DWD-6528-N Gage

Installation : Proposed Lighting

Project number :
Customer :
Processed by : DWD
Date : 29.10.2025

Lighting Design by DWD

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.

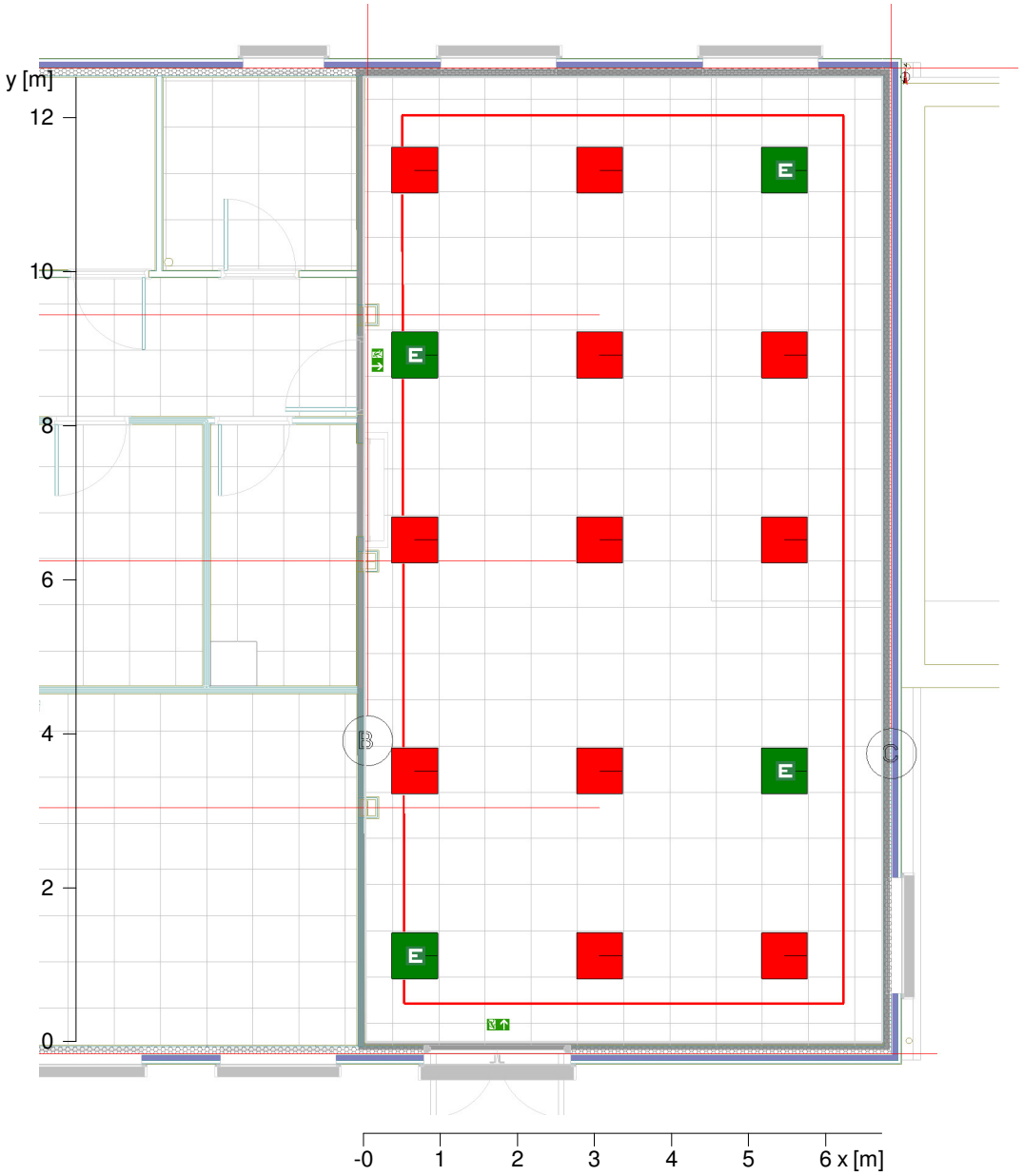
This exclusion of liability applies irrespective of the legal grounds for both damages and consequential damages suffered by users and third parties.

Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

1 Room 1

1.1 Description, Room 1

1.1.1 Floor plan



Wall	x	y	Length	Area[m²]	Reflectance
1	17.37 m	1.10 m	6.70 m	16.42	50.0 %
2	17.37 m	13.63 m	12.53 m	30.70	50.0 %
3	10.64 m	13.63 m	6.73 m	16.49	50.0 %
4	10.67 m	1.10 m	12.53 m	30.70	50.0 %
Floor:				84.2	20.0 %
Ceiling:				84.2	70.0 %
Room height [m]:		2.45 m			
Height of ref. plane [m]:		0.75 m			
Volume		206.2 m³			

Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

1 Room 1

1.2 Summary, Room 1

1.2.1 Result overview, Evaluation area 1





Illuminance [lx]

General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.45 m
Maintenance factor	0.80
Total lamp luminous flux	52515.00 lm
Luminaire luminous flux	52508.02 lm
Total power	437.7 W
Total power per area (84.15 m²)	5.20 W/m² (1.09 W/m²/100lx)

Evaluation area 1	**Reference plane 1.1**	
	Horizontal	cylindrical
$\bar{E}_m$	477 lx	204 lx
E_{min}	281 lx	154 lx
$E_{min}/\bar{E}_m$ (U_o)	0.59	0.75
E_{min}/E_{max} (U_d)	0.48	
E_z/E_h		0.40
Position	0.75 m	1.20 m
R_{UG} (10.0H 5.4H)	<=19.0	

Luminaire :
(FULTON, LED MODULE, !NFU/UGR19/66/840/M3 (FULTON), 28.9 W)

Major surfaces	$\bar{E}_m$	U_o

Type No.\Make

Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

1 Room 1

1.2 Summary, Room 1

1.2.1 Result overview, Evaluation area 1

NVC Lighting

1 11 x 
Order No. : NFU/UGR19/66/840 (FULTON)/Setting 29W
Luminaire name : FULTON
Equipment : 1 x LED MODULE 28.9 W / 3475 lm

2 4E x 
Order No. : !NFU/UGR19/66/840/M3 (FULTON)/Setting 29W -- Emergency Lighting --
Luminaire name : FULTON
Equipment : 1 x LED MODULE 28.9 W / 3475 lm
Emergency : 220 lm (6.3 %)

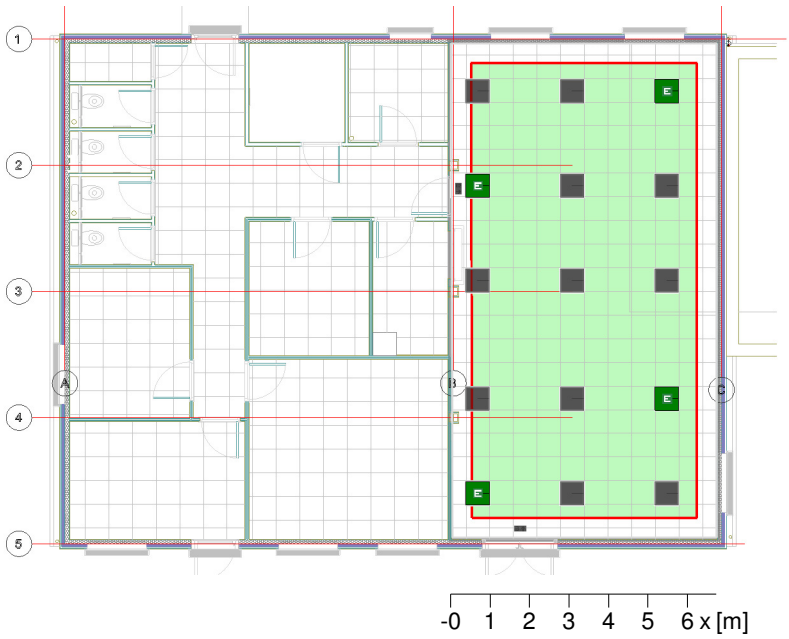
4 2 x 
Order No. : !LEXINGTON/Setting 1
Luminaire name : LEXINGTON
Equipment : 1 x LED MAINS MODULE 2.1 W / 195 lm

Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

1 Room 1

1.3 Summary, Room 1

1.3.1.1 Result overview (emergency lighting)





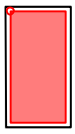
Illuminance [lx]

General

Calculation algorithm used	: Direct component	
Emergency norm	: EN 1838:2019	
Maintenance factor	: 0.8	
Height (phot.centre)	: 2.45 m	
Maximum I	: 100 cd	<= 500 cd

Anti panic area:

No.	Emin [lx]	Surface Emax [lx]	Ud
Anti panic area 1.1			
Calculation field: 5.73m x 11.53m (9 x 19 pts), Height = 0.00m			
1	1.00 lx	12.46 lx	1: 12.45
	>= 0.5 lx		>= 1 : 40



Type No.\Make

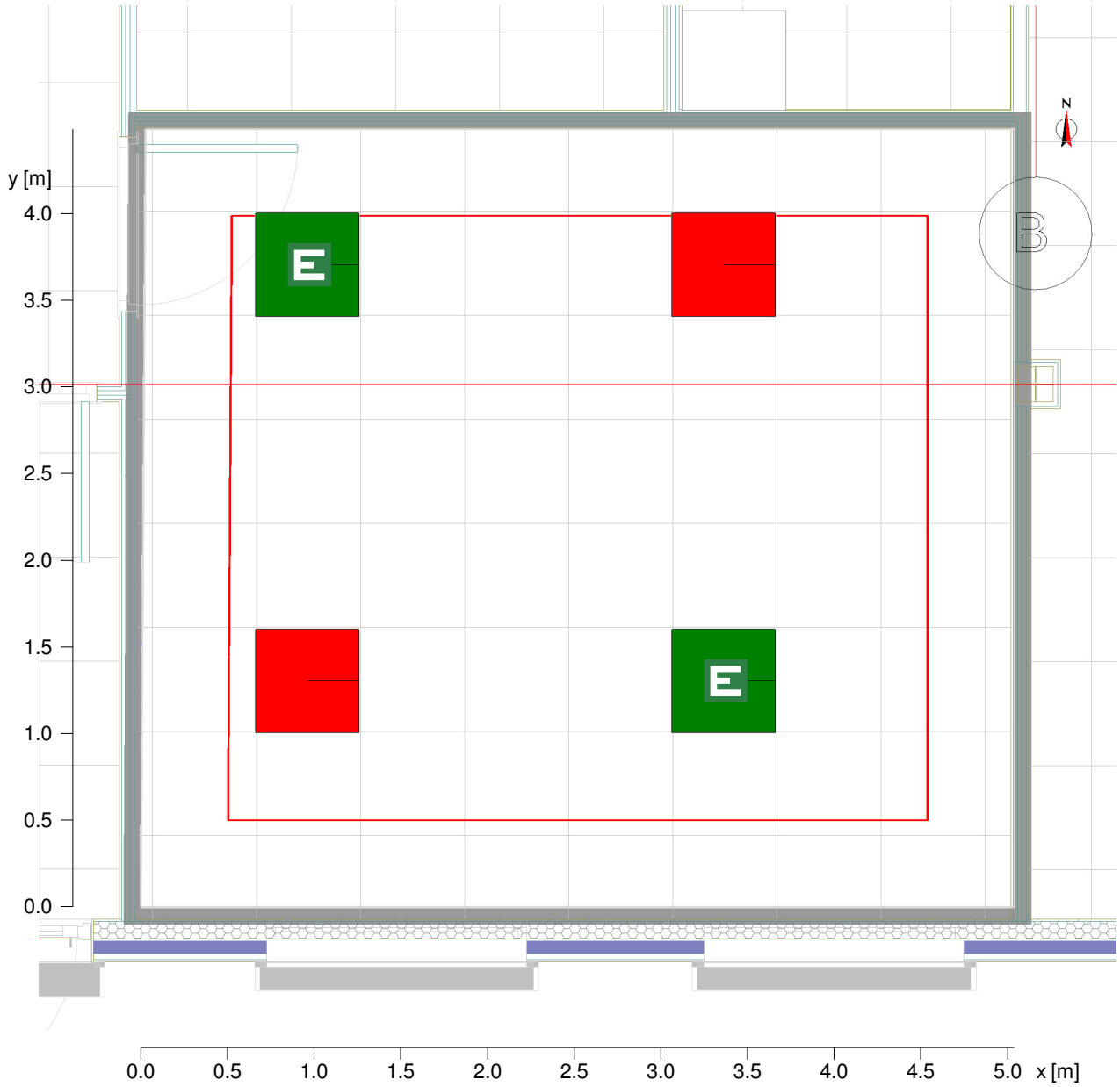
		NVC Lighting		
2	4E x	Order No.	: !NFU/UGR19/66/840/M3 (FULTON)/Setting 29W	-- Emergency Lighting --
		Luminaire name	: FULTON	
		Equipment	: 1 x LED MODULE 28.9 W / 3475 lm	
		Emergency	: 220 lm (6.3 %)	
		Maintenance factor	: 0.80	

Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

2 Room 2

2.1 Description, Room 2

2.1.1 Floor plan



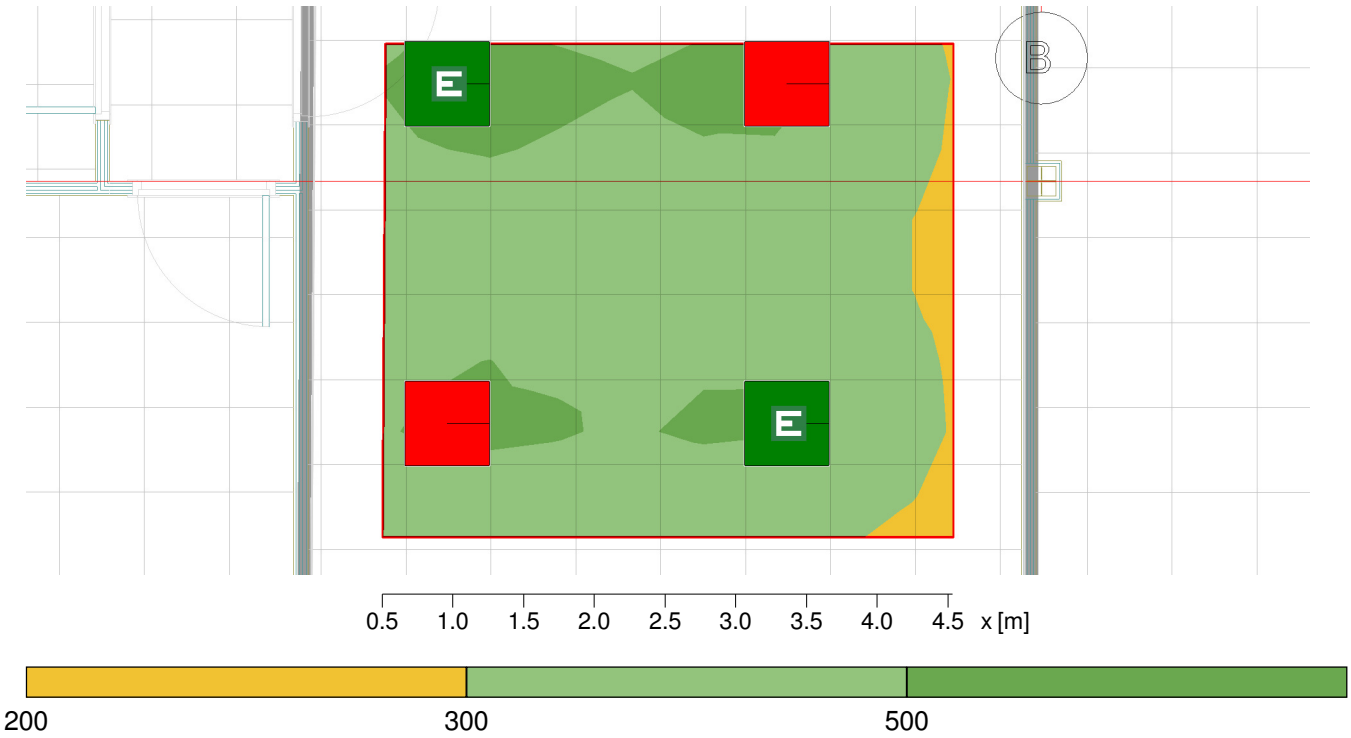
Wall	x	y	Length	Area[m²]	Reflectance
1	10.57 m	1.13 m	5.04 m	12.34	50.0 %
2	10.57 m	5.61 m	4.49 m	10.99	50.0 %
3	5.56 m	5.61 m	5.01 m	12.27	50.0 %
4	5.53 m	1.13 m	4.49 m	10.99	50.0 %
Floor:				22.5	20.0 %
Ceiling:				22.5	70.0 %
Room height [m]:		2.45 m			
Height of ref. plane [m]:		0.75 m			
Volume		55.2 m³			

Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

2 Room 2

2.2 Summary, Room 2

2.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.45 m
Maintenance factor	0.80
Total lamp luminous flux	13900.00 lm
Luminaire luminous flux	13898.14 lm
Total power	115.6 W
Total power per area (22.54 m²)	5.13 W/m² (1.15 W/m²/100lx)

Evaluation area 1	**Reference plane 1.1**	
	Horizontal	cylindrical
$\bar{E}_m$	445 lx	176 lx
E_{min}	293 lx	129 lx
$E_{min}/\bar{E}_m$ (U_o)	0.66	0.74
E_{min}/E_{max} (U_d)	0.54	
E_z/E_h		0.34
Position	0.75 m	1.20 m
RUG (3.6H 4.0H)	<=18.0	

Luminaire :
(FULTON, LED MODULE, NFU/UGR19/66/840 (FULTON), 28.9 W)

Major surfaces	$\bar{E}_m$	U_o

Type No.\Make

Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

2 Room 2

2.2 Summary, Room 2

2.2.1 Result overview, Evaluation area 1

NVC Lighting

1 2 x 
Order No. : NFU/UGR19/66/840 (FULTON)/Setting 29W
Luminaire name : FULTON
Equipment : 1 x LED MODULE 28.9 W / 3475 lm

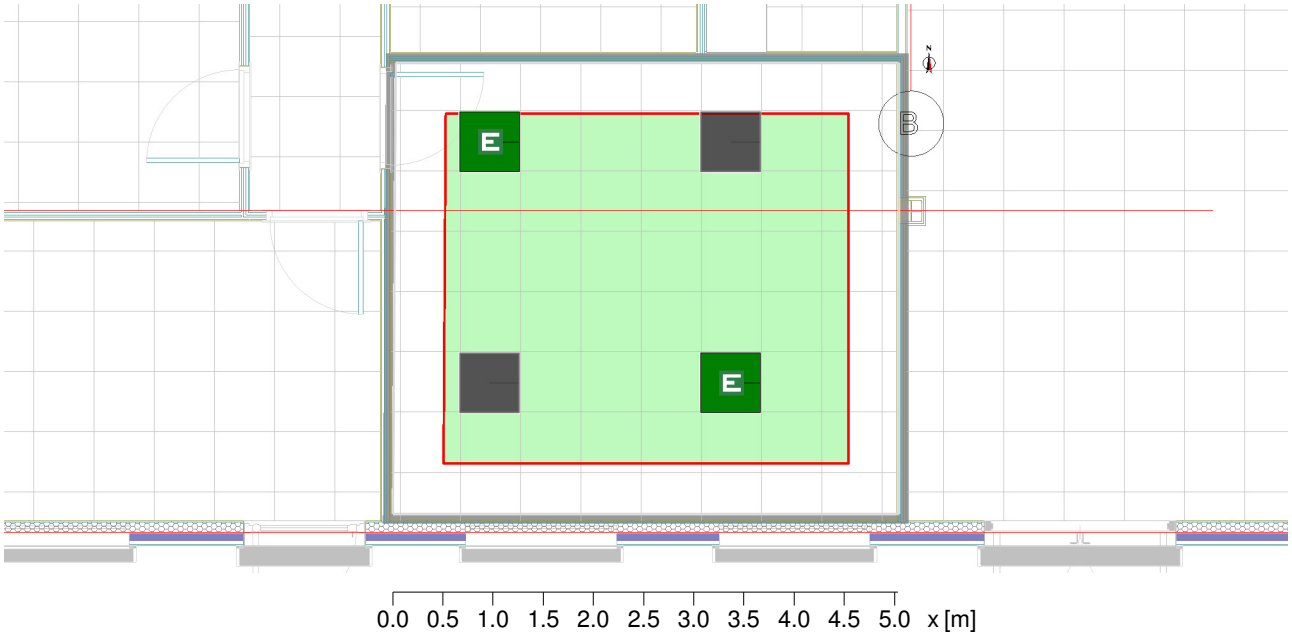
2 2E x 
Order No. : !NFU/UGR19/66/840/M3 (FULTON)/Setting 29W -- Emergency Lighting --
Luminaire name : FULTON
Equipment : 1 x LED MODULE 28.9 W / 3475 lm
Emergency : 220 lm (6.3 %)

Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

2 Room 2

2.3 Summary, Room 2

2.3.1.1 Result overview (emergency lighting)





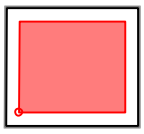
Illuminance [lx]

General

Calculation algorithm used	: Direct component	
Emergency norm	: EN 1838:2019	
Maintenance factor	: 0.8	
Height (phot.centre)	: 2.45 m	
Maximum I	: 100 cd	<= 500 cd

Anti panic area:

No.	Emin [lx]	Surface Emax [lx]	Ud
Anti panic area 1.1			
Calculation field: 4.03m x 3.49m (8 x 7 pts), Height = 0.00m			
1	2.00 lx	13.22 lx	1: 6.60
	>= 0.5 lx		>= 1 : 40



Type No.\Make

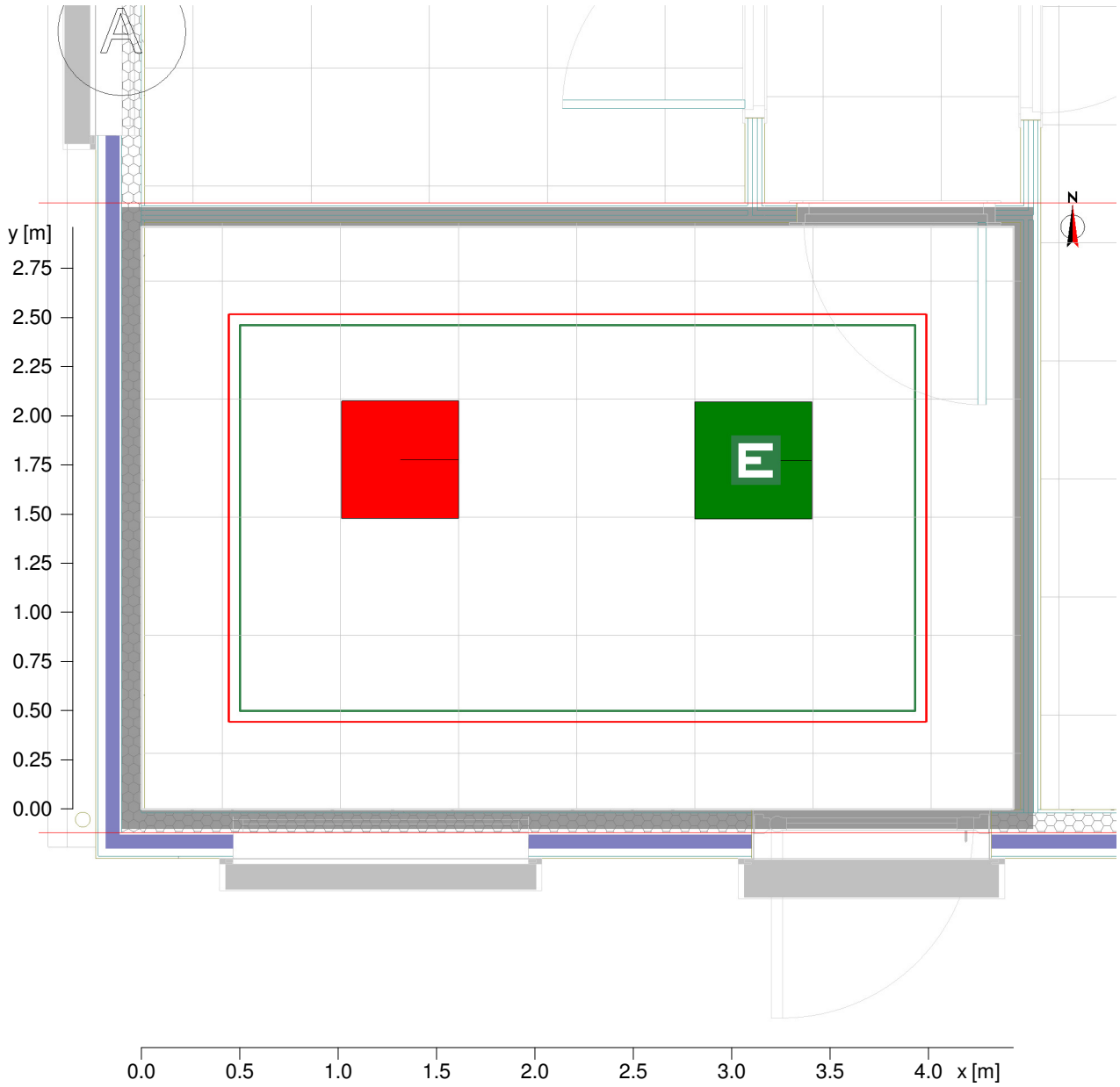
		NVC Lighting		
2	2E x	Order No.	: !NFU/UGR19/66/840/M3 (FULTON)/Setting 29W	-- Emergency Lighting --
		Luminaire name	: FULTON	
		Equipment	: 1 x LED MODULE 28.9 W / 3475 lm	
		Emergency	: 220 lm (6.3 %)	
		Maintenance factor	: 0.80	

Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

3 Room 3

3.1 Description, Room 3

3.1.1 Floor plan



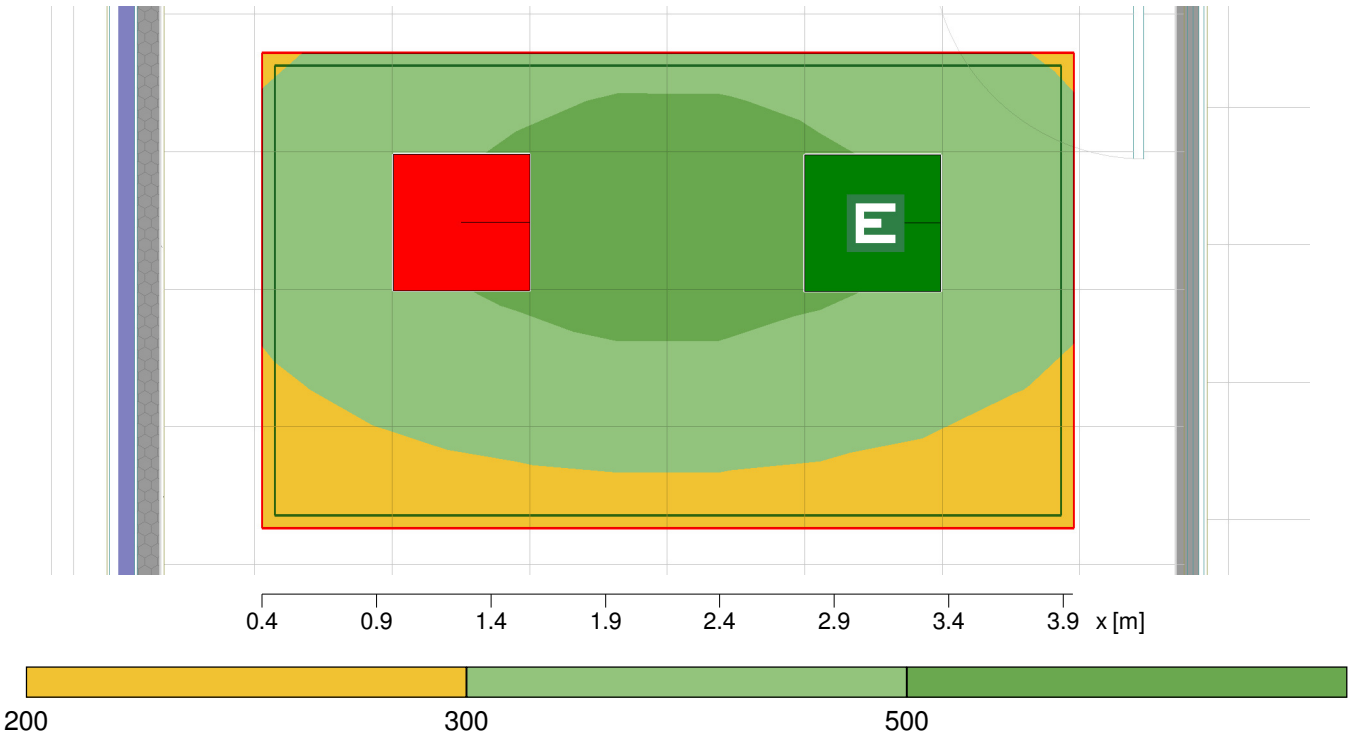
Wall	x	y	Length	Area[m²]	Reflectance
1	5.37 m	1.06 m	4.43 m	10.85	50.0 %
2	5.37 m	4.02 m	2.96 m	7.25	50.0 %
3	0.94 m	4.02 m	4.43 m	10.85	50.0 %
4	0.94 m	1.06 m	2.96 m	7.25	50.0 %
Floor:				13.1	20.0 %
Ceiling:				13.1	70.0 %
Room height [m]:		2.45 m			
Height of ref. plane [m]:		0.75 m			
Volume		32.1 m³			

Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

3 Room 3

3.2 Summary, Room 3

3.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.45 m
Maintenance factor	0.80
Total lamp luminous flux	6950.00 lm
Luminaire luminous flux	6949.07 lm
Total power	57.8 W
Total power per area (13.11 m²)	4.41 W/m² (1.06 W/m²/100lx)

Evaluation area 1	**Reference plane 1.1**	
	Horizontal	cylindrical
$\bar{E}_m$	416 lx	151 lx
E_{min}	208 lx	102 lx
$E_{min}/\bar{E}_m$ (U_o)	0.50	0.68
E_{min}/E_{max} (U_d)	0.34	
E_z/E_h		0.29
Position	0.75 m	1.20 m
R_{UG} (2.4H 3.5H)	<=17.0	

Luminaire :
(FULTON, LED MODULE, NFU/UGR19/66/840 (FULTON), 28.9 W)

Major surfaces	$\bar{E}_m$	U_o

Type No.\Make

Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

3 Room 3

3.2 Summary, Room 3

3.2.1 Result overview, Evaluation area 1

NVC Lighting

1 1 x

Order No. : NFU/UGR19/66/840 (FULTON)/Setting 29W
Luminaire name : FULTON
Equipment : 1 x LED MODULE 28.9 W / 3475 lm

2 1E x

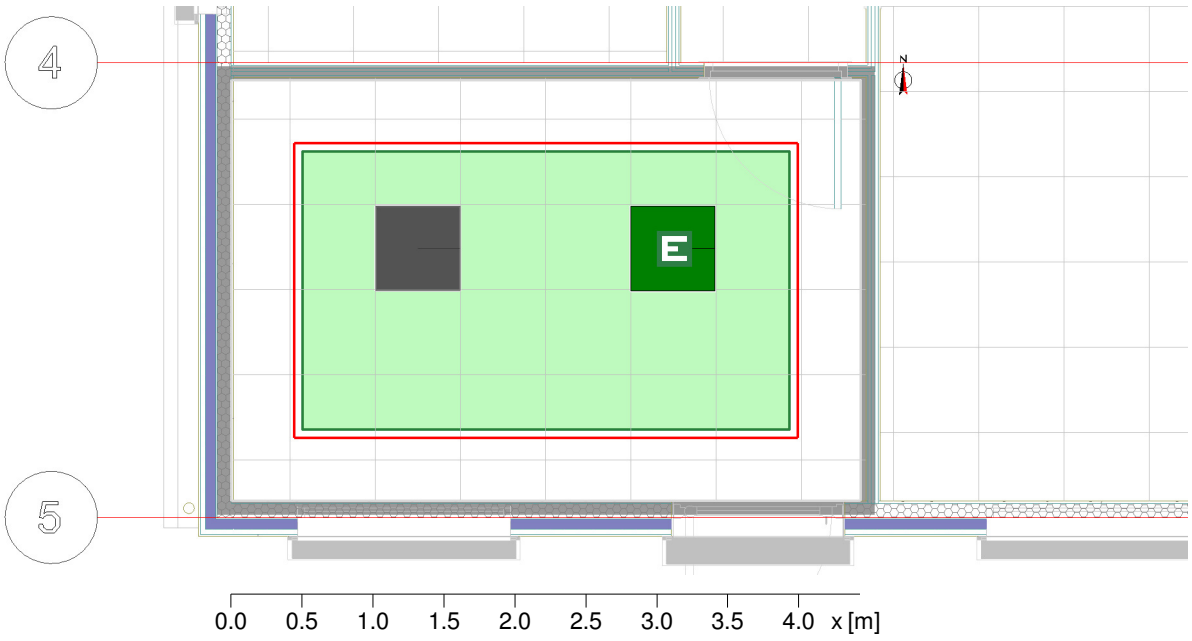
Order No. : !NFU/UGR19/66/840/M3 (FULTON)/Setting 29W -- Emergency Lighting --
Luminaire name : FULTON
Equipment : 1 x LED MODULE 28.9 W / 3475 lm
Emergency : 220 lm (6.3 %)

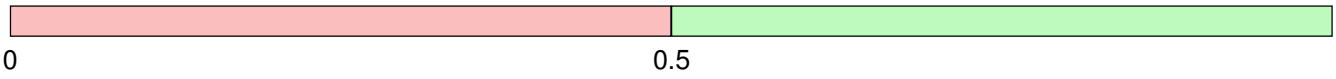
Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

3 Room 3

3.3 Summary, Room 3

3.3.1.1 Result overview (emergency lighting)





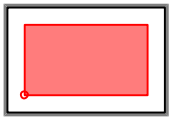
Illuminance [lx]

General

Calculation algorithm used	: Direct component	
Emergency norm	: EN 1838:2019	
Maintenance factor	: 0.8	
Height (phot.centre)	: 2.45 m	
Maximum I	: 100 cd	<= 500 cd

Anti panic area:

No.	Emin [lx]	Surface Emax [lx]	Ud
Anti panic area 1.1			
Calculation field: 3.43m x 1.96m (8 x 5 pts), Height = 0.00m			
1	1.55 lx	12.20 lx	1: 7.88
	>= 0.5 lx		>= 1 : 40



Type No.\Make

2 1E x **NVC Lighting**



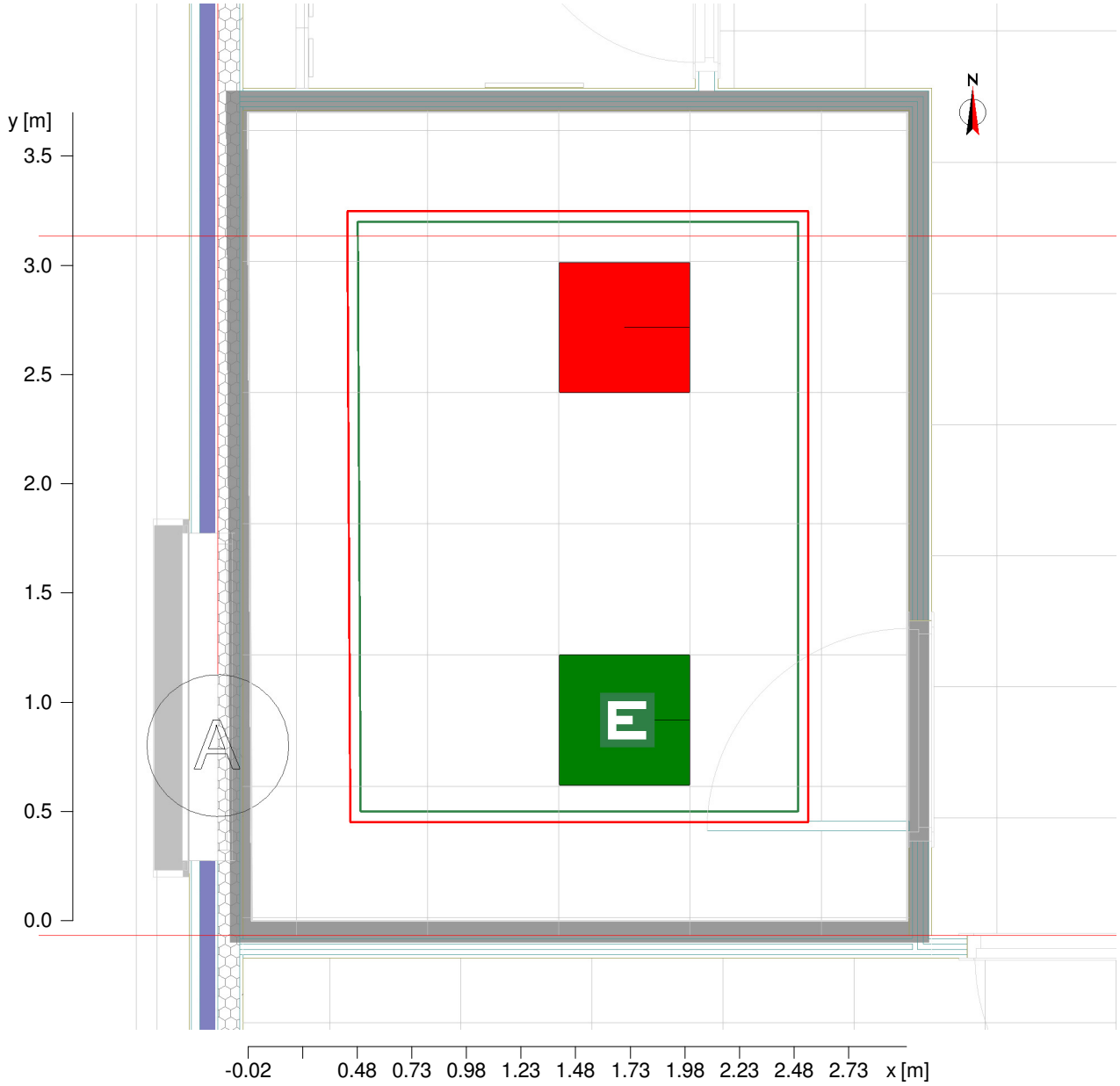
Order No.	: !NFU/UGR19/66/840/M3 (FULTON)/Setting 29W	-- Emergency Lighting --
Luminaire name	: FULTON	
Equipment	: 1 x LED MODULE 28.9 W / 3475 lm	
Emergency	: 220 lm (6.3 %)	
Maintenance factor	: 0.80	

Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

4 Room 4

4.1 Description, Room 4

4.1.1 Floor plan

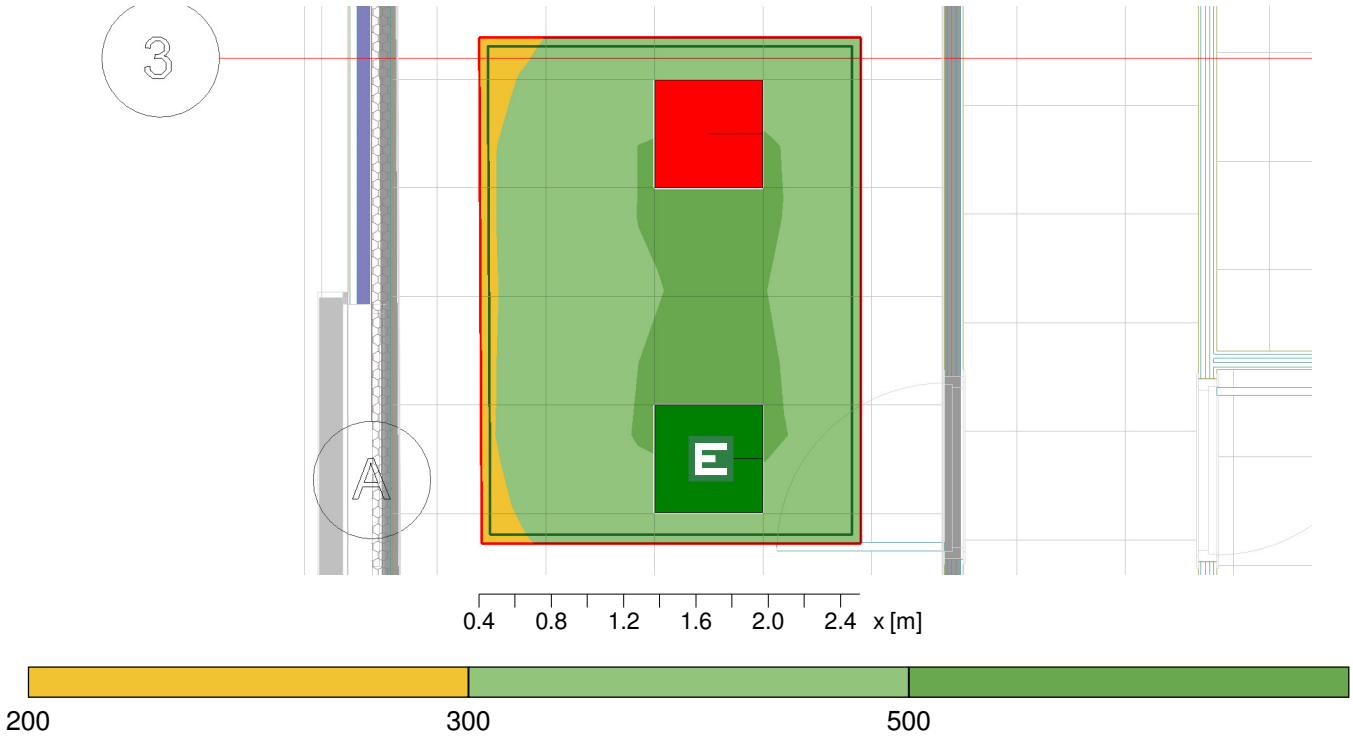


Wall	x	y	Length	Area[m²]	Reflectance
1	4.00 m	4.21 m	3.00 m	7.35	50.0 %
2	4.00 m	7.91 m	3.70 m	9.06	50.0 %
3	0.98 m	7.91 m	3.02 m	7.39	50.0 %
4	1.00 m	4.21 m	3.70 m	9.06	50.0 %
Floor:				11.1	20.0 %
Ceiling:				11.1	70.0 %
Room height [m]:		2.45 m			
Height of ref. plane [m]:		0.75 m			
Volume		27.3 m³			

4 Room 4

4.2 Summary, Room 4

4.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.45 m
Maintenance factor	0.80
Total lamp luminous flux	6950.00 lm
Luminaire luminous flux	6949.07 lm
Total power	57.8 W
Total power per area (11.12 m²)	5.20 W/m² (1.17 W/m²/100lx)

Evaluation area 1	**Reference plane 1.1**	
	Horizontal	cylindrical
$\bar{E}_m$	445 lx	164 lx
E_{min}	289 lx	127 lx
$E_{min}/\bar{E}_m$ (U_o)	0.65	0.77
E_{min}/E_{max} (U_d)	0.55	
E_z/E_h		0.29
Position	0.75 m	1.20 m
R_{UG} (2.4H 3.0H)	<=17.0	

Luminaire :
(FULTON, LED MODULE, NFU/UGR19/66/840 (FULTON), 28.9 W)

Major surfaces	$\bar{E}_m$	U_o

Type No.\Make

Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

4 Room 4

4.2 Summary, Room 4

4.2.1 Result overview, Evaluation area 1

NVC Lighting

1 1 x

Order No. : NFU/UGR19/66/840 (FULTON)/Setting 29W
Luminaire name : FULTON
Equipment : 1 x LED MODULE 28.9 W / 3475 lm

2 1E x

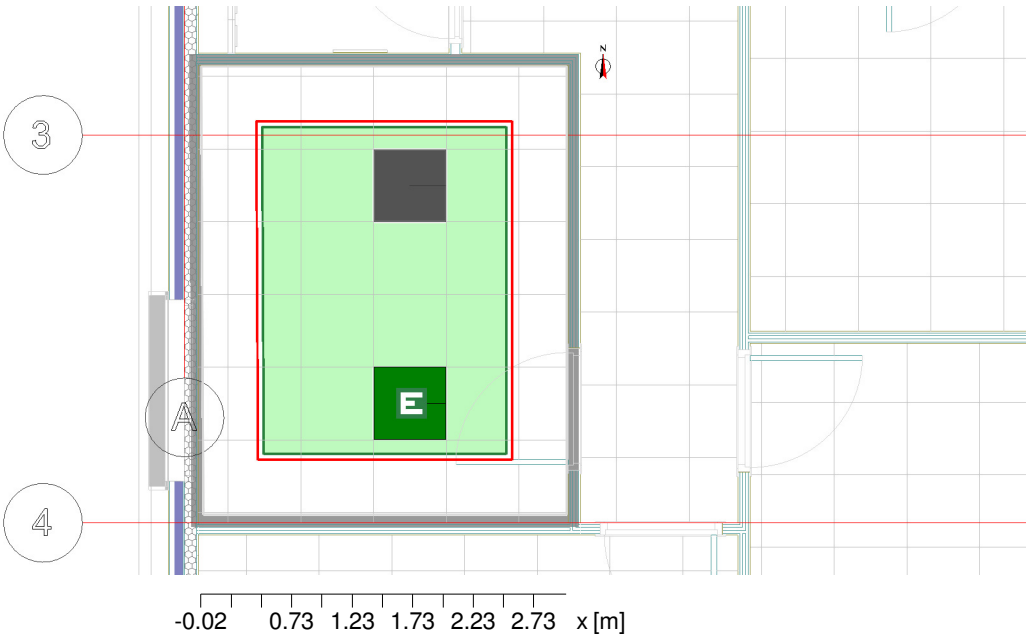
Order No. : !NFU/UGR19/66/840/M3 (FULTON)/Setting 29W -- Emergency Lighting --
Luminaire name : FULTON
Equipment : 1 x LED MODULE 28.9 W / 3475 lm
Emergency : 220 lm (6.3 %)

Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

4 Room 4

4.3 Summary, Room 4

4.3.1.1 Result overview (emergency lighting)





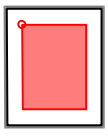
Illuminance [lx]

General

Calculation algorithm used	: Direct component	
Emergency norm	: EN 1838:2019	
Maintenance factor	: 0.8	
Height (phot.centre)	: 2.45 m	
Maximum I	: 100 cd	<= 500 cd

Anti panic area:

No.	Emin [lx]	Surface Emax [lx]	Ud
Anti panic area 1.1			
Calculation field: 2.01m x 2.7m (6 x 7 pts), Height = 0.00m			
1	1.96 lx	12.19 lx	1: 6.24
	>= 0.5 lx		>= 1 : 40



Type No.\Make

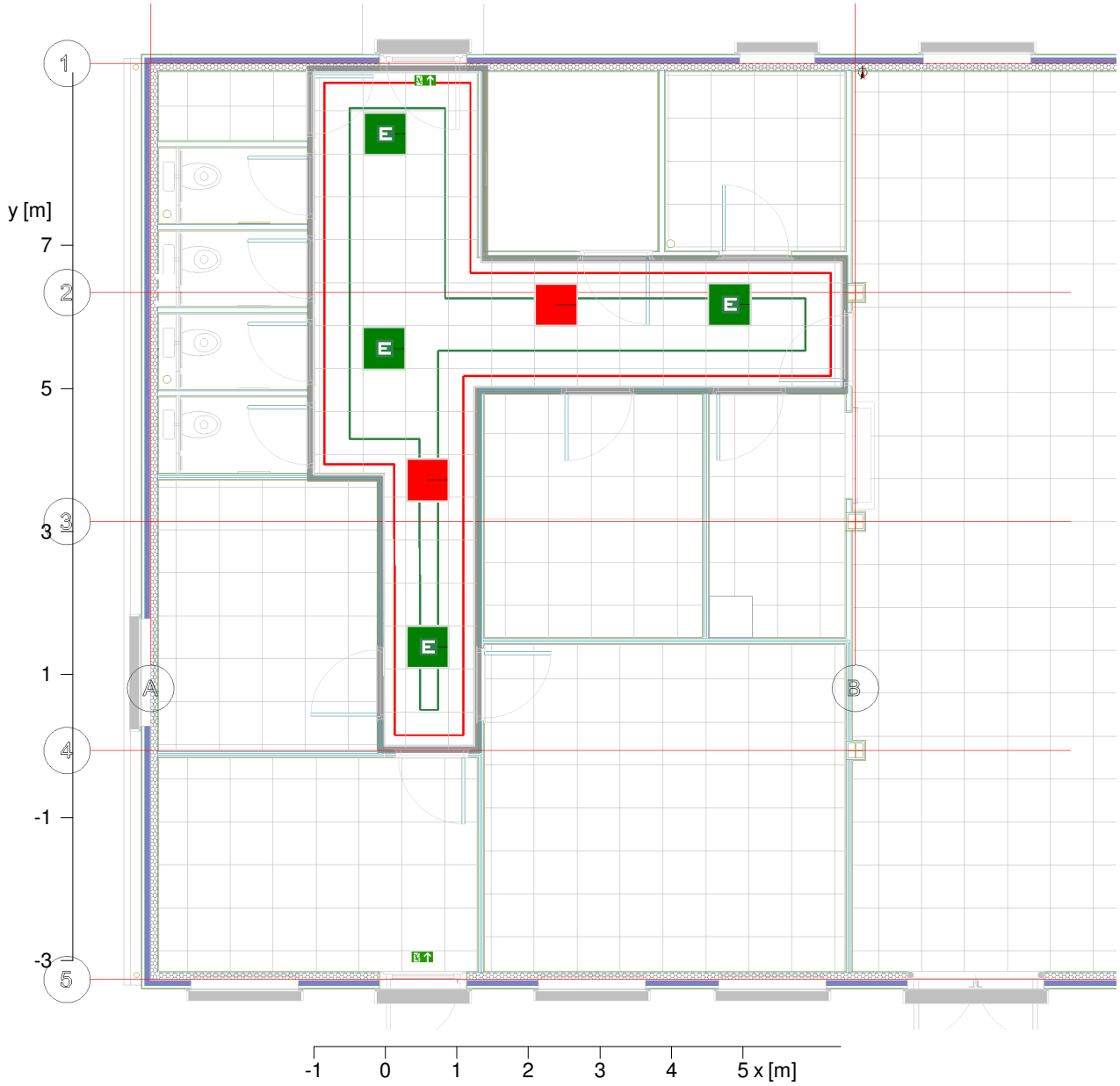
		NVC Lighting		
2	1E x	Order No.	: !NFU/UGR19/66/840/M3 (FULTON)/Setting 29W	-- Emergency Lighting --
		Luminaire name	: FULTON	
		Equipment	: 1 x LED MODULE 28.9 W / 3475 lm	
		Emergency	: 220 lm (6.3 %)	
		Maintenance factor	: 0.80	

Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

5 Room 5

5.1 Description, Room 5

5.1.1 Floor plan



5 Room 5

5.1 Description, Room 5

5.1.1 Floor plan

Wall	x	y	Length	Area[m²]	Reflectance
1	5.36 m	4.21 m	1.25 m	3.07	50.0 %
2	5.36 m	9.23 m	5.02 m	12.29	50.0 %
3	10.49 m	9.23 m	5.13 m	12.57	50.0 %
4	10.49 m	10.97 m	1.74 m	4.25	50.0 %
5	5.46 m	10.97 m	5.04 m	12.34	50.0 %
6	5.46 m	13.62 m	2.66 m	6.51	50.0 %
7	3.12 m	13.62 m	2.33 m	5.72	50.0 %
8	3.12 m	8.00 m	5.63 m	13.78	50.0 %
9	4.10 m	8.00 m	0.98 m	2.39	50.0 %
10	4.11 m	4.21 m	3.79 m	9.27	50.0 %
Floor:				26.5	20.0 %
Ceiling:				26.5	70.0 %
Room height [m]:		2.45 m			
Height of ref. plane [m]:		0.00 m			
Volume		65.0 m³			

Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

5 Room 5

5.2 Summary, Room 5

5.2.1 Result overview, Evaluation area 1





Illuminance [lx]

General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.45 m
Maintenance factor	0.80
Total lamp luminous flux	21045.00 lm
Luminaire luminous flux	21042.21 lm
Total power	175.5 W
Total power per area (26.51 m²)	6.62 W/m² (2.00 W/m²/100lx)

Evaluation area 1	**Reference plane 1.1**	
	Horizontal	cylindrical
$\bar{E}_m$	332 lx	129 lx
E_{min}	195 lx	92 lx
$E_{min}/\bar{E}_m$ (U_o)	0.59	0.72
E_{min}/E_{max} (U_d)	0.44	
E_z/E_h		0.33
Position	0.00 m	0.45 m
R_{UG} (--- ---)	---	

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

Major surfaces	$\bar{E}_m$	U_o

Type No.\Make

Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

5 Room 5

5.2 Summary, Room 5

5.2.1 Result overview, Evaluation area 1

NVC Lighting

1 2 x 
Order No. : NFU/UGR19/66/840 (FULTON)/Setting 29W
Luminaire name : FULTON
Equipment : 1 x LED MODULE 28.9 W / 3475 lm

2 4E x 
Order No. : !NFU/UGR19/66/840/M3 (FULTON)/Setting 29W -- Emergency Lighting --
Luminaire name : FULTON
Equipment : 1 x LED MODULE 28.9 W / 3475 lm
Emergency : 220 lm (6.3 %)

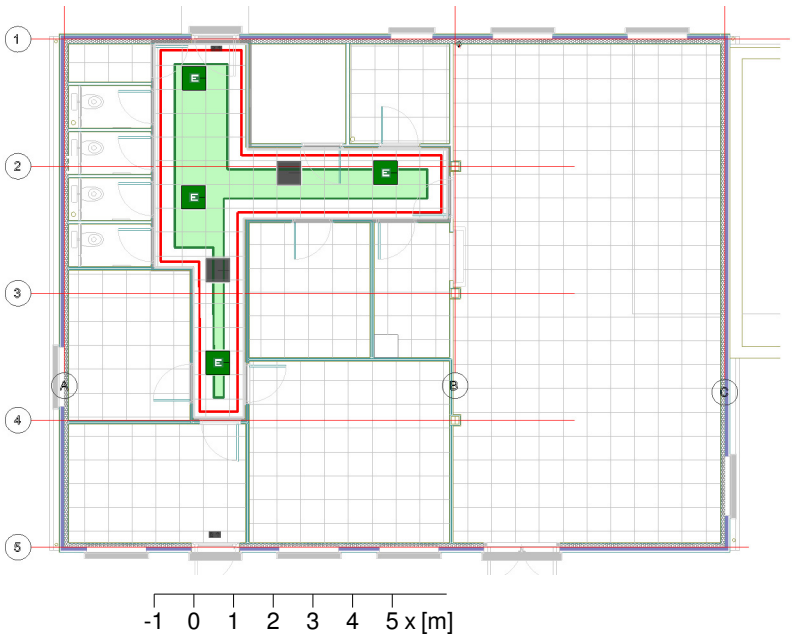
4 1 x 
Order No. : !LEXINGTON/Setting 1
Luminaire name : LEXINGTON
Equipment : 1 x LED MAINS MODULE 2.1 W / 195 lm

Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

5 Room 5

5.3 Summary, Room 5

5.3.1.1 Result overview (emergency lighting)





Illuminance [lx]

General

Calculation algorithm used	: Direct component	
Emergency norm	: EN 1838:2019	
Maintenance factor	: 0.8	
Height (phot.centre)	: 2.45 m	
Maximum I	: 100 cd	<= 500 cd

Anti panic area:

No.	Emin [lx]	Surface Emax [lx]	Ud
Anti panic area 1.1			
Calculation field: 6.37m x 8.41m (22 x 29 pts), Height = 0.00m			
1	5.42 lx	14.03 lx	1: 2.59
	>= 0.5 lx		>= 1 : 40



Type No.\Make

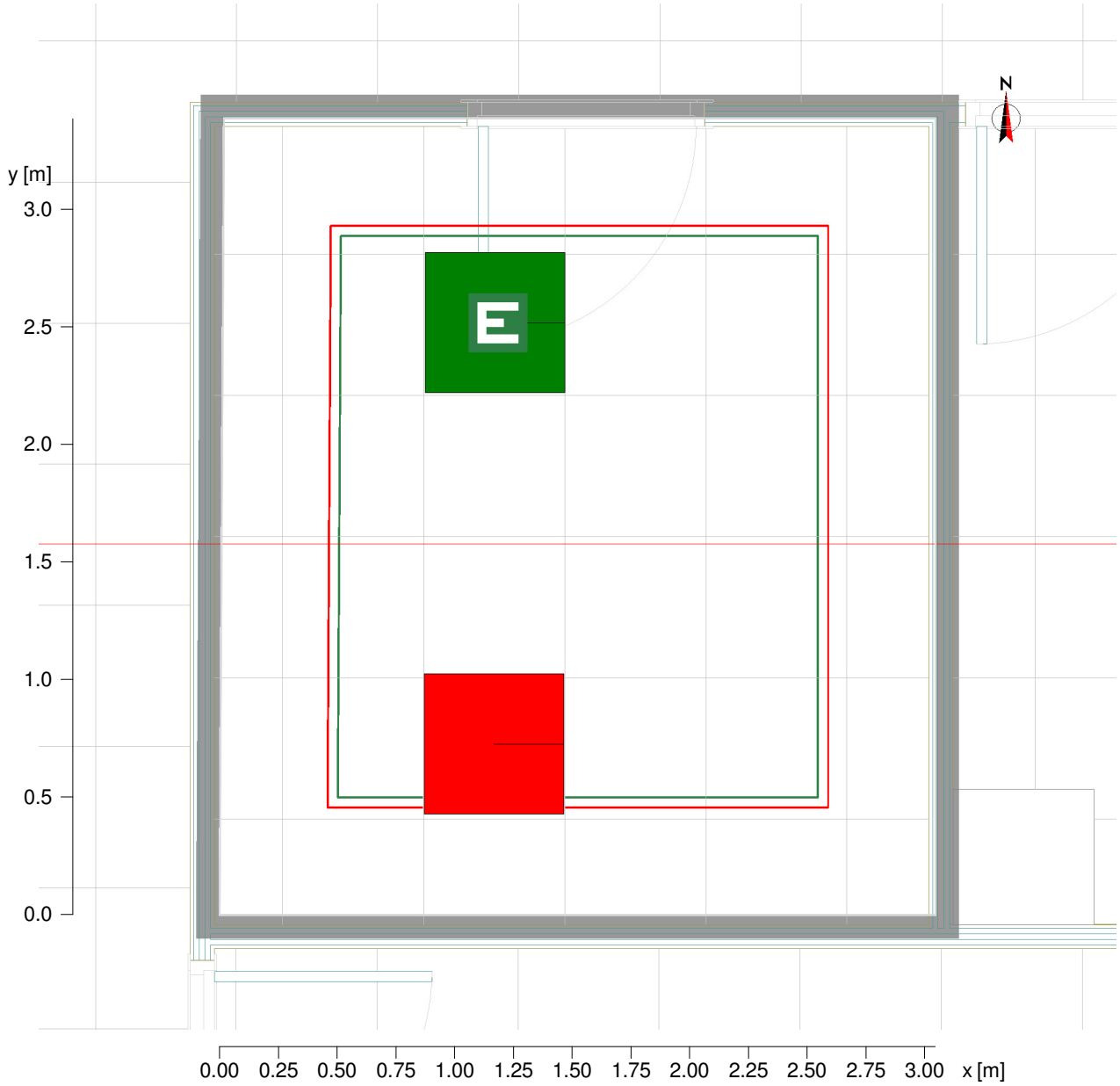
		NVC Lighting		
2	4E x	Order No.	: !NFU/UGR19/66/840/M3 (FULTON)/Setting 29W	-- Emergency Lighting --
		Luminaire name	: FULTON	
		Equipment	: 1 x LED MODULE 28.9 W / 3475 lm	
		Emergency	: 220 lm (6.3 %)	
		Maintenance factor	: 0.80	

Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

6 Room 6

6.1 Description, Room 6

6.1.1 Floor plan



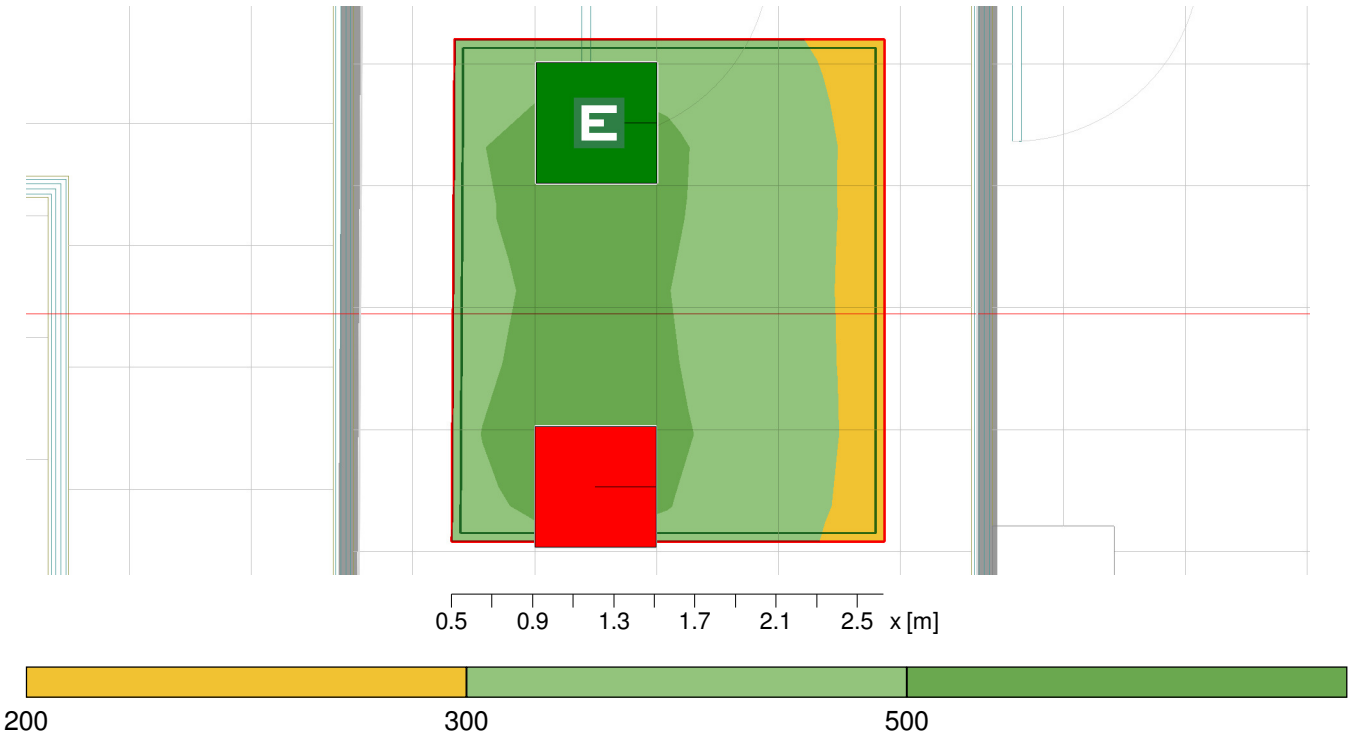
Wall	x	y	Length	Area[m²]	Reflectance
1	8.58 m	5.77 m	3.05 m	7.46	50.0 %
2	8.58 m	9.15 m	3.39 m	8.30	50.0 %
3	5.55 m	9.15 m	3.03 m	7.41	50.0 %
4	5.53 m	5.77 m	3.39 m	8.30	50.0 %
Floor:				10.3	20.0 %
Ceiling:				10.3	70.0 %
Room height [m]:		2.45 m			
Height of ref. plane [m]:		0.75 m			
Volume		25.2 m³			

Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

6 Room 6

6.2 Summary, Room 6

6.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.45 m
Maintenance factor	0.80
Total lamp luminous flux	6950.00 lm
Luminaire luminous flux	6949.07 lm
Total power	57.8 W
Total power per area (10.28 m²)	5.62 W/m² (1.26 W/m²/100lx)

Evaluation area 1	**Reference plane 1.1**	
	Horizontal	cylindrical
$\bar{E}_m$	448 lx	169 lx
E_{min}	254 lx	125 lx
$E_{min}/\bar{E}_m$ (U_o)	0.57	0.74
E_{min}/E_{max} (U_d)	0.47	
E_z/E_h		0.30
Position	0.75 m	1.20 m
R_{UG} (2.4H 2.7H)	<=17.0	

Luminaire :
(FULTON, LED MODULE, !NFU/UGR19/66/840/M3 (FULTON), 28.9 W)

Major surfaces	$\bar{E}_m$	U_o

Type No.\Make

Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

6 Room 6

6.2 Summary, Room 6

6.2.1 Result overview, Evaluation area 1

NVC Lighting

1 1 x

Order No. : NFU/UGR19/66/840 (FULTON)/Setting 29W
Luminaire name : FULTON
Equipment : 1 x LED MODULE 28.9 W / 3475 lm

2 1E x

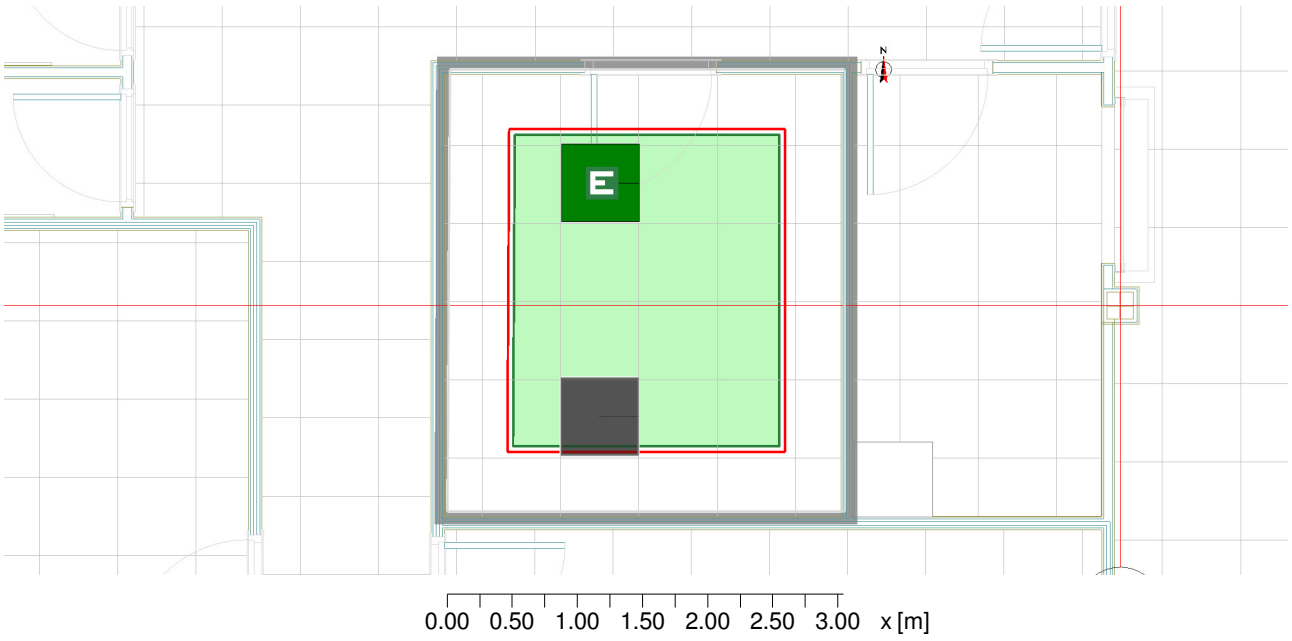
Order No. : !NFU/UGR19/66/840/M3 (FULTON)/Setting 29W -- Emergency Lighting --
Luminaire name : FULTON
Equipment : 1 x LED MODULE 28.9 W / 3475 lm
Emergency : 220 lm (6.3 %)

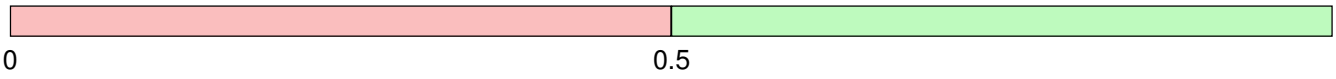
Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

6 Room 6

6.3 Summary, Room 6

6.3.1.1 Result overview (emergency lighting)





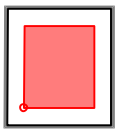
Illuminance [lx]

General

Calculation algorithm used	: Direct component	
Emergency norm	: EN 1838:2019	
Maintenance factor	: 0.8	
Height (phot.centre)	: 2.45 m	
Maximum I	: 100 cd	<= 500 cd

Anti panic area:

No.	Emin [lx]	Surface Emax [lx]	Ud
Anti panic area 1.1			
Calculation field: 2.04m x 2.39m (6 x 7 pts), Height = 0.00m			
1	2.36 lx	12.19 lx	1: 5.16
	>= 0.5 lx		>= 1 : 40



Type No.\Make

2 1E x **NVC Lighting**



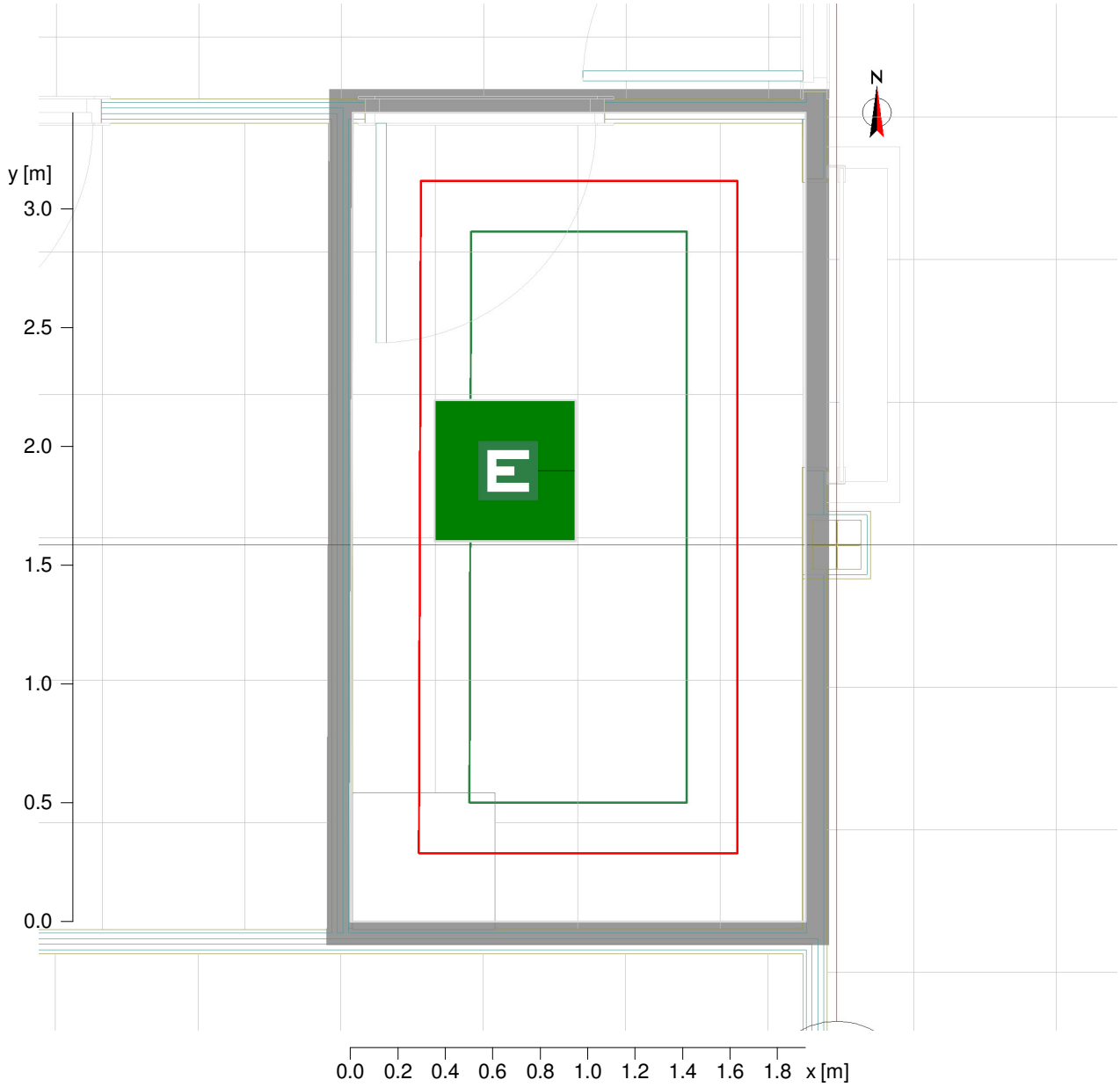
Order No.	: !NFU/UGR19/66/840/M3 (FULTON)/Setting 29W	-- Emergency Lighting --
Luminaire name	: FULTON	
Equipment	: 1 x LED MODULE 28.9 W / 3475 lm	
Emergency	: 220 lm (6.3 %)	
Maintenance factor	: 0.80	

Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

7 Room 7

7.1 Description, Room 7

7.1.1 Floor plan



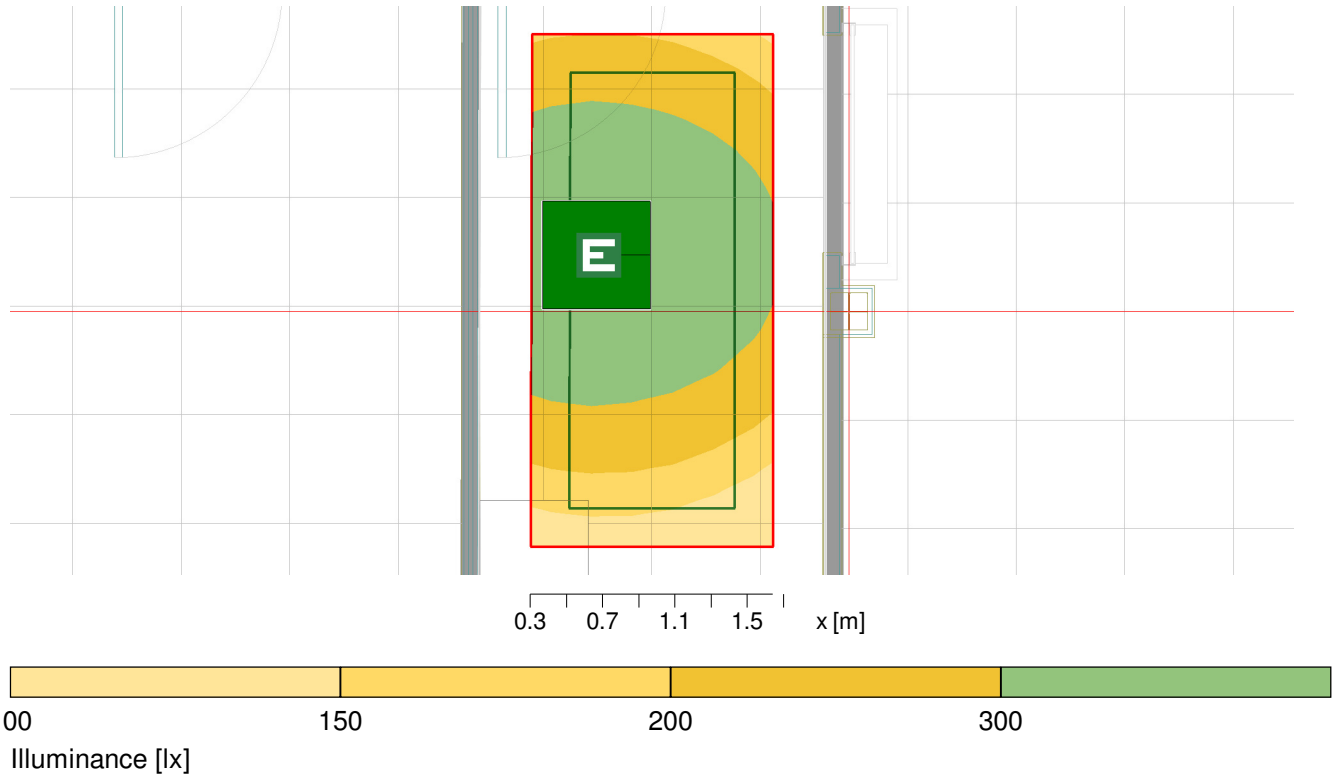
Wall	x	y	Length	Area[m²]	Reflectance
1	10.56 m	5.76 m	1.92 m	4.70	50.0 %
2	10.56 m	9.16 m	3.41 m	8.34	50.0 %
3	8.65 m	9.16 m	1.91 m	4.67	50.0 %
4	8.64 m	5.76 m	3.41 m	8.34	50.0 %
Floor:				6.5	20.0 %
Ceiling:				6.5	70.0 %
Room height [m]:		2.45 m			
Height of ref. plane [m]:		0.75 m			
Volume		16.0 m³			

Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

7 Room 7

7.2 Summary, Room 7

7.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.45 m
Maintenance factor	0.80
Total lamp luminous flux	3475.00 lm
Luminaire luminous flux	3474.53 lm
Total power	28.9 W
Total power per area (6.51 m²)	4.44 W/m² (1.47 W/m²/100lx)

Evaluation area 1	**Reference plane 1.1**	
	Horizontal	cylindrical
$\bar{E}_m$	301 lx	117 lx
E_{min}	107 lx	64 lx
$E_{min}/\bar{E}_m$ (U_o)	0.35	0.55
E_{min}/E_{max} (U_d)	0.23	
E_z/E_h		0.30
Position	0.75 m	1.20 m
RUG (1.5H 2.7H)	<=17.0	

Luminaire :
(FULTON, LED MODULE, !NFU/UGR19/66/840/M3 (FULTON), 28.9 W)

Major surfaces	$\bar{E}_m$	U_o

Type No.\Make

Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

7 Room 7

7.2 Summary, Room 7

7.2.1 Result overview, Evaluation area 1

NVC Lighting

2 1E x 

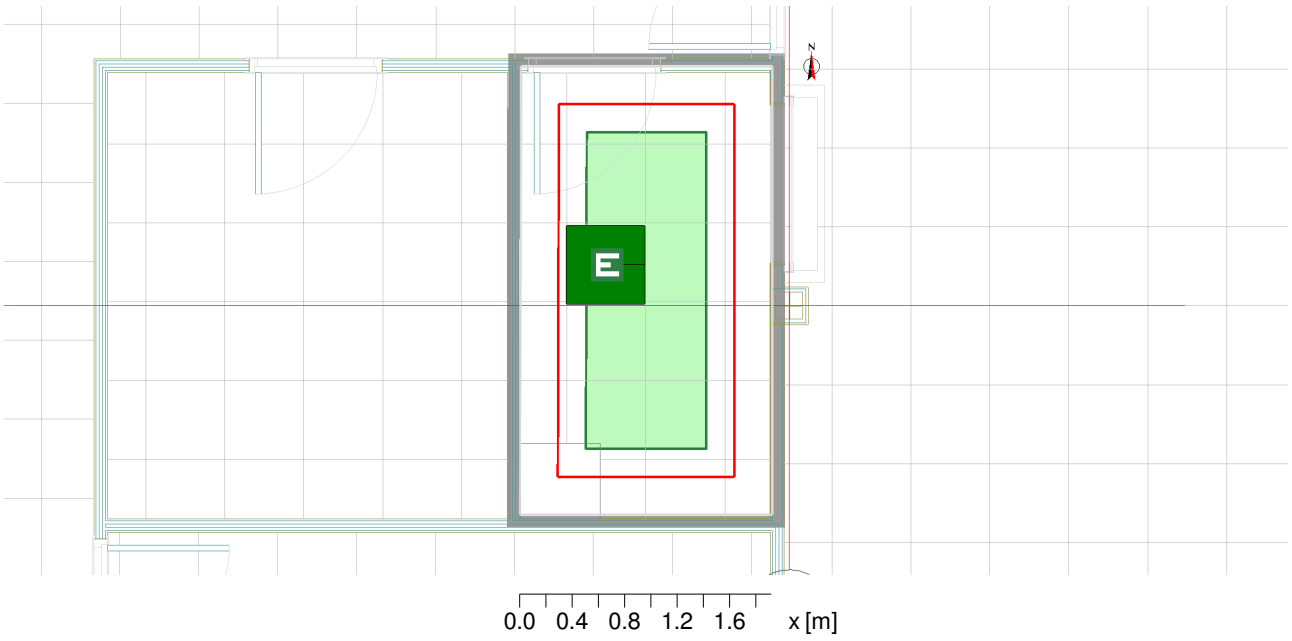
Order No. : !NFU/UGR19/66/840/M3 (FULTON)/Setting 29W -- Emergency Lighting --
Luminaire name : FULTON
Equipment : 1 x LED MODULE 28.9 W / 3475 lm
Emergency : 220 lm (6.3 %)

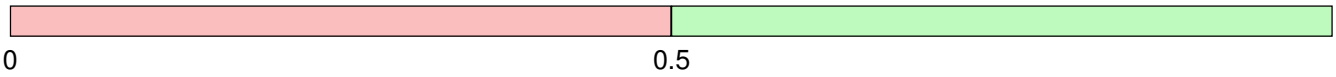
Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

7 Room 7

7.3 Summary, Room 7

7.3.1.1 Result overview (emergency lighting)





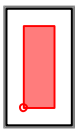
Illuminance [lx]

General

Calculation algorithm used	: Direct component	
Emergency norm	: EN 1838:2019	
Maintenance factor	: 0.8	
Height (phot.centre)	: 2.45 m	
Maximum I	: 100 cd	<= 500 cd

Anti panic area:

No.	Emin [lx]	Surface Emax [lx]	Ud
Anti panic area 1.1			
Calculation field: 0.92m x 2.41m (5 x 14 pts), Height = 0.00m			
1	5.74 lx	12.19 lx	1: 2.12
	>= 0.5 lx		>= 1 : 40



Type No.\Make

2 1E x **NVC Lighting**

Order No.	: !NFU/UGR19/66/840/M3 (FULTON)/Setting 29W
Luminaire name	: FULTON
Equipment	: 1 x LED MODULE 28.9 W / 3475 lm
Emergency	: 220 lm (6.3 %)
Maintenance factor	: 0.80

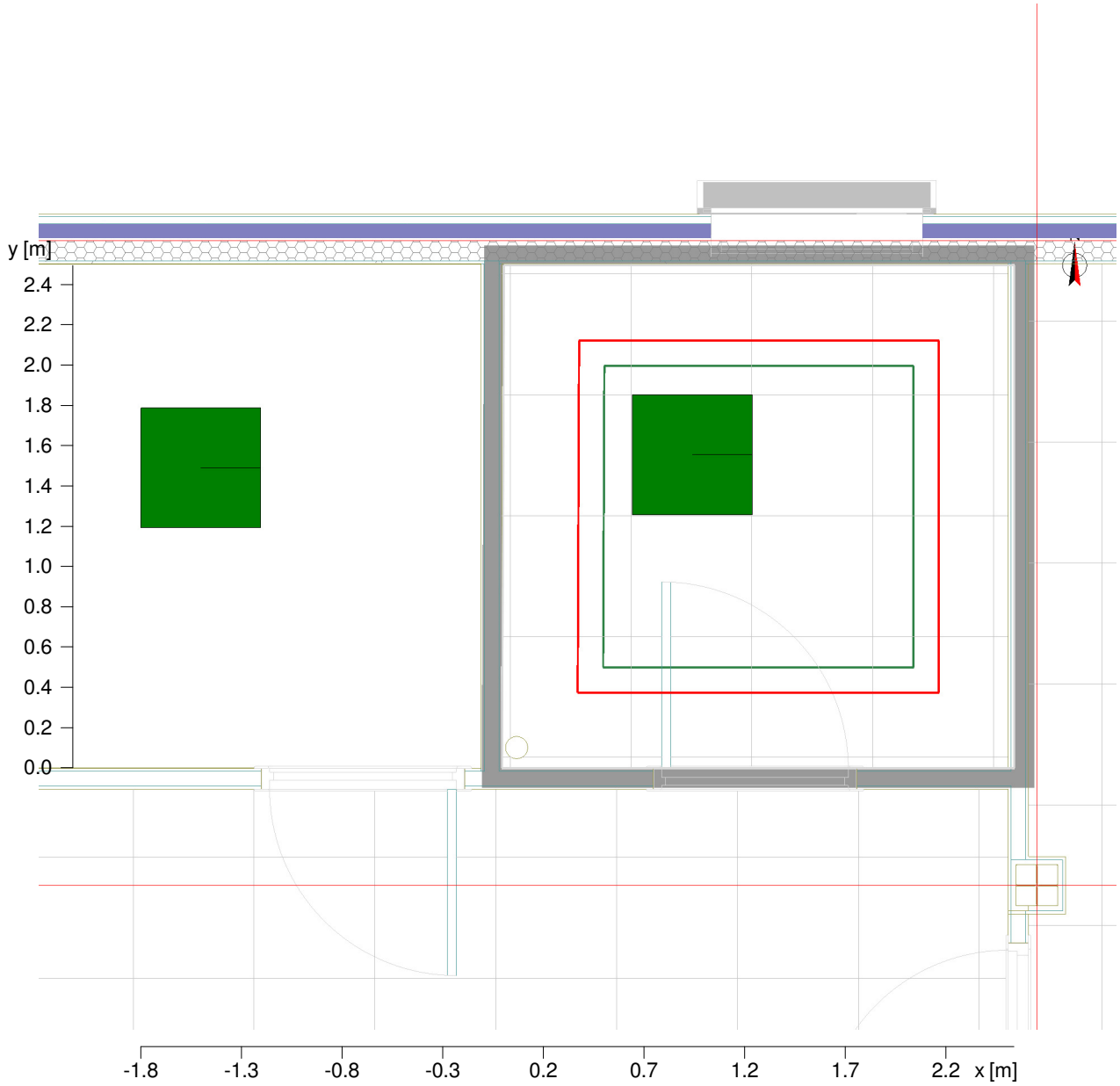
-- Emergency Lighting --

Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

8 Room 8

8.1 Description, Room 8

8.1.1 Floor plan



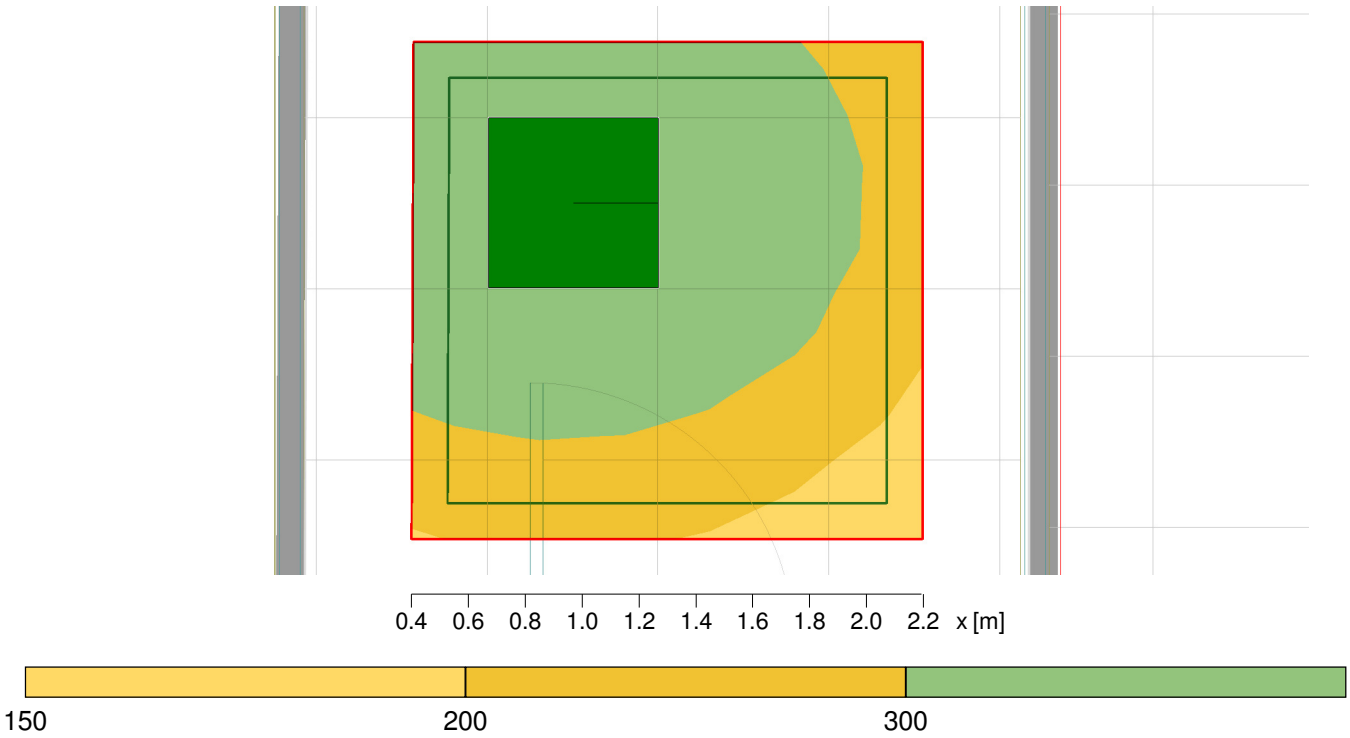
Wall	x	y	Length	Area[m²]	Reflectance
1	10.58 m	11.13 m	2.54 m	6.23	50.0 %
2	10.58 m	13.62 m	2.49 m	6.11	50.0 %
3	8.05 m	13.62 m	2.53 m	6.21	50.0 %
4	8.04 m	11.13 m	2.50 m	6.11	50.0 %
Floor:				6.3	20.0 %
Ceiling:				6.3	70.0 %
Room height [m]:		2.45 m			
Height of ref. plane [m]:		0.75 m			
Volume		15.5 m³			

Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

8 Room 8

8.2 Summary, Room 8

8.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.45 m
Maintenance factor	0.80
Total lamp luminous flux	3475.00 lm
Luminaire luminous flux	3474.53 lm
Total power	28.9 W
Total power per area (6.33 m²)	4.56 W/m² (1.35 W/m²/100lx)

Evaluation area 1	**Reference plane 1.1**	
	Horizontal	cylindrical
$\bar{E}_m$	338 lx	124 lx
E_{min}	159 lx	81 lx
$E_{min}/\bar{E}_m$ (U_o)	0.47	0.66
E_{min}/E_{max} (U_d)	0.35	
E_z/E_h		0.27
Position	0.75 m	1.20 m
R_{UG} (2.0H 2.0H)	<=16.0	

Luminaire :
(FULTON, LED MODULE, !NFU/UGR19/66/840/M3 (FULTON), 28.9 W)

Major surfaces	$\bar{E}_m$	U_o

Type No.\Make

8 Room 8

8.2 Summary, Room 8

8.2.1 Result overview, Evaluation area 1

NVC Lighting

2 1 x



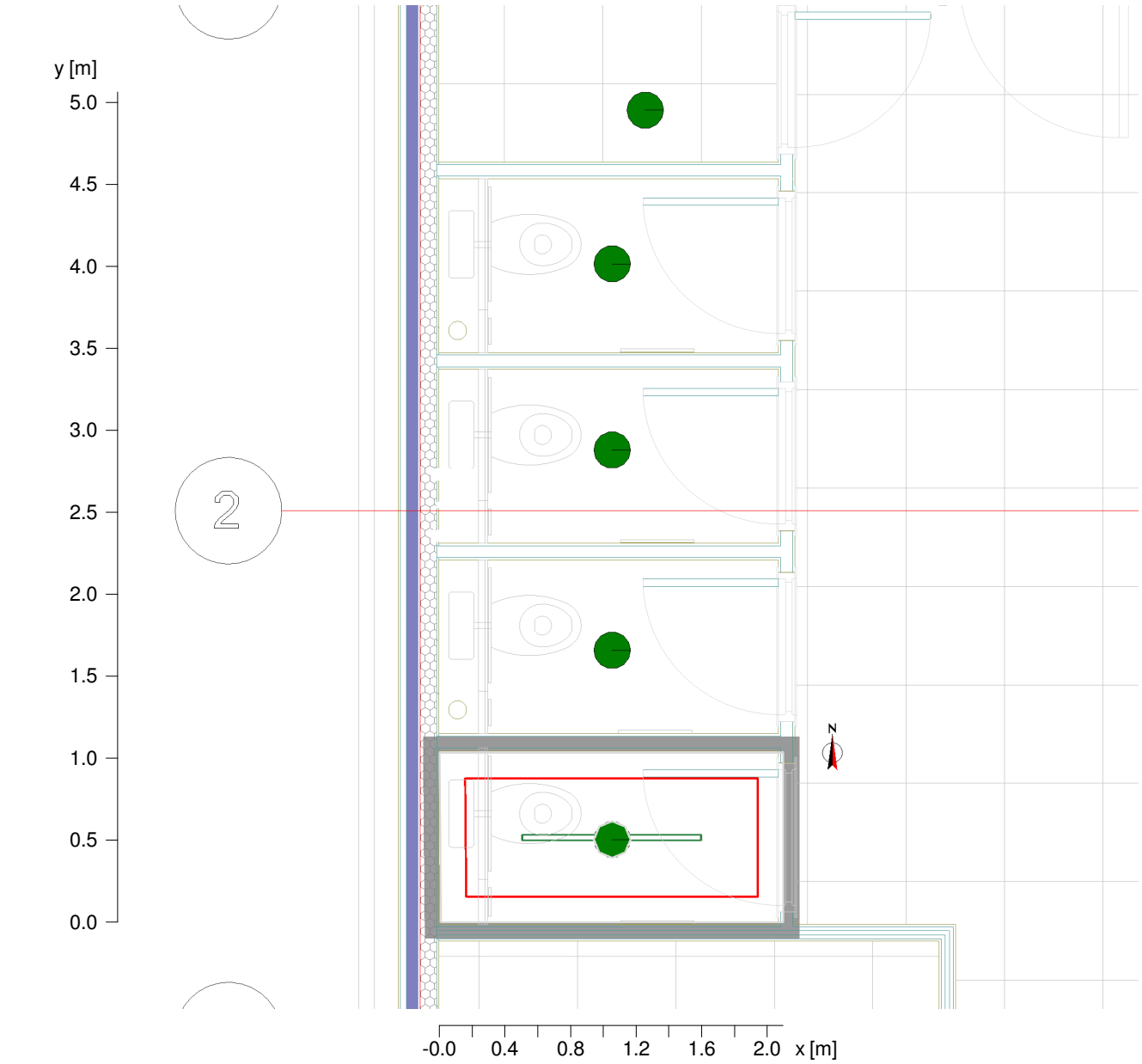
Order No. : !NFU/UGR19/66/840/M3 (FULTON)/Setting 29W
Luminaire name : FULTON
Equipment : 1 x LED MODULE 28.9 W / 3475 lm
Emergency : 220 lm (6.3 %)

Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

9 Room 9

9.1 Description, Room 9

9.1.1 Floor plan



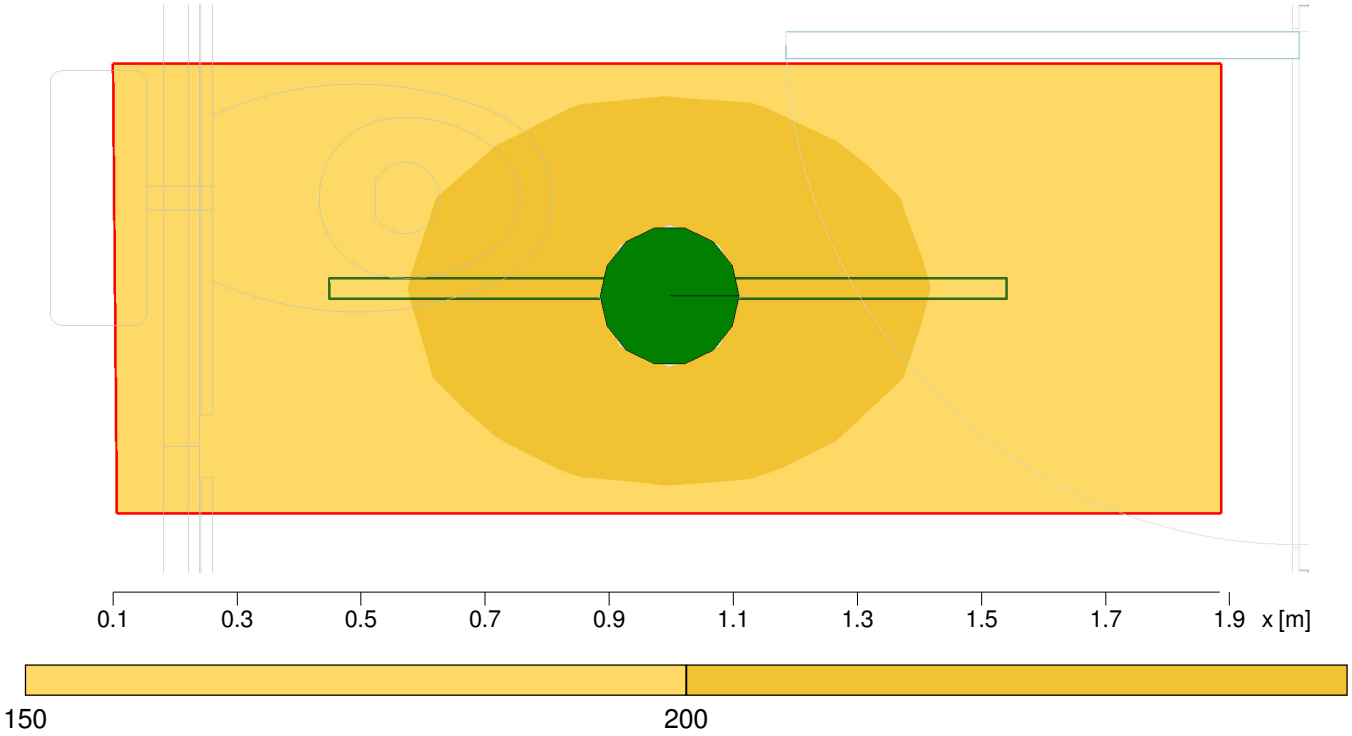
Wall	x	y	Length	Area[m²]	Reflectance
1	3.06 m	8.03 m	2.09 m	5.11	50.0 %
2	3.06 m	9.07 m	1.03 m	2.53	50.0 %
3	0.96 m	9.07 m	2.10 m	5.14	50.0 %
4	0.97 m	8.03 m	1.03 m	2.53	50.0 %
Floor:				2.2	20.0 %
Ceiling:				2.2	70.0 %
Room height [m]:		2.45 m			
Height of ref. plane [m]:		0.00 m			
Volume		5.3 m³			

Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

9 Room 9

9.2 Summary, Room 9

9.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.45 m
Maintenance factor	0.80
Total lamp luminous flux	2643.00 lm
Luminaire luminous flux	2642.25 lm
Total power	19.0 W
Total power per area (2.16 m²)	8.78 W/m² (4.60 W/m²/100lx)

Evaluation area 1	**Reference plane 1.1**	
	Horizontal	cylindrical
$\bar{E}_m$	191 lx	68 lx
E_{min}	163 lx	58 lx
$E_{min}/\bar{E}_m$ (U_o)	0.86	0.86
E_{min}/E_{max} (U_d)	0.77	
E_z/E_h		0.26
Position	0.00 m	0.45 m
RUG (1.7H 0.8H)	10.0	

Luminaire :
(WASHINGTON, LED, !NWA6-18/840/M3 (WASHINGTON), 19.0 W)
Hints:
- Encountered room dimensions less than 2H. RUG value has been set to 10 as lower limit.

Major surfaces	$\bar{E}_m$	U_o

9 Room 9

9.2 Summary, Room 9

9.2.1 Result overview, Evaluation area 1

Type No.\Make

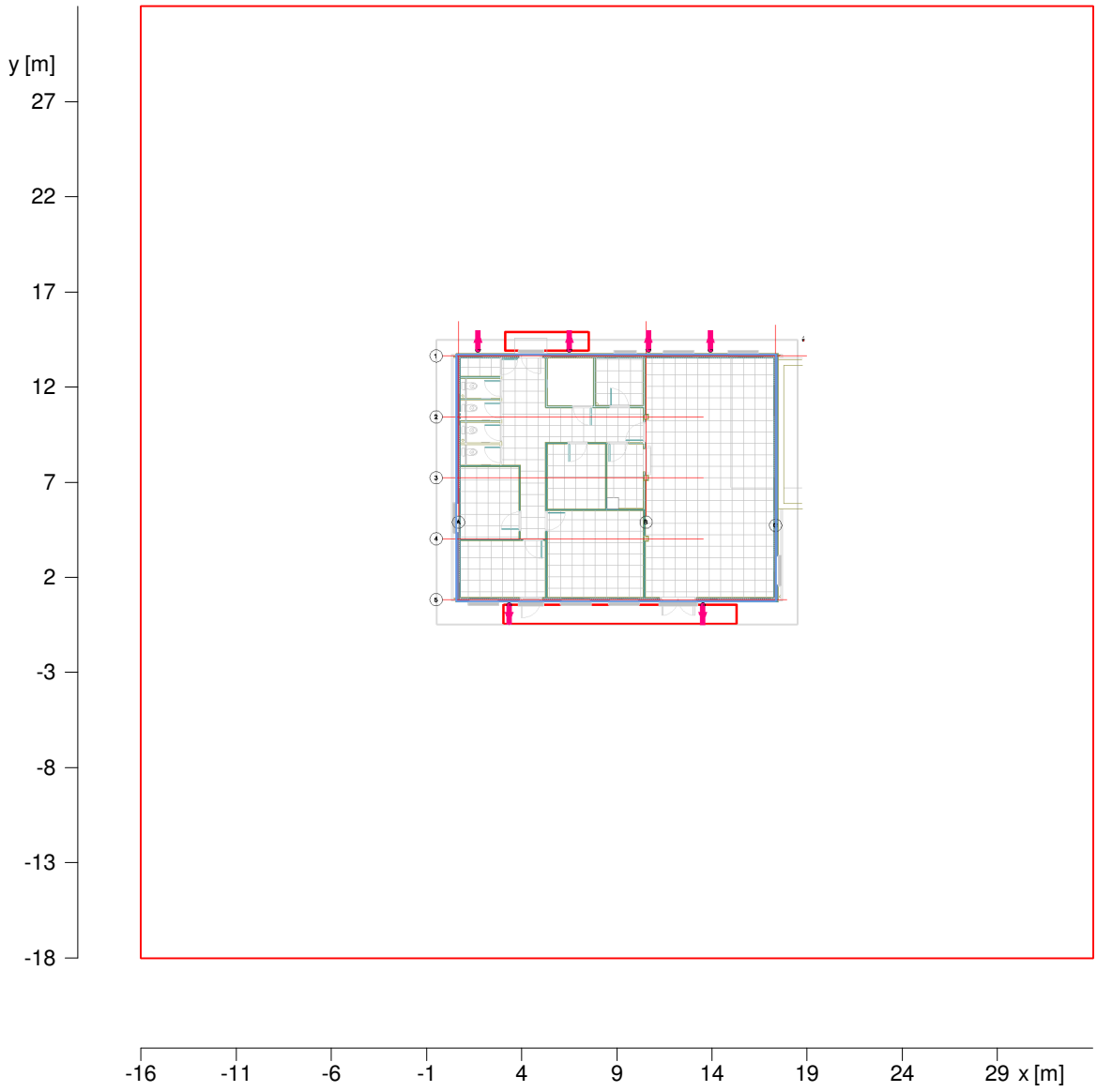
		NVC Lighting	
3	1 x	Order No.	: !NWA6-18/840/M3 (WASHINGTON)/Setting 19W
		Luminaire name	: WASHINGTON
		Equipment	: 1 x LED 18.99 W / 2643 lm
		Emergency	: 327 lm (12.4 %)

Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

1 Exterior 1

1.1 Description, Exterior 1

1.1.1 Floor plan

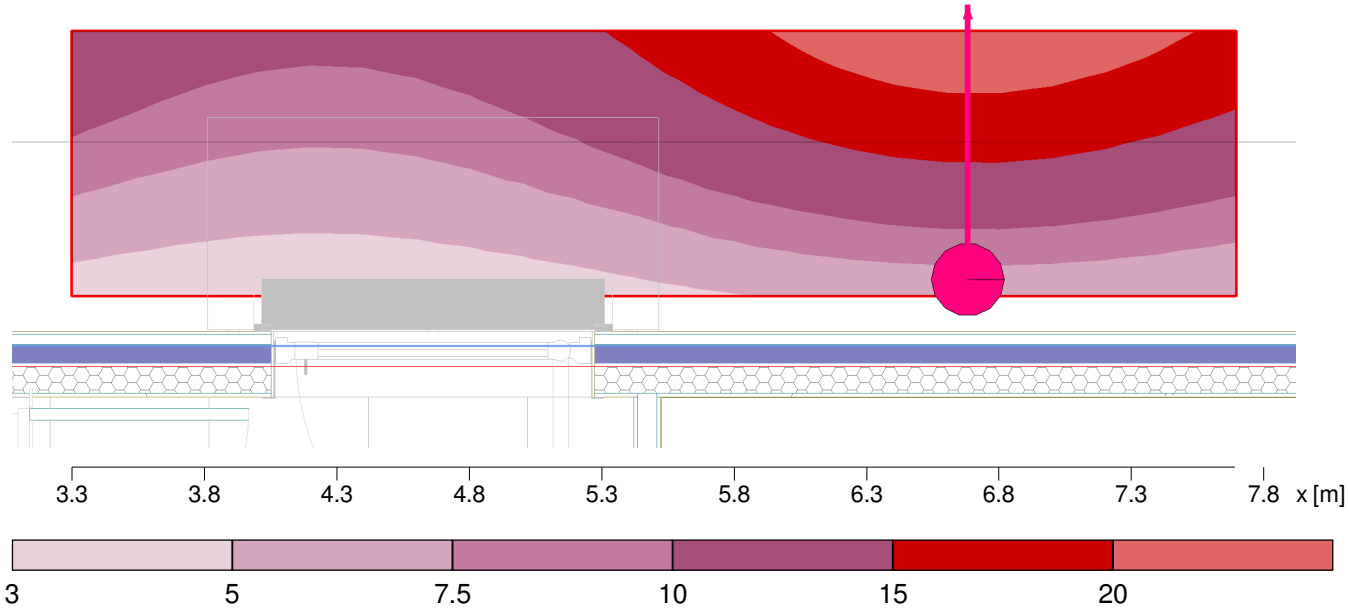


Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

1 Exterior 1

1.2 Summary, Exterior 1

1.2.1 Result overview, Measuring area 1



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Height (phot.centre) [m]:	2.20 m
Maintenance factor	0.80
Total luminous flux	8910 lm
Total power	106.2 W
Total power per area (283.37 m²)	0.37 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	10.7 lx
Minimum illuminance	E_{min}	4.04 lx
Maximum illuminance	E_{max}	22 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.65 (0.38)
Diversity U_d	E_{min}/E_{max}	1:5.52 (0.18)

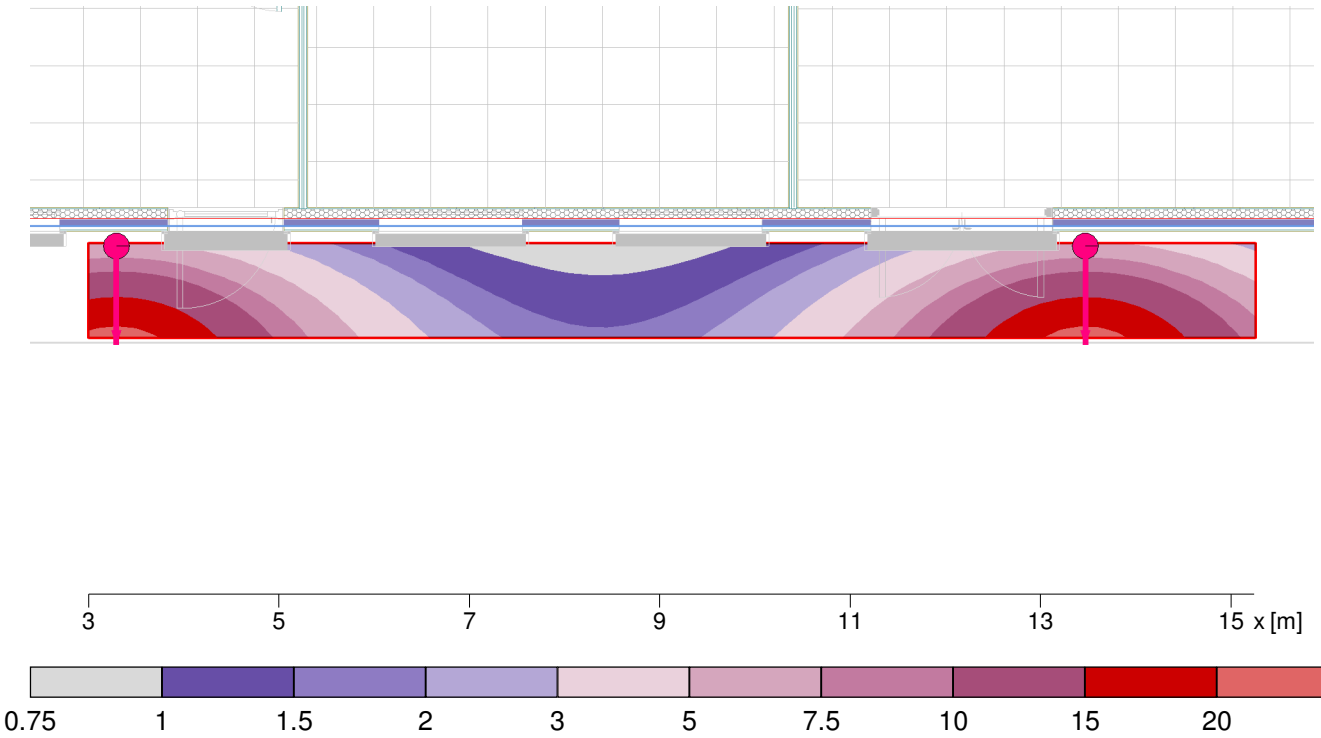
Type No.\Make

		NVC Lighting	
5	6 x	Order No.	: NDE15/ELID/M3L/840 (DENALI)/Setting 1
		Luminaire name	: DENALI
		Equipment	: 1 x LED MODULE 4000K 17.7 W / 1485 lm

Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

1.2 Summary, Exterior 1

1.2.2 Result overview, Measuring area 2



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Height (phot.centre) [m]:	2.20 m
Maintenance factor	0.80
Total luminous flux	8910 lm
Total power	106.2 W
Total power per area (283.37 m²)	0.37 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	6.06 lx
Minimum illuminance	E_{min}	0.80 lx
Maximum illuminance	E_{max}	20 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:7.57 (0.13)
Diversity U_d	E_{min}/E_{max}	1:25.4 (0.04)

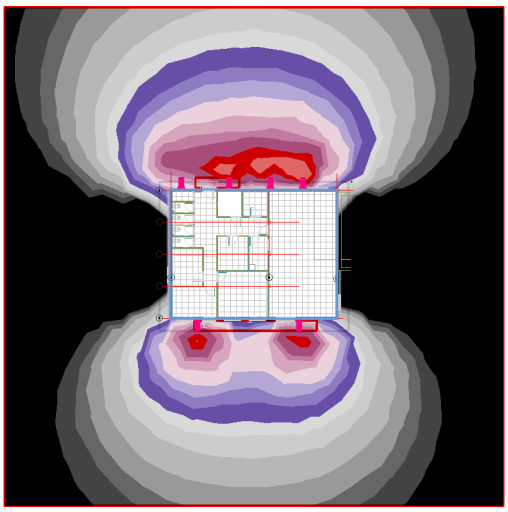
Type No.\Make

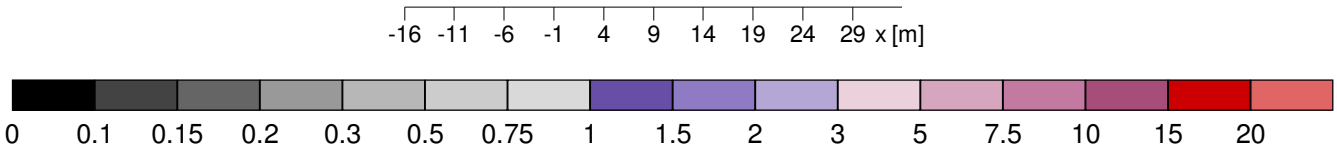
		NVC Lighting	
5	6 x	Order No.	: NDE15/ELID/M3L/840 (DENALI)/Setting 1
		Luminaire name	: DENALI
		Equipment	: 1 x LED MODULE 4000K 17.7 W / 1485 lm

Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

1.2 Summary, Exterior 1

1.2.3 Result overview, Measuring area 3





General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Height (phot.centre) [m]:	2.20 m
Maintenance factor	0.80
Total luminous flux	8910 lm
Total power	106.2 W
Total power per area (283.37 m²)	0.37 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	1.33 lx
Minimum illuminance	E_{min}	0.00 lx
Maximum illuminance	E_{max}	23 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:--- (---)
Diversity U_d	E_{min}/E_{max}	1:--- (---)

Type No.\Make

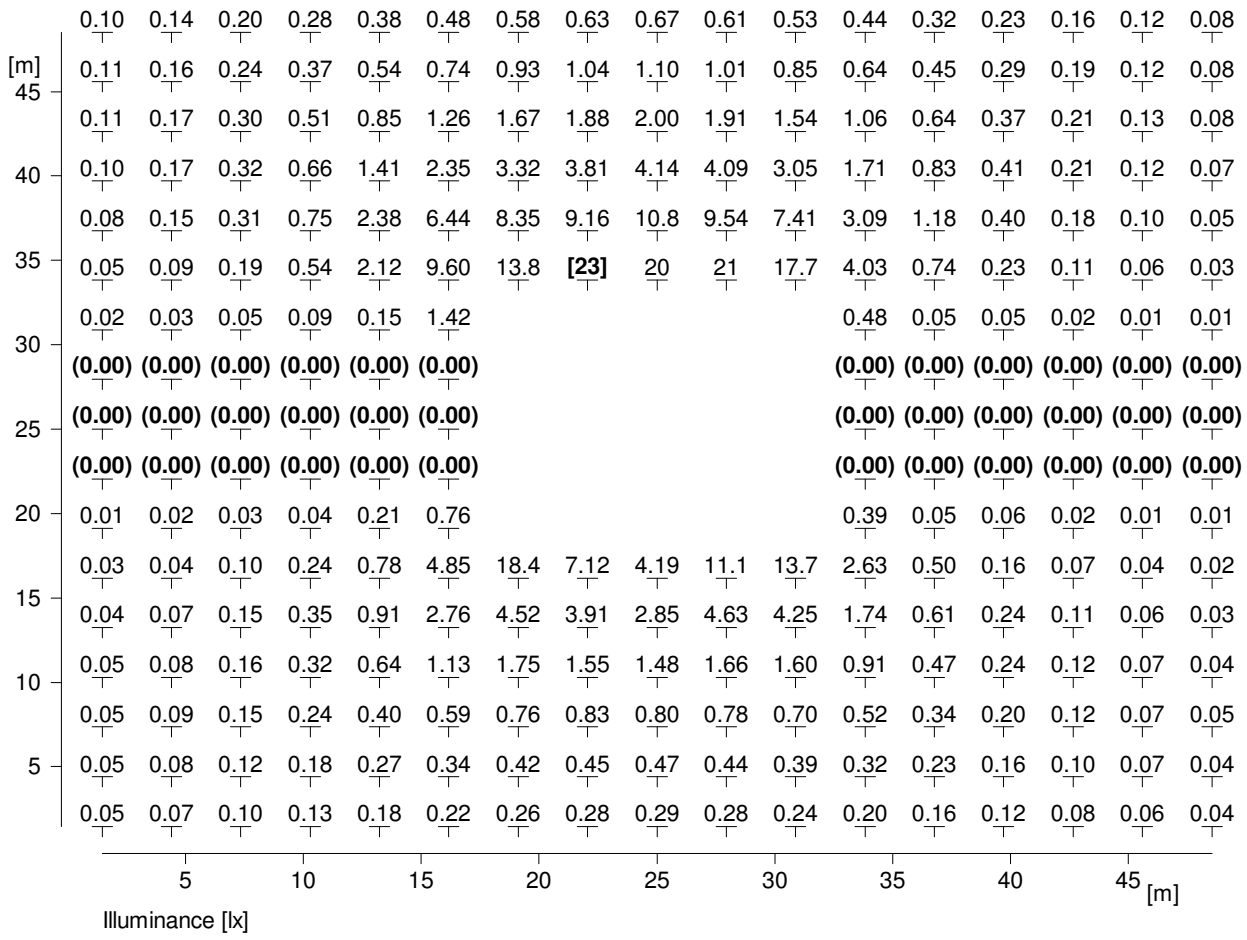
		NVC Lighting	
5	6 x	Order No.	: NDE15/ELID/M3L/840 (DENALI)/Setting 1
		Luminaire name	: DENALI
		Equipment	: 1 x LED MODULE 4000K 17.7 W / 1485 lm

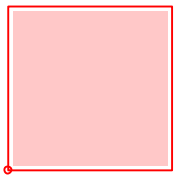
Object : DWD-6528-N Gage
Installation : Proposed Lighting
Project number :
Date : 29.10.2025

1 Exterior 1

1.3 Calculation results, Exterior 1

1.3.1 Table, Measuring area 3 (E)





Height reference plane		: 0.00 m
Average illuminance	$\bar{E}_m$	: 1.33 lx
Minimum illuminance	E_{min}	: 0.00 lx
Maximum illuminance	E_{max}	: 23 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	: ---
Diversity U_d	E_{min}/E_{max}	: ---