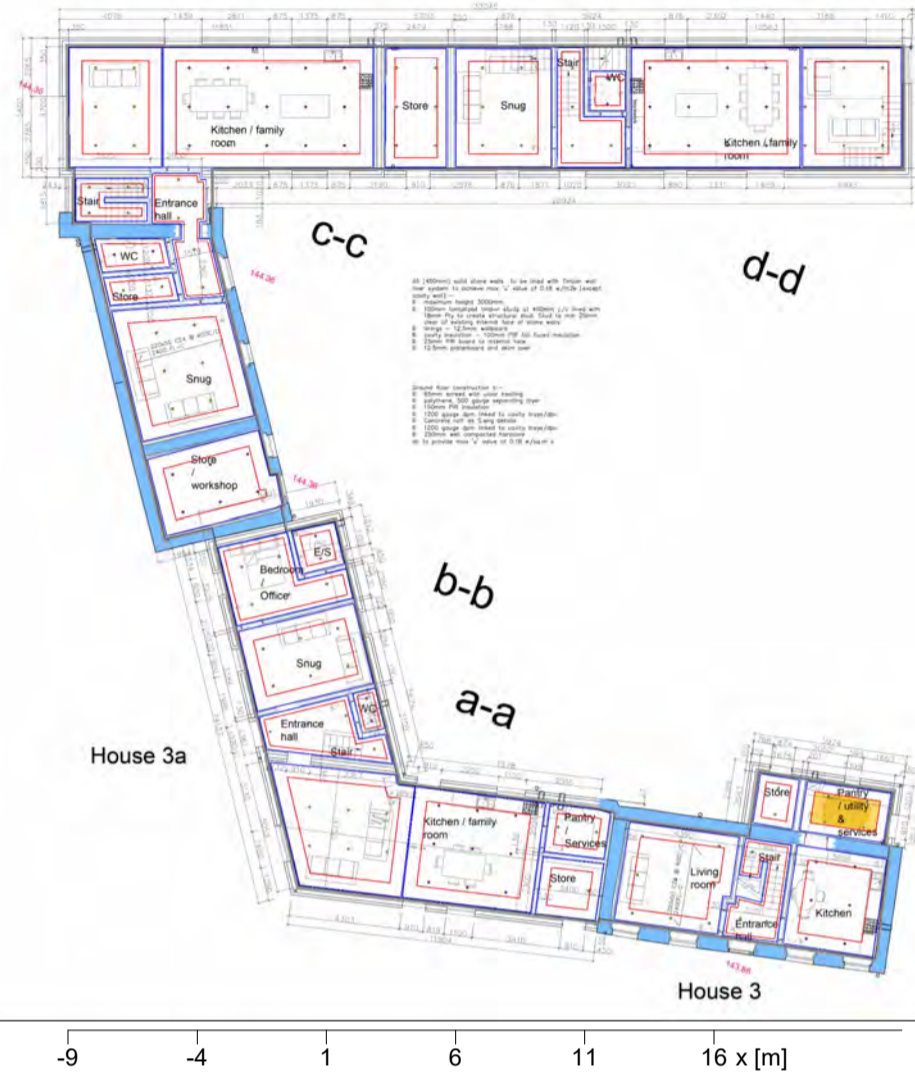
Type No. Make

2	6 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



4.2 Summary, House 4/ New dwelling/house 3/a

4.2.27 Result overview, Pantry/Services




General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	2410 lm
Total power	20.0 W
Total power per area (6.31 m ²)	3.17 W/m ² (1.56 W/m ² /100lx)

Pantry/Services

Pantry/Services	Pantry/Services	
\bar{E}_m	Horizontal	cylindrical
E_{min}	203 lx	60 lx
$E_{min}/\bar{E}_m (U_0)$	158 lx	45 lx
$E_{min}/E_{max} (U_d)$	0.78	0.75
E_z/E_h	0.69	
Position	0.75 m	0.23
RUG (--- ---)	---	1.20 m
Hints:		
- Room dimensions deviate too much from a rectangular room.		

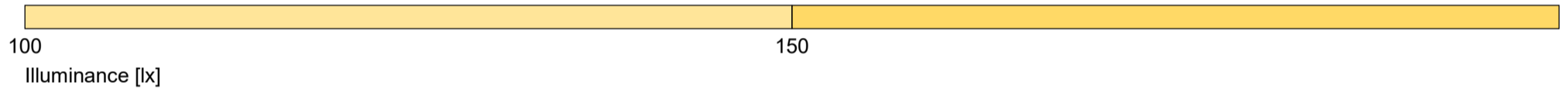
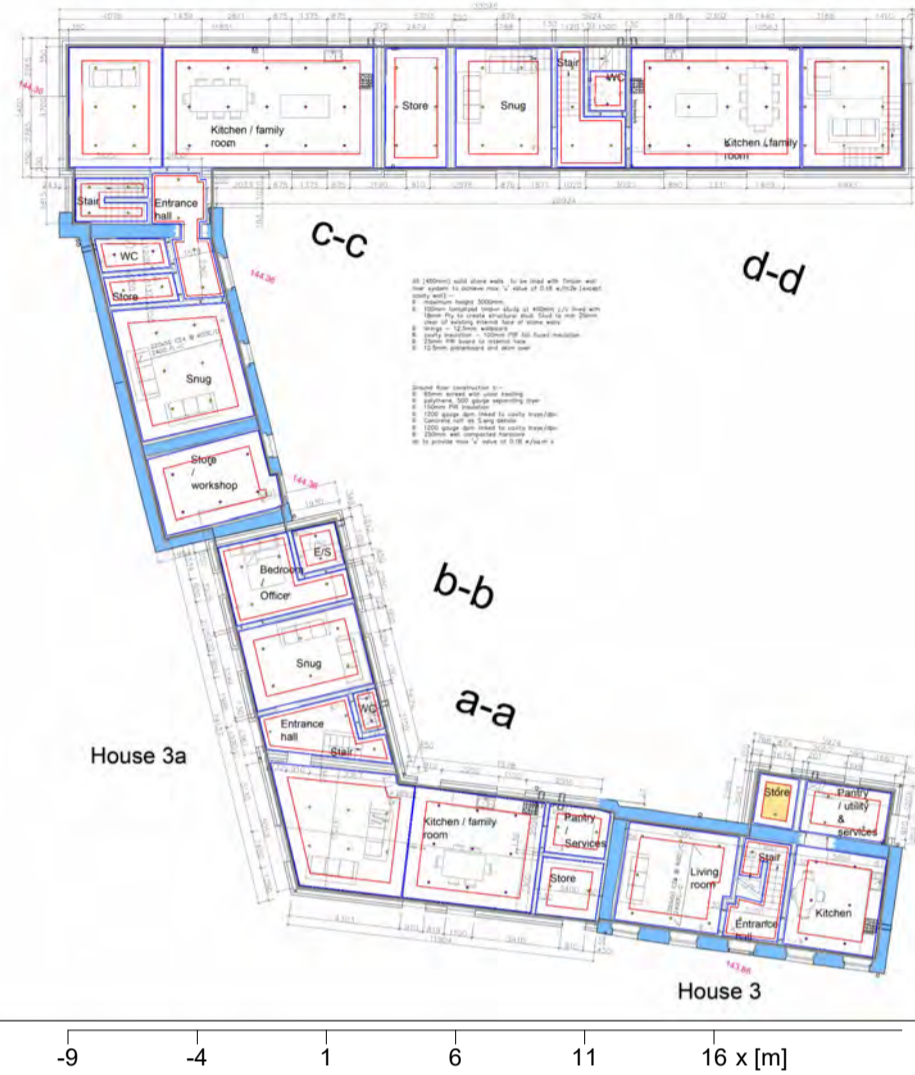
Type No. Make

1	4 x	ANSELL	
		Order No.	: APRIP/1 (5W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 5 W / 566 lm



4.2 Summary, House 4/ New dwelling/house 3/a

4.2.28 Result overview, Store



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.70 m
Maintenance factor	0.80
Luminaire luminous flux	1205 lm
Total power	10.0 W
Total power per area (2.93 m ²)	3.41 W/m ² (2.98 W/m ² /100lx)

Store

Store	Store	
\bar{E}_m	Horizontal	cylindrical
E_{min}	115 lx	31 lx
$E_{min}/\bar{E}_m (U_0)$	106 lx	26 lx
$E_{min}/E_{max} (U_d)$	0.92	0.86
E_z/E_h	0.87	
Position	0.00 m	0.22
RUG (--- ---)	---	0.45 m
Hints:		
- Room dimensions deviate too much from a rectangular room.		

Type No. Make

1	2 x	ANSELL	
		Order No.	: APRIP/1 (5W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 5 W / 566 lm



5 Barn 3A FF

5.1 Description, Barn 3A FF

5.1.1 Floor plan



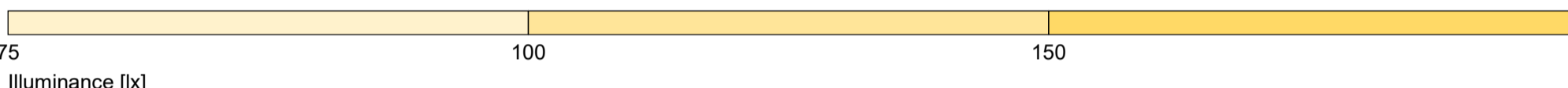
Wall	x	y	Length	Area[m ²]	Reflectance
1	16.30 m	15.33 m	4.94 m	13.83	50.0 %
2	10.89 m	23.39 m	9.70 m	27.15	50.0 %
3	6.98 m	20.89 m	4.64 m	12.99	50.0 %
4	11.50 m	14.17 m	8.10 m	22.67	50.0 %
Floor:				41.2	20.0 %
Ceiling:				41.2	70.0 %
Room height [m]:		2.80 m			
Height of ref. plane [m]:		0.00 m			
Volume		115.5 m ³			



5 Barn 3A FF

5.2 Summary, Barn 3A FF

5.2.1 Result overview, Hall



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.80 m
Maintenance factor	0.80
Luminaire luminous flux	3922 lm
Total power	35.0 W
Total power per area (7.06 m ²)	4.95 W/m ² (3.58 W/m ² /100lx)

Hall	Hall	
\bar{E}_m	Horizontal	cylindrical
E_{min}	138 lx	42 lx
$E_{min}/\bar{E}_m (U_0)$	97 lx	29 lx
$E_{min}/E_{max} (U_d)$	0.70	0.69
E_z/E_h	0.60	
Position	0.00 m	0.26
RUG (--- ---)	---	0.45 m

Luminaire :
 (DOWNLIGHTS - Prism Pro Dual Wattage, APRIP/1 (7W 4000K))
 Hints:
 - The luminous area is less than 0.005m².

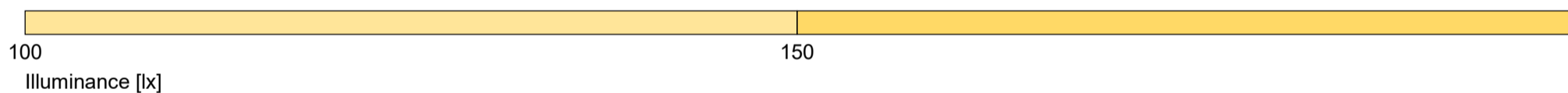
Type No.Make

2	5 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



5.2 Summary, Barn 3A FF

5.2.2 Result overview, Bedroom



General


Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.80 m
Maintenance factor	0.80
Luminaire luminous flux	3922 lm
Total power	35.0 W
Total power per area (10.24 m ²)	3.42 W/m ² (2.46 W/m ² /100lx)

Bedroom

Bedroom	Bedroom	
\bar{E}_m	Horizontal	cylindrical
E_{min}	139 lx	45 lx
$E_{min}/\bar{E}_m (U_0)$	112 lx	27 lx
$E_{min}/E_{max} (U_d)$	0.81	0.62
E_z/E_h	0.73	
Position	0.00 m	0.29
RUG (--- ---)	---	0.45 m

Luminaire :
 (DOWNLIGHTS - Prism Pro Dual Wattage, APRIP/1 (7W 4000K))
 Hints:
 - The luminous area is less than 0.005m².

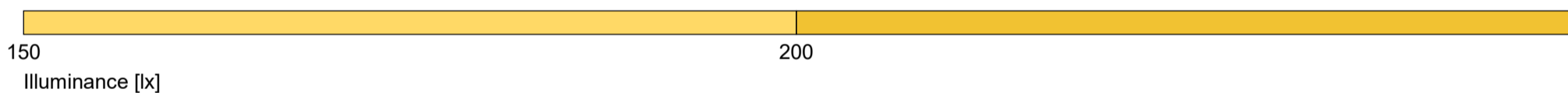
Type No. Make

2	5 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



5.2 Summary, Barn 3A FF

5.2.3 Result overview, E/S




General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.80 m
Maintenance factor	0.80
Luminaire luminous flux	2410 lm
Total power	20.0 W
Total power per area (2.73 m ²)	7.33 W/m ² (3.55 W/m ² /100lx)

E/S	E/S	
\bar{E}_m	Horizontal	cylindrical
E_{min}	206 lx	59 lx
$E_{min}/\bar{E}_m (U_0)$	192 lx	54 lx
$E_{min}/E_{max} (U_d)$	0.93	0.92
E_z/E_h	0.87	
Position	0.00 m	0.23
RUG (--- ---)	---	0.45 m

Luminaire :
 (DOWNLIGHTS - Prism Pro Dual Wattage, APRIP/1 (5W 4000K))
 Hints:
 - The luminous area is less than 0.005m².

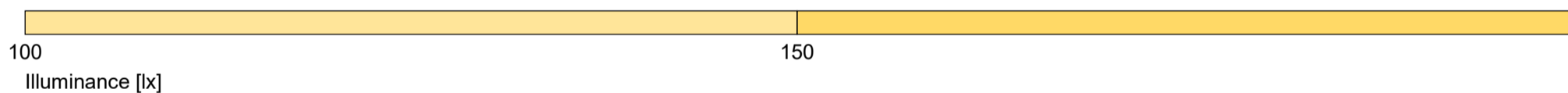
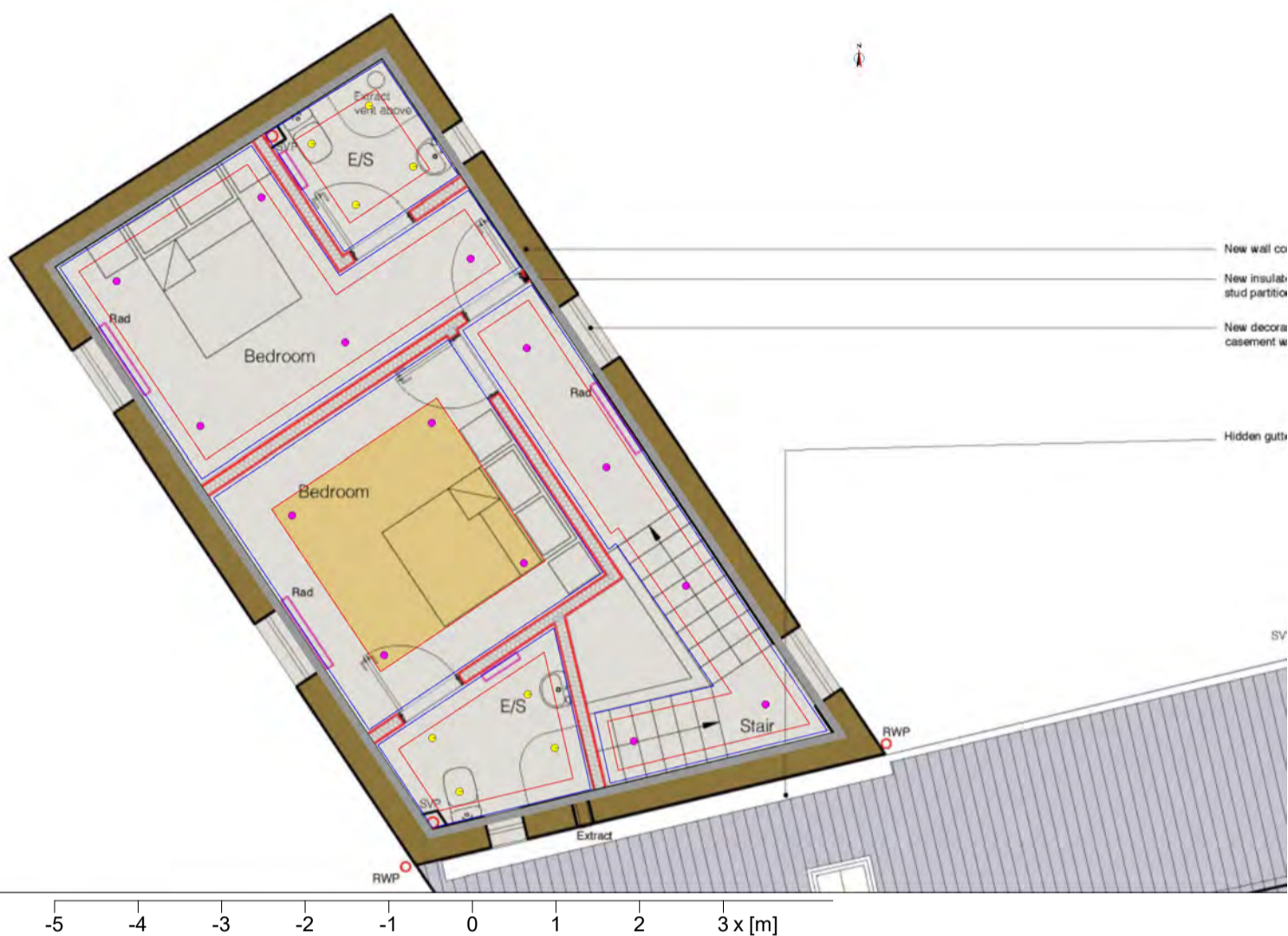
Type No. Make

1	4 x	ANSELL	
		Order No.	: APRIP/1 (5W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 5 W / 566 lm



5.2 Summary, Barn 3A FF

5.2.4 Result overview, Bedroom



General


Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.80 m
Maintenance factor	0.80
Luminaire luminous flux	3138 lm
Total power	28.0 W
Total power per area (11.24 m ²)	2.49 W/m ² (1.86 W/m ² /100lx)

Bedroom

Bedroom	Bedroom	
	Horizontal	cylindrical
\bar{E}_m	134 lx	43 lx
E_{min}	124 lx	33 lx
$E_{min}/\bar{E}_m (U_0)$	0.93	0.76
$E_{min}/E_{max} (U_d)$	0.89	
E_z/E_h		0.29
Position	0.00 m	0.45 m
RUG (--- ---)	---	

Luminaire :
 (DOWNLIGHTS - Prism Pro Dual Wattage, APRIP/1 (7W 4000K))
 Hints:
 - The luminous area is less than 0.005m².

Type No. Make

2	4 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



5.2 Summary, Barn 3A FF

5.2.5 Result overview, E/S



150
Illuminance [lx]

200


General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.80 m
Maintenance factor	0.80
Luminaire luminous flux	2410 lm
Total power	20.0 W
Total power per area (3.42 m ²)	5.85 W/m ² (3.15 W/m ² /100lx)

E/S	E/S	
\bar{E}_m	Horizontal	cylindrical
E_{min}	186 lx	56 lx
$E_{min}/\bar{E}_m (U_0)$	157 lx	51 lx
$E_{min}/E_{max} (U_d)$	0.84	0.91
E_z/E_h	0.77	0.24
Position	0.00 m	0.45 m
RUG (--- ---)	---	

Luminaire :
 (DOWNLIGHTS - Prism Pro Dual Wattage, APRIP/1 (5W 4000K))
 Hints:
 - The luminous area is less than 0.005m².

Type No. Make

1	4 x	ANSELL	
		Order No.	: APRIP/1 (5W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 5 W / 566 lm



6 New Dwelling FF

6.1 Description, New Dwelling FF

6.1.1 Floor plan



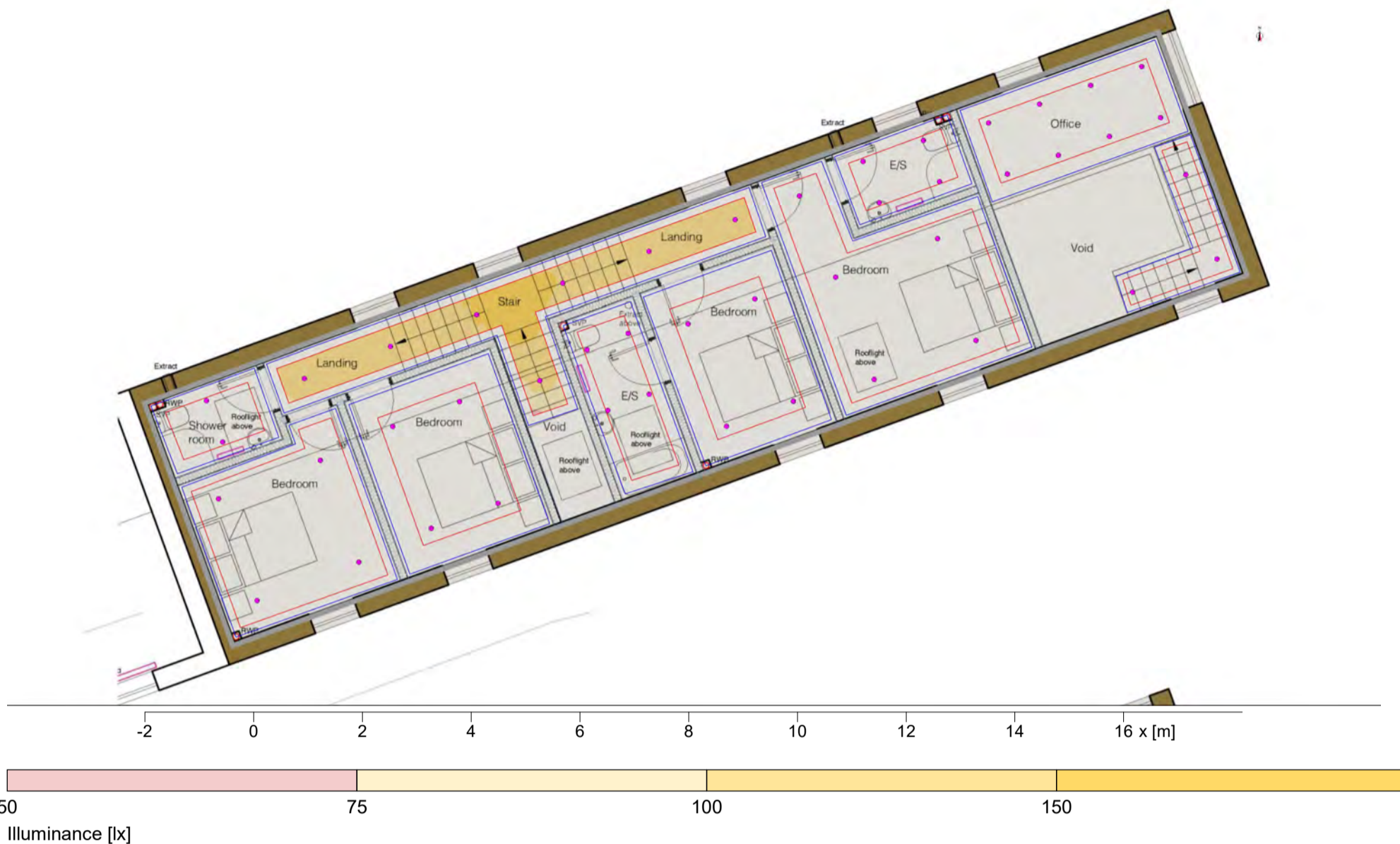
Wall	x	y	Length	Area[m ²]	Reflectance
1	27.31 m	22.19 m	19.73 m	55.25	50.0 %
2	25.71 m	26.56 m	4.65 m	13.02	50.0 %
3	7.18 m	19.79 m	19.73 m	55.23	50.0 %
4	8.77 m	15.43 m	4.64 m	12.99	50.0 %
Floor:				91.6	20.0 %
Ceiling:				91.6	70.0 %
Room height [m]:	2.80 m				
Height of ref. plane [m]:	0.00 m				
Volume	256.5 m ³				



6 New Dwelling FF

6.2 Summary, New Dwelling FF

6.2.1 Result overview, Landing



General


Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.80 m
Maintenance factor	0.80
Luminaire luminous flux	5491 lm
Total power	49.0 W
Total power per area (10.70 m ²)	4.58 W/m ² (3.43 W/m ² /100lx)

Landing

\bar{E}_m	Horizontal	cylindrical
E_{min}	133 lx	39 lx
$E_{min}/\bar{E}_m (U_0)$	73 lx	22 lx
$E_{min}/E_{max} (U_d)$	0.55	0.57
E_z/E_h	0.43	0.25
Position	0.00 m	0.45 m
RUG (--- ---)	---	

Luminaire :
 (DOWNLIGHTS - Prism Pro Dual Wattage, APRIP/1 (7W 4000K))
 Hints:
 - The luminous area is less than 0.005m².

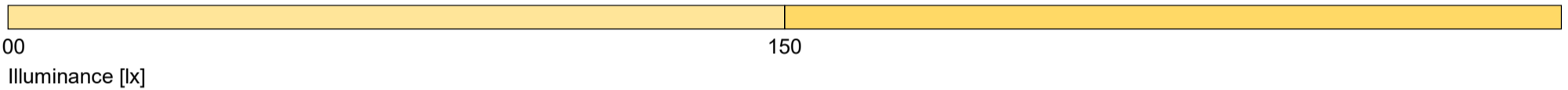
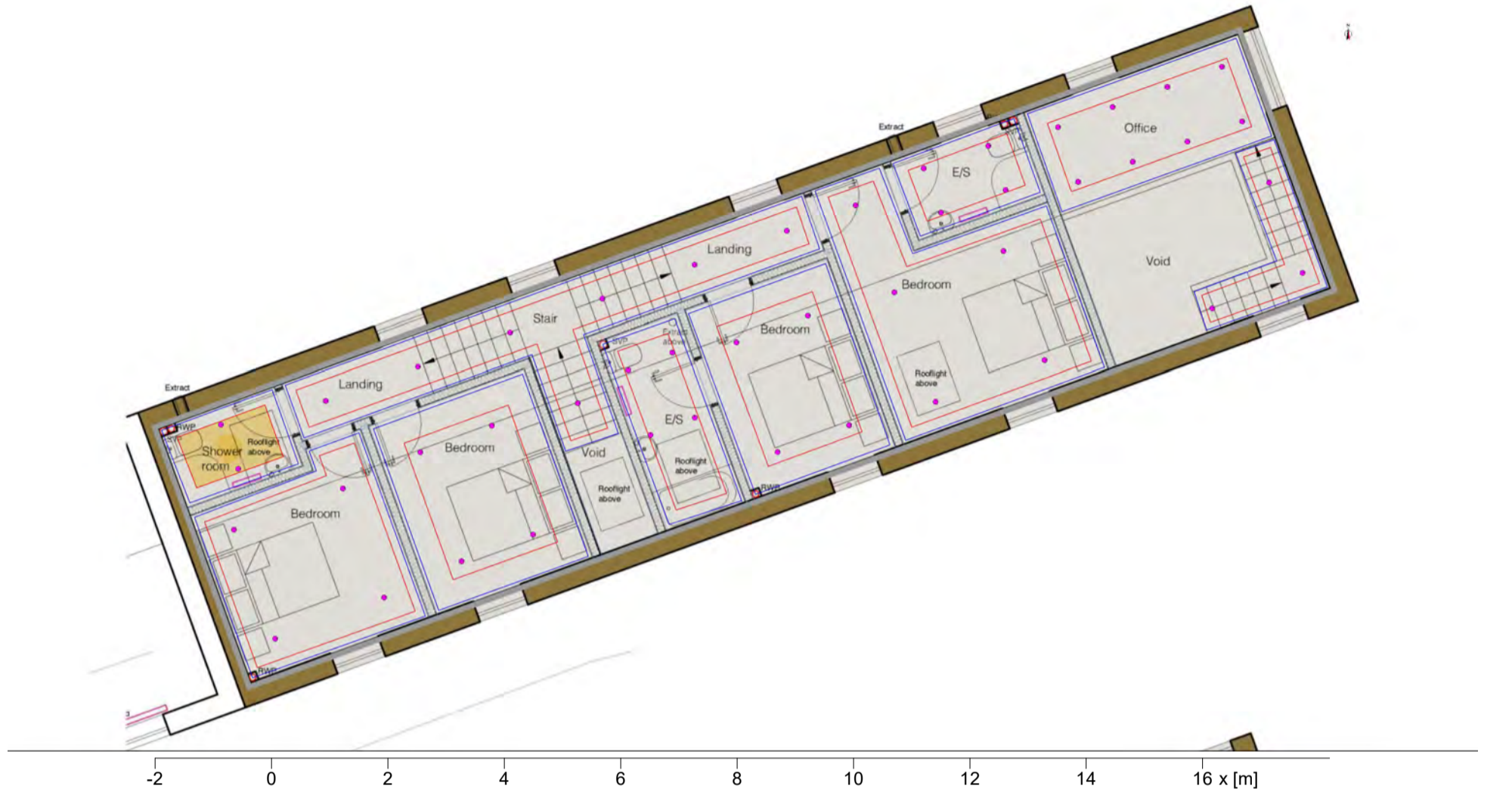
Type No. Make

2	7 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



6.2 Summary, New Dwelling FF

6.2.2 Result overview, Shower Room




General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.80 m
Maintenance factor	0.80
Luminaire luminous flux	1569 lm
Total power	14.0 W
Total power per area (2.69 m ²)	5.21 W/m ² (3.73 W/m ² /100lx)

Shower Room

Shower Room	Shower Room	
	Horizontal	cylindrical
\bar{E}_m	140 lx	38 lx
E_{min}	123 lx	35 lx
$E_{min}/\bar{E}_m (U_0)$	0.88	0.92
$E_{min}/E_{max} (U_d)$	0.80	
E_z/E_h		0.22
Position	0.00 m	0.45 m
RUG (--- ---)	---	
Luminaire :		
(DOWNLIGHTS - Prism Pro Dual Wattage, APRIP/1 (7W 4000K))		
Hints:		
- The luminous area is less than 0.005m ² .		

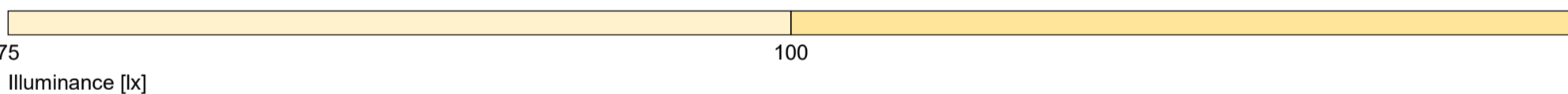
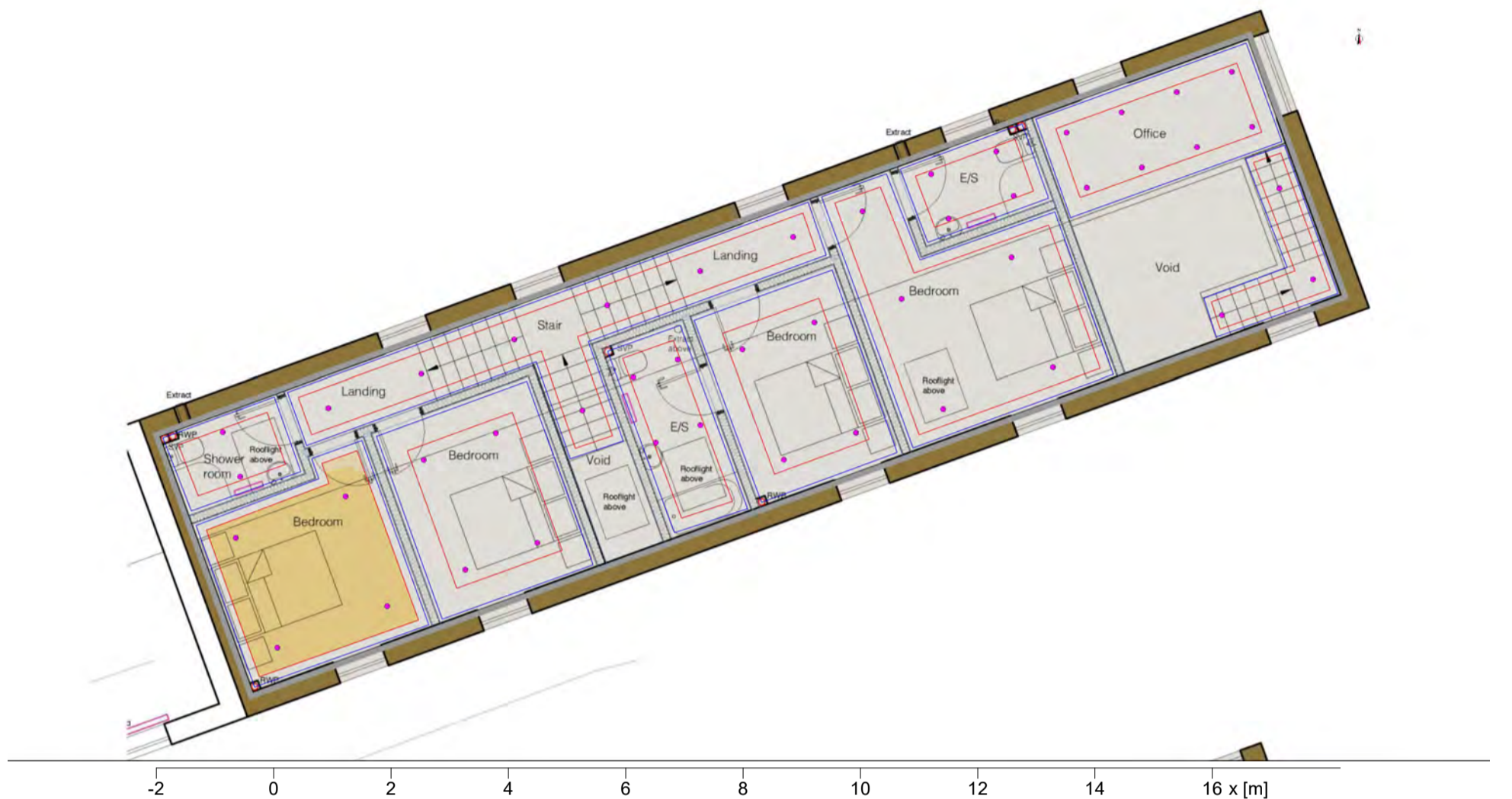
Type No. Make

2	2 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



6.2 Summary, New Dwelling FF

6.2.3 Result overview, Bedroom



General


Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.80 m
Maintenance factor	0.80
Luminaire luminous flux	3138 lm
Total power	28.0 W
Total power per area (9.65 m ²)	2.90 W/m ² (2.24 W/m ² /100lx)

Bedroom

Bedroom	Bedroom	
	Horizontal	cylindrical
\bar{E}_m	130 lx	41 lx
E_{min}	100 lx	32 lx
$E_{min}/\bar{E}_m (U_0)$	0.77	0.78
$E_{min}/E_{max} (U_d)$	0.70	
E_z/E_h		0.28
Position	0.00 m	0.45 m
RUG (--- ---)	---	

Luminaire :
 (DOWNLIGHTS - Prism Pro Dual Wattage, APRIP/1 (7W 4000K))
 Hints:
 - The luminous area is less than 0.005m².

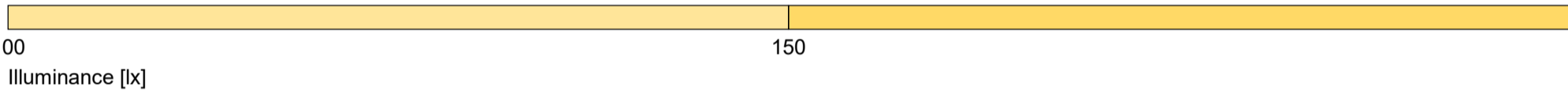
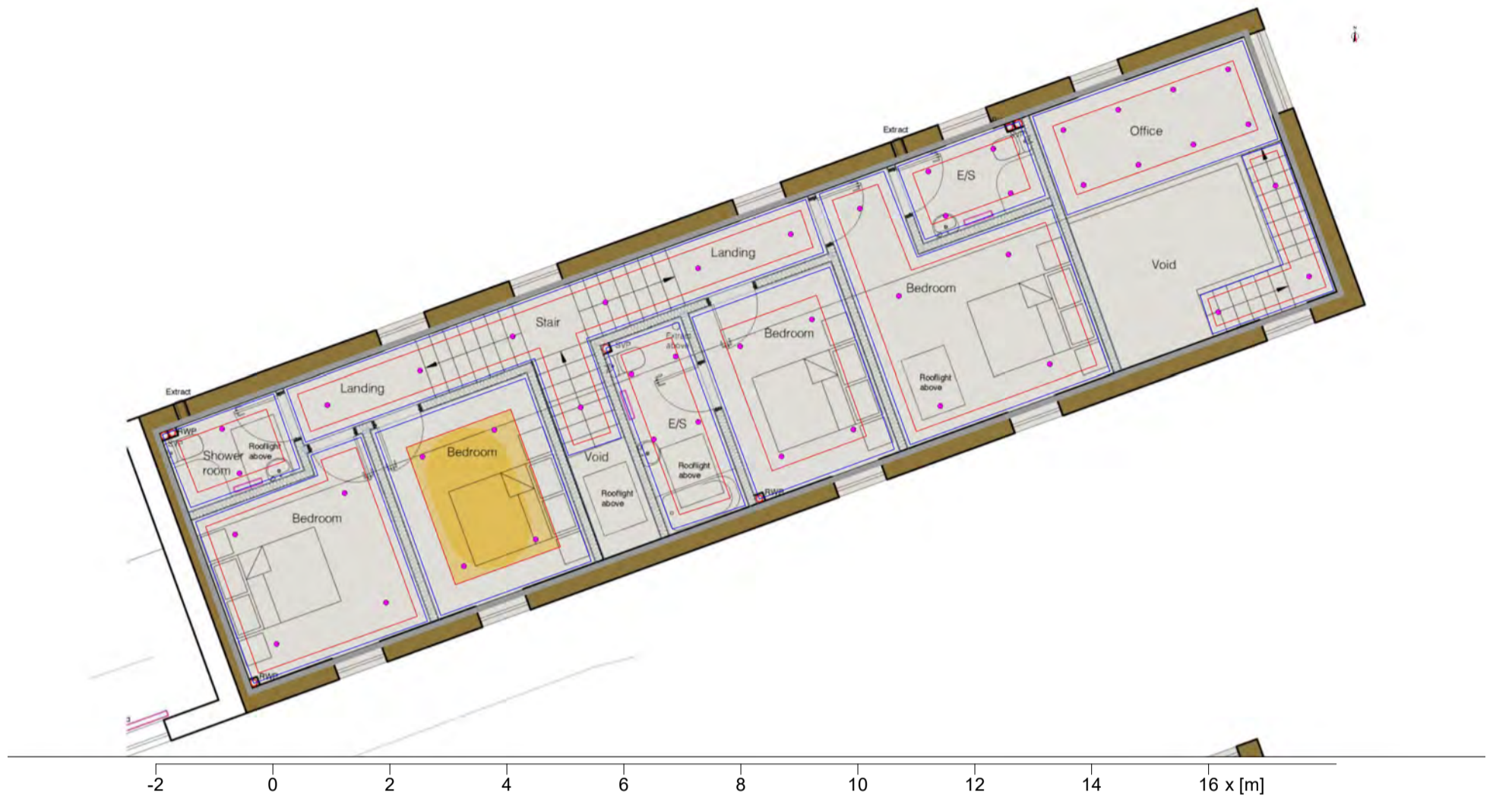
Type No. Make

2	4 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



6.2 Summary, New Dwelling FF

6.2.4 Result overview, Bedroom



General


Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.80 m
Maintenance factor	0.80
Luminaire luminous flux	3138 lm
Total power	28.0 W
Total power per area (9.05 m ²)	3.09 W/m ² (1.99 W/m ² /100lx)

Bedroom

Bedroom	Bedroom	
	Horizontal	cylindrical
\bar{E}_m	155 lx	46 lx
E_{min}	137 lx	38 lx
$E_{min}/\bar{E}_m (U_0)$	0.89	0.82
$E_{min}/E_{max} (U_d)$	0.82	
E_z/E_h		0.26
Position	0.00 m	0.45 m
RUG (--- ---)	---	

Luminaire :
 (DOWNLIGHTS - Prism Pro Dual Wattage, APRIP/1 (7W 4000K))
 Hints:
 - The luminous area is less than 0.005m².

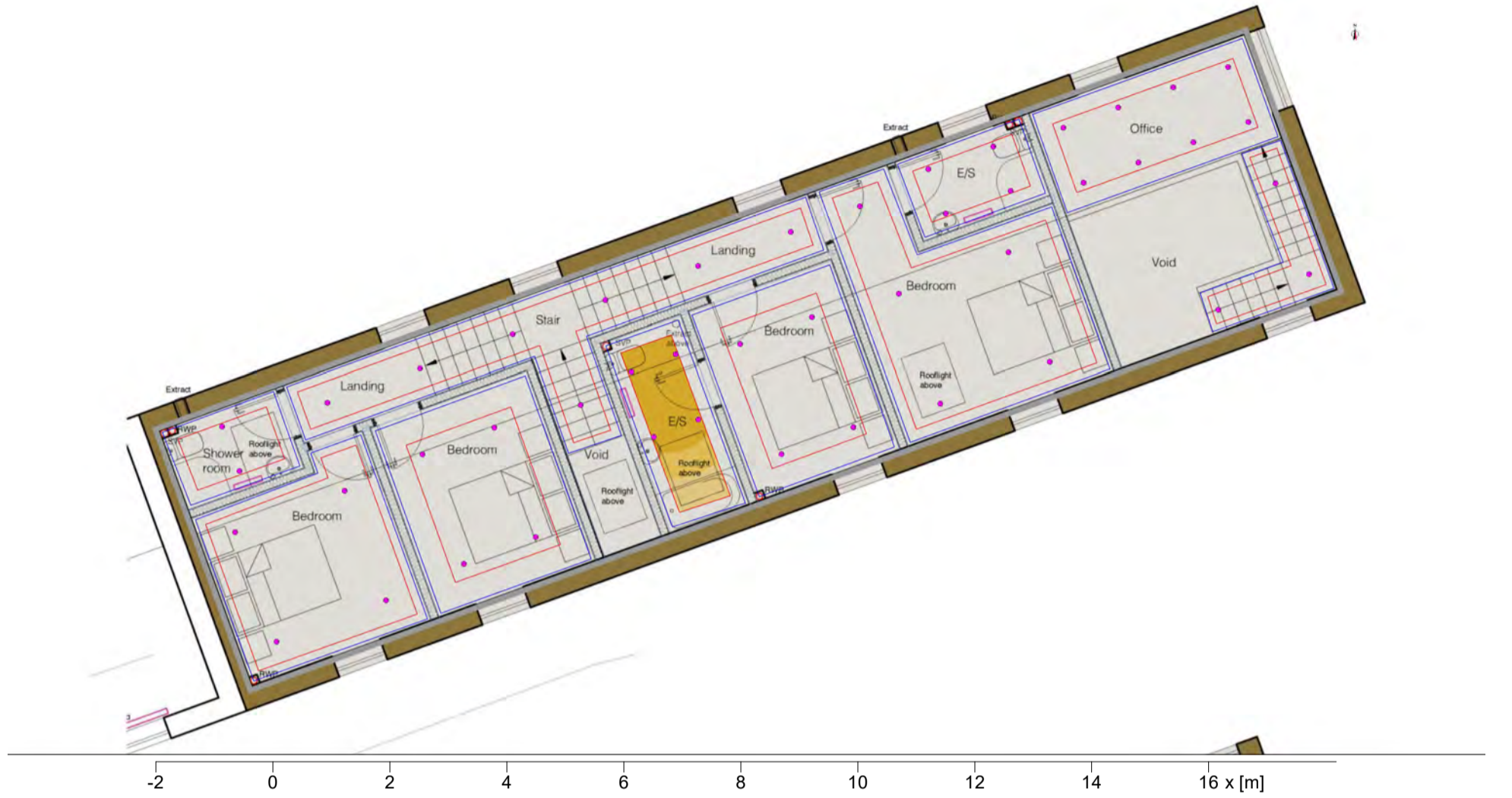
Type No. Make

2	4 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



6.2 Summary, New Dwelling FF

6.2.5 Result overview, E/S




General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.80 m
Maintenance factor	0.80
Luminaire luminous flux	3138 lm
Total power	28.0 W
Total power per area (4.33 m ²)	6.46 W/m ² (3.13 W/m ² /100lx)

E/S	E/S	
\bar{E}_m	Horizontal	cylindrical
E_{min}	206 lx	59 lx
$E_{min}/\bar{E}_m (U_0)$	104 lx	39 lx
$E_{min}/E_{max} (U_d)$	0.50	0.66
E_z/E_h	0.40	
Position	0.00 m	0.24
RUG (--- ---)	---	0.45 m

Luminaire :
 (DOWNLIGHTS - Prism Pro Dual Wattage, APRIP/1 (7W 4000K))
 Hints:
 - The luminous area is less than 0.005m².

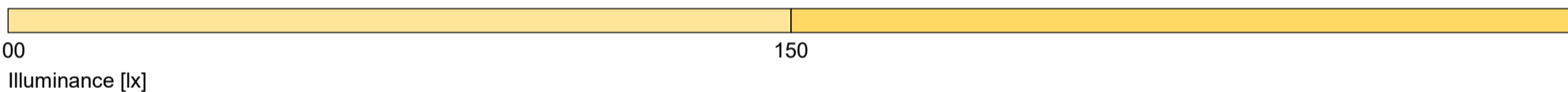
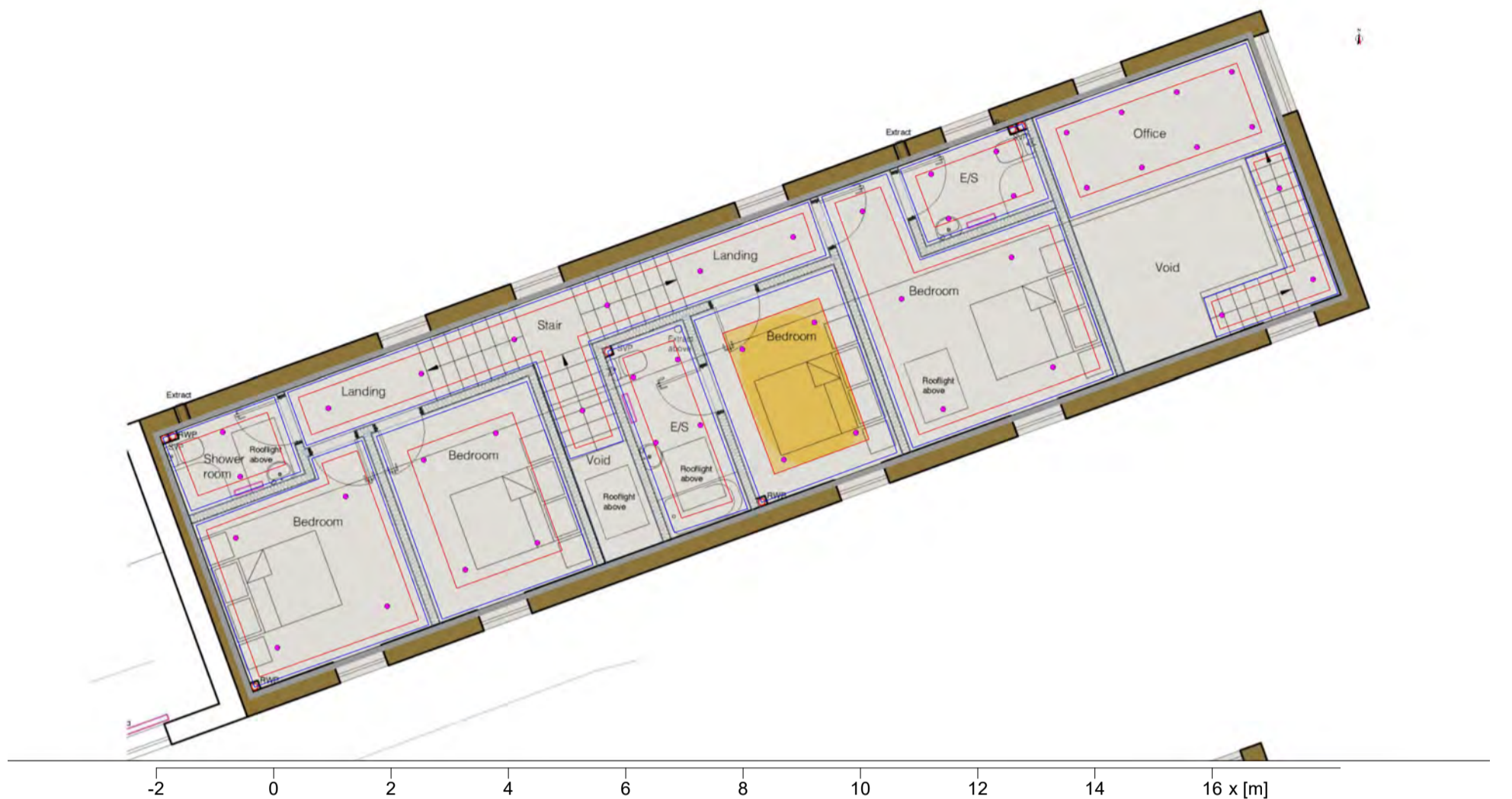
Type No. Make

2	4 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



6.2 Summary, New Dwelling FF

6.2.6 Result overview, Bedroom



General


Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.80 m
Maintenance factor	0.80
Luminaire luminous flux	3138 lm
Total power	28.0 W
Total power per area (8.19 m ²)	3.42 W/m ² (2.13 W/m ² /100lx)

Bedroom

Bedroom	Bedroom	Bedroom
	Horizontal	cylindrical
\bar{E}_m	161 lx	48 lx
E_{min}	143 lx	38 lx
$E_{min}/\bar{E}_m (U_0)$	0.89	0.80
$E_{min}/E_{max} (U_d)$	0.83	
E_z/E_h		0.26
Position	0.00 m	0.45 m
RUG (--- ---)	---	

Luminaire :
 (DOWNLIGHTS - Prism Pro Dual Wattage, APRIP/1 (7W 4000K))
 Hints:
 - The luminous area is less than 0.005m².

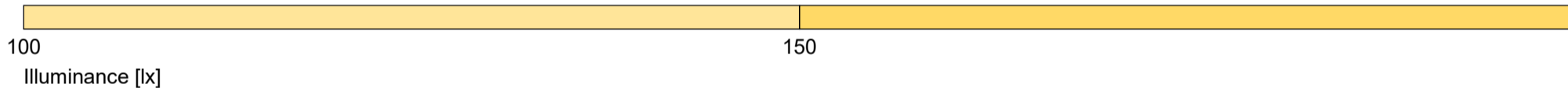
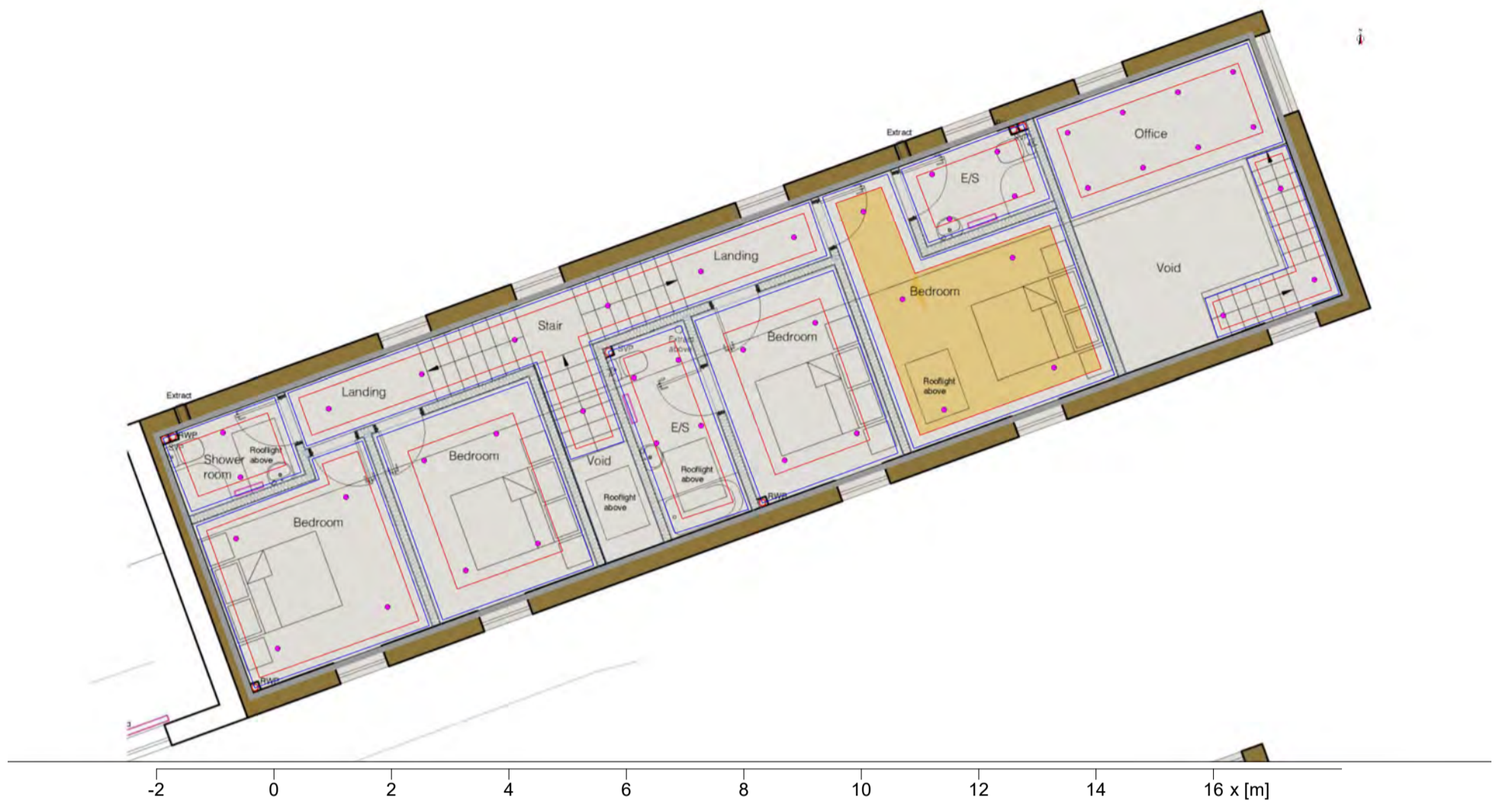
Type No. Make

2	4 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



6.2 Summary, New Dwelling FF

6.2.7 Result overview, Bedroom




General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.80 m
Maintenance factor	0.80
Luminaire luminous flux	3922 lm
Total power	35.0 W
Total power per area (12.62 m ²)	2.77 W/m ² (2.12 W/m ² /100lx)

Bedroom	Bedroom	Bedroom
	Horizontal	cylindrical
\bar{E}_m	131 lx	41 lx
E_{min}	105 lx	30 lx
$E_{min}/\bar{E}_m (U_0)$	0.80	0.74
$E_{min}/E_{max} (U_d)$	0.69	
E_z/E_h		0.28
Position	0.00 m	0.45 m
RUG (--- ---)	---	

Luminaire :
 (DOWNLIGHTS - Prism Pro Dual Wattage, APRIP/1 (7W 4000K))
 Hints:
 - The luminous area is less than 0.005m².

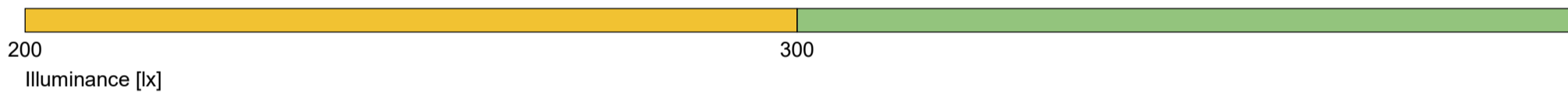
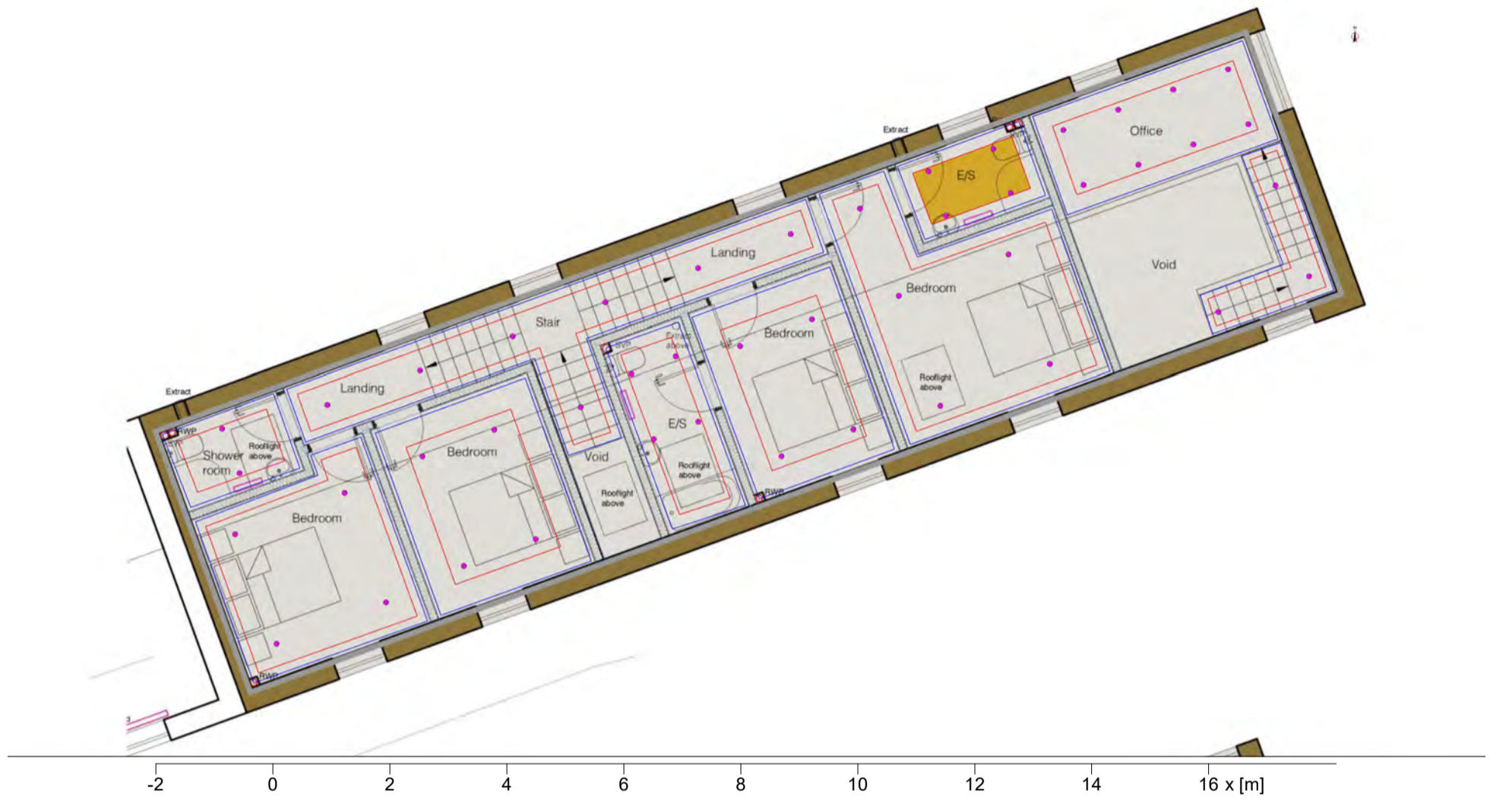
Type No. Make

2	5 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



6.2 Summary, New Dwelling FF

6.2.8 Result overview, E/S




General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.80 m
Maintenance factor	0.80
Luminaire luminous flux	3138 lm
Total power	28.0 W
Total power per area (2.95 m ²)	9.50 W/m ² (3.80 W/m ² /100lx)

E/S	E/S	
\bar{E}_m	Horizontal	cylindrical
E_{min}	250 lx	71 lx
$E_{min}/\bar{E}_m (U_0)$	228 lx	67 lx
$E_{min}/E_{max} (U_d)$	0.91	0.93
E_z/E_h	0.85	
Position	0.00 m	0.24
RUG (--- ---)	---	0.45 m

Luminaire :
 (DOWNLIGHTS - Prism Pro Dual Wattage, APRIP/1 (7W 4000K))
 Hints:
 - The luminous area is less than 0.005m².

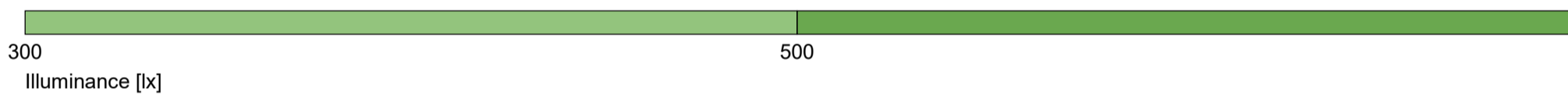
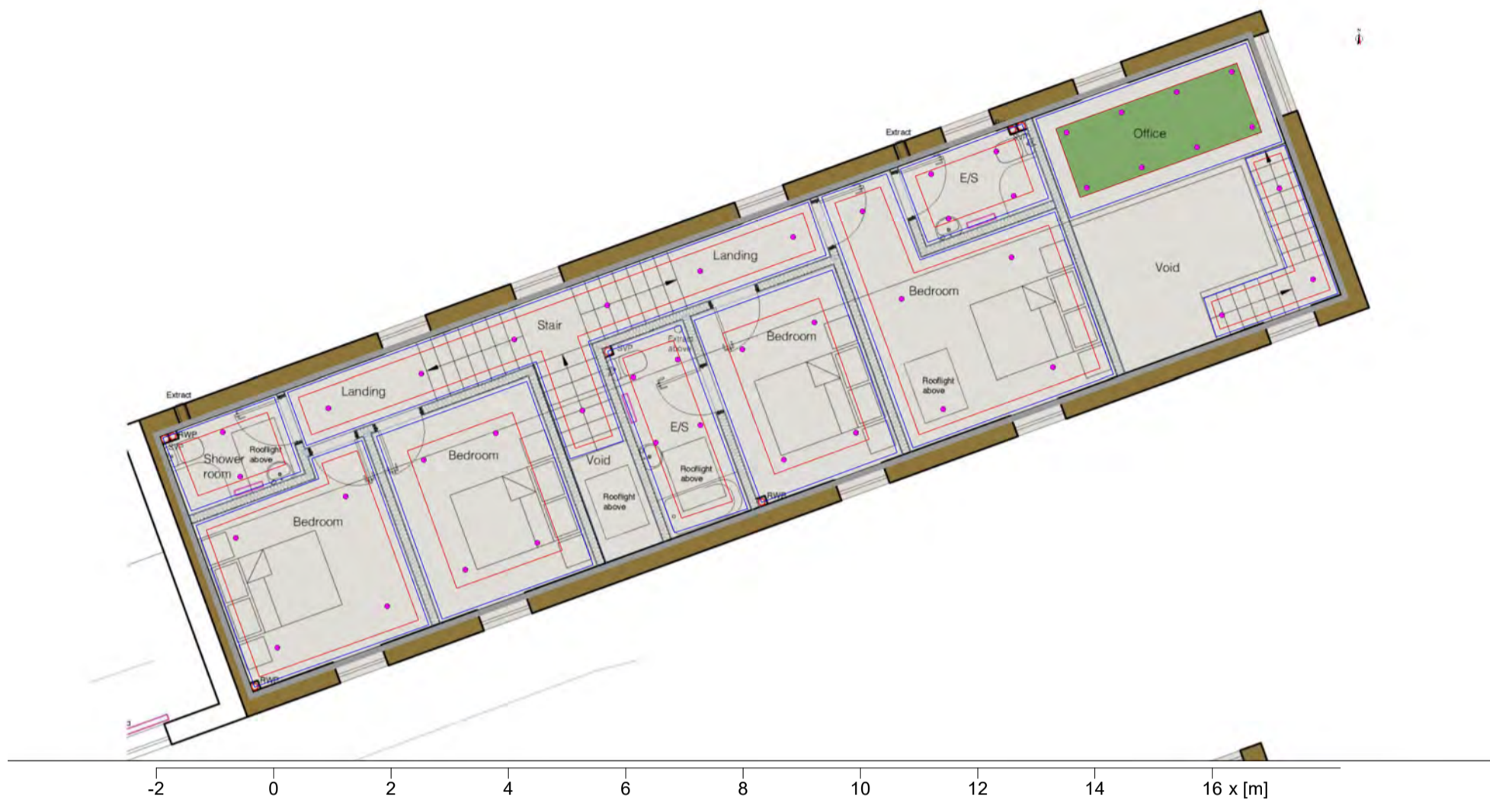
Type No./Make

2	4 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



6.2 Summary, New Dwelling FF

6.2.9 Result overview, Office



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.80 m
Maintenance factor	0.80
Luminaire luminous flux	6276 lm
Total power	56.0 W
Total power per area (6.81 m ²)	8.23 W/m ² (1.96 W/m ² /100lx)

Office

\bar{E}_m	Office	Horizontal	cylindrical
E_{min}	419 lx		124 lx
$E_{min}/\bar{E}_m (U_0)$	321 lx		91 lx
$E_{min}/E_{max} (U_d)$	0.77		0.73
E_z/E_h	0.68		0.25
Position	0.75 m		1.20 m
RUG (--- ---)	---		

Luminaire :
 (DOWNLIGHTS - Prism Pro Dual Wattage, APRIP/1 (7W 4000K))
 Hints:
 - The luminous area is less than 0.005m².

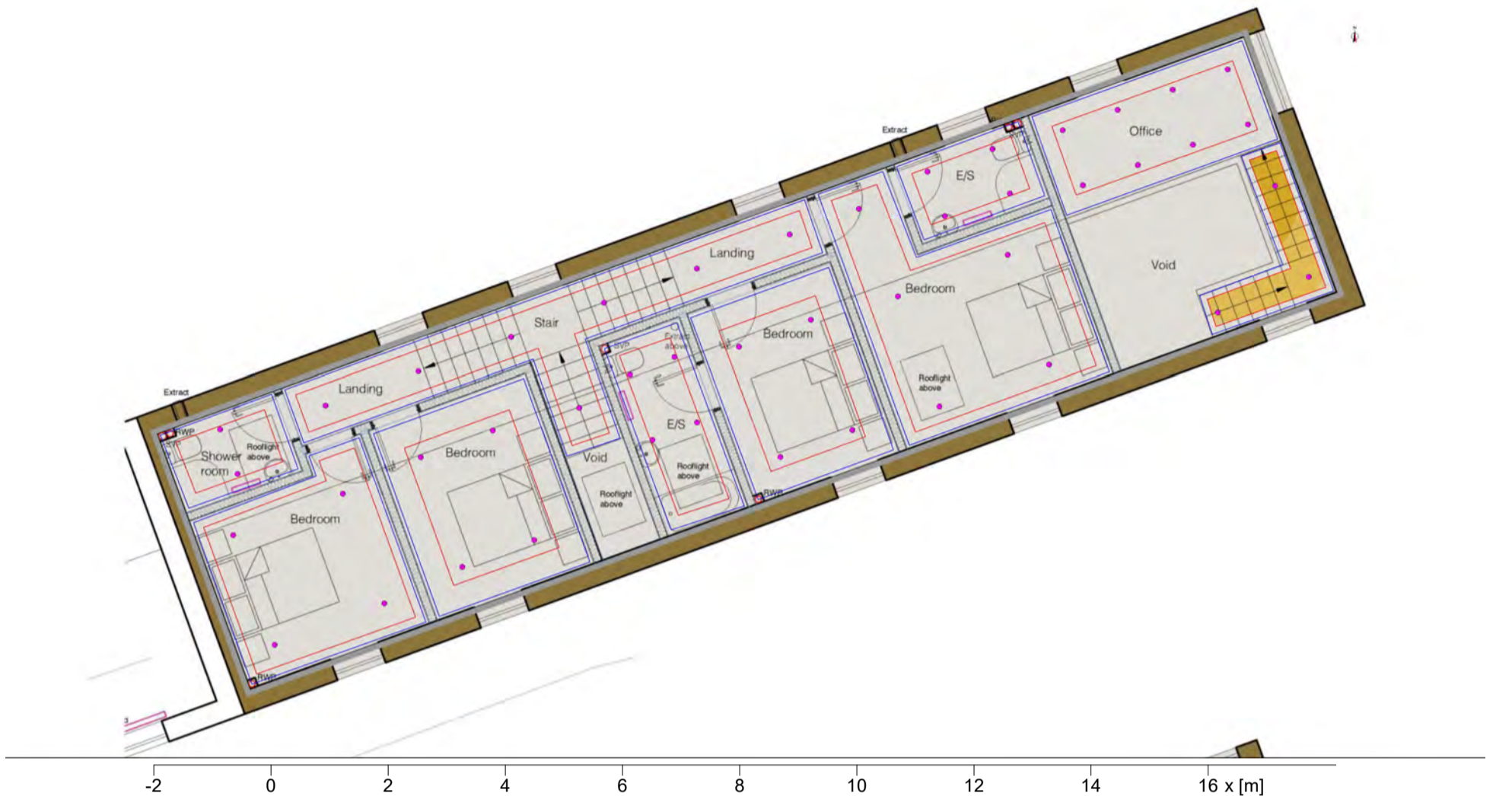
Type No. Make

2	8 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



6.2 Summary, New Dwelling FF

6.2.10 Result overview, Stairs




General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.80 m
Maintenance factor	0.80
Luminaire luminous flux	2354 lm
Total power	21.0 W
Total power per area (2.89 m ²)	7.25 W/m ² (3.71 W/m ² /100lx)

Stairs

\bar{E}_m	Horizontal	cylindrical
E_{min}	196 lx	64 lx
$E_{min}/\bar{E}_m (U_0)$	150 lx	45 lx
$E_{min}/E_{max} (U_d)$	0.76	0.70
E_z/E_h	0.52	0.30
Position	0.00 m	0.45 m
RUG (--- ---)	---	
Luminaire : (DOWNLIGHTS - Prism Pro Dual Wattage, APRIP/1 (7W 4000K))		
Hints: - The luminous area is less than 0.005m ² .		

Type No. Make

2	3 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



7 Barn 4 FF

7.1 Description, Barn 4 FF

7.1.1 Floor plan



Object : Woodhead Hall Farm - Residential Development (M)
 Installation : Proposed New Lighting
 Project number : QUO-646508-J6M6TL
 Date : 31.01.2025 Rev A



7 Barn 4 FF

7.1 Description, Barn 4 FF

7.1.1 Floor plan

Wall	x	y	Length	Area[m ²]	Reflectance
1	16.09 m	4.40 m	4.64 m	13.00	50.0 %
2	10.04 m	13.44 m	10.87 m	30.44	50.0 %
3	9.71 m	13.34 m	0.35 m	0.98	50.0 %
4	9.50 m	13.81 m	0.51 m	1.44	50.0 %
5	9.67 m	13.90 m	0.19 m	0.54	50.0 %
6	8.95 m	15.94 m	2.16 m	6.06	50.0 %
7	15.10 m	18.18 m	6.55 m	18.33	50.0 %
8	13.51 m	22.53 m	4.64 m	12.99	50.0 %
9	2.39 m	18.46 m	11.84 m	33.15	50.0 %
10	3.99 m	14.13 m	4.62 m	12.93	50.0 %
11	4.22 m	14.20 m	0.25 m	0.69	50.0 %
12	4.98 m	12.11 m	2.22 m	6.23	50.0 %
13	5.35 m	12.25 m	0.40 m	1.11	50.0 %
14	12.21 m	1.85 m	12.46 m	34.88	50.0 %
Floor:				120.7	20.0 %
Ceiling:				120.7	70.0 %
Room height [m]:		2.80 m			
Height of ref. plane [m]:		0.00 m			
Volume					338.0 m ³



7 Barn 4 FF

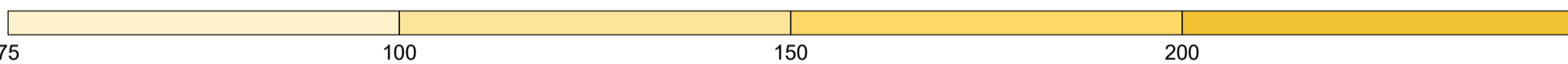
7.2 Summary, Barn 4 FF

7.2.1 Result overview, Landing



1st Floor

-10 -8 -6 -4 -2 0 x [m]



75 100 150 200
Illuminance [lx]

General


Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.80 m
Maintenance factor	0.80
Luminaire luminous flux	7845 lm
Total power	70.0 W
Total power per area (16.83 m ²)	4.16 W/m ² (2.66 W/m ² /100lx)

Landing

	Landing	
	Horizontal	cylindrical
\bar{E}_m	156 lx	48 lx
E_{min}	90 lx	28 lx
$E_{min}/\bar{E}_m (U_0)$	0.57	0.59
$E_{min}/E_{max} (U_d)$	0.40	
E_z/E_h		0.27
Position	0.00 m	0.45 m
RUG (--- ---)	---	

Hints:
 - Room dimensions deviate too much from a rectangular room.

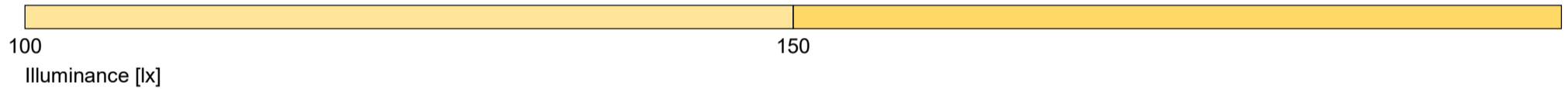
Type No. Make

2	10 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



7.2 Summary, Barn 4 FF

7.2.2 Result overview, Stairs




General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.80 m
Maintenance factor	0.80
Luminaire luminous flux	3138 lm
Total power	28.0 W
Total power per area (4.17 m ²)	6.72 W/m ² (4.04 W/m ² /100lx)

Stairs

Stairs	Stairs	
\bar{E}_m	Horizontal	cylindrical
E_{min}	166 lx	48 lx
$E_{min}/\bar{E}_m (U_o)$	116 lx	30 lx
$E_{min}/E_{max} (U_d)$	0.70	0.63
E_z/E_h	0.62	
Position	0.00 m	0.24
RUG (--- ---)	---	0.45 m
Hints:		
- Room dimensions deviate too much from a rectangular room.		

Type No. Make

2	4 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



7.2 Summary, Barn 4 FF

7.2.3 Result overview, Bedrooms



1st Floor

-10 -8 -6 -4 -2 0 x [m]



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.80 m
Maintenance factor	0.80
Luminaire luminous flux	6276 lm
Total power	56.0 W
Total power per area (19.90 m ²)	2.81 W/m ² (1.50 W/m ² /100lx)

Bedrooms

Bedrooms

	Horizontal	cylindrical
\bar{E}_m	187 lx	56 lx
E_{min}	140 lx	42 lx
$E_{min}/\bar{E}_m (U_0)$	0.75	0.74
$E_{min}/E_{max} (U_d)$	0.64	
E_z/E_h		0.27
Position	0.00 m	0.45 m
RUG (--- ---)	---	

Hints:
 - Room dimensions deviate too much from a rectangular room.

Type No.Make

2	8 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm

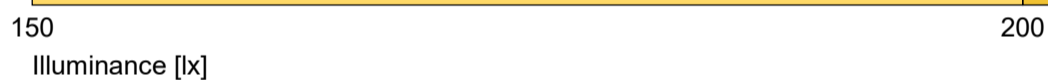


7.2 Summary, Barn 4 FF

7.2.4 Result overview, E/S



-10 -8 -6 -4 -2 0 x [m]




General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.80 m
Maintenance factor	0.80
Luminaire luminous flux	3138 lm
Total power	28.0 W
Total power per area (4.90 m ²)	5.72 W/m ² (2.84 W/m ² /100lx)

E/S	E/S	
\bar{E}_m	Horizontal	cylindrical
E_{min}	202 lx	58 lx
$E_{min}/\bar{E}_m (U_0)$	168 lx	48 lx
$E_{min}/E_{max} (U_d)$	0.83	0.82
E_z/E_h	0.75	
Position	0.00 m	0.24
RUG (--- ---)	---	0.45 m

Hints:
 - Room dimensions deviate too much from a rectangular room.

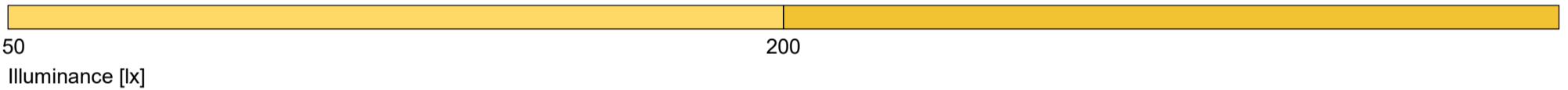
Type No. Make

2	4 x	ANSELL
	Order No.	: APRIP/1 (7W 4000K)
	Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
	Equipment	: 1 x LED single 840 7 W / 737 lm



7.2 Summary, Barn 4 FF

7.2.5 Result overview, Bedrooms



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.80 m
Maintenance factor	0.80
Luminaire luminous flux	4707 lm
Total power	42.0 W
Total power per area (13.08 m ²)	3.21 W/m ² (1.73 W/m ² /100lx)

Bedrooms

Bedrooms	Bedrooms	
\bar{E}_m	Horizontal	cylindrical
E_{min}	186 lx	56 lx
$E_{min}/\bar{E}_m (U_0)$	163 lx	47 lx
$E_{min}/E_{max} (U_d)$	0.88	0.83
E_z/E_h	0.79	0.27
Position	0.00 m	0.45 m
RUG (--- ---)	---	

Hints:
- Room dimensions deviate too much from a rectangular room.

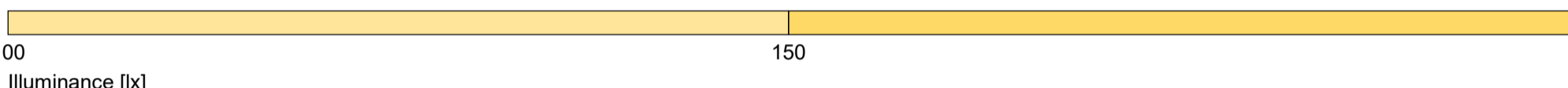
Type No.Make

2	6 x	ANSELL
	Order No.	: APRIP/1 (7W 4000K)
	Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
	Equipment	: 1 x LED single 840 7 W / 737 lm



7.2 Summary, Barn 4 FF

7.2.6 Result overview, Bedrooms



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.80 m
Maintenance factor	0.80
Luminaire luminous flux	3138 lm
Total power	28.0 W
Total power per area (11.70 m ²)	2.39 W/m ² (1.59 W/m ² /100lx)

Bedrooms

Bedrooms	Bedrooms	
\bar{E}_m	Horizontal	cylindrical
E_{min}	151 lx	43 lx
$E_{min}/\bar{E}_m (U_0)$	115 lx	36 lx
$E_{min}/E_{max} (U_d)$	0.76	0.84
E_z/E_h	0.66	0.25
Position	0.00 m	0.45 m
RUG (--- ---)	---	

Hints:
 - Room dimensions deviate too much from a rectangular room.

Type No.Make

2	4 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm

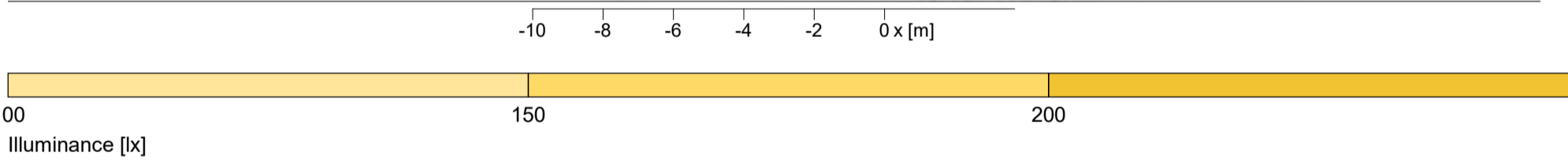


7.2 Summary, Barn 4 FF

7.2.7 Result overview, E/S



1st Floor



General		
Calculation algorithm used		Average indirect fraction
Height of luminaire plane		2.80 m
Maintenance factor		0.80
Luminaire luminous flux		2354 lm
Total power		21.0 W
Total power per area (4.07 m ²)		5.16 W/m ² (2.78 W/m ² /100lx)

E/S	E/S	
\bar{E}_m	Horizontal	cylindrical
E_{min}	186 lx	53 lx
$E_{min}/\bar{E}_m (U_o)$	145 lx	48 lx
$E_{min}/E_{max} (U_d)$	0.78	0.91
E_z/E_h	0.70	0.23
Position	0.00 m	0.45 m
RUG (--- ---)	---	
Hints:		
- Room dimensions deviate too much from a rectangular room.		

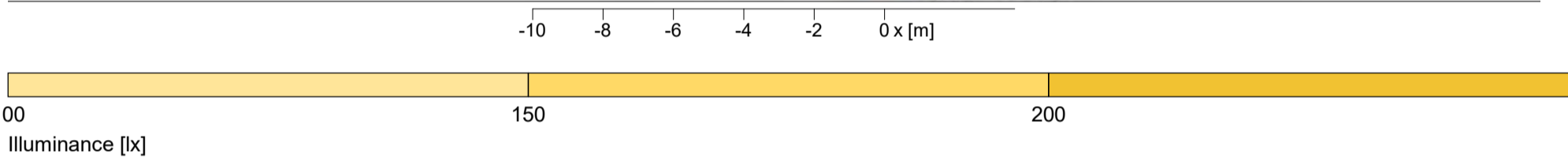
Type No. Make

2	3 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



7.2 Summary, Barn 4 FF

7.2.8 Result overview, Bedroom



General	
Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.80 m
Maintenance factor	0.80
Luminaire luminous flux	5491 lm
Total power	49.0 W
Total power per area (14.21 m ²)	3.45 W/m ² (1.94 W/m ² /100lx)

Bedroom	Bedroom	
	Horizontal	cylindrical
\bar{E}_m	178 lx	55 lx
E_{min}	105 lx	33 lx
$E_{min}/\bar{E}_m (U_0)$	0.59	0.59
$E_{min}/E_{max} (U_d)$	0.49	
E_z/E_h		0.28
Position	0.00 m	0.45 m
RUG (--- ---)	---	
Hints:		
- Room dimensions deviate too much from a rectangular room.		

Type No.Make

2	7 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



7.2 Summary, Barn 4 FF

7.2.9 Result overview, E/S



1st Floor

-10 -8 -6 -4 -2 0 x [m]

150
Illuminance [lx]

200

General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.80 m
Maintenance factor	0.80
Luminaire luminous flux	3138 lm
Total power	28.0 W
Total power per area (5.15 m ²)	5.44 W/m ² (2.72 W/m ² /100lx)

E/S

\bar{E}_m	Horizontal	cylindrical
E_{min}	200 lx	59 lx
$E_{min}/\bar{E}_m (U_o)$	165 lx	51 lx
$E_{min}/E_{max} (U_d)$	0.82	0.87
E_z/E_h	0.75	0.25
Position	0.00 m	0.45 m
RUG (--- ---)	---	

Hints:
- Room dimensions deviate too much from a rectangular room.

Type No. Make

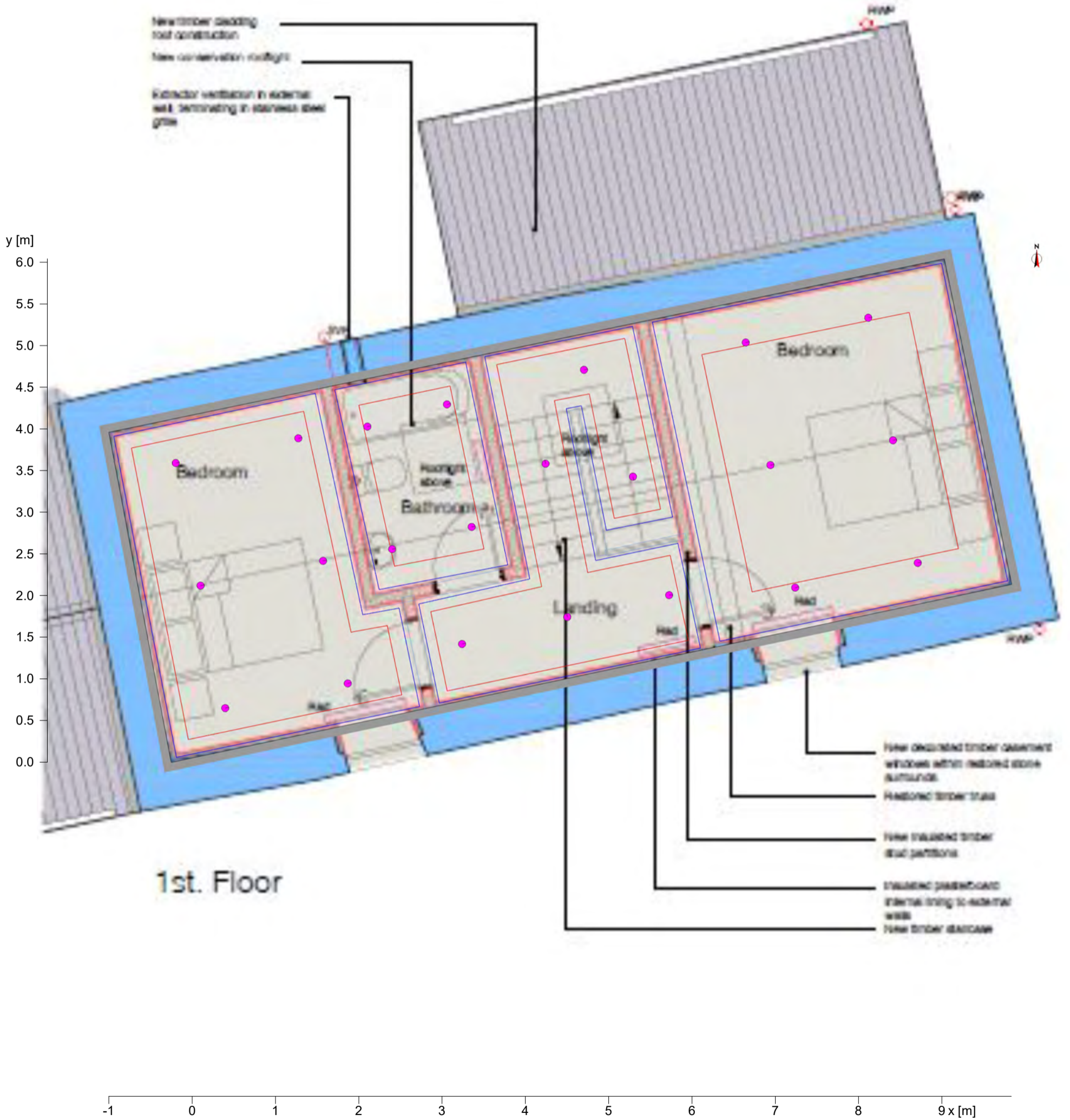
2	4 x	ANSELL
		Order No. : APRIP/1 (7W 4000K)
		Luminaire name : DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment : 1 x LED single 840 7 W / 737 lm



8 Barn 3 FF

8.1 Description, Barn 3 FF

8.1.1 Floor plan



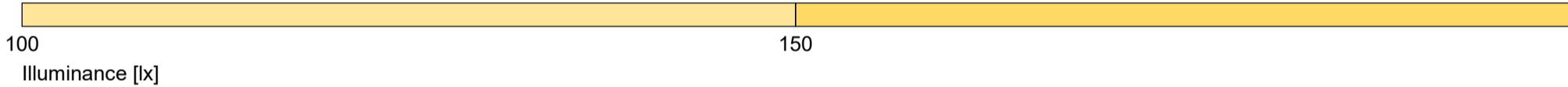
Wall	x	y	Length	Area[m ²]	Reflectance
1	13.43 m	7.24 m	10.31 m	28.86	50.0 %
2	12.62 m	11.14 m	3.99 m	11.17	50.0 %
3	2.60 m	9.06 m	10.24 m	28.67	50.0 %
4	3.34 m	5.10 m	4.03 m	11.28	50.0 %
Floor:				41.2	20.0 %
Ceiling:				41.2	70.0 %
Room height [m]:		2.80 m			
Height of ref. plane [m]:		0.00 m			
Volume		115.3 m ³			



8 Barn 3 FF

8.2 Summary, Barn 3 FF

8.2.1 Result overview, Landing




General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.80 m
Maintenance factor	0.80
Luminaire luminous flux	4707 lm
Total power	42.0 W
Total power per area (8.25 m ²)	5.09 W/m ² (3.41 W/m ² /100lx)

Landing

Landing	Landing	
	Horizontal	cylindrical
\bar{E}_m	149 lx	43 lx
E_{min}	116 lx	30 lx
$E_{min}/\bar{E}_m (U_0)$	0.77	0.70
$E_{min}/E_{max} (U_d)$	0.63	
E_z/E_h		0.24
Position	0.00 m	0.45 m
RUG (--- ---)	---	
Luminaire : (DOWNLIGHTS - Prism Pro Dual Wattage, APRIP/1 (7W 4000K))		
Hints: - The luminous area is less than 0.005m ² .		

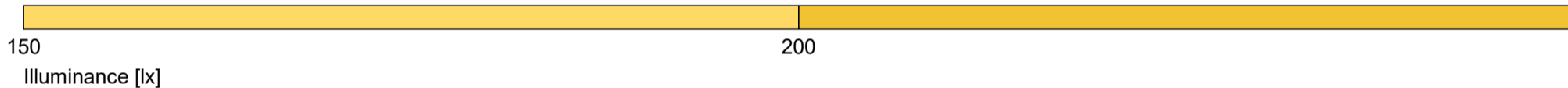
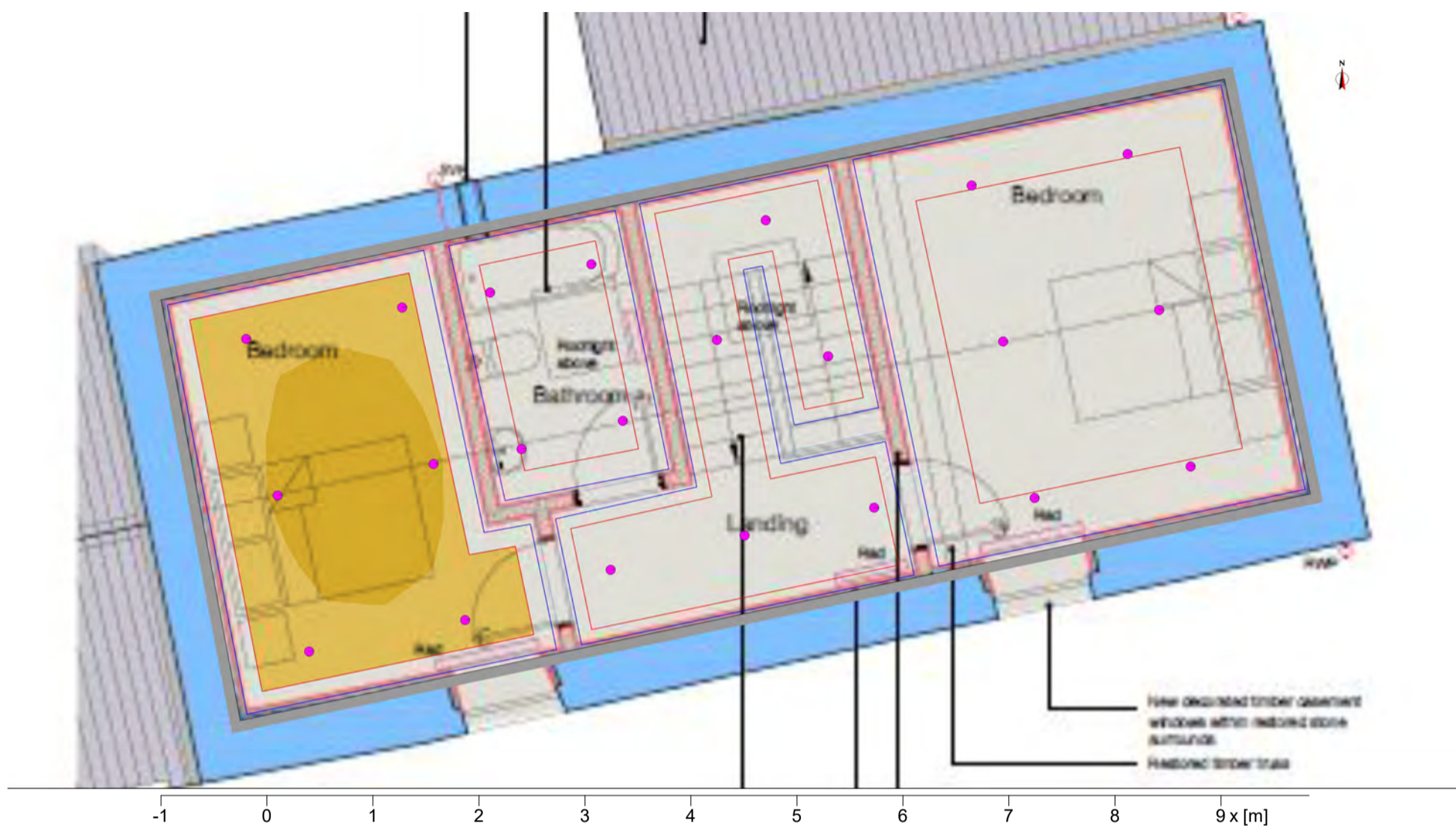
Type No. Make

2	6 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



8.2 Summary, Barn 3 FF

8.2.2 Result overview, Bedroom



General


Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.80 m
Maintenance factor	0.80
Luminaire luminous flux	4707 lm
Total power	42.0 W
Total power per area (10.39 m ²)	4.04 W/m ² (2.08 W/m ² /100lx)

Bedroom

\bar{E}_m	Horizontal	cylindrical
E_{min}	194 lx	61 lx
$E_{min}/\bar{E}_m (U_o)$	153 lx	49 lx
$E_{min}/E_{max} (U_d)$	0.79	0.80
E_z/E_h	0.67	0.28
Position	0.00 m	0.45 m
RUG (--- ---)	---	

Luminaire :
 (DOWNLIGHTS - Prism Pro Dual Wattage, APRIP/1 (7W 4000K))
 Hints:
 - The luminous area is less than 0.005m².

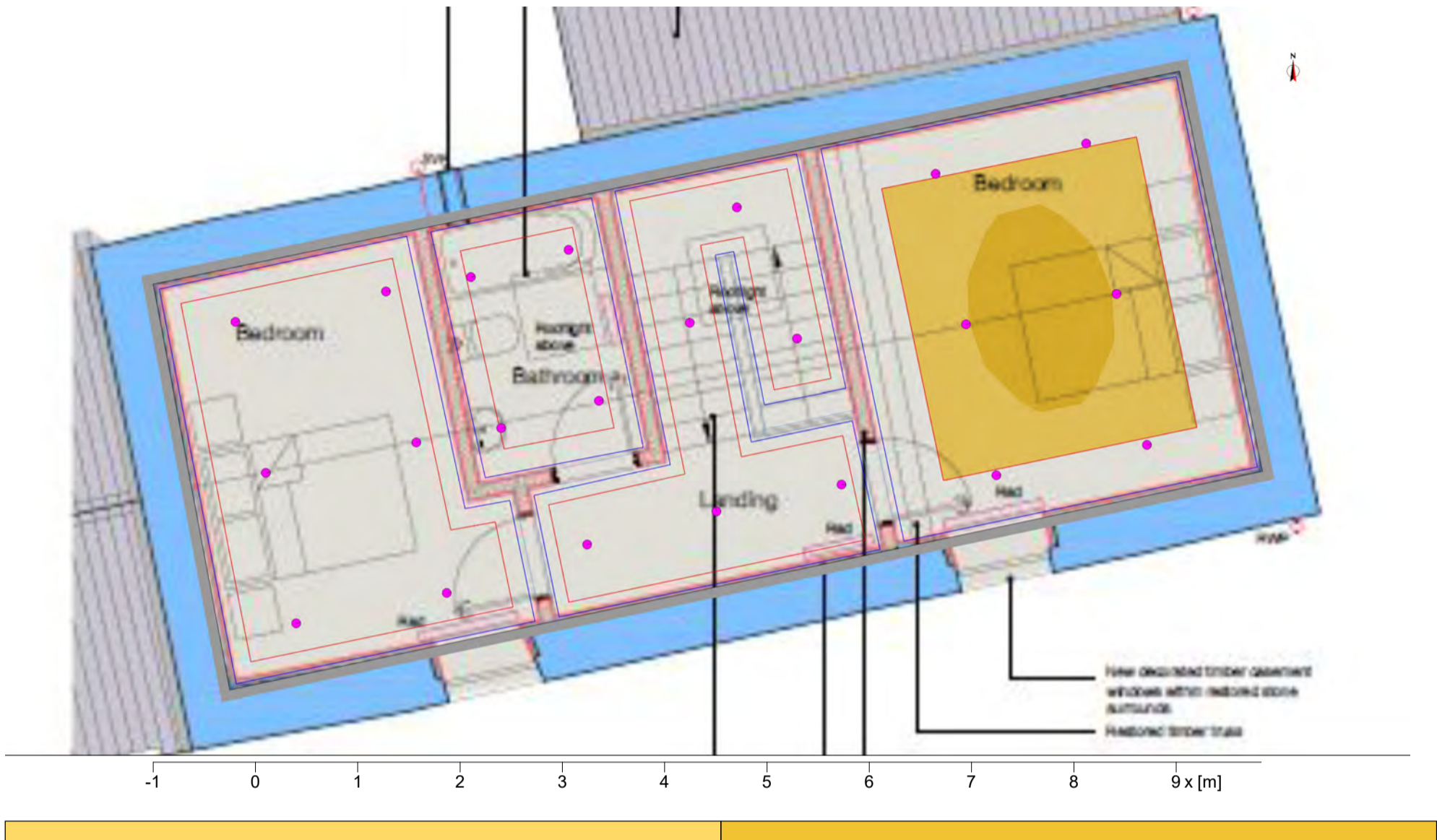
Type No. Make

2	6 x	ANSELL	Order No. : APRIP/1 (7W 4000K)
			Luminaire name : DOWNLIGHTS - Prism Pro Dual Wattage
			Equipment : 1 x LED single 840 7 W / 737 lm



8.2 Summary, Barn 3 FF

8.2.3 Result overview, Bedroom



150
Illuminance [lx]

200

General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.80 m
Maintenance factor	0.80
Luminaire luminous flux	4707 lm
Total power	42.0 W
Total power per area (13.79 m ²)	3.05 W/m ² (1.60 W/m ² /100lx)

Bedroom		Bedroom	Bedroom
\bar{E}_m	Horizontal	cylindrical	
E_{min}	190 lx	58 lx	
$E_{min}/\bar{E}_m (U_0)$	159 lx	50 lx	
$E_{min}/E_{max} (U_d)$	0.84	0.86	
E_z/E_h		0.27	
Position	0.00 m	0.45 m	
RUG (--- ---)	---		
Luminaire : (DOWNLIGHTS - Prism Pro Dual Wattage, APRIP/1 (7W 4000K))			
Hints: - The luminous area is less than 0.005m ² .			

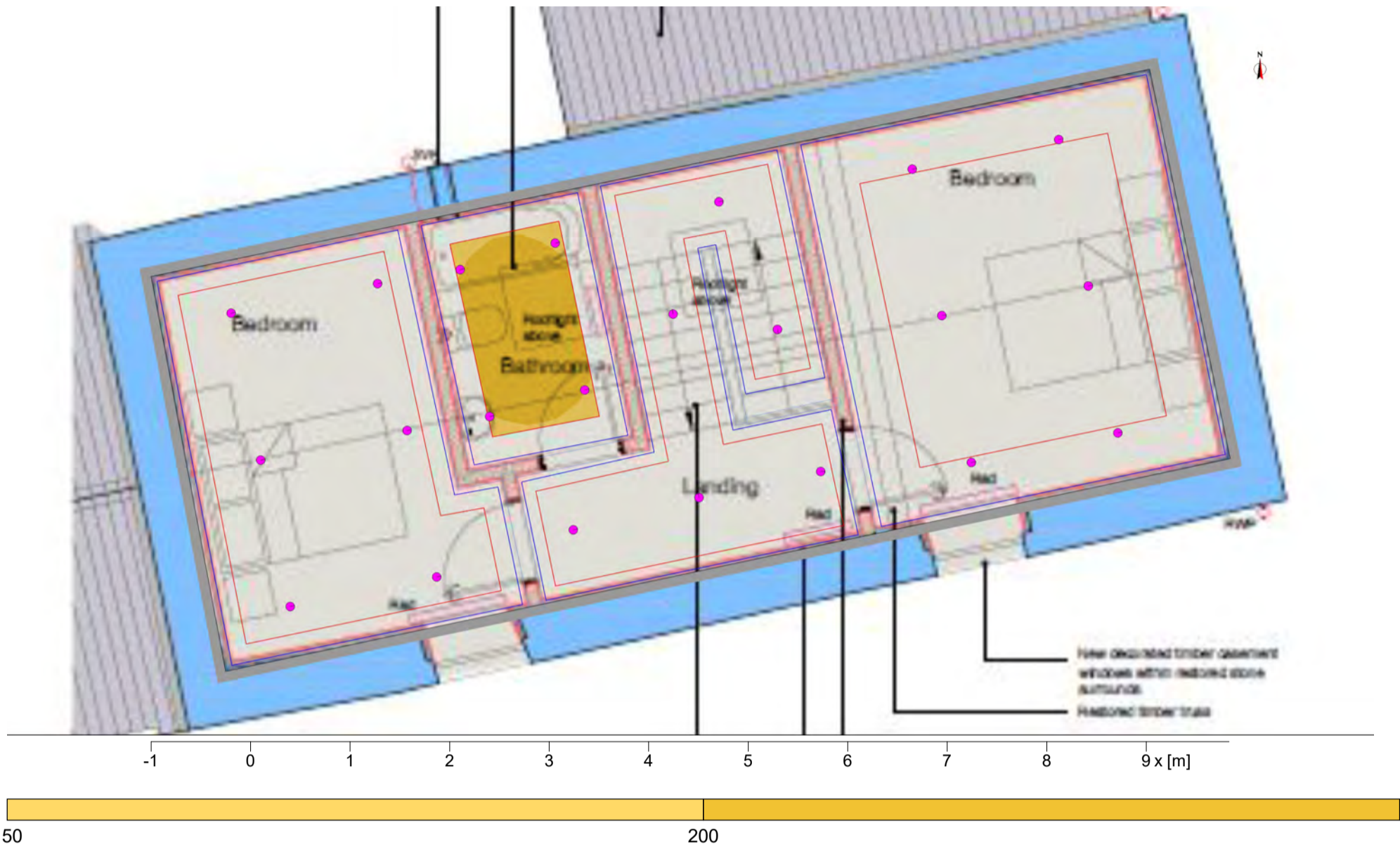
Type No.Make

2	6 x	ANSELL	
		Order No.	: APRIP/1 (7W 4000K)
		Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
		Equipment	: 1 x LED single 840 7 W / 737 lm



8.2 Summary, Barn 3 FF

8.2.4 Result overview, E/S



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.80 m
Maintenance factor	0.80
Luminaire luminous flux	3138 lm
Total power	28.0 W
Total power per area (3.92 m ²)	7.14 W/m ² (3.31 W/m ² /100lx)

E/S

\bar{E}_m	Horizontal	cylindrical
E_{min}	216 lx	63 lx
$E_{min}/\bar{E}_m (U_0)$	196 lx	55 lx
$E_{min}/E_{max} (U_d)$	0.91	0.87
E_z/E_h	0.85	0.24
Position	0.00 m	0.45 m
RUG (--- ---)	---	

Luminaire :
 (DOWNLIGHTS - Prism Pro Dual Wattage, APRIP/1 (7W 4000K))
 Hints:
 - The luminous area is less than 0.005m².

Type No. Make

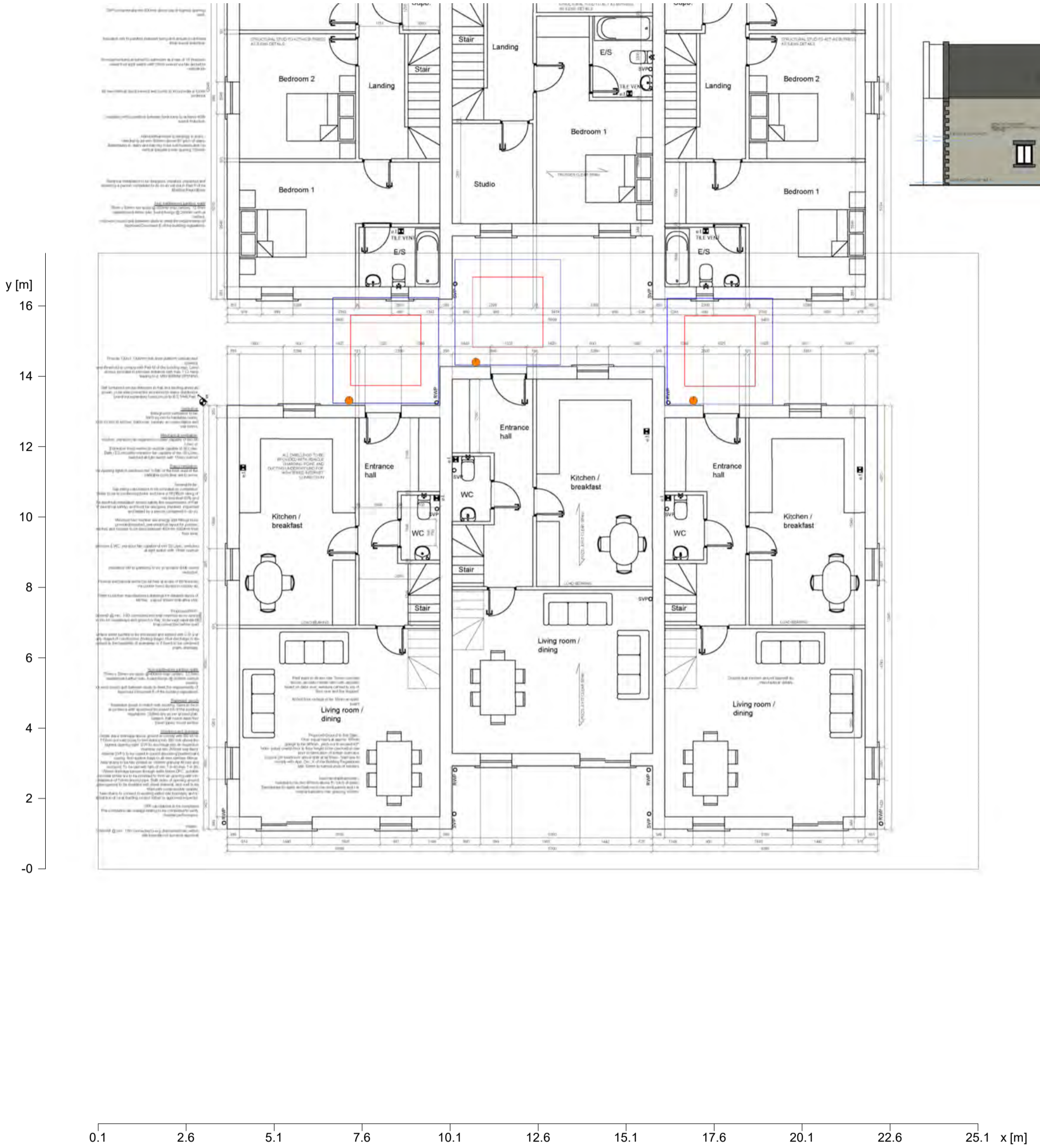
2	4 x	ANSELL
	Order No.	: APRIP/1 (7W 4000K)
	Luminaire name	: DOWNLIGHTS - Prism Pro Dual Wattage
	Equipment	: 1 x LED single 840 7 W / 737 lm



9 New Cottage external

9.1 Description, New Cottage external

9.1.1 Floor plan

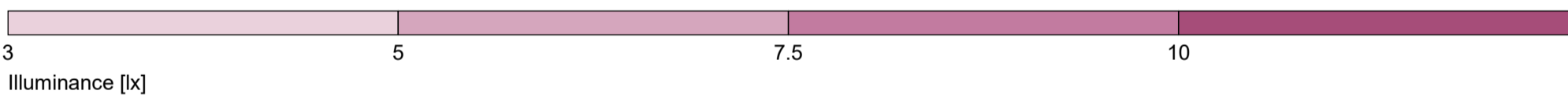




9 New Cottage external

9.2 Summary, New Cottage external

9.2.1 Result overview, Wall light



General

Calculation algorithm used	Average indirect fraction
Height (phot. centre)	1.94 m
Maintenance factor	0.80
Total lamp luminous flux	742 lm
Luminaire luminous flux	548 lm
Total power	8.0 W
Total power per area (9.00 m ²)	0.89 W/m ² (13.25 W/m ² /100lx)

Wall light

Wall light

	Horizontal
\bar{E}_m	6.71 lx
E_{min}	3.22 lx
$E_{min}/\bar{E}_m (U_0)$	0.48
$E_{min}/E_{max} (U_d)$	0.22
Position	0.00 m

Type No./Make

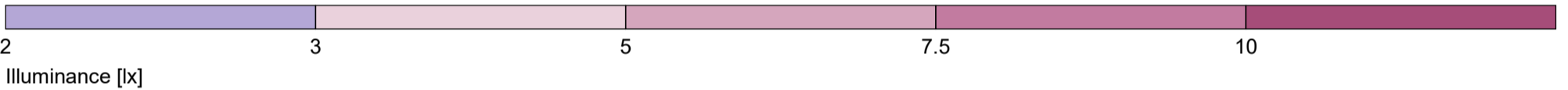
3	1 x	ANSELL	
		Order No.	: !ALWLLED/PIR/BL
		Luminaire name	: WALL LIGHTS - Latina Wall Lantern
		Equipment	: 1 x LED 8 W / 742 lm





9.2 Summary, New Cottage external

9.2.2 Result overview, Wall light



General	
Calculation algorithm used	Average indirect fraction
Height (phot. centre)	1.94 m
Maintenance factor	0.80
Total lamp luminous flux	742 lm
Luminaire luminous flux	548 lm
Total power	8.0 W
Total power per area (9.00 m ²)	0.89 W/m ² (16.83 W/m ² /100lx)

Wall light	Wall light
	Horizontal
\bar{E}_m	5.28 lx
E_{min}	2.07 lx
$E_{min}/\bar{E}_m (U_0)$	0.39
$E_{min}/E_{max} (U_d)$	0.15
Position	0.00 m

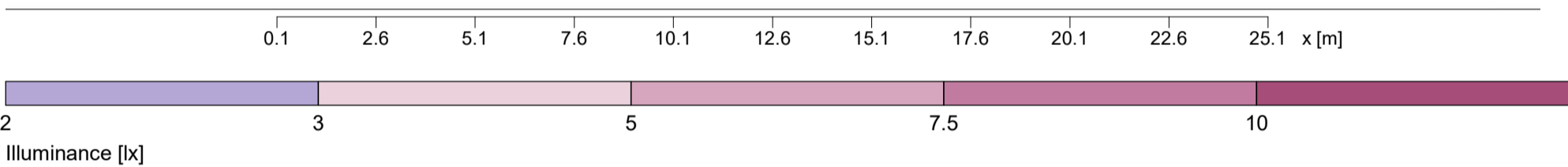
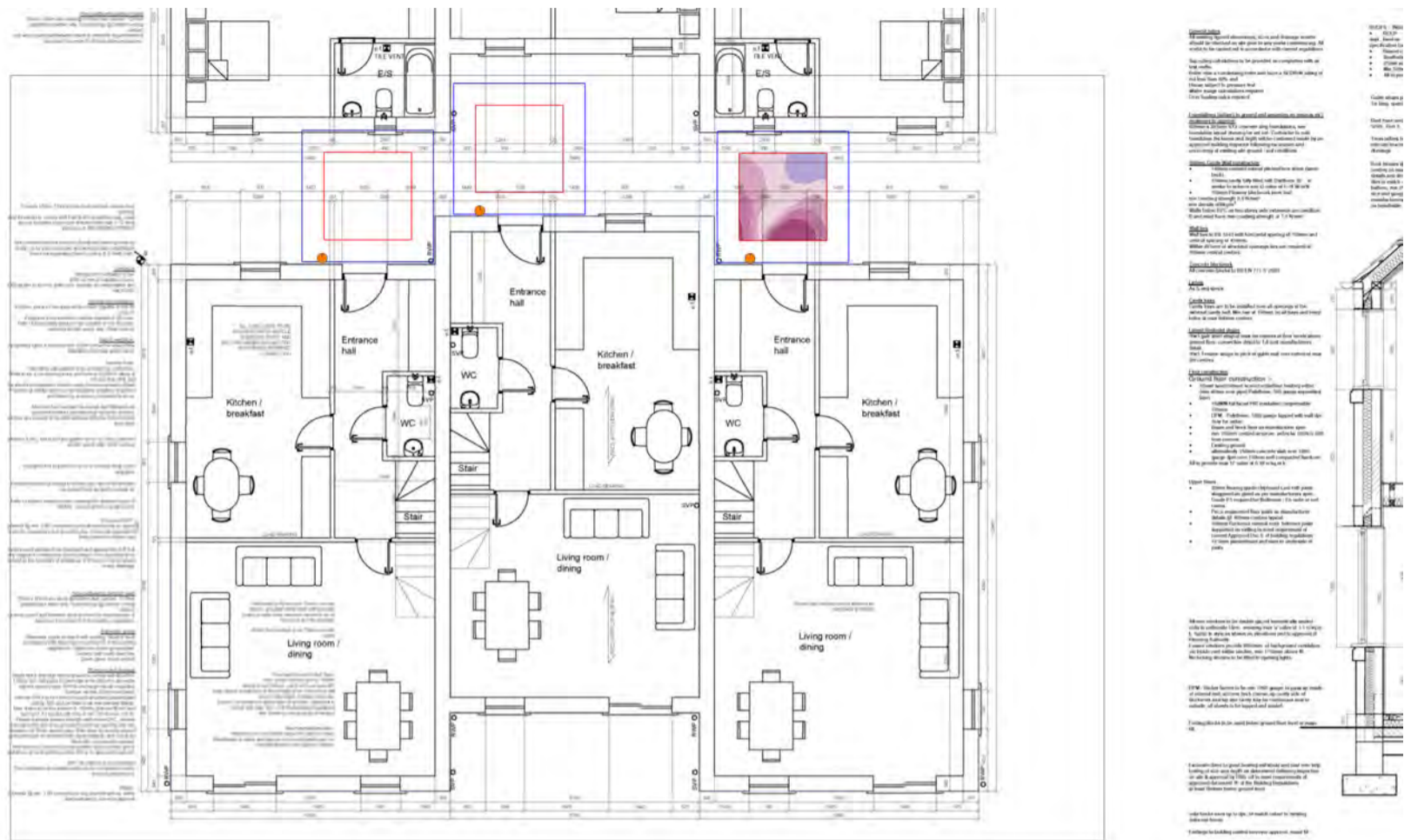
Type No./Make

3	1 x	ANSELL	
		Order No.	: !ALWLLED/PIR/BL
		Luminaire name	: WALL LIGHTS - Latina Wall Lantern
		Equipment	: 1 x LED 8 W / 742 lm



9.2 Summary, New Cottage external

9.2.3 Result overview, Wall light



General	
Calculation algorithm used	Average indirect fraction
Height (phot. centre)	1.94 m
Maintenance factor	0.80
Total lamp luminous flux	742 lm
Luminaire luminous flux	548 lm
Total power	8.0 W
Total power per area (9.00 m ²)	0.89 W/m ² (15.04 W/m ² /100lx)

Wall light	Wall light
	Horizontal
\bar{E}_m	5.91 lx
E_{min}	2.15 lx
$E_{min}/\bar{E}_m (U_0)$	0.36
$E_{min}/E_{max} (U_d)$	0.14
Position	0.00 m

Type No./Make

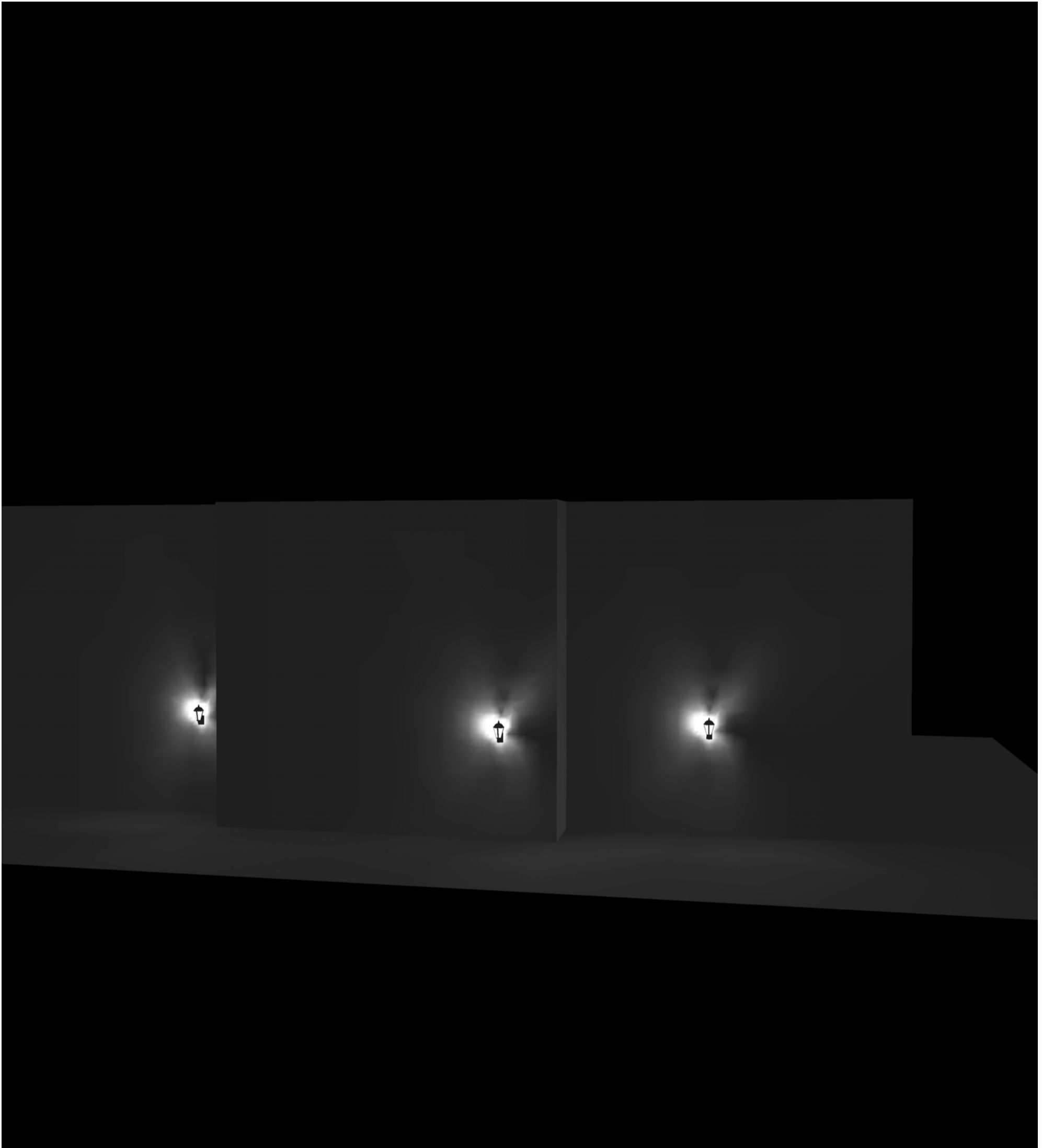
3	1 x		ANSELL
			Order No. : !ALWLLED/PIR/BL
			Luminaire name : WALL LIGHTS - Latina Wall Lantern
			Equipment : 1 x LED 8 W / 742 lm



9 New Cottage external

9.3 Calculation results, New Cottage external

9.3.1 3D luminance, View 1



Luminance in the scene
Minimum: : 0 cd/m²
Maximum: : 488 cd/m²



10 House 4/ New dwelling/house 3/a - External

10.1 Description, House 4/ New dwelling/house 3/a - External

10.1.1 Floor plan

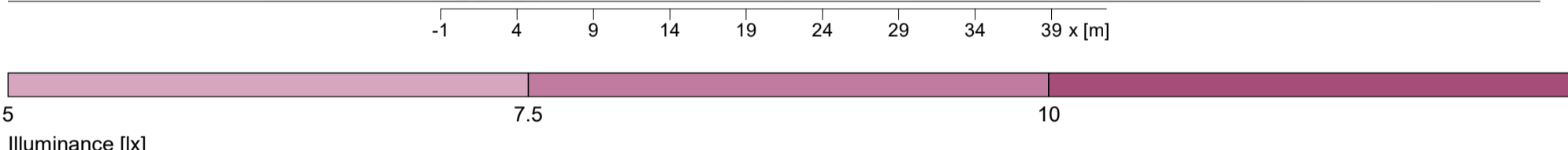




10 House 4/ New dwelling/house 3/a - External

10.2 Summary, House 4/ New dwelling/house 3/a - External

10.2.1 Result overview, Evaluation area 1



General	
Calculation algorithm used	Average indirect fraction
Height (phot. centre)	1.94 m
Maintenance factor	0.80
Total lamp luminous flux	742 lm
Luminaire luminous flux	548 lm
Total power	8.0 W
Total power per area (6.60 m ²)	1.21 W/m ² (15.25 W/m ² /100lx)

Evaluation area 1	Reference plane 1.1
	Horizontal
\bar{E}_m	7.95 lx
E_{min}	5.23 lx
$E_{min}/\bar{E}_m (U_0)$	0.66
$E_{min}/E_{max} (U_d)$	0.37
Position	0.00 m

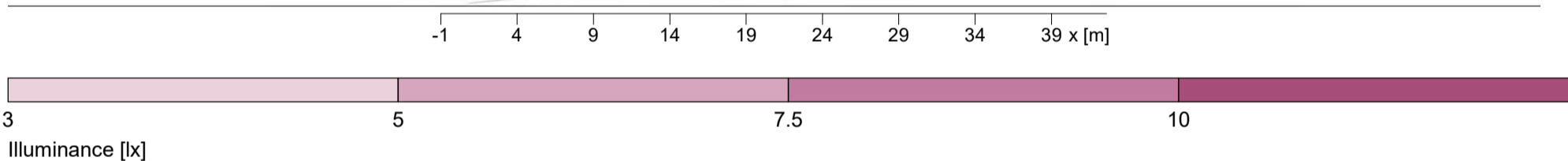
Type No. Make

3	1 x	ANSELL	
		Order No.	: !ALWLED/PIR/BL
		Luminaire name	: WALL LIGHTS - Latina Wall Lantern
		Equipment	: 1 x LED 8 W / 742 lm



10.2 Summary, House 4/ New dwelling/house 3/a - External

10.2.2 Result overview, Evaluation area 2



General


Calculation algorithm used	Average indirect fraction
Height (phot. centre)	1.94 m
Maintenance factor	0.80
Total lamp luminous flux	742 lm
Luminaire luminous flux	548 lm
Total power	8.0 W
Total power per area (9.00 m ²)	0.89 W/m ² (12.40 W/m ² /100lx)

Evaluation area 2

Reference plane 2.1

	Horizontal
\bar{E}_m	7.17 lx
E_{min}	3.72 lx
$E_{min}/\bar{E}_m (U_0)$	0.52
$E_{min}/E_{max} (U_d)$	0.29
Position	0.00 m

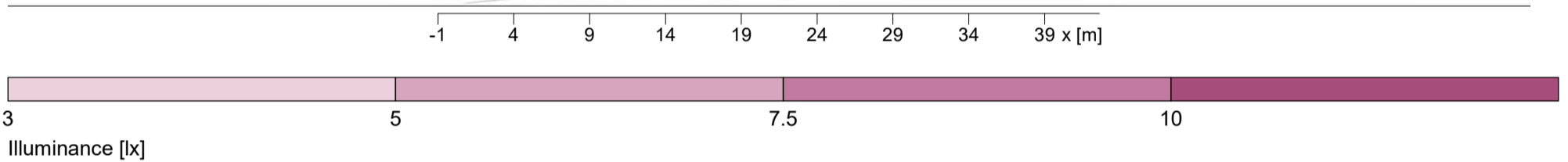
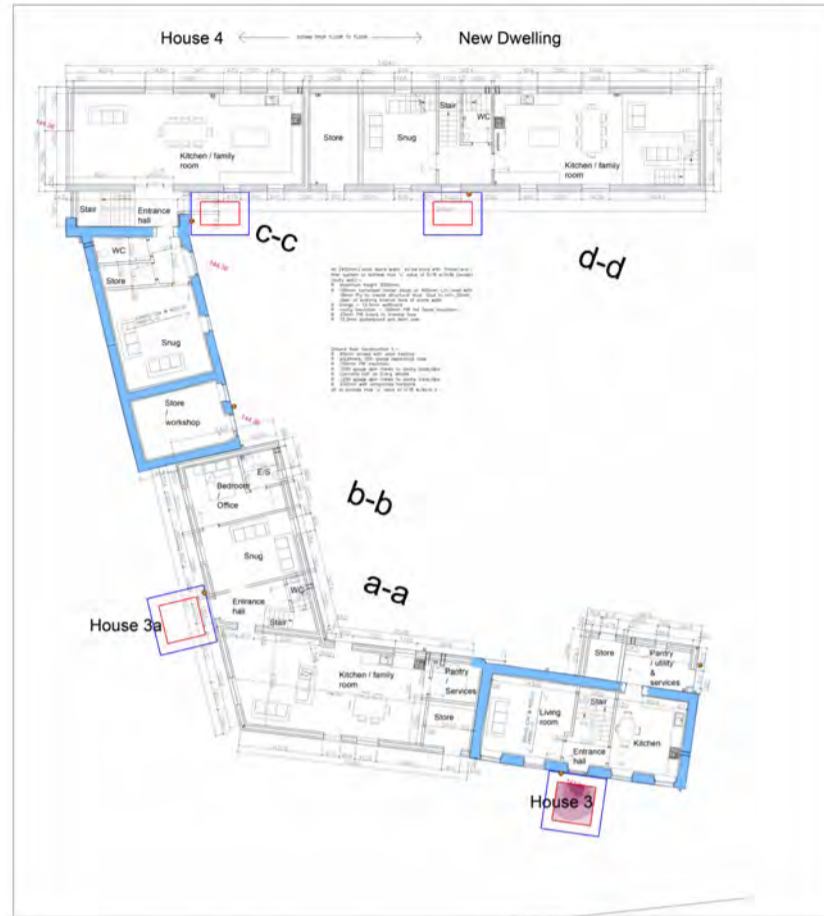
Type No. Make

3	1 x	ANSELL	
		Order No.	: !ALWLLED/PIR/BL
		Luminaire name	: WALL LIGHTS - Latina Wall Lantern
		Equipment	: 1 x LED 8 W / 742 lm



10.2 Summary, House 4/ New dwelling/house 3/a - External

10.2.3 Result overview, Evaluation area 3



General


Calculation algorithm used	Average indirect fraction
Height (phot. centre)	1.94 m
Maintenance factor	0.80
Total lamp luminous flux	742 lm
Luminaire luminous flux	548 lm
Total power	8.0 W
Total power per area (9.00 m ²)	0.89 W/m ² (12.41 W/m ² /100lx)

Evaluation area 3

Reference plane 3.1

	Horizontal
\bar{E}_m	7.16 lx
E_{min}	4.07 lx
$E_{min}/\bar{E}_m (U_0)$	0.57
$E_{min}/E_{max} (U_d)$	0.31
Position	0.00 m

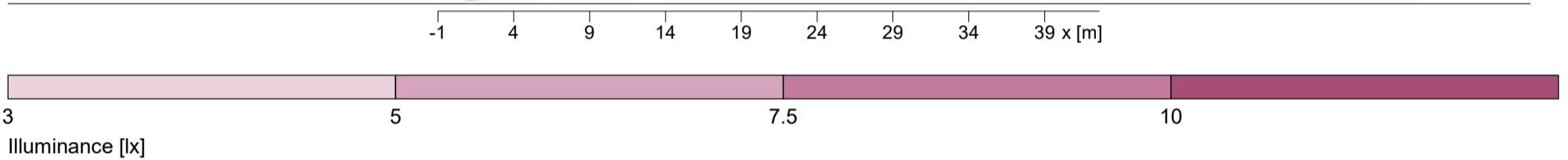
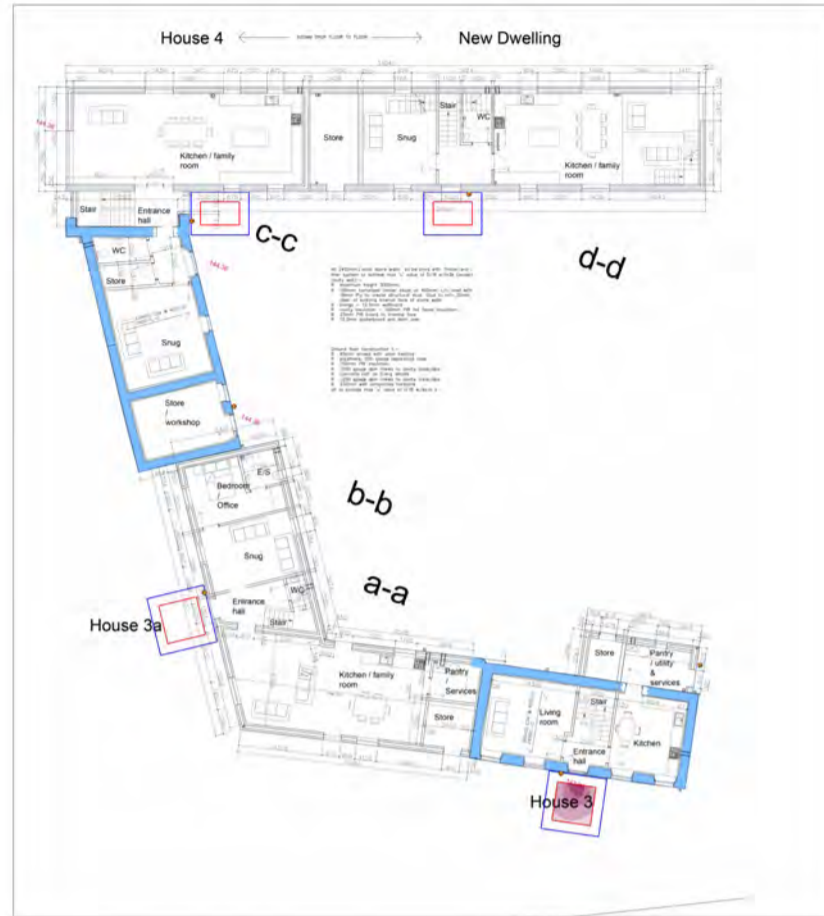
Type No. Make

3	1 x	ANSELL	
		Order No.	: !ALWLLED/PIR/BL
		Luminaire name	: WALL LIGHTS - Latina Wall Lantern
		Equipment	: 1 x LED 8 W / 742 lm



10.2 Summary, House 4/ New dwelling/house 3/a - External

10.2.4 Result overview, Evaluation area 4



General	
Calculation algorithm used	Average indirect fraction
Height (phot. centre)	1.94 m
Maintenance factor	0.80
Total lamp luminous flux	742 lm
Luminaire luminous flux	548 lm
Total power	8.0 W
Total power per area (9.00 m ²)	0.89 W/m ² (12.41 W/m ² /100lx)

Evaluation area 4	Reference plane 4.1
	Horizontal
\bar{E}_m	7.16 lx
E_{min}	4.07 lx
$E_{min}/\bar{E}_m (U_0)$	0.57
$E_{min}/E_{max} (U_d)$	0.31
Position	0.00 m

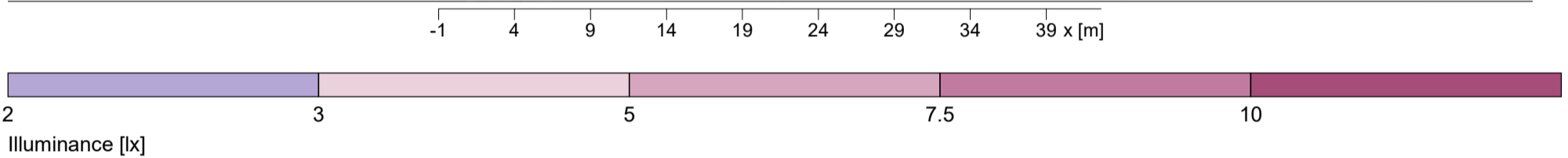
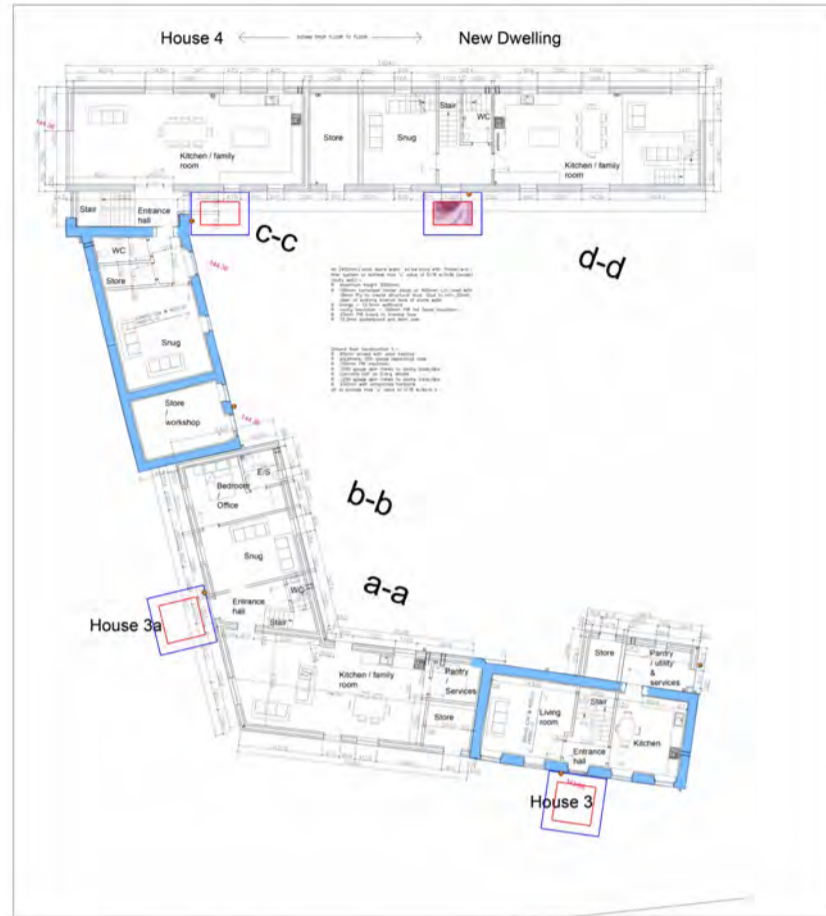
Type No. Make

3	1 x	ANSELL	
		Order No.	: !ALWLLED/PIR/BL
		Luminaire name	: WALL LIGHTS - Latina Wall Lantern
		Equipment	: 1 x LED 8 W / 742 lm



10.2 Summary, House 4/ New dwelling/house 3/a - External

10.2.5 Result overview, Evaluation area 5



General


Calculation algorithm used	Average indirect fraction
Height (phot. centre)	1.94 m
Maintenance factor	0.80
Total lamp luminous flux	742 lm
Luminaire luminous flux	548 lm
Total power	8.0 W
Total power per area (6.60 m ²)	1.21 W/m ² (19.18 W/m ² /100lx)

Evaluation area 5

Reference plane 5.1

	Horizontal
\bar{E}_m	6.32 lx
E_{min}	2.69 lx
$E_{min}/\bar{E}_m (U_0)$	0.43
$E_{min}/E_{max} (U_d)$	0.19
Position	0.00 m

Type No. Make

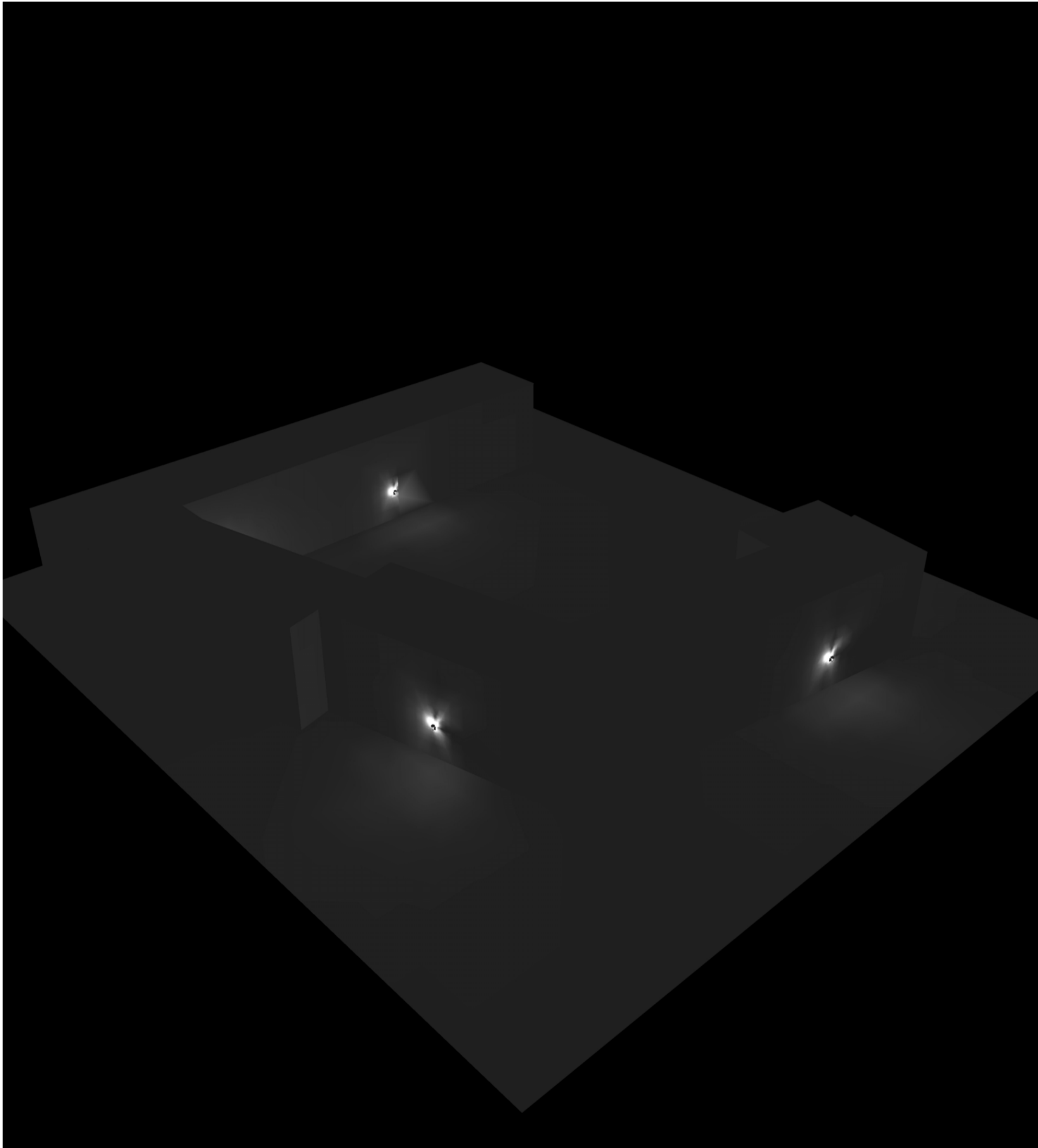
3	1 x	ANSELL	
		Order No.	: !ALWLLED/PIR/BL
		Luminaire name	: WALL LIGHTS - Latina Wall Lantern
		Equipment	: 1 x LED 8 W / 742 lm



10 House 4/ New dwelling/house 3/a - External

10.3 Calculation results, House 4/ New dwelling/house 3/a - External

10.3.1 3D luminance, View 1



Luminance in the scene
Minimum: : 0 cd/m²
Maximum: : 329 cd/m²



Lighting projects will be designed to meet European and UK based legislation, as well as CIBSE guidelines, applicable to the location in which the installation is to take place, in additions to any specific client requirements, where appropriate, and all stated illuminance values will have been calculated based upon overall average values, with acceptable uniformity for the individual room reference plane.

Emergency lighting designs will be calculated in accordance with the appropriate legislation applicable to the country of installation, whether that be the current BS EN 1838 and BS EN 50172 standards, the BS5266-1, Code of Practice, which takes the form of guidance and recommendations, or the Irish Standard, I.S.3217.

Consultation between the responsible person, the owner/developer, and/or the occupier of the premises, the architect, the installation contractor, and enforcing authorities, together with the lighting designer, should have been arranged at a very early stage to define the way in which the system is intended to operate, and plans should be made available, to assist with the consultation and the design process.

The UK legislation imposes a duty on persons, including employers and persons with control of the premises to carry out a risk assessment, and take such precautions as to ensure as far as reasonably practicable, the safety of the occupants, including a safe means of escape, along escape routes and through exits to a place of safety.

The emergency lighting needs to be checked and approved by a local fire control officer and approved by the building owner.

In the absence of appropriate criteria, the emergency lighting design does not include a calculation for certain emergency location requirements, such as for call points, fire alarm panels, firefighting equipment and fire extinguisher positions, first aid points, and push-bars, where these locations have not been included on the supplied drawings, resulting in the situation that if increased illumination levels are required, they will not have been included within the design.

In the absence of a Fire Strategy plan, certain assumptions have been made regarding providing the optimum routes to exit, based upon the shortest distances between locations and the final exit. These are to be reviewed on site to verify the accuracy prior to proceeding to order/installation.

As Ansell has not been issued with a risk assessment document, the company cannot accept responsibility or liability for any inaccuracies caused in the emergency lighting design or equipment offered, therefore the emergency design must be accurately checked and verified by a responsible person or building owner/building user to confirm that assumed risk assessments made are deemed to be correct.

All interior spaces of less than 60m² will be assumed as being not of 'high risk', unless the company is in receipt of a copy of the appropriate risk assessment for the spaces under consideration, and therefore as such, the design of emergency lighting will not be included in these areas, at this design stage.

Following the verification process for the emergency lighting design with regard to the information contained within the design fully meeting the specification for the application, it is to be noted that in all circumstances where assumptions used in the emergency lighting calculations are deemed to be incorrect, Ansell must be made aware of this situation immediately, and definitely prior to any order being placed, allowing the company to amend the emergency calculations, based upon the issue of an amended or new risk assessment.



In respect of the content below, the term Ansell Lighting relates to Ansell Electrical Products Ltd, for both UK and International.

Ansell Lighting will at the request of the Purchaser, agree to supply lighting design services, either directly or to a Third Party, so, as to develop a lighting scheme for which Ansell Lighting will make no charge. Ansell Lighting is not under any obligation to provide such services. Where appropriate, the Purchaser shall make all suitable arrangements for Ansell Lighting to have access to the site and shall provide such other assistance as may be deemed necessary to enable the company to provide such lighting design services. Any drawings, plans, computer aided designs, survey reports, specifications & other material arising from the lighting scheme will remain the absolute property of Ansell Lighting.

It is the responsibility of the person specifying the requirements of the request for a lighting design to provide all the required information and detail for the lighting scheme to be undertaken, whether that be, the Architect, the Consulting Engineer, the Building Contractor, the Electrical Contractor, or the Purchaser. In failing to provide all such information, the completed lighting design may not meet the client's requirements or be unable to provide compliance with current legislation. Current legislation considered on lighting schemes, includes (but is not restricted to) Building Regulation Approved Documents, British Standard Publications, European Standards, European Directives, Statutory Instruments, Health & Safety Publications, CIBSE Lighting Guides and other appropriate documents as deemed necessary.

All design criteria used in the lighting project, unless otherwise specified by the Purchaser or Client will have been assumed by the designer. This relates to all information not supplied with the request, but which is required to undertake the calculations in order to achieve the resultant lighting design. This covers all aspects of the design process, including, (but not restricted to) the space(s) dimensions, height, reflectance(s), and maintenance factor, the LED light source(s) their types, wattage(s) and colour temperature(s), the types of luminaire(s) whether that be mains and/or integrated/stand-alone emergency, their mounting height(s), position(s), and orientation(s), the type(s) of LED driver(s), and any luminaire attachments, or other information required that the designer deems necessary for the design to be calculated.

The lighting scheme will be calculated, by computer aided design, (where applicable) and by other means, (where not) so as to achieve certain illumination criteria. Unless, otherwise specified, all values of illumination, uniformity and levels of glare achieved will be based upon those given within the relevant National and International Standards and/or Regulations as well as the CIBSE Lighting Guides. Consideration will be taken to determine an adequate value of illumination for a specific area, such as categorisation of the space, the facilitation of quick and accurate work, the contribution of safety to persons and in creating a good visual environment. Other information not specified will be assumed by the designer.

Ansell Lighting will undertake external lighting schemes for Purchasers which may require planning approval from the local authority in which a lighting scheme is to be installed. It is not the responsibility of Ansell Lighting to seek such planning approval for an installation, however Ansell Lighting can assist, where possible, in providing design information for such an application, in respect of the lighting equipment aspect of the project only. If subsequently, changes to the design are requested, then it is the responsibility of the Purchaser to inform the local authority of such changes and to seek approval of those changes to the planning application.

It is the full responsibility of the purchaser and/or installing electrical contractor to cross-reference all luminaire types and quantities against the relevant computer-generated design and/or layout drawings & supplied quotation to verify that the information supplied by Ansell Lighting is both correct in respect of achieving the solution which meets the received specification and that is acceptable to the person specifying the requirements. Errors and omissions excepted.

If the completed lighting scheme is deficient in any respect, then it is the responsibility of the Purchaser to inform Ansell Lighting at the earliest opportunity, and in all cases, prior to any installation. If, however, the lighting scheme has already been installed, prior to any deficiency being known, then the Purchaser has one month from the date of commencement of operation of the installation, to notify Ansell Lighting in writing of this deficiency, detailing the ways in which the lighting is deficient. If Ansell Lighting receives no such notification within the aforementioned time period, then Ansell Lighting shall be entitled to assume that the lighting scheme meets with the specified requirements. Ansell Lighting must upon receipt of the notification set out above, be allowed permitted access of the premises in question for the purposes of remedying the defect. Ansell Lighting shall be under no obligation to remedy defects in the lighting system which arises from its reliance on the information, specifications or data supplied to the Purchaser.

Ansell Lighting shall not be liable for any business interruption, loss of profits, contracts, goodwill or anticipated savings, loss arising from any Third Party claims or any special indirect or consequential loss (whether or not foreseeable) to the Purchaser / Third Party which may arise as a result of the lighting scheme failing to meet the Purchaser's / Third party's requirements or for problems arising or which may arise as a result of incorrect installation of the goods by or on behalf of the Purchaser / Third Party or arising or which may arise as a result of the Purchaser / Third Party failing to use the goods as specifically recommended by Ansell Lighting for the purposes of the lighting scheme. Save as expressly provided in these conditions all terms, conditions, representations, and warranties (whether implied or not) relating to the sale of goods and/or the supply of services are excluded to the fullest extent permitted by law. The supply of all services and goods to the Purchaser are undertaken within the Terms and Conditions of sale from Ansell Lighting, a copy of which is available upon request.

For and on behalf of Ansell Electrical Products Ltd.