



ZŠ - denní osvětlení

Installation : Libčice nad Vltavou

Project number :

Customer :

Processed by : Pavel Slavík

Date : 25.02.2025

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 : ZŠ - denní osvětlení
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1 Luminaire data

1.1 LEDVANCE GmbH, PL FLEX 600 S 30W 840 U19 PS (!4099854276507)

1.1.1 Data sheet

Manufacturer: LEDVANCE GmbH

!4099854276507 PL FLEX 600 S 30W 840 U19 PS

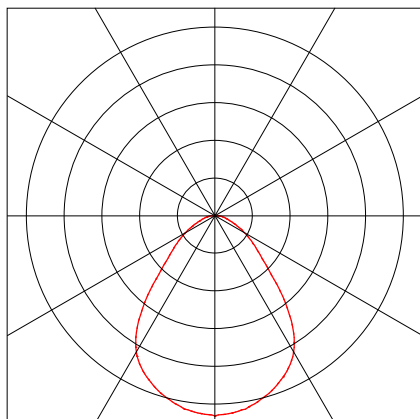
Luminaire data

Luminaire efficiency : 99.99%
Luminaire efficacy : 165.18 lm/W
Classification : A50 ↓99.8% ↑0.2%
CIE Flux Codes : 65 89 97 100 100
UGR 4H 8H : 17.9 / 17.9
Power : 25 W
Luminous flux : 4129.8 lm

Equipped with

Quantity : 1
Designation : LED 4000K /
CRI >= 80
Colour : 4000K
Luminous flux : 4130 lm
Colour reproduction : 80

Dimensions : 595 mm x 595 mm x 32 mm



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1 Luminaire data

1.2 LEDVANCE GmbH, PL FLEX 600 S 30W 840 U19 PS (!4099854276507)

1.2.1 Data sheet

Manufacturer: LEDVANCE GmbH

!4099854276507 PL FLEX 600 S 30W 840 U19 PS

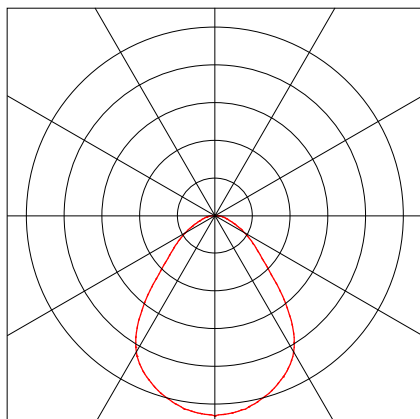
Luminaire data

Luminaire efficiency : 99.99%
Luminaire efficacy : 167.13 lm/W
Classification : A50 ↓99.8% ↑0.2%
CIE Flux Codes : 65 89 97 100 100
UGR 4H 8H : 17.3 / 17.3
Power : 21 W
Luminous flux : 3509.9 lm

Equipped with

Quantity : 1
Designation : LED 4000K /
CRI >= 80
Colour : 4000K
Luminous flux : 3510 lm
Colour reproduction : 80

Dimensions : 595 mm x 595 mm x 32 mm

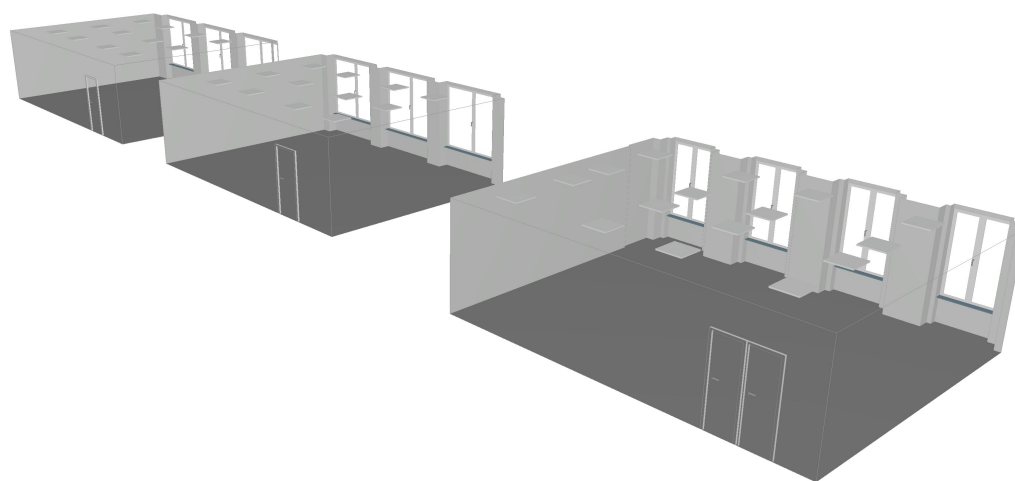


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Description, Floor 1

.2 Floor 3D



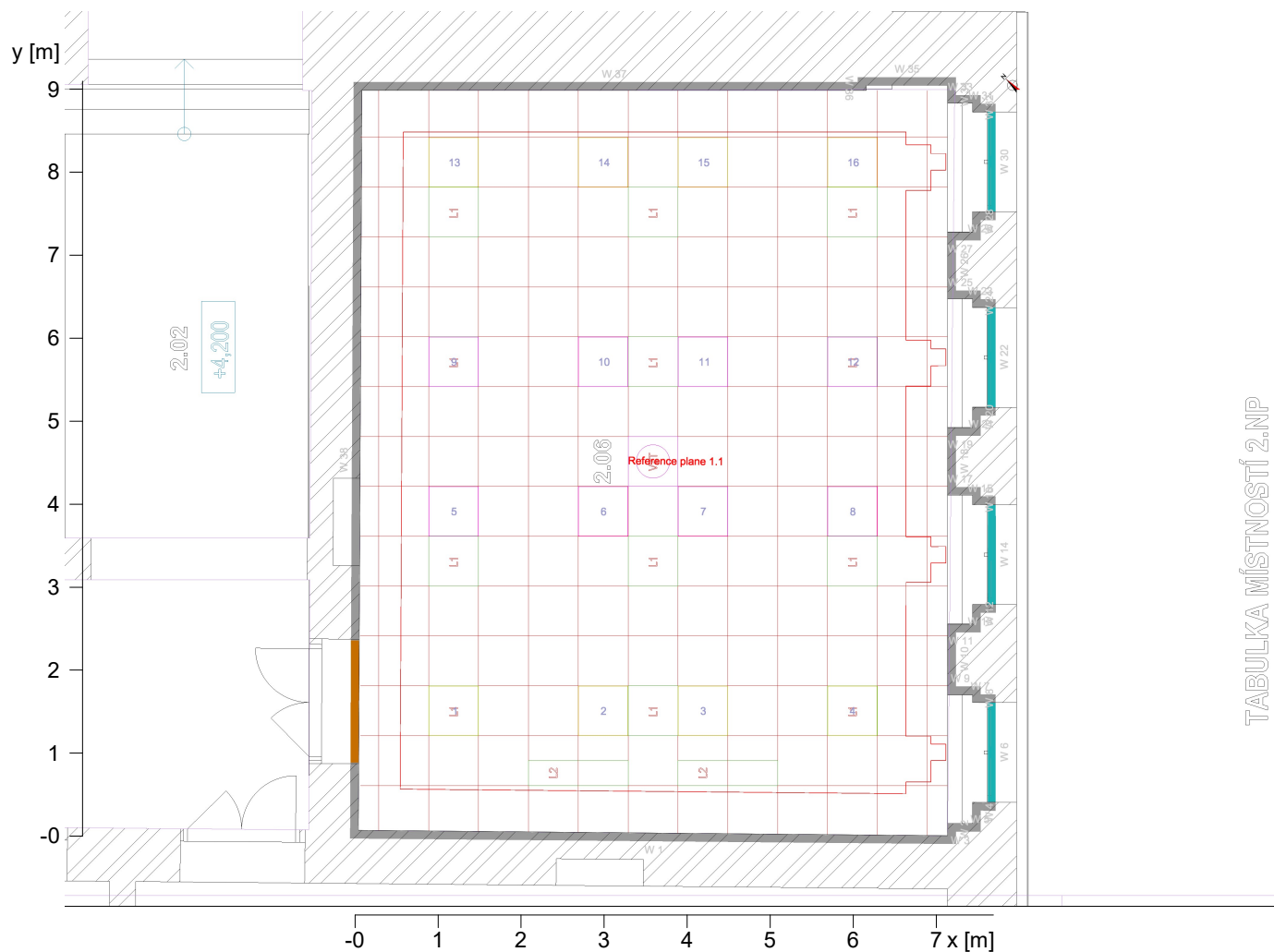
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1 Učebna 2.06

1.1 Description, Učebna 2.06

1.1.2 Floor plan



Object : ZŠ - denní osvětlení
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1 Učebna 2.06

1.1 Description, Učebna 2.06

1.1.2 Floor plan

Wall	x	y	Length	Area[m²]	Reflectance
1	57.68 m	10.64 m	7.09 m	19.15	50.0 %
2	57.68 m	10.79 m	0.15 m	0.40	50.0 %
3	57.98 m	10.79 m	0.30 m	0.81	50.0 %
4	57.98 m	11.05 m	0.26 m	0.69	50.0 %
5	58.16 m	11.05 m	0.18 m	0.49	50.0 %
6	58.16 m	12.25 m	1.20 m	3.24	50.0 %
7	57.98 m	12.25 m	0.18 m	0.49	50.0 %
8	57.98 m	12.34 m	0.10 m	0.26	50.0 %
9	57.68 m	12.34 m	0.30 m	0.81	50.0 %
10	57.68 m	13.19 m	0.85 m	2.30	50.0 %
11	57.98 m	13.19 m	0.30 m	0.81	50.0 %
12	57.98 m	13.43 m	0.23 m	0.63	50.0 %
13	58.16 m	13.43 m	0.18 m	0.49	50.0 %
14	58.16 m	14.63 m	1.20 m	3.24	50.0 %
15	57.98 m	14.63 m	0.18 m	0.49	50.0 %
16	57.98 m	14.74 m	0.12 m	0.31	50.0 %
17	57.68 m	14.74 m	0.30 m	0.81	50.0 %
18	57.68 m	15.56 m	0.81 m	2.20	50.0 %
19	57.98 m	15.56 m	0.30 m	0.81	50.0 %
20	57.98 m	15.80 m	0.24 m	0.66	50.0 %
21	58.16 m	15.80 m	0.18 m	0.48	50.0 %
22	58.16 m	17.00 m	1.20 m	3.24	50.0 %
23	57.98 m	17.00 m	0.18 m	0.48	50.0 %
24	57.98 m	17.11 m	0.10 m	0.28	50.0 %
25	57.68 m	17.11 m	0.30 m	0.81	50.0 %
26	57.68 m	17.91 m	0.80 m	2.17	50.0 %
27	57.98 m	17.91 m	0.30 m	0.81	50.0 %
28	57.98 m	18.15 m	0.24 m	0.66	50.0 %
29	58.16 m	18.15 m	0.18 m	0.49	50.0 %
30	58.16 m	19.35 m	1.20 m	3.24	50.0 %
31	57.98 m	19.35 m	0.18 m	0.49	50.0 %
32	57.98 m	19.46 m	0.10 m	0.28	50.0 %
33	57.68 m	19.46 m	0.30 m	0.81	50.0 %
34	57.68 m	19.67 m	0.22 m	0.58	50.0 %
35	56.70 m	19.67 m	0.98 m	2.65	50.0 %
36	56.70 m	19.61 m	0.06 m	0.16	50.0 %
37	50.63 m	19.61 m	6.07 m	16.38	50.0 %
38	50.59 m	10.71 m	8.90 m	24.04	50.0 %
Floor:				66.0	20.0 %
Ceiling:				66.0	70.0 %
Room height [m]:		2.70 m			
Height of ref. plane [m]:		0.75 m			
Volume		178.1 m³			

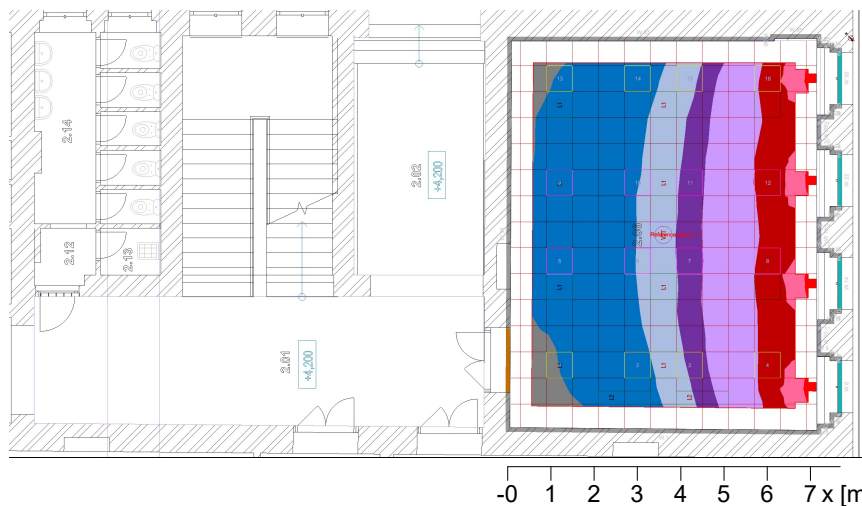
Object : ZŠ - denní osvětlení
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1 Učebna 2.06

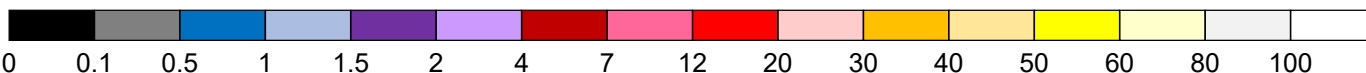
1.2 Summary, Učebna 2.06

1.2.1 Result overview, Reference plane 1.1



Tabulka místností 2.NP

Číslo místn.	Název místnosti	Plocha (m²)	SV výška podlaží (mm)
2.01	CHOUBA	30.8	4200
2.02	CHOUBA	35.2	4200,3600
2.03	UČEBNA	63.6	3700
2.04	UČEBNA	21.0	3600
2.05	CHOUBA	36.6	2700,2400
2.06	UČEBNA	56.3	3300
2.07	KABINET	26.0	3600
2.08	KABINET	11.9	3600
2.09	SPOROVNA	30.2	3600
2.10	KABINET	17.3	3600
2.11	UČEBNA	55.6	3300
2.12	PŘEDSÍŇ	3.2	3600
2.13	WC	3.3	3600
2.14	PŘEDSÍŇ	1.7	3600
2.15	WC	2.3	3600



Daylight factor [%]

General

Calculation algorithm used
 Height of evaluation surface
 Height of luminaire plane
 Calculation mode used:

Average indirect fraction
 0.75 m
 2.70 m
 CIE overcast sky

Date, Time:

21.03. 10:56 (TST 10:47)

Geographical data:

Location : Praha
 Latitude (degrees) : 50.07 °
 Longitude (degrees) : 14.42 °
 North angle : 315.00 °

Daylight factor

Average daylight ratio
 Median daylight ratio
 Minimum daylight ratio
 Maximum daylight ratio

\bar{D} : 1.9
 \bar{D}_{median} : 1.1
 D_{min} : 0.5
 D_{max} : 10.6

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2 Učebna 2.29

2.1 Description, Učebna 2.29

2.1.2 Floor plan



Object : ZŠ - denní osvětlení
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Project number :
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2 Učebna 2.29

2.1 Description, Učebna 2.29

2.1.2 Floor plan

Wall	x	y	Length	Area[m ²]	Reflectance
1	51.72 m	34.20 m	6.25 m	16.87	50.0 %
2	51.61 m	25.26 m	8.94 m	24.13	50.0 %
3	57.96 m	25.26 m	6.35 m	17.14	50.0 %
4	57.96 m	25.74 m	0.48 m	1.29	50.0 %
5	58.28 m	25.74 m	0.32 m	0.86	50.0 %
6	58.28 m	28.09 m	2.35 m	6.34	50.0 %
7	57.96 m	28.09 m	0.32 m	0.86	50.0 %
8	57.96 m	28.66 m	0.57 m	1.54	50.0 %
9	58.28 m	28.66 m	0.32 m	0.86	50.0 %
10	58.28 m	31.01 m	2.35 m	6.34	50.0 %
11	57.96 m	31.01 m	0.32 m	0.87	50.0 %
12	57.96 m	31.54 m	0.53 m	1.44	50.0 %
13	58.28 m	31.54 m	0.32 m	0.86	50.0 %
14	58.28 m	33.89 m	2.35 m	6.34	50.0 %
15	57.96 m	33.89 m	0.32 m	0.86	50.0 %
16	57.96 m	34.20 m	0.30 m	0.82	50.0 %
Floor:				58.5	20.0 %
Ceiling:				58.5	70.0 %
Room height [m]:	2.70 m				
Height of ref. plane [m]:	0.75 m				
Volume	158.0 m ³				

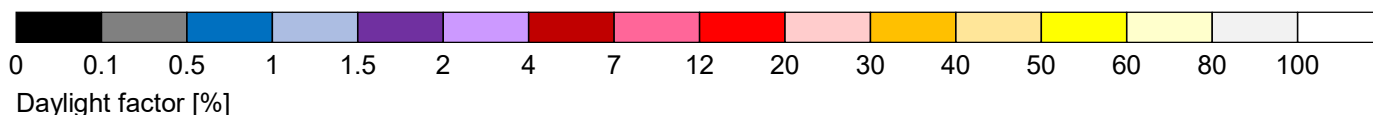
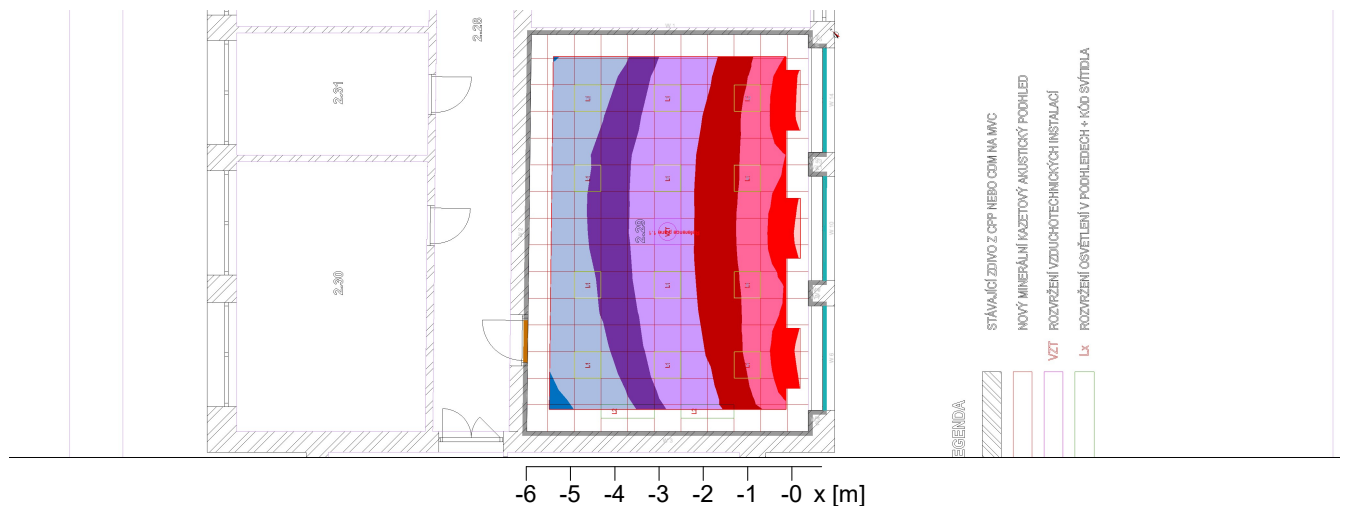
Object : ZŠ - denní osvětlení
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2 Učebna 2.29

2.2 Summary, Učebna 2.29

2.2.1 Result overview, Reference plane 1.1



General

Calculation algorithm used
 Height of evaluation surface
 Height of luminaire plane
 Calculation mode used:

Average indirect fraction
 0.75 m
 2.70 m
 CIE overcast sky

Date, Time:

21.03. 10:28 (TST 10:19)

Geographical data:

Location : Praha
 Latitude (degrees) : 50.07 °
 Longitude (degrees) : 14.42 °
 North angle : 315.00 °

Daylight factor

Average daylight ratio
 Median daylight ratio
 Minimum daylight ratio
 Maximum daylight ratio

\bar{D} : 4.7
 \bar{D}_{median} : 3
 D_{min} : 1
 D_{max} : 15.7

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3 Učebna 2.34

3.1 Description, Učebna 2.34

3.1.2 Floor plan



Object : ZŠ - denní osvětlení
 Installation : Libčice nad Vltavou
 Project number :
 Date : 25.02.2025



3 Učebna 2.34

3.1 Description, Učebna 2.34

3.1.2 Floor plan

Wall	x	y	Length	Area[m ²]	Reflectance
1	58.01 m	37.25 m	6.26 m	16.91	50.0 %
2	58.01 m	37.37 m	0.12 m	0.32	50.0 %
3	58.28 m	37.37 m	0.27 m	0.73	50.0 %
4	58.28 m	39.72 m	2.35 m	6.34	50.0 %
5	58.01 m	39.72 m	0.27 m	0.73	50.0 %
6	58.01 m	40.27 m	0.55 m	1.48	50.0 %
7	58.28 m	40.27 m	0.27 m	0.73	50.0 %
8	58.28 m	42.62 m	2.35 m	6.34	50.0 %
9	58.01 m	42.62 m	0.27 m	0.73	50.0 %
10	58.01 m	43.21 m	0.59 m	1.60	50.0 %
11	58.28 m	43.21 m	0.27 m	0.73	50.0 %
12	58.28 m	45.56 m	2.35 m	6.34	50.0 %
13	58.01 m	45.56 m	0.27 m	0.73	50.0 %
14	58.01 m	46.20 m	0.64 m	1.73	50.0 %
15	51.86 m	46.20 m	6.16 m	16.63	50.0 %
16	51.75 m	37.25 m	8.95 m	24.17	50.0 %
Floor:				57.5	20.0 %
Ceiling:				57.5	70.0 %
Room height [m]:	2.70 m				
Height of ref. plane [m]:	0.75 m				
Volume	155.2 m ³				

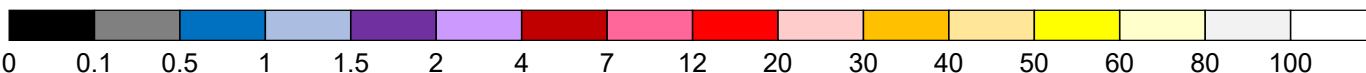
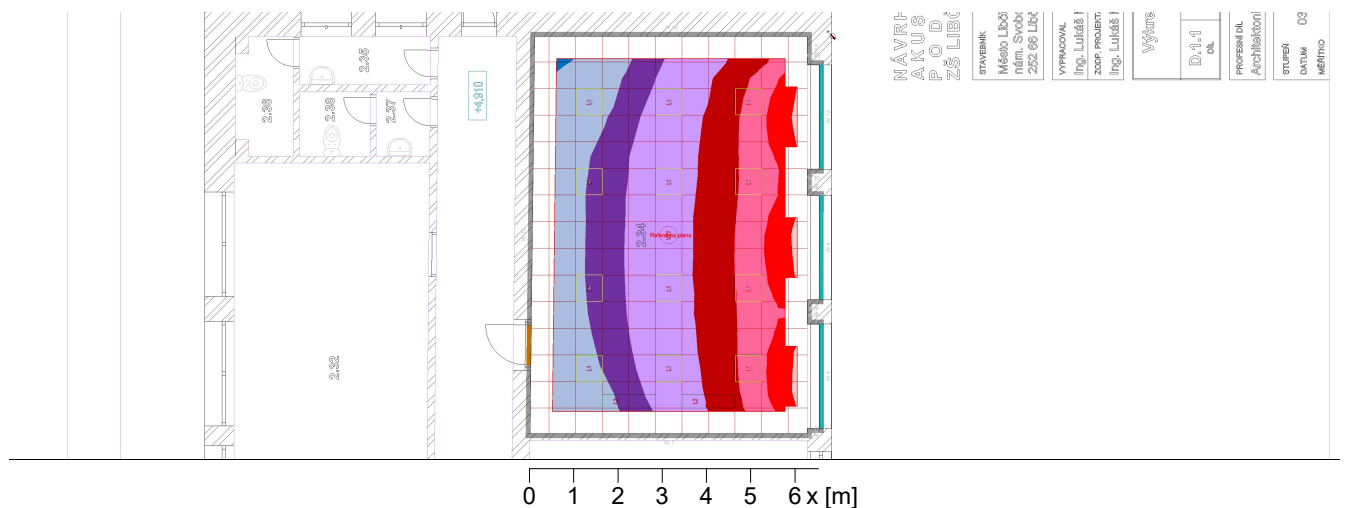
Object : ZŠ - denní osvětlení
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3 Učebna 2.34

3.2 Summary, Učebna 2.34

3.2.1 Result overview, Reference plane 1.1



Daylight factor [%]

General

Calculation algorithm used
 Height of evaluation surface
 Height of luminaire plane
 Calculation mode used:

Average indirect fraction
 0.75 m
 2.70 m
 CIE overcast sky

Date, Time:

21.03. 10:28 (TST 10:19)

Geographical data:

Location : Praha
 Latitude (degrees) : 50.07 °
 Longitude (degrees) : 14.42 °
 North angle : 315.00 °

Daylight factor

Average daylight ratio
 Median daylight ratio
 Minimum daylight ratio
 Maximum daylight ratio

\bar{D} : 4.8
 \bar{D}_{median} : 2.8
 D_{min} : 1.1
 D_{max} : 14.7