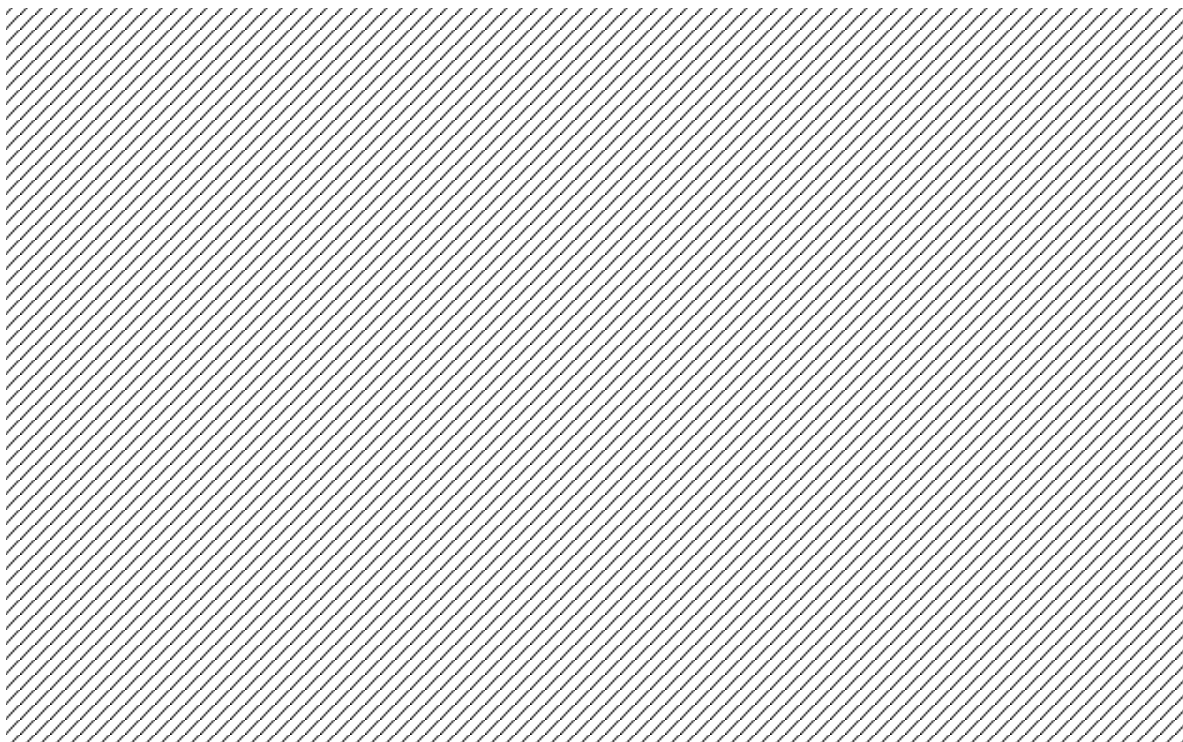




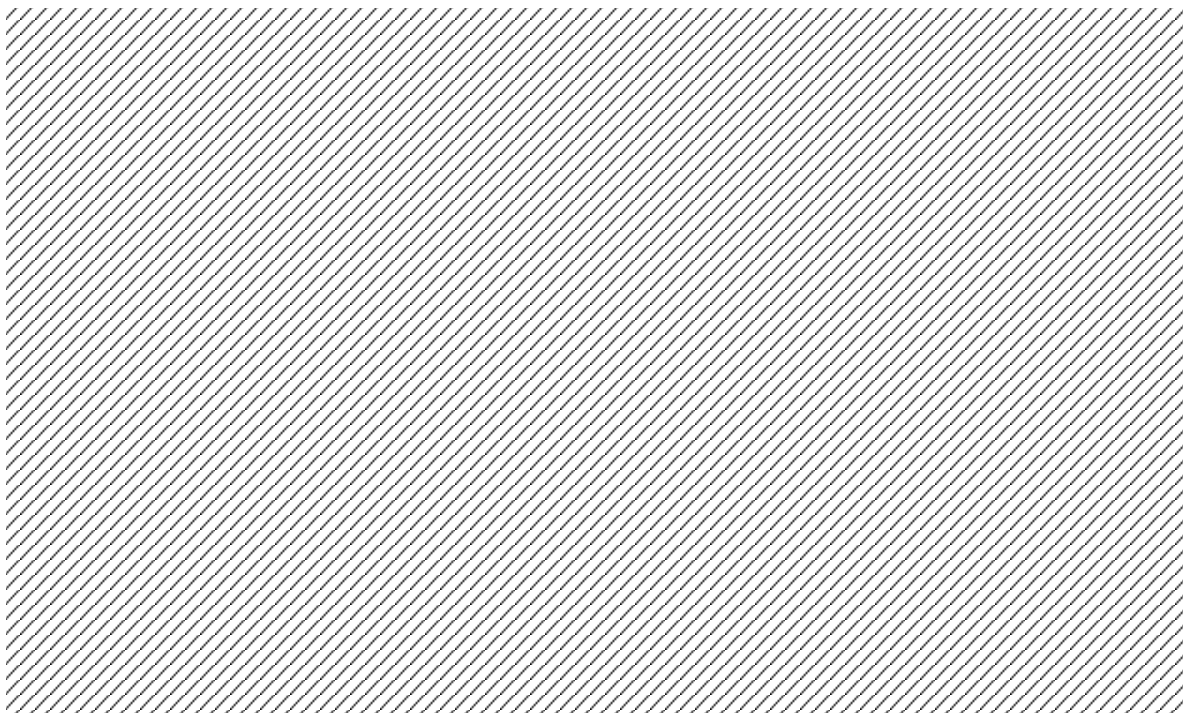
Přisvětlení přechodu pro chodce

Z1-Z2

Cover page	1
Content	2
Description	3

Doplňkové osvětlení přechodu pro chodce

Luminaire layout plan	4
Luminaire list	7
Maintenance factors	8
Calculation objects	10
Doplňkový prostor A / Vertical illuminance	12
Základní prostor A / Vertical illuminance	13
Doplňkový prostor prodloužený A / Vertical illuminance	14
Horizontální osvětlenost přechodu / Perpendicular illuminance	15
Základní prostor B / Vertical illuminance	16
Doplňkový prostor B / Vertical illuminance	17
Doplňkový prostor prodloužený B / Vertical illuminance	18



Description

přechod pro chodce s ochr. ostrůvkem
ulice Sázkavská komunikace č. 150 (3090 voz./24h)
svítidla budou uživatelsky nastavena na 70% nominálního světelného toku (65%
nominálního příkonu)
sklon Z1=0°
sklon Z2=3° (3° rameno +0° hlava)

Jan Zvára

Transconsult s.r.o.
Nerudova 37
500 02 Hradec Králové

T 495 533 105
zvara@transconsult.cz

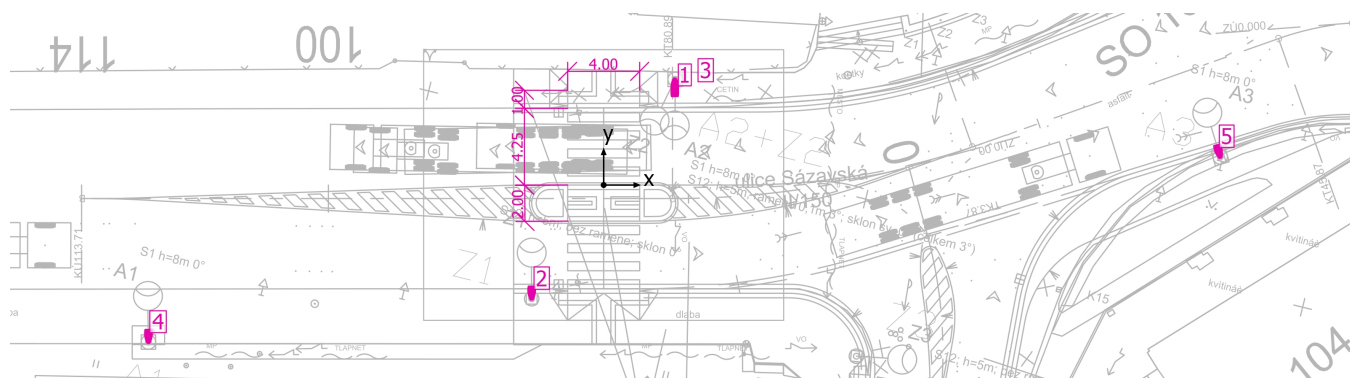
Ing. Ladislav Tikovský

ateliér světelné techniky s.r.o.
Braškovská 368/1
161 00 Praha 6

tikovsky@astatelier.cz

Doplňkové osvětlení přechodu pro chodce

Luminaire layout plan



Doplňkové osvětlení přechodu pro chodce

Luminaire layout plan



Manufacturer	IGUZZINI
Article No.	ED14
Article name	Archilede HP 79W

Individual luminaires

X	Y	Mounting height	Luminaire
3.950 m	5.588 m	5.000 m	1
-4.000 m	-6.300 m	5.000 m	2

Doplňkové osvětlení přechodu pro chodce

Luminaire layout plan



Manufacturer	IGUZZINI
Article No.	ED26
Article name	Archilede HP 69.6W

Individual luminaires

X	Y	Mounting height	Luminaire
3.950 m	5.860 m	8.000 m	3
-25.287 m	-8.701 m	8.000 m	4
34.247 m	1.557 m	8.000 m	5

Doplňkové osvětlení přechodu pro chodce

Luminaire list

Φ_{total} 43248 lm	P_{total} 311.6 W	Luminous efficacy 138.8 lm/W
-----------------------------------	-------------------------------	---------------------------------

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
1	IGUZZINI	ED14	Archilede HP 79W	51.4 W	7854 lm	153.0 lm/W
1	IGUZZINI	ED14	Archilede HP 79W	51.4 W	7854 lm	152.8 lm/W
3	IGUZZINI	ED26	Archilede HP 69.6W	69.6 W	9180 lm	131.9 lm/W

Doplňkové osvětlení přechodu pro chodce

Maintenance factors

Maintenance factor method
CIE 97:2005

Inspection interval
3.0 Years

Pollution category
Light traffic, dust exposure under 150 microgram/cubic metre



pcs.	2
Manufacturer	IGUZZINI
Article No.	ED14
Article name	Archilede HP 79W
Fitting	1x LED 51.4 W

Cleaning interval	3.0 Years*
Flux distribution	Direct
Luminaire type	IP6X, Protected against powerful water jets
Lamp type	LED
Annual operating hours	4000 h*
Replacement interval of the lamps	25.0 Years*
Immediately replace defective lamps	Yes
RMF	1.00
LMF	0.90
LLMF	0.90
LSF	1.00
$MF = RMF \times LMF \times LLMF \times LSF$	0.81
Note	* Value overwritten by the planner

Doplňkové osvětlení přechodu pro chodce

Maintenance factors

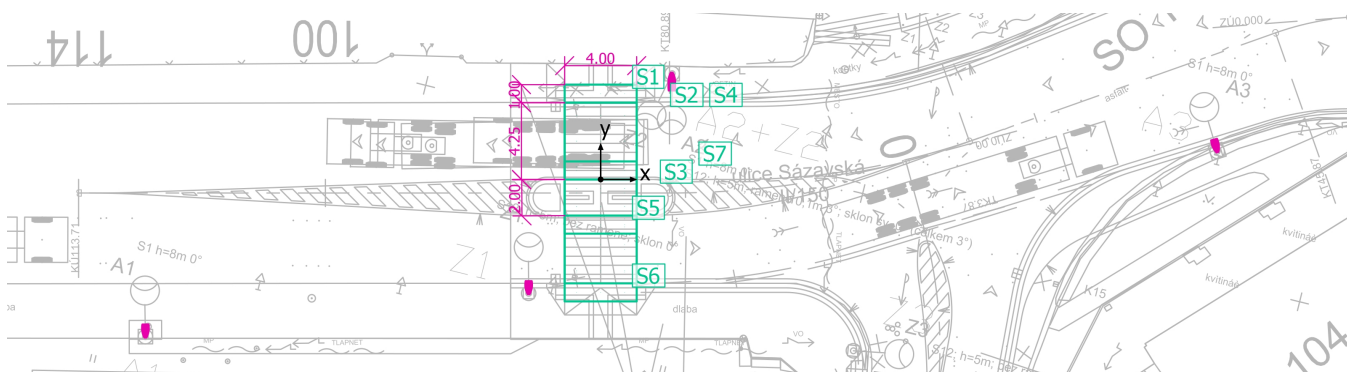


pcs.	3
Manufacturer	IGUZZINI
Article No.	ED26
Article name	Archilede HP 69.6W
Fitting	1x LED 69.6 W

Cleaning interval	3.0 Years*
Flux distribution	Direct
Luminaire type	IP6X, Protected against powerful water jets
Lamp type	LED
Annual operating hours	4000 h*
Replacement interval of the lamps	25.0 Years*
Immediately replace defective lamps	Yes
RMF	1.00
LMF	0.90
LLMF	0.90
LSF	1.00
$MF = RMF \times LMF \times LLMF \times LSF$	0.81
Note	* Value overwritten by the planner

Doplňkové osvětlení přechodu pro chodce

Calculation objects



Doplňkové osvětlení přechodu pro chodce

Calculation objects

Calculation surfaces

Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
Doplňkový prostor A Vertical illuminance Rotation: 0.0°, Height: 1.000 m	42.3 lx	36.5 lx	46.3 lx	0.86	0.79	S1
Základní prostor A Vertical illuminance Rotation: 0.0°, Height: 1.000 m	50.4 lx	44.1 lx	55.8 lx	0.88	0.79	S2
Doplňkový prostor prodloužený A Vertical illuminance Rotation: 0.0°, Height: 1.000 m	38.3 lx	26.7 lx	49.3 lx	0.70	0.54	S3
Horizontální osvětlenost přechodu Perpendicular illuminance Height: 0.000 m	62.6 lx	37.6 lx	76.7 lx	0.60	0.49	S4
Základní prostor B Vertical illuminance Rotation: 180.0°, Height: 1.000 m	38.4 lx	29.3 lx	49.0 lx	0.76	0.60	S5
Doplňkový prostor B Vertical illuminance Rotation: 180.0°, Height: 1.000 m	21.5 lx	19.6 lx	22.6 lx	0.91	0.87	S6
Doplňkový prostor prodloužený B Vertical illuminance Rotation: 180.0°, Height: 1.000 m	39.1 lx	31.2 lx	45.4 lx	0.80	0.69	S7

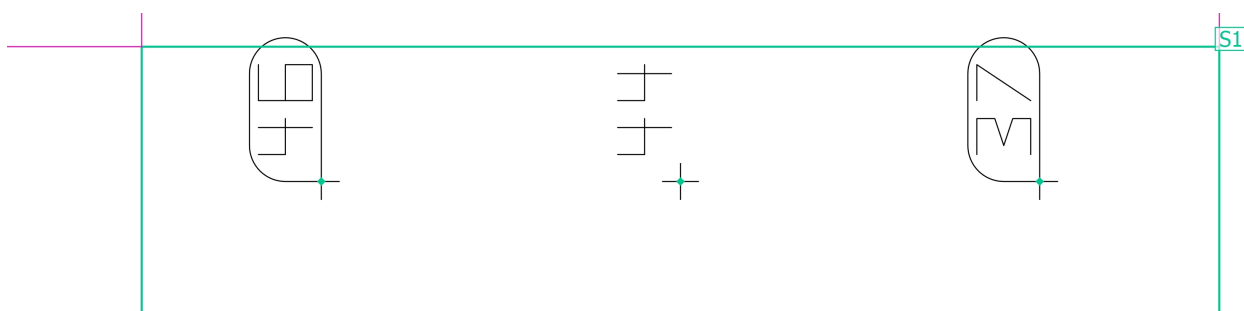
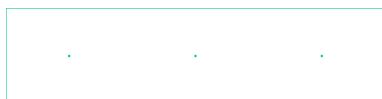
Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Notes on planning:

The results were calculated without consideration of objects and furniture. No results were determined on their surfaces.

Doplňkové osvětlení přechodu pro chodce

Doplňkový prostor A



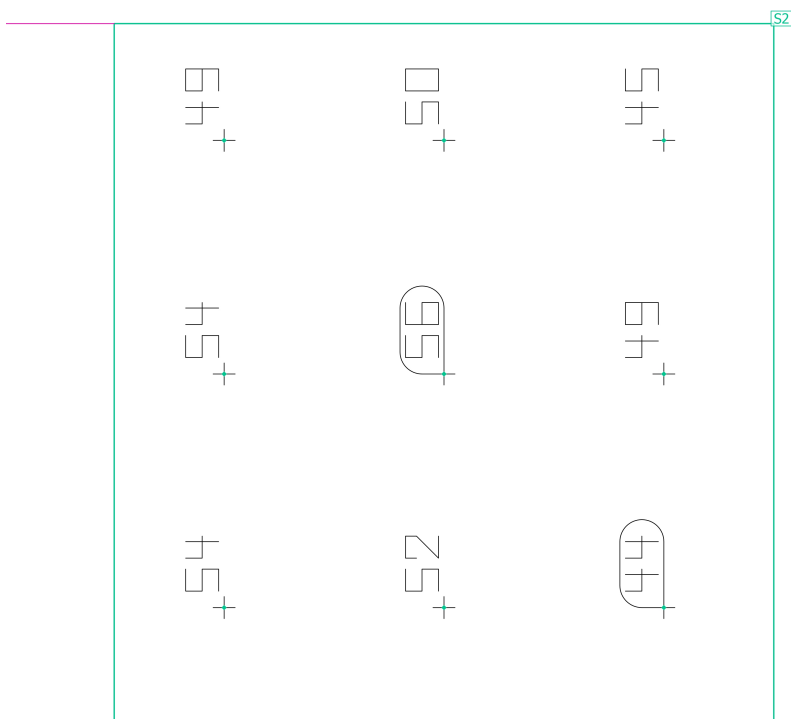
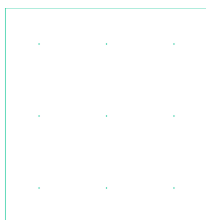
Properties	$\bar{E}$	$E_{\min}$	$E_{\max}$	g_1	g_2	Index
Doplňkový prostor A	42.3 lx	36.5 lx	46.3 lx	0.86	0.79	S1
Vertical illuminance						
Rotation: 0.0°, Height: 1.000 m						

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Notes on planning:

The results were calculated without consideration of objects and furniture. No results were determined on their surfaces.

Doplňkové osvětlení přechodu pro chodce

Základní prostor A

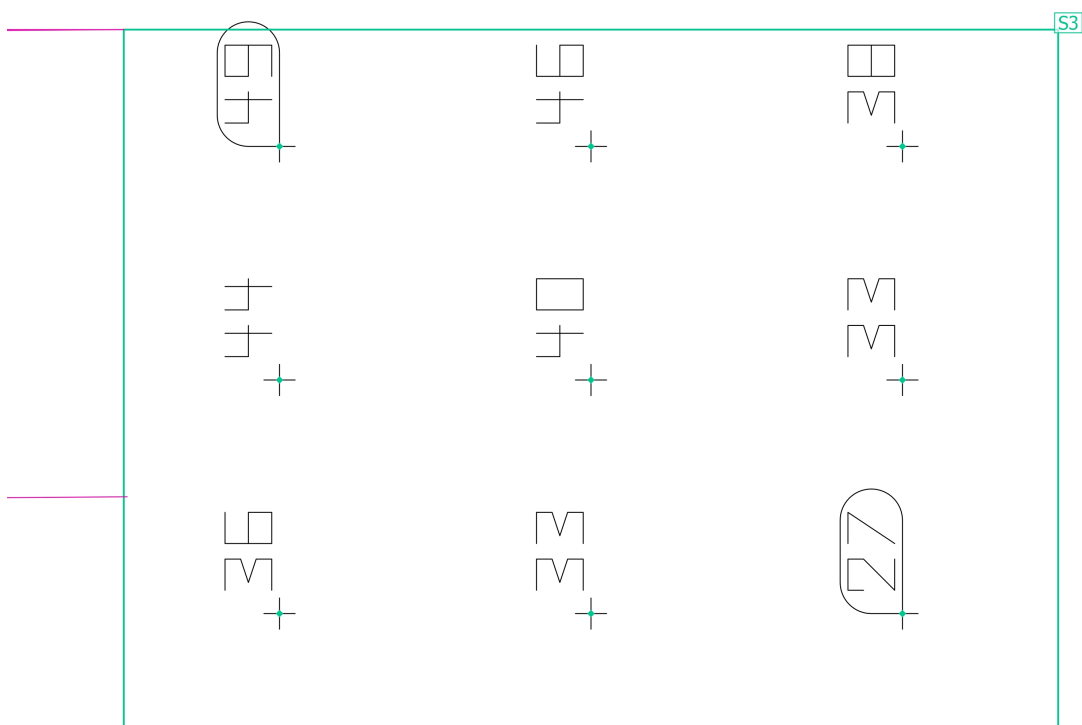
Properties	$\bar{E}$	$E_{\min}$	$E_{\max}$	g_1	g_2	Index
Základní prostor A Vertical illuminance Rotation: 0.0°, Height: 1.000 m	50.4 lx	44.1 lx	55.8 lx	0.88	0.79	S2

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Notes on planning:

The results were calculated without consideration of objects and furniture. No results were determined on their surfaces.

Doplňkové osvětlení přechodu pro chodce

Doplňkový prostor prodloužený A

Properties	$\bar{E}$	$E_{\min}$	$E_{\max}$	g_1	g_2	Index
Doplňkový prostor prodloužený A	38.3 lx	26.7 lx	49.3 lx	0.70	0.54	S3
Vertical illuminance						
Rotation: 0.0°, Height: 1.000 m						

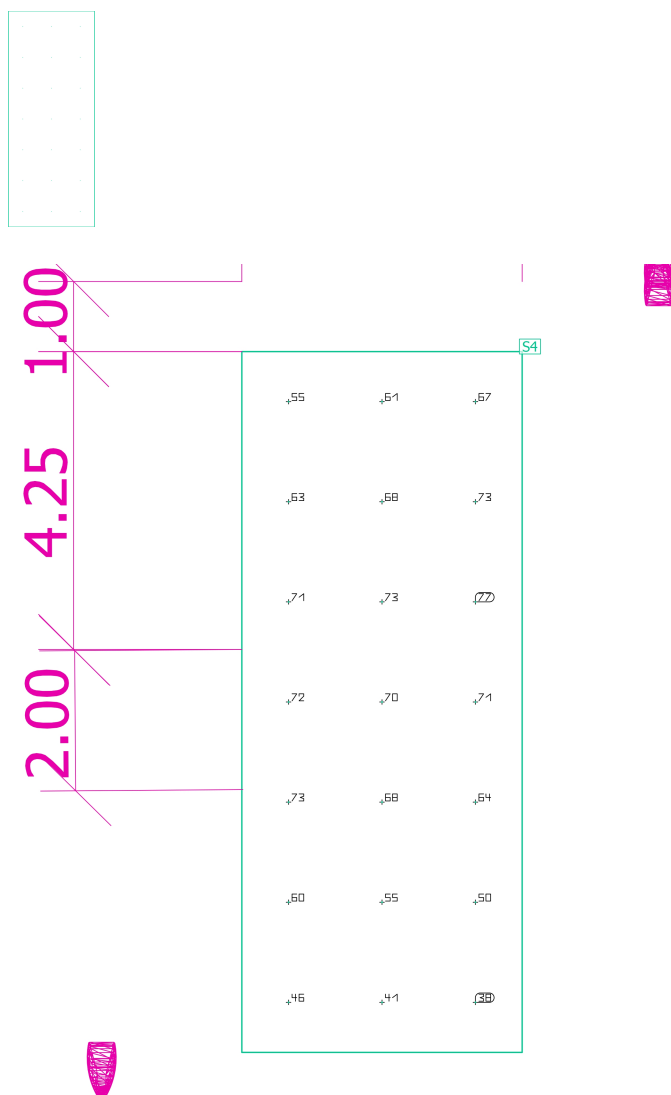
Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Notes on planning:

The results were calculated without consideration of objects and furniture. No results were determined on their surfaces.

Doplňkové osvětlení přechodu pro chodce

Horizontální osvětlenost přechodu



Properties	$\bar{E}$	$E_{\min}$	$E_{\max}$	g_1	g_2	Index
Horizontální osvětlenost přechodu	62.6 lx	37.6 lx	76.7 lx	0.60	0.49	S4
Perpendicular illuminance						
Height: 0.000 m						

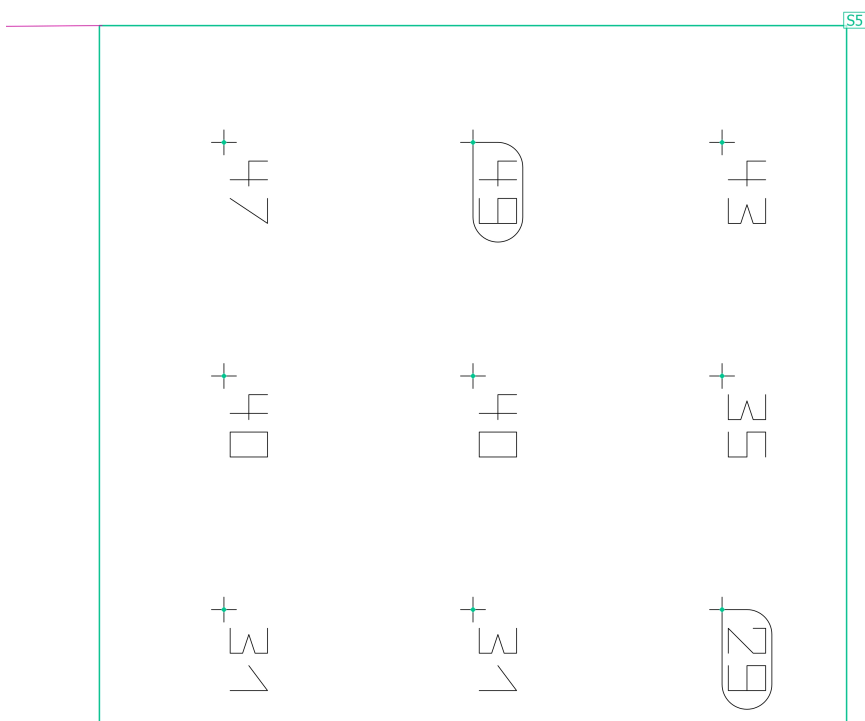
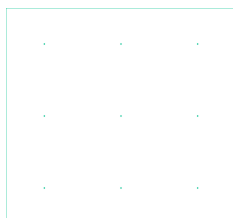
Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Notes on planning:

The results were calculated without consideration of objects and furniture. No results were determined on their surfaces.

Doplňkové osvětlení přechodu pro chodce

Základní prostor B



Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
Základní prostor B Vertical illuminance Rotation: 180.0°, Height: 1.000 m	38.4 lx	29.3 lx	49.0 lx	0.76	0.60	S5

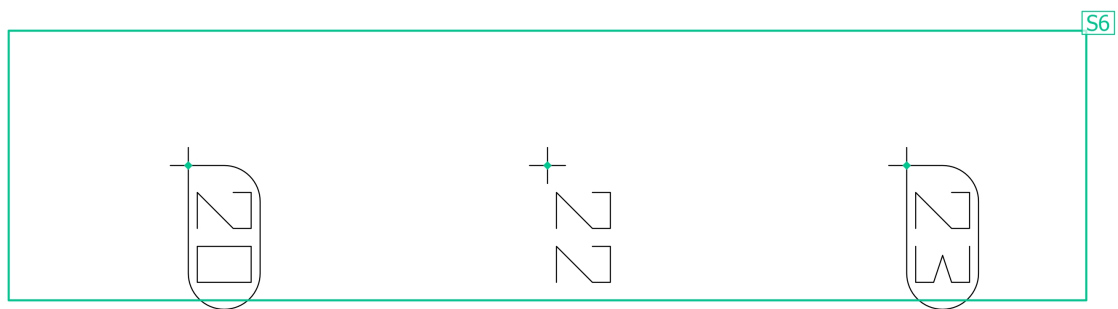
Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Notes on planning:

The results were calculated without consideration of objects and furniture. No results were determined on their surfaces.

Doplňkové osvětlení přechodu pro chodce

Doplňkový prostor B



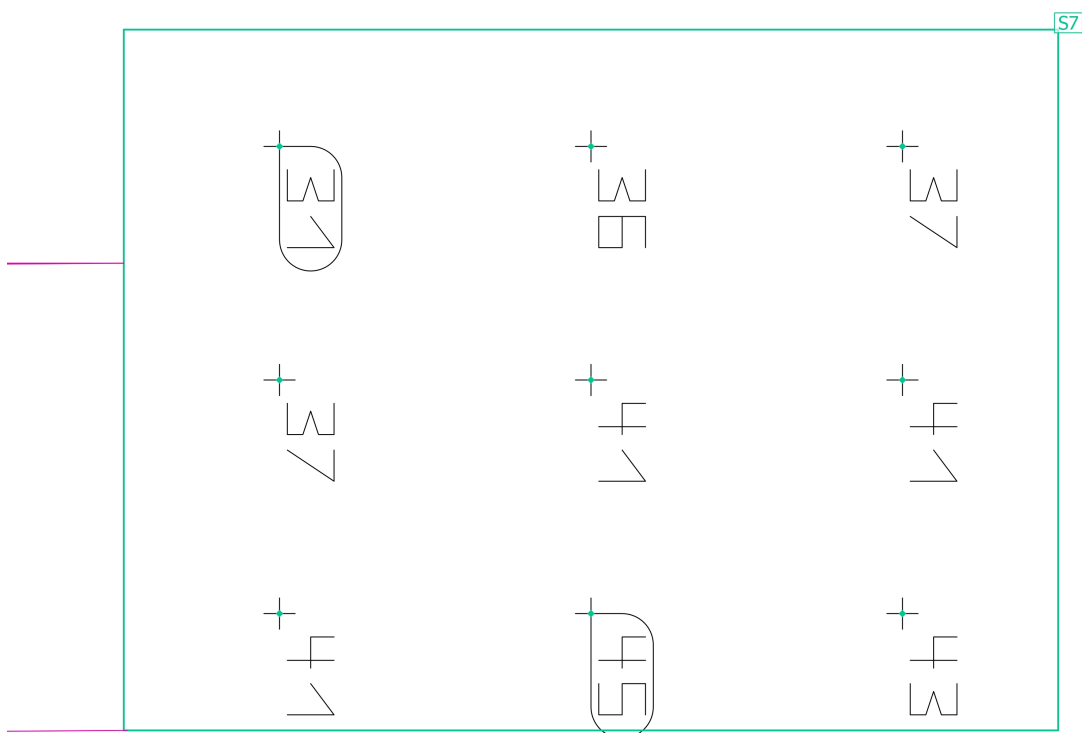
Properties	$\bar{E}$	$E_{\min}$	$E_{\max}$	g_1	g_2	Index
Doplňkový prostor B	21.5 lx	19.6 lx	22.6 lx	0.91	0.87	S6
Vertical illuminance						
Rotation: 180.0°, Height: 1.000 m						

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Notes on planning:

The results were calculated without consideration of objects and furniture. No results were determined on their surfaces.

Doplňkové osvětlení přechodu pro chodce

Doplňkový prostor prodloužený B

Properties	$\bar{E}$	$E_{\min}$	$E_{\max}$	g_1	g_2	Index
Doplňkový prostor prodloužený B	39.1 lx	31.2 lx	45.4 lx	0.80	0.69	S7
Vertical illuminance						
Rotation: 180.0°, Height: 1.000 m						

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Notes on planning:

The results were calculated without consideration of objects and furniture. No results were determined on their surfaces.