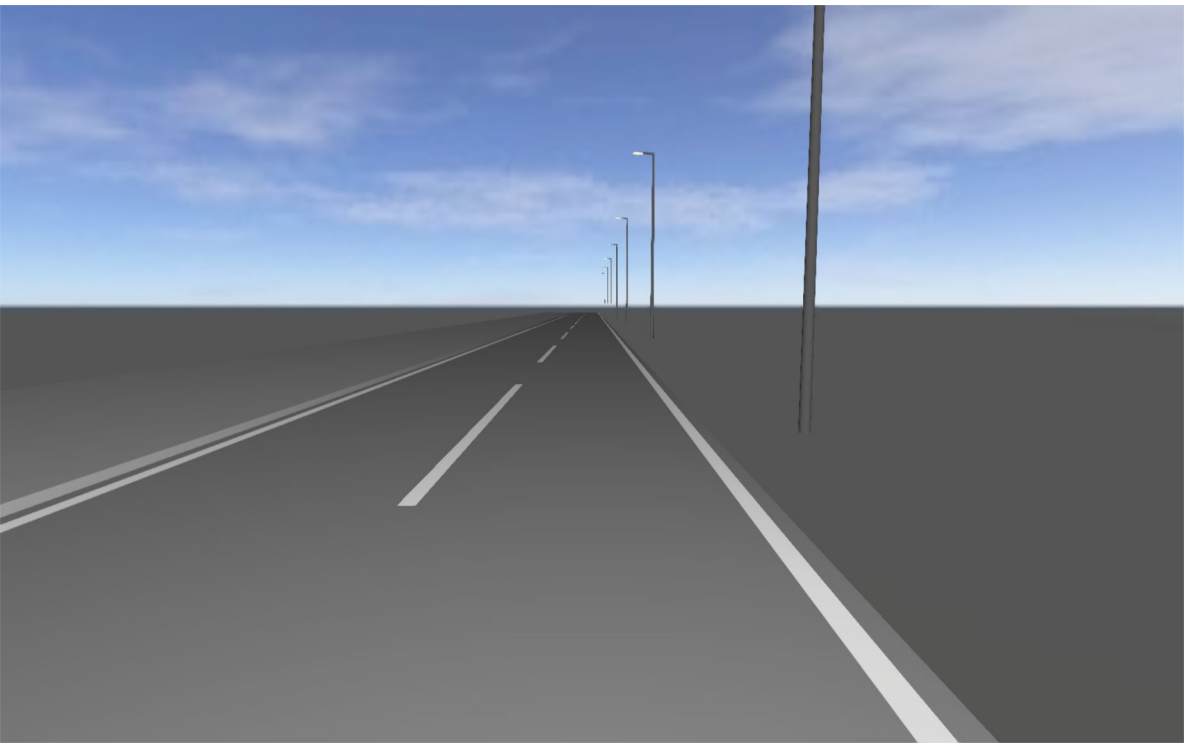


Līvānu pilsētas ielu apgaismojuma aprēķini

5. daļa

Created with DIALux

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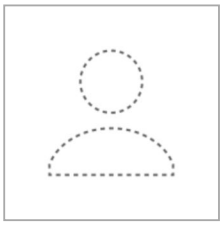
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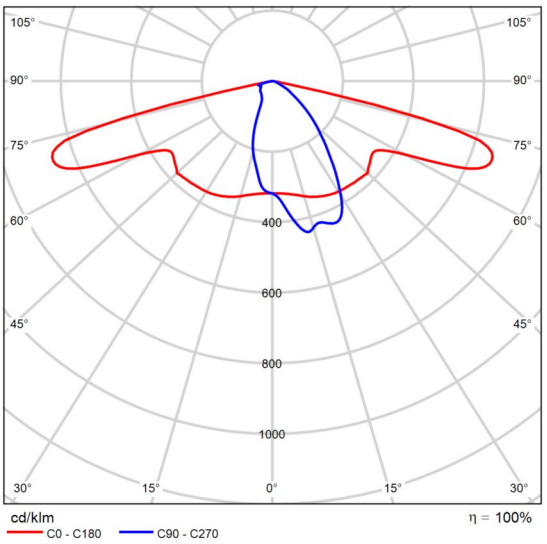
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Product data sheet

Not yet a DIALux member - SRL 030 740 L90 B016_Bin-N8_TH



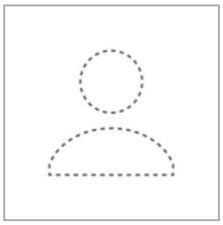
Article No.	Stork Little Brother 30 W 16 LEDs
P	30.0 W
Φ_{Lamp}	4151 lm
$\Phi_{Luminaire}$	4151 lm
η	100.00 %
Luminous efficacy	138.4 lm/W
CCT	4000 K
CRI	70



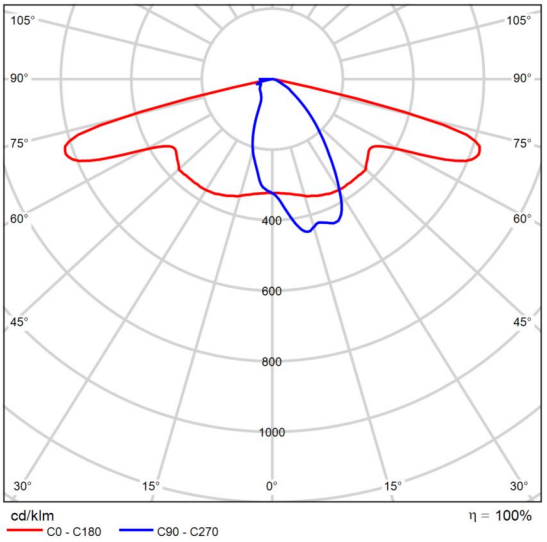
Polar LDC

Product data sheet

Not yet a DIALux member - SRL 030 740 L90 B032_Bin-N8_TH



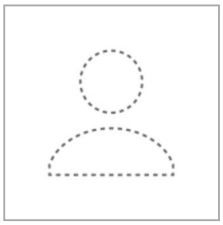
Article No.	Stork Little Brother 30 W 32 LEDs
P	30.0 W
Φ_{Lamp}	4652 lm
$\Phi_{Luminaire}$	4652 lm
η	100.00 %
Luminous efficacy	155.1 lm/W
CCT	4000 K
CRI	70



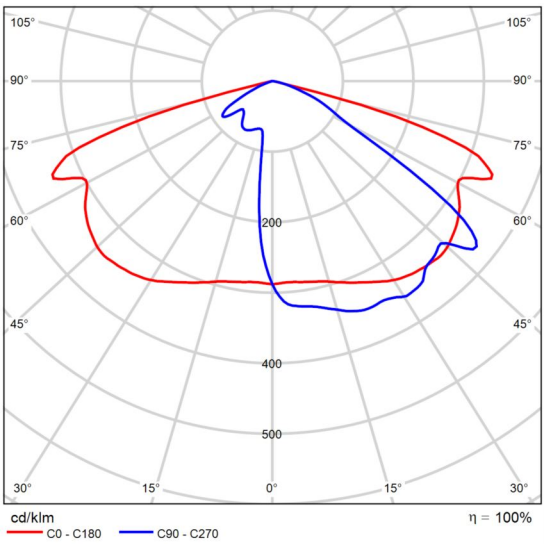
Polar LDC

Product data sheet

Not yet a DIALux member - SRU 015 740 L05 AA016_Bin-N8_TH



Article No.	Stork Little Sister 15 W 16 LEDs
P	15.0 W
Φ_{Lamp}	2196 lm
$\Phi_{Luminaire}$	2196 lm
η	100.00 %
Luminous efficacy	146.4 lm/W
CCT	4000 K
CRI	70

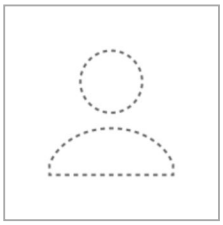


Polar LDC

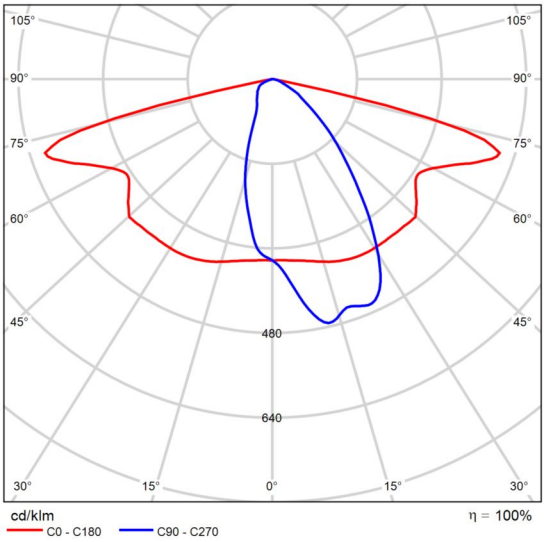
DIALux

Product data sheet

Not yet a DIALux member - SRU 015 740 L90 AA016_Bin-N8_TH



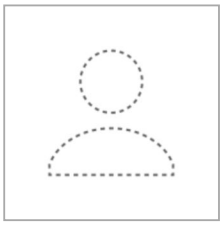
Article No.	Stork Little Sister 15 W 16 LEDs
P	15.0 W
Φ_{Lamp}	2194 lm
$\Phi_{Luminaire}$	2194 lm
η	100.00 %
Luminous efficacy	146.3 lm/W
CCT	4000 K
CRI	70



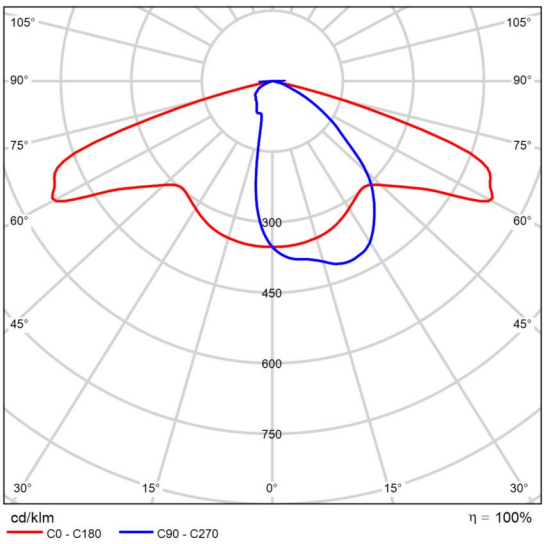
Polar LDC

Product data sheet

Not yet a DIALux member - SRU 020 740 L02 AA016_Bin-N8_TH



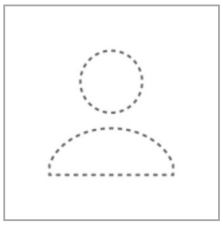
Article No.	Stork Little Sister 20 W 16 LEDs
P	20.0 W
Φ_{Lamp}	2790 lm
$\Phi_{Luminaire}$	2790 lm
η	100.00 %
Luminous efficacy	139.5 lm/W
CCT	4000 K
CRI	70



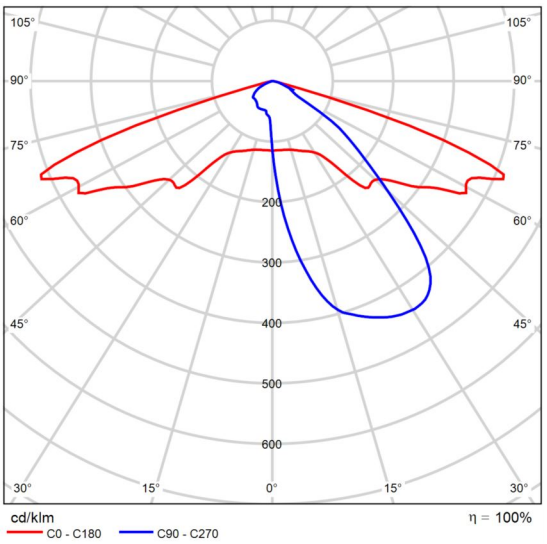
Polar LDC

Product data sheet

Not yet a DIALux member - SRU 020 740 L56 AA016_Bin-N8_TH



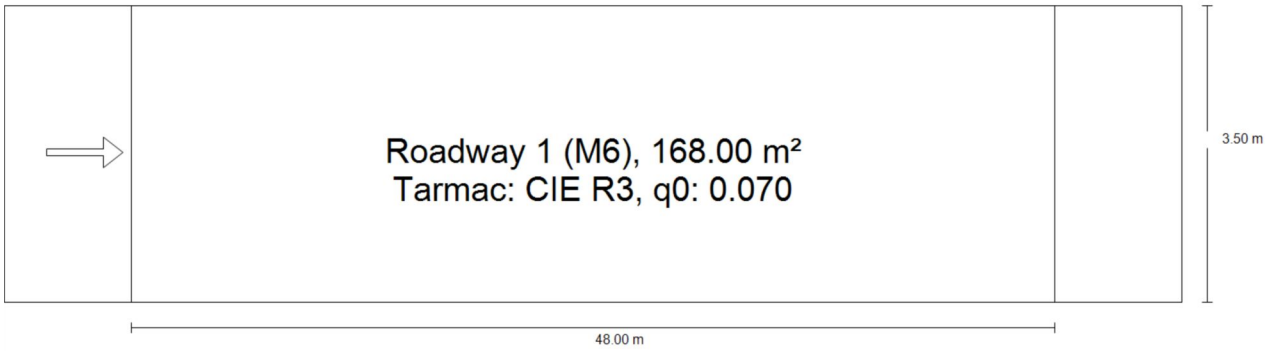
Article No.	Stork Little Sister 20 W 16 LEDs
P	20.0 W
Φ_{Lamp}	2833 lm
$\Phi_{Luminaire}$	2833 lm
η	100.00 %
Luminous efficacy	141.7 lm/W
CCT	4000 K
CRI	70



Polar LDC

Apkārt Sutru pagasta pārvaldei

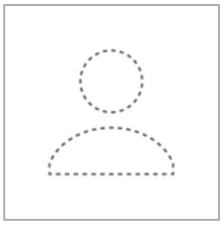
Summary (according to EN 13201:2015)

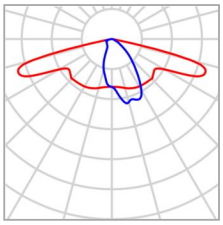


DIALux

Apkārt Sutru pagasta pārvaldei

Summary (according to EN 13201:2015)

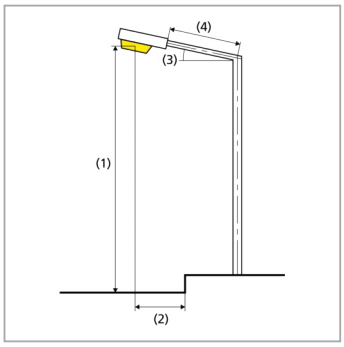




Manufacturer	Not yet a DIALux member
Article No.	Stork Little Brother 30 W 16 LEDs
Article name	SRL 030 740 L90 B016_Bin-N8_TH
Fitting	1x 16 LEDs bin N8

P	30.0 W
Φ_{Lamp}	4151 lm
$\Phi_{Luminaire}$	4151 lm
η	100.00 %

SRL 030 740 L90 B016_Bin-N8_TH (single side bottom)



Pole distance	48.000 m
(1) Light spot height	8.600 m
(2) Light point overhang	-4.000 m
(3) Boom inclination	15.0°
(4) Boom length	0.200 m
Annual operating hours	4000 h: 100.0 %, 30.0 W
Consumption	630.0 W/km
ULR / ULOR	0.00 / 0.00
Max. luminous intensities Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.	≥ 70°: 865 cd/klm ≥ 80°: 440 cd/klm ≥ 90°: 13.3 cd/klm
Luminous intensity class The luminous intensity values in [cd/klm] for calculation of the luminous intensity class refer to the luminaire luminous flux according to EN 13201:2015.	-
Glare index class	D.6

Apkārt Sutru pagasta pārvaldei

Summary (according to EN 13201:2015)

Results for valuation fields

	Symbol	Calculated	Target	Check
Roadway 1 (M6)	L_{av}	0.34 cd/m²	≥ 0.30 cd/m²	✓
	U_o	0.68	≥ 0.35	✓
	U_l	0.73	≥ 0.40	✓
	TI	14 %	≤ 20 %	✓
	R_{EI}	0.59	≥ 0.30	✓

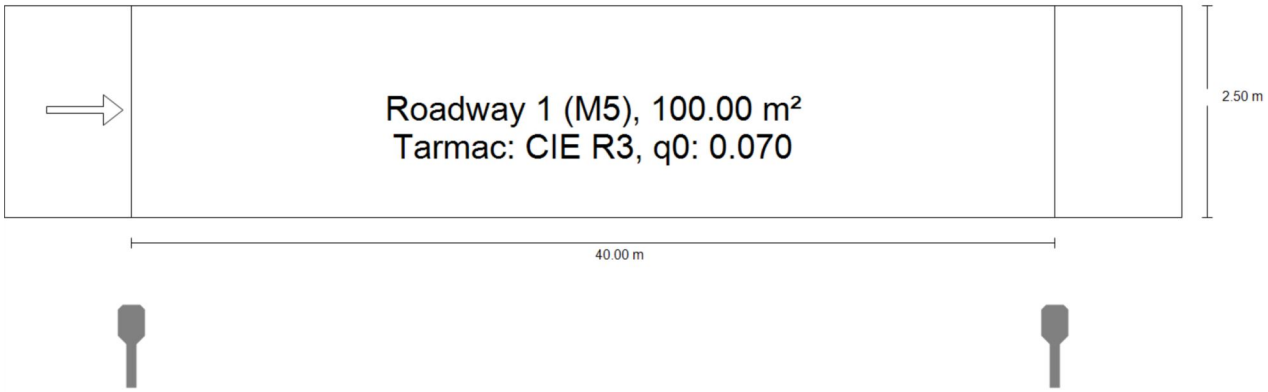
A maintenance factor of 0.80 was used for calculating for the installation.

Results for energy efficiency indicators

	Symbol	Calculated	Consumption
Apkārt Sutru pagasta pārvaldei	D_p	0.031 W/lx*m²	-
SRL 030 740 L90 B016_Bin-N8_TH (single side bottom)	D_e	0.7 kWh/m² yr,	120.0 kWh/yr

Apkārt Turku pagasta pārvaldei

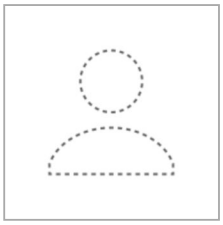
Summary (according to EN 13201:2015)

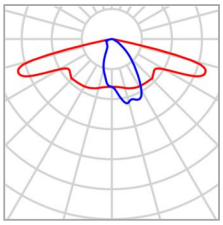


DIALux

Apkārt Turku pagasta pārvaldei

Summary (according to EN 13201:2015)



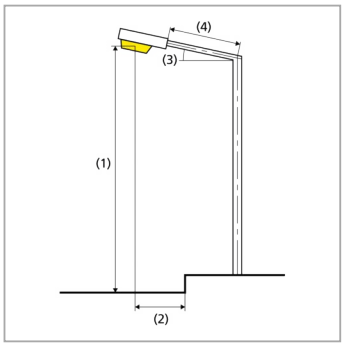


Manufacturer	Not yet a DIALux member
Article No.	Stork Little Brother 30 W 16 LEDs
Article name	SRL 030 740 L90 B016_Bin-N8_TH
Fitting	1x 16 LEDs bin N8

P	30.0 W
Φ_{Lamp}	4151 lm
$\Phi_{Luminaire}$	4151 lm
η	100.00 %

SRL 030 740 L90 B016_Bin-N8_TH (single side bottom)

Pole distance	40.000 m
(1) Light spot height	10.200 m
(2) Light point overhang	-1.292 m
(3) Boom inclination	10.0°
(4) Boom length	0.700 m
Annual operating hours	4000 h: 100.0 %, 30.0 W
Consumption	750.0 W/km
ULR / ULOR	0.00 / 0.00
Max. luminous intensities Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.	≥ 70°: 865 cd/klm ≥ 80°: 244 cd/klm ≥ 90°: 5.62 cd/klm
Luminous intensity class The luminous intensity values in [cd/klm] for calculation of the luminous intensity class refer to the luminaire luminous flux according to EN 13201:2015.	-
Glare index class	D.6



Apkārt Turku pagasta pārvaldei

Summary (according to EN 13201:2015)

Results for valuation fields

	Symbol	Calculated	Target	Check
Roadway 1 (M5)	L_{av}	0.51 cd/m²	≥ 0.50 cd/m²	✓
	U_o	0.82	≥ 0.35	✓
	U_l	0.79	≥ 0.40	✓
	TI	9 %	≤ 15 %	✓
	R_{EI}	0.65	≥ 0.30	✓

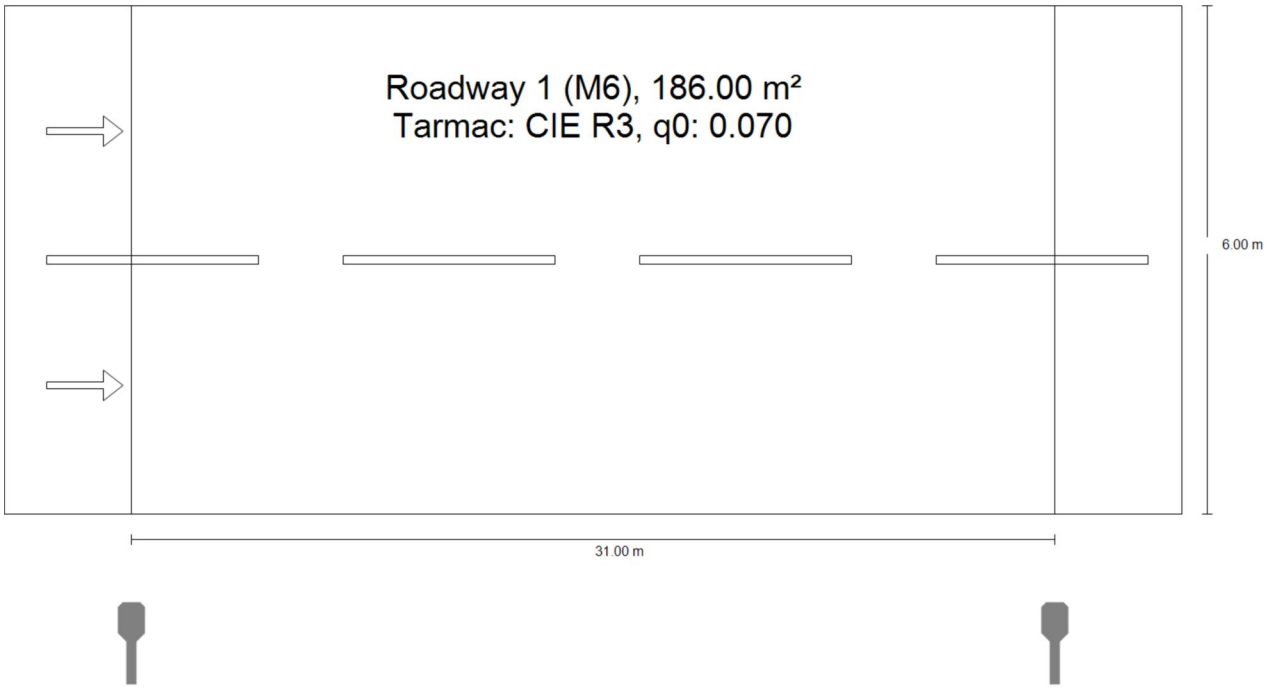
A maintenance factor of 0.80 was used for calculating for the installation.

Results for energy efficiency indicators

	Symbol	Calculated	Consumption
Apkārt Turku pagasta pārvaldei	D_p	0.048 W/lx*m²	-
SRL 030 740 L90 B016_Bin-N8_TH (single side bottom)	D_e	1.2 kWh/m² yr,	120.0 kWh/yr

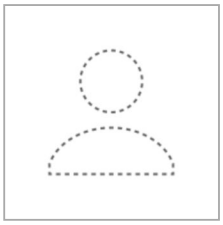
Bērzu iela, Vītolu iela, Liepu iela

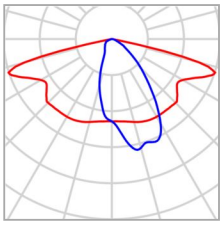
Summary (according to EN 13201:2015)



Bērzu iela, Vītolu iela, Liepu iela

Summary (according to EN 13201:2015)

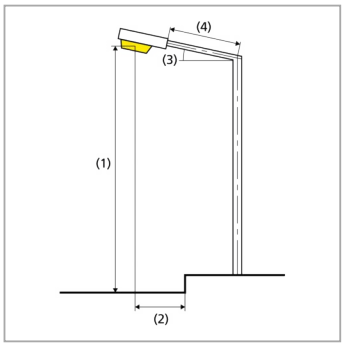




Manufacturer	Not yet a DIALux member
Article No.	Stork Little Sister 15 W 16 LEDs
Article name	SRU 015 740 L90 AA016_Bin-N8_TH
Fitting	1x 16 LEDs bin N8

P	15.0 W
Φ_{Lamp}	2194 lm
$\Phi_{Luminaire}$	2194 lm
η	100.00 %

SRU 015 740 L90 AA016_Bin-N8_TH (single side bottom)



Pole distance	31.000 m
(1) Light spot height	7.400 m
(2) Light point overhang	-1.297 m
(3) Boom inclination	10.0°
(4) Boom length	0.700 m
Annual operating hours	4000 h: 100.0 %, 15.0 W
Consumption	480.0 W/km
ULR / ULOR	0.00 / 0.00
Max. luminous intensities Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.	≥ 70°: 973 cd/klm ≥ 80°: 197 cd/klm ≥ 90°: 6.30 cd/klm
Luminous intensity class The luminous intensity values in [cd/klm] for calculation of the luminous intensity class refer to the luminaire luminous flux according to EN 13201:2015.	G*1
Glare index class	D.6

Bērzu iela, Vītolu iela, Liepu iela

Summary (according to EN 13201:2015)

Results for valuation fields

	Symbol	Calculated	Target	Check
Roadway 1 (M6)	L_{av}	0.34 cd/m²	≥ 0.30 cd/m²	✓
	U_o	0.48	≥ 0.35	✓
	U_l	0.86	≥ 0.40	✓
	TI	15 %	≤ 20 %	✓
	R_{EI}	0.39	≥ 0.30	✓

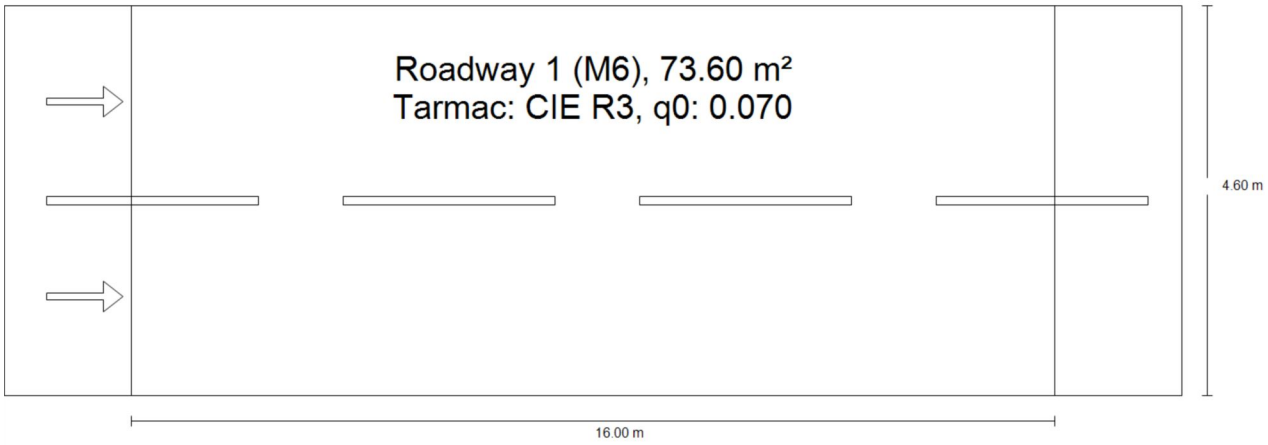
A maintenance factor of 0.80 was used for calculating for the installation.

Results for energy efficiency indicators

	Symbol	Calculated	Consumption
Bērzu iela, Vītolu iela, Liepu iela	D_p	0.014 W/lx*m²	-
SRU 015 740 L90 AA016_Bin-N8_TH (single side bottom)	D_e	0.3 kWh/m² yr,	60.0 kWh/yr

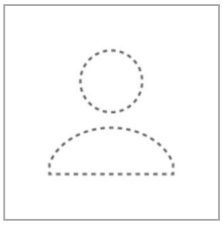
Dzīvojamā māja (Liepu iela pretī pašvaldības ēkai)

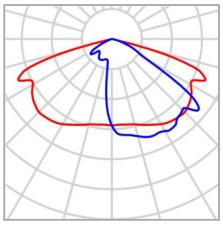
Summary (according to EN 13201:2015)



Dzīvojamā māja (Liepu iela pretī pašvaldības ēkai)

Summary (according to EN 13201:2015)

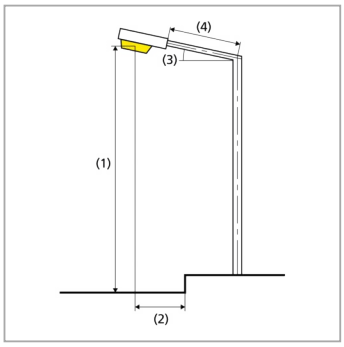




Manufacturer	Not yet a DIALux member
Article No.	Stork Little Sister 15 W 16 LEDs
Article name	SRU 015 740 L05 AA016_Bin-N8_TH
Fitting	1x 16 LEDs bin N8

P	15.0 W
Φ_{Lamp}	2196 lm
$\Phi_{Luminaire}$	2196 lm
η	100.00 %

SRU 015 740 L05 AA016_Bin-N8_TH (single side bottom)



Pole distance	16.000 m
(1) Light spot height	5.000 m
(2) Light point overhang	-4.476 m
(3) Boom inclination	10.0°
(4) Boom length	0.200 m
Annual operating hours	4000 h: 100.0 %, 15.0 W
Consumption	930.0 W/km
ULR / ULOR	0.00 / 0.00
Max. luminous intensities Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.	≥ 70°: 564 cd/klm ≥ 80°: 209 cd/klm ≥ 90°: 13.8 cd/klm
Luminous intensity class The luminous intensity values in [cd/klm] for calculation of the luminous intensity class refer to the luminaire luminous flux according to EN 13201:2015.	-
Glare index class	D.6

Dzīvojamā māja (Liepu iela pretī pašvaldības ēkai)

Summary (according to EN 13201:2015)

Results for valuation fields

	Symbol	Calculated	Target	Check
Roadway 1 (M6)	L_{av}	0.31 cd/m²	≥ 0.30 cd/m²	✓
	U_o	0.64	≥ 0.35	✓
	U_l	0.87	≥ 0.40	✓
	TI	8 %	≤ 20 %	✓
	R_{EI}	0.57	≥ 0.30	✓

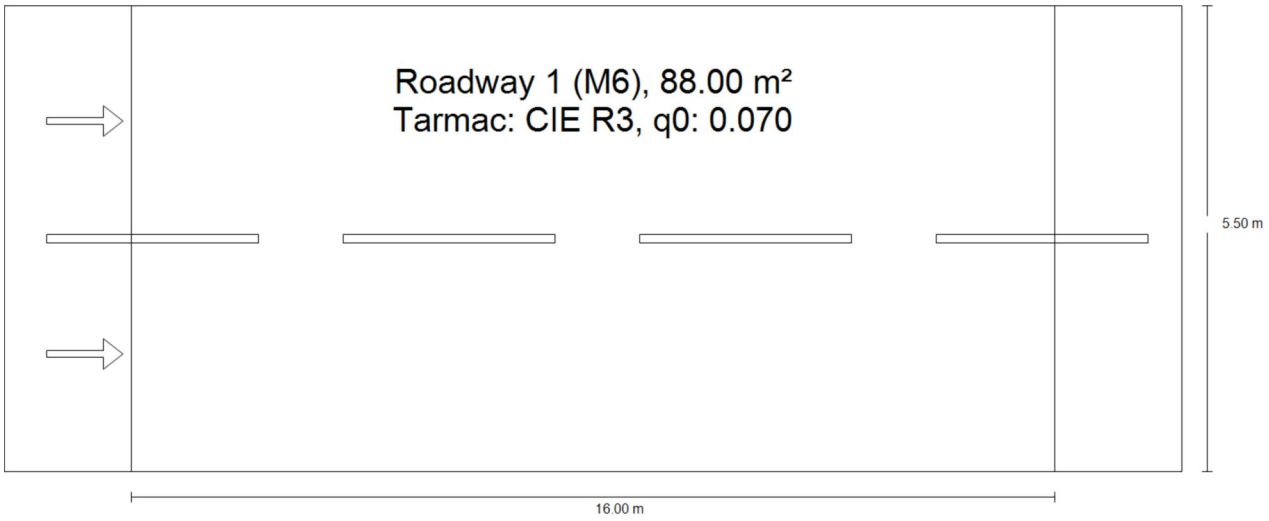
A maintenance factor of 0.80 was used for calculating for the installation.

Results for energy efficiency indicators

	Symbol	Calculated	Consumption
Dzīvojamā māja (Liepu iela pretī pašvaldības ēkai)	D_p	0.031 W/lx*m²	-
SRU 015 740 L05 AA016_Bin-N8_TH (single side bottom)	D_e	0.8 kWh/m² yr,	60.0 kWh/yr

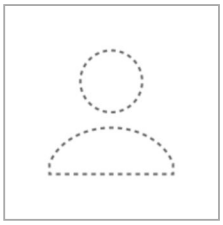
Dzīvojamās mājas (Uzvaras iela)

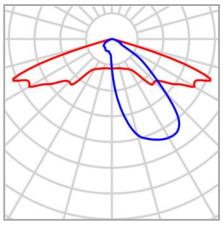
Summary (according to EN 13201:2015)



Dzīvojamās mājas (Uzvaras iela)

Summary (according to EN 13201:2015)

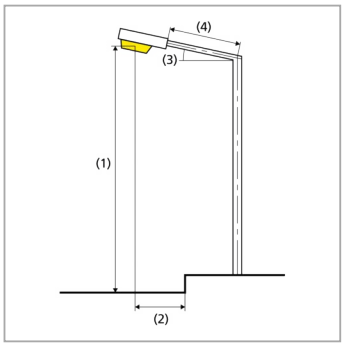




Manufacturer	Not yet a DIALux member
Article No.	Stork Little Sister 20 W 16 LEDs
Article name	SRU 020 740 L56 AA016_Bin-N8_TH
Fitting	1x 16 LEDs bin N8

P	20.0 W
Φ_{Lamp}	2833 lm
$\Phi_{Luminaire}$	2833 lm
η	100.00 %

SRU 020 740 L56 AA016_Bin-N8_TH (single side bottom)



Pole distance	16.000 m
(1) Light spot height	5.800 m
(2) Light point overhang	-7.900 m
(3) Boom inclination	25.0°
(4) Boom length	0.100 m
Annual operating hours	4000 h: 100.0 %, 20.0 W
Consumption	1240.0 W/km
ULR / ULOR	0.01 / 0.00
Max. luminous intensities Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.	≥ 70°: 1471 cd/klm ≥ 80°: 1159 cd/klm ≥ 90°: 53.5 cd/klm
Luminous intensity class The luminous intensity values in [cd/klm] for calculation of the luminous intensity class refer to the luminaire luminous flux according to EN 13201:2015.	-
Glare index class	D.6

Dzīvojamās mājas (Uzvaras iela)

Summary (according to EN 13201:2015)

Results for valuation fields

	Symbol	Calculated	Target	Check
Roadway 1 (M6)	L_{av}	0.37 cd/m²	≥ 0.30 cd/m²	✓
	U_o	0.57	≥ 0.35	✓
	U_l	0.72	≥ 0.40	✓
	TI	12 %	≤ 20 %	✓
	R_{EI}	0.63	≥ 0.30	✓

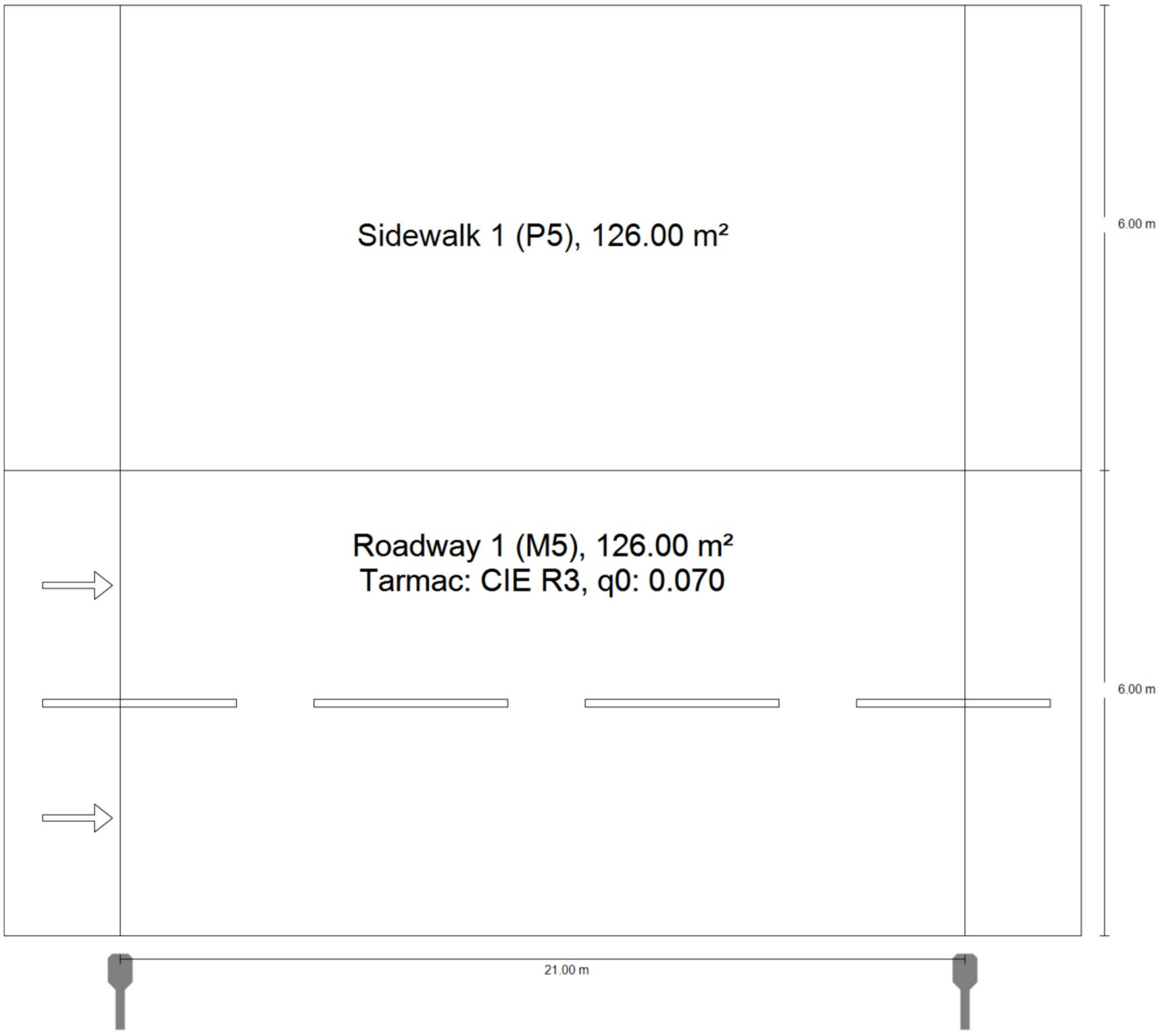
A maintenance factor of 0.80 was used for calculating for the installation.

Results for energy efficiency indicators

	Symbol	Calculated	Consumption
Dzīvojamās mājas (Uzvaras iela)	D_p	0.035 W/lx*m²	-
SRU 020 740 L56 AA016_Bin-N8_TH (single side bottom)	D_e	0.9 kWh/m² yr,	80.0 kWh/yr

Jesikas pagasta pašvaldības ēka

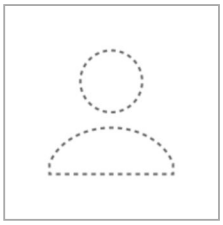
Summary (according to EN 13201:2015)

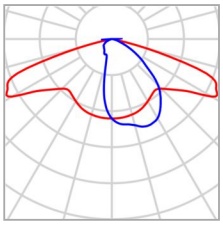


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Jesikas pagasta pašvaldības ēka

Summary (according to EN 13201:2015)

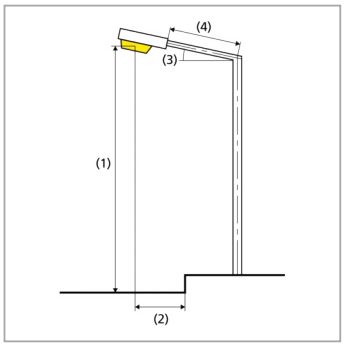




Manufacturer	Not yet a DIALux member
Article No.	Stork Little Sister 20 W 16 LEDs
Article name	SRU 020 740 L02 AA016_Bin-N8_TH
Fitting	1x 16 LEDs bin N8

P	20.0 W
Φ_{Lamp}	2790 lm
$\Phi_{Luminaire}$	2790 lm
η	100.00 %

SRU 020 740 L02 AA016_Bin-N8_TH (single side bottom)



Pole distance	21.000 m
(1) Light spot height	8.200 m
(2) Light point overhang	-0.493 m
(3) Boom inclination	5.0°
(4) Boom length	0.700 m
Annual operating hours	4000 h: 100.0 %, 20.0 W
Consumption	960.0 W/km
ULR / ULOR	0.00 / 0.00
Max. luminous intensities Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.	≥ 70°: 595 cd/klm ≥ 80°: 79.2 cd/klm ≥ 90°: 3.16 cd/klm
Luminous intensity class The luminous intensity values in [cd/klm] for calculation of the luminous intensity class refer to the luminaire luminous flux according to EN 13201:2015.	G*3
Glare index class	D.6

Jesikas pagasta pašvaldības ēka

Summary (according to EN 13201:2015)

Results for valuation fields

	Symbol	Calculated	Target	Check
Sidewalk 1 (P5)	E_{av}	3.68 lx	[3.00 - 4.50] lx	✓
	E_{min}	1.73 lx	≥ 0.60 lx	✓
Roadway 1 (M5)	L_{av}	0.51 cd/m²	≥ 0.50 cd/m²	✓
	U_o	0.56	≥ 0.35	✓
	U_l	0.72	≥ 0.40	✓
	TI	7 %	≤ 15 %	✓
	R_{EI}	0.58	≥ 0.30	✓

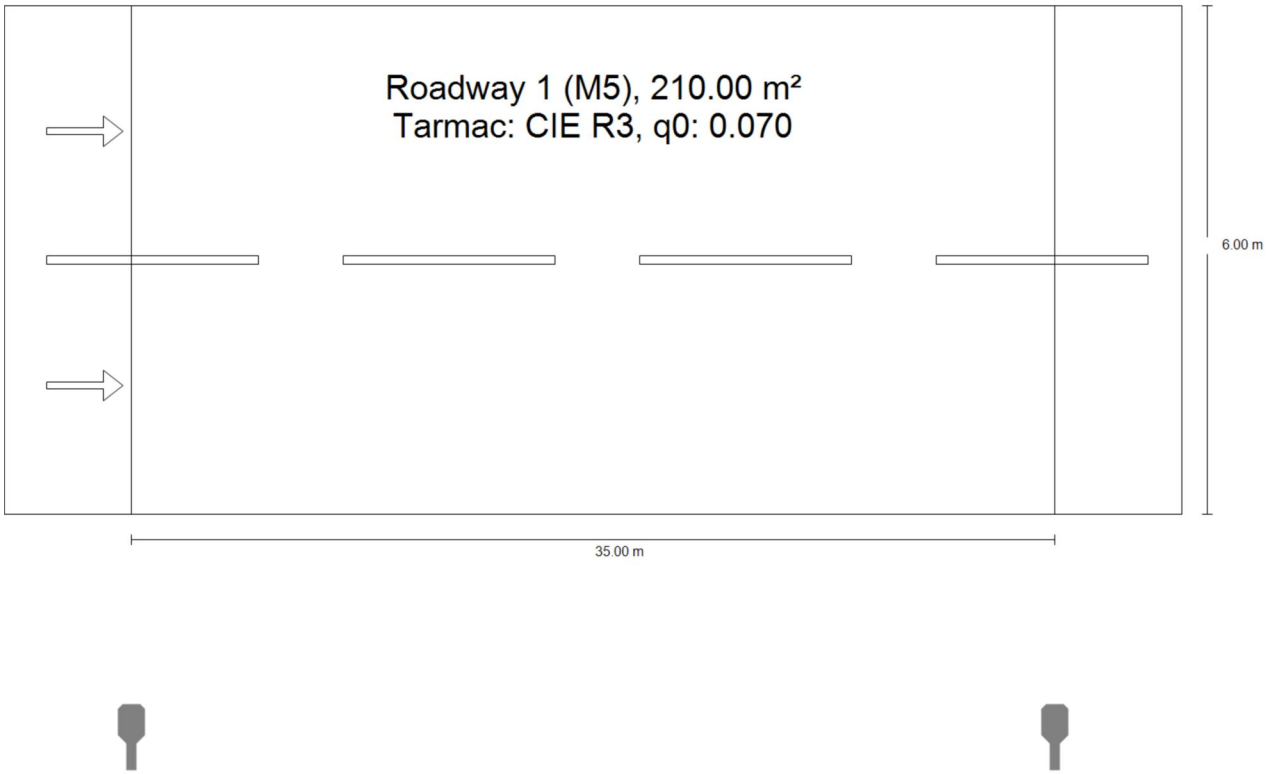
A maintenance factor of 0.80 was used for calculating for the installation.

Results for energy efficiency indicators

	Symbol	Calculated	Consumption
Jesikas pagasta pašvaldības ēka	D_p	0.013 W/lx*m²	-
SRU 020 740 L02 AA016_Bin-N8_TH (single side bottom)	D_e	0.3 kWh/m² yr,	80.0 kWh/yr

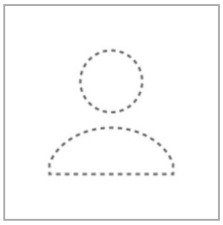
Miera iela (iebraucot pilsētā no Malkalna puses)

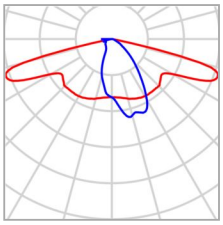
Summary (according to EN 13201:2015)



Miera iela (iebraucot pilsētā no Malkalna puses)

Summary (according to EN 13201:2015)

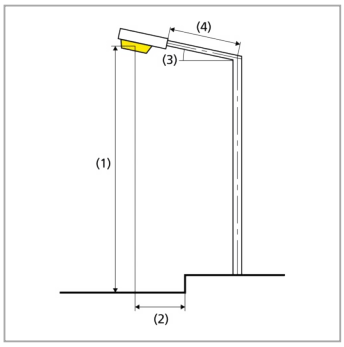




Manufacturer	Not yet a DIALux member
Article No.	Stork Little Brother 30 W 32 LEDs
Article name	SRL 030 740 L90 B032_Bin-N8_TH
Fitting	1x 32 LEDs bin N8

P	30.0 W
Φ_{Lamp}	4652 lm
$\Phi_{Luminaire}$	4652 lm
η	100.00 %

SRL 030 740 L90 B032_Bin-N8_TH (single side bottom)



Pole distance	35.000 m
(1) Light spot height	8.500 m
(2) Light point overhang	-2.500 m
(3) Boom inclination	5.0°
(4) Boom length	0.500 m
Annual operating hours	4000 h: 100.0 %, 30.0 W
Consumption	870.0 W/km
ULR / ULOR	0.00 / 0.00
Max. luminous intensities Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.	≥ 70°: 861 cd/klm ≥ 80°: 54.8 cd/klm ≥ 90°: 1.69 cd/klm
Luminous intensity class The luminous intensity values in [cd/klm] for calculation of the luminous intensity class refer to the luminaire luminous flux according to EN 13201:2015.	G*3
Glare index class	D.6

Miera iela (iebraucot pilsētā no Malkalna puses)

Summary (according to EN 13201:2015)

Results for valuation fields

	Symbol	Calculated	Target	Check
Roadway 1 (M5)	L_{av}	0.50 cd/m²	≥ 0.50 cd/m²	✓
	U_o	0.35	≥ 0.35	✓
	U_l	0.78	≥ 0.40	✓
	TI	15 %	≤ 15 %	✓
	R_{EI}	0.36	≥ 0.30	✓

A maintenance factor of 0.80 was used for calculating for the installation.

Results for energy efficiency indicators

	Symbol	Calculated	Consumption
Miera iela (iebraucot pilsētā no Malkalna puses)	D_p	0.017 W/lx*m²	-
SRL 030 740 L90 B032_Bin-N8_TH (single side bottom)	D_e	0.6 kWh/m² yr,	120.0 kWh/yr