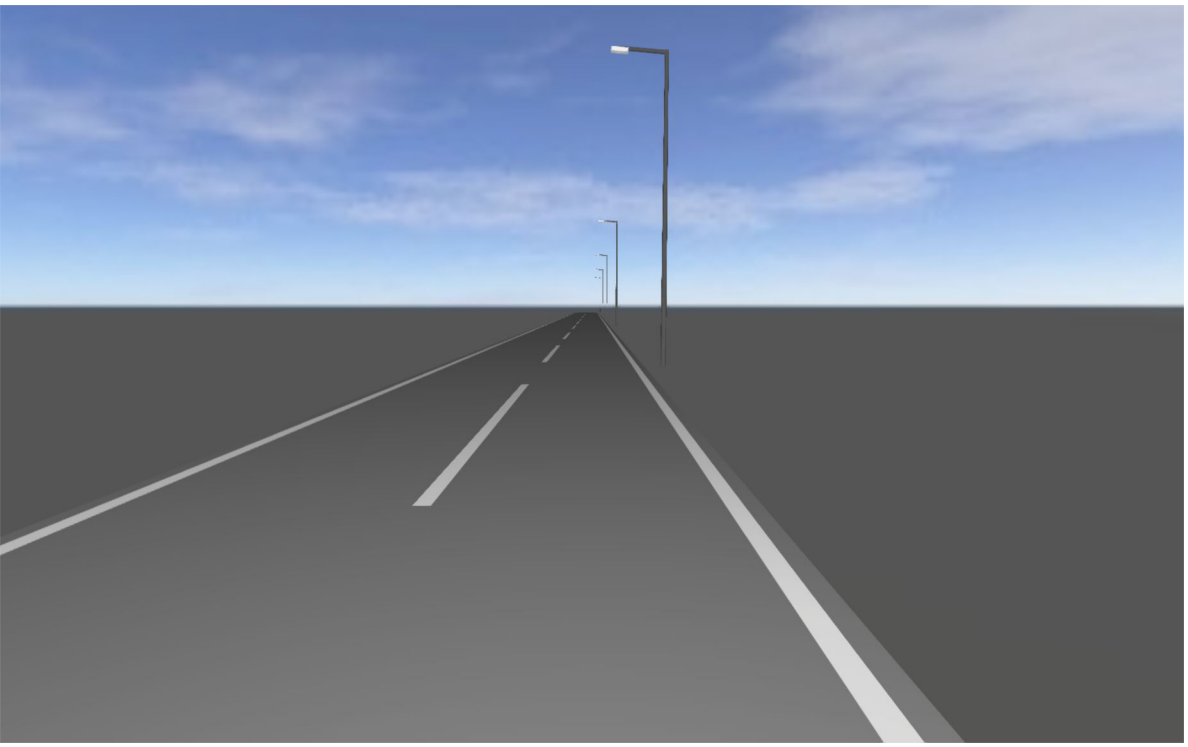


Līvānu pilsētas ielu apgaismojuma aprēķini

2. daļa

Created with DIALux

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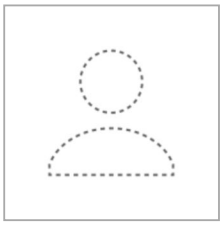
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Strēlnieku iela 3 · Alternative 33

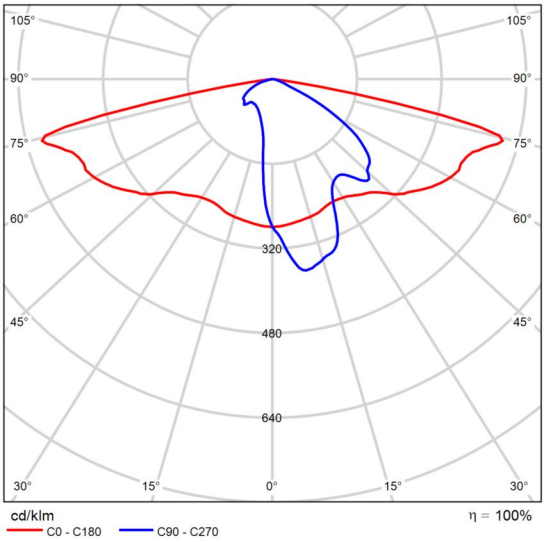
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Product data sheet

Not yet a DIALux member - SRL 030 740 L22 B032_Bin-N8_TH



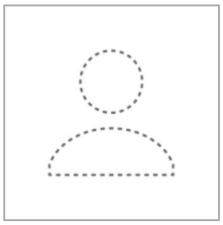
Article No.	Stork Little Brother 30 W 32 LEDs
P	30.0 W
Φ_{Lamp}	4440 lm
$\Phi_{Luminaire}$	4440 lm
η	100.00 %
Luminous efficacy	148.0 lm/W
CCT	4000 K
CRI	70



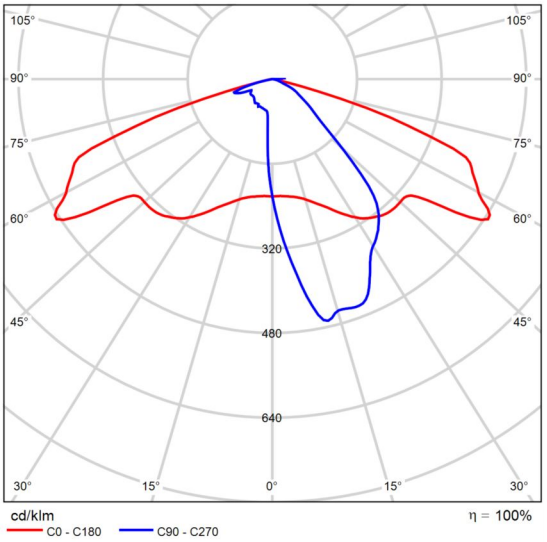
Polar LDC

Product data sheet

Not yet a DIALux member - SRL 040 740 L04 B032_Bin-N8_TH



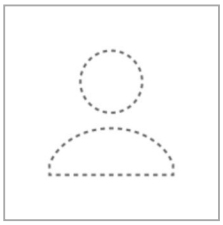
Article No.	Stork Little Brother 40 W 32 LEDs
P	40.0 W
Φ_{Lamp}	6149 lm
$\Phi_{Luminaire}$	6149 lm
η	100.00 %
Luminous efficacy	153.7 lm/W
CCT	4000 K
CRI	70



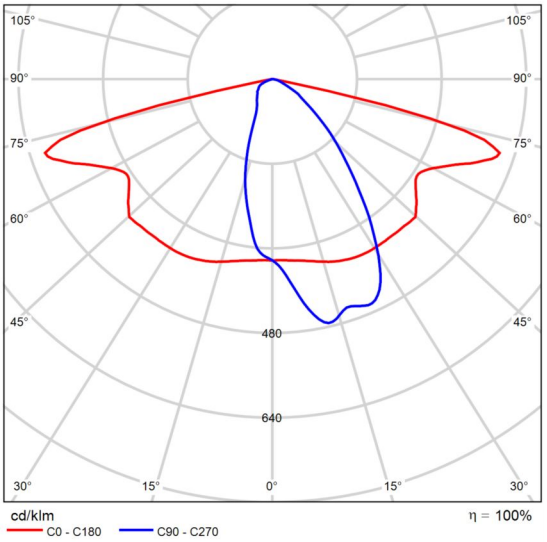
Polar LDC

Product data sheet

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



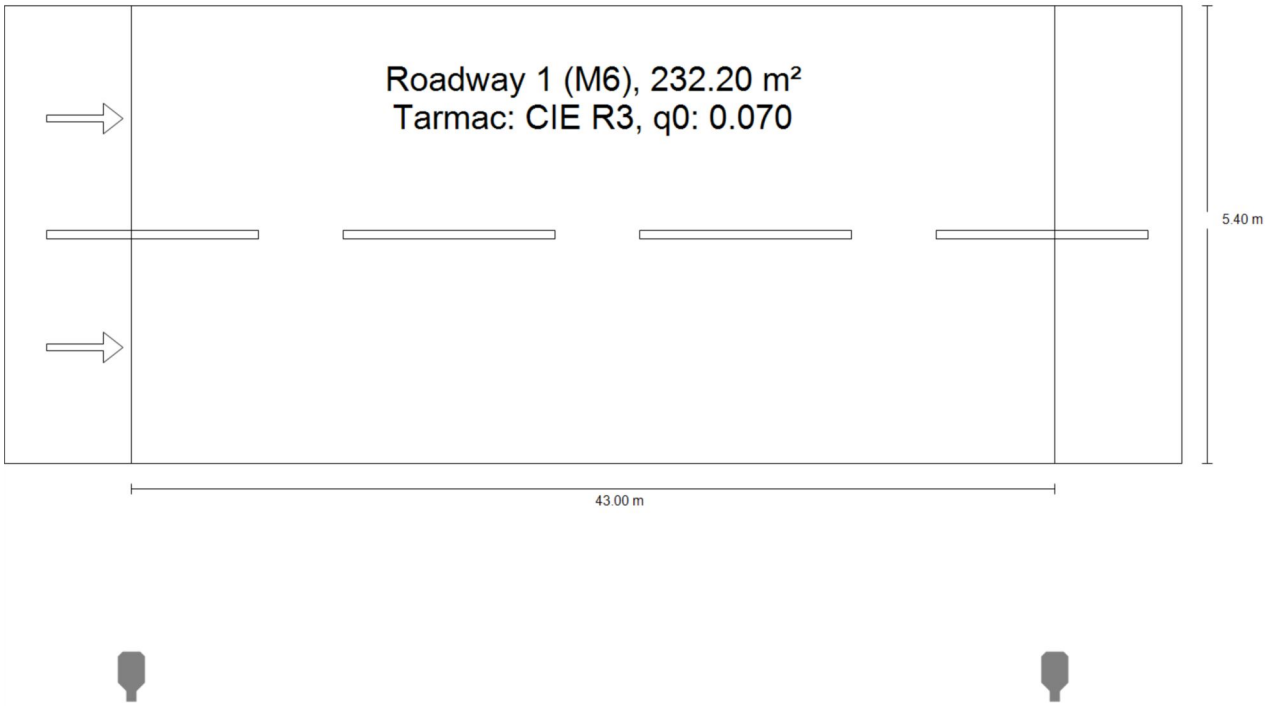
Article No.	Stork Little Sister 15 W 16 LEDs
P	15.0 W
Φ_{Lamp}	2194 lm
$\Phi_{Luminaire}$	2194 lm
η	100.00 %
Luminous efficacy	146.3 lm/W
CCT	4000 K
CRI	70



Polar LDC

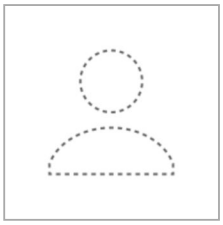
(Grāveri) Krasta iela

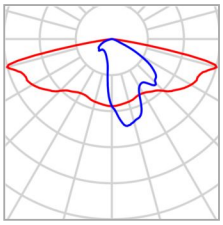
Summary (according to EN 13201:2015)



(Grāveri) Krasta iela

Summary (according to EN 13201:2015)

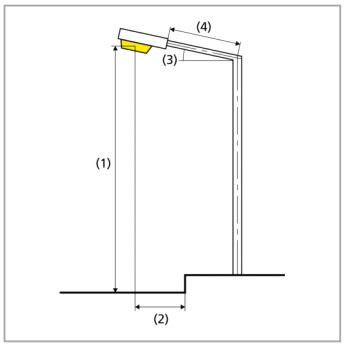




Manufacturer	Not yet a DIALux member
Article No.	Stork Little Brother 30 W 32 LEDs
Article name	SRL 030 740 L22 B032_Bin-N8_TH
Fitting	1x 32 LEDs bin N8

P	30.0 W
Φ_{Lamp}	4440 lm
$\Phi_{Luminaire}$	4440 lm
η	100.00 %

SRL 030 740 L22 B032_Bin-N8_TH (single side bottom)



Pole distance	43.000 m
(1) Light spot height	7.000 m
(2) Light point overhang	-2.483 m
(3) Boom inclination	15.0°
(4) Boom length	0.300 m
Annual operating hours	4000 h: 100.0 %, 30.0 W
Consumption	690.0 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°: 679 cd/klm ≥ 80°: 667 cd/klm ≥ 90°: 71.9 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.5

(Grāveri) Krasta 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	0.45	≥ 0.35	✓
	U_l	0.61	≥ 0.40	✓
	TI	18 %	≤ 20 %	✓
	R_{EI}	0.67	≥ 0.30	✓

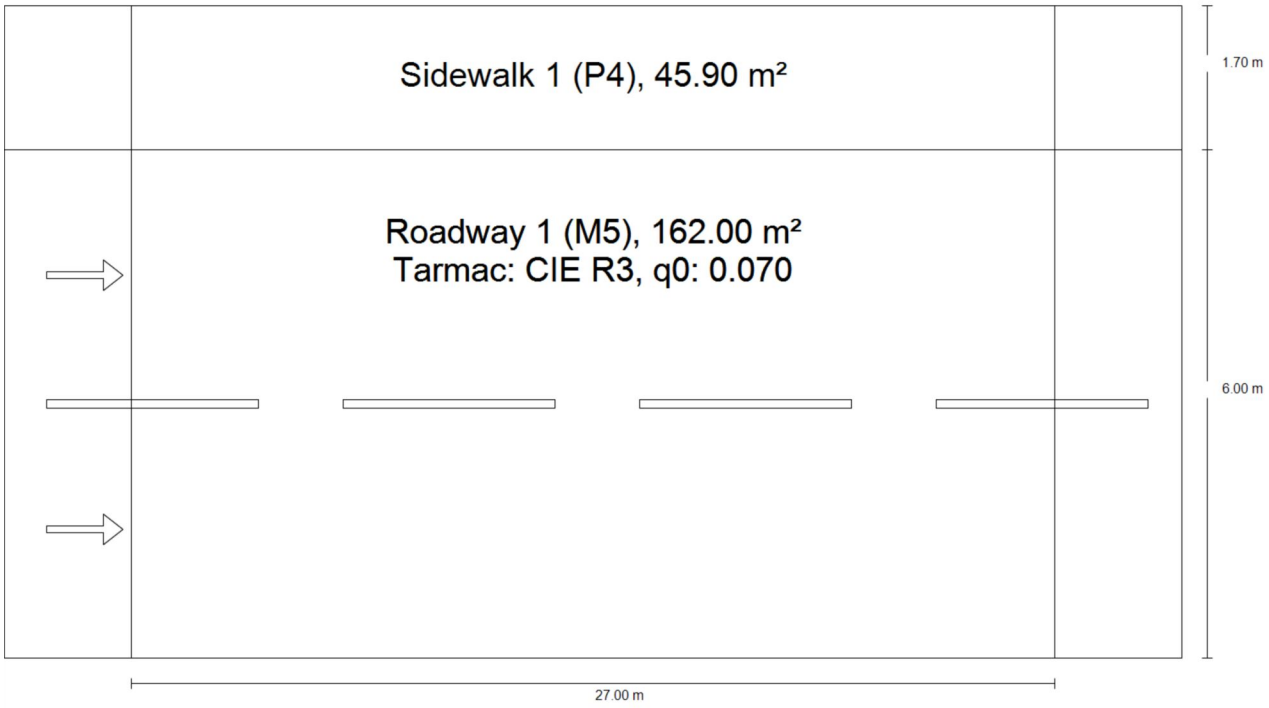
A maintenance factor of 0.80 was used for calculating for the installation.

Results for energy efficiency indicators

	Symbol	Calculated	Consumption
(Grāveri) Krasta iela	D_p	0.023 W/lx*m²	-
SRL 030 740 L22 B032_Bin-N8_TH (single side bottom)	D_e	0.5 kWh/m² yr,	120.0 kWh/yr

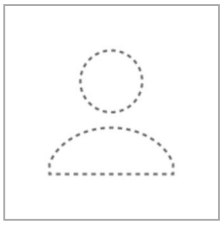
Dzelzceļa iela (No Stacijas ielas līdz 29 mājai)

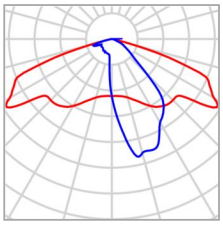
Summary (according to EN 13201:2015)



Dzelzceļa iela (No Stacijas ielas līdz 29 mājai)

Summary (according to EN 13201:2015)

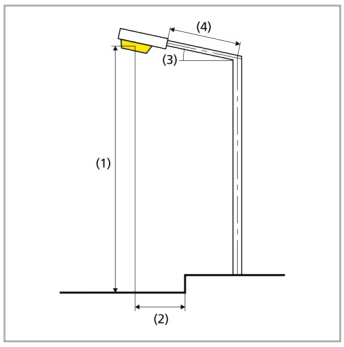




Manufacturer	Not yet a DIALux member
Article No.	Stork Little Brother 40 W 32 LEDs
Article name	SRL 040 740 L04 B032_Bin-N8_TH
Fitting	1x 32 LEDs bin N8

P	40.0 W
Φ_{Lamp}	6149 lm
$\Phi_{Luminaire}$	6149 lm
η	100.00 %

SRL 040 740 L04 B032_Bin-N8_TH (single side bottom)



Pole distance	27.000 m
(1) Light spot height	10.000 m
(2) Light point overhang	-6.007 m
(3) Boom inclination	15.0°
(4) Boom length	1.000 m
Annual operating hours	4000 h: 100.0 %, 40.0 W
Consumption	1480.0 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°: 859 cd/klm ≥ 80°: 342 cd/klm ≥ 90°: 23.0 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

Dzelzceļa iela (No Stacijas ielas līdz 29 mājai)

Summary (according to EN 13201:2015)

Results for valuation fields

	Symbol	Calculated	Target	Check
Sidewalk 1 (P4)	E_{av}	6.00 lx	[5.00 - 7.50] lx	✓
	E_{min}	4.29 lx	≥ 1.00 lx	✓
Roadway 1 (M5)	L_{av}	0.55 cd/m²	≥ 0.50 cd/m²	✓
	U_o	0.60	≥ 0.35	✓
	U_l	0.81	≥ 0.40	✓
	TI	9 %	≤ 15 %	✓
	R_{EI}	1.02	≥ 0.30	✓

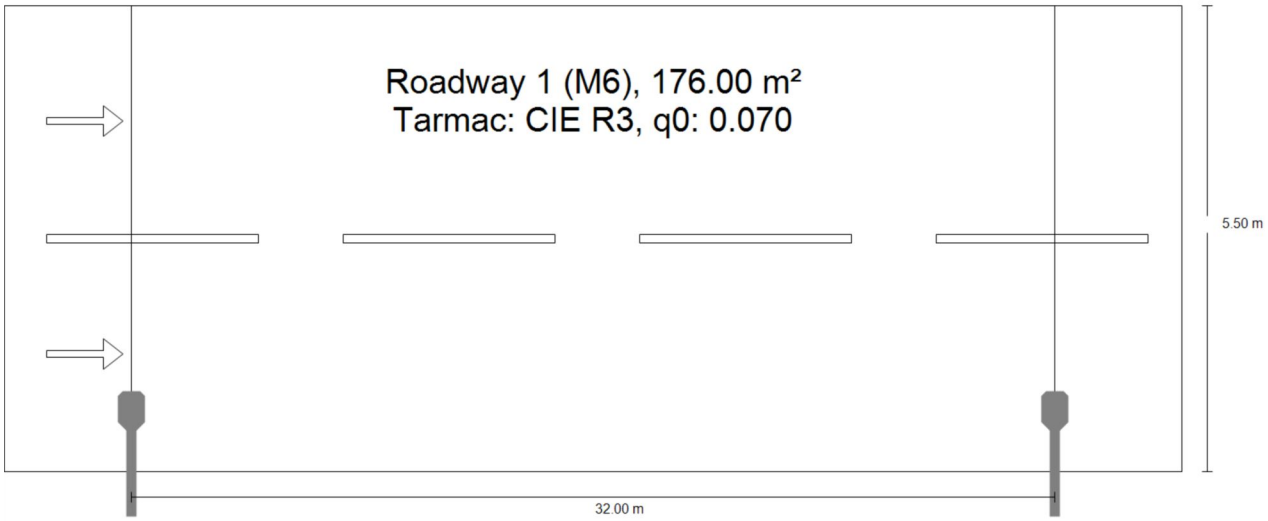
A maintenance factor of 0.80 was used for calculating for the installation.

Results for energy efficiency indicators

	Symbol	Calculated	Consumption
Dzelzceļa iela (No Stacijas ielas līdz 29 mājai)	D_p	0.019 W/lx*m²	-
SRL 040 740 L04 B032_Bin-N8_TH (single side bottom)	D_e	0.8 kWh/m² yr,	160.0 kWh/yr

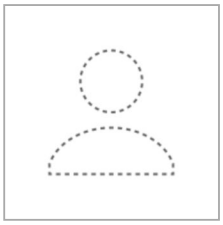
Jelgavas iela (no 4 mājas līdz Strēlnieku ielas krustojumam)

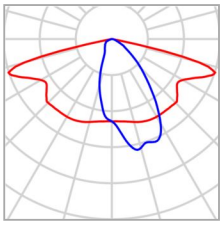
Summary (according to EN 13201:2015)



Jelgavas iela (no 4 mājas līdz Strēlnieku ielas krustojumam)

Summary (according to EN 13201:2015)

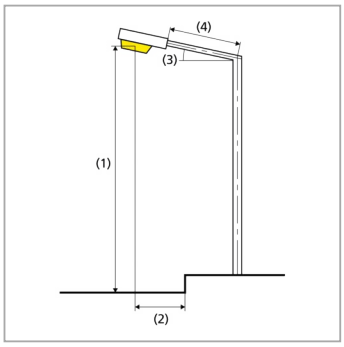




Manufacturer	Not yet a DIALux member
Article No.	Stork Little Sister 15 W 16 LEDs
Article name	SRU 015 740 L90 AA016_Bin-N8_TH
Fitting	1x 16 LEDs bin N8

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	32.000 m
(1) Light spot height	8.000 m
(2) Light point overhang	0.686 m
(3) Boom inclination	5.0°
(4) Boom length	1.200 m
Annual operating hours	4000 h: 100.0 %, 15.0 W
Consumption	465.0 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°: 978 cd/klm ≥ 80°: 51.9 cd/klm ≥ 90°: 1.80 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

Jelgavas iela (no 4 mājas līdz Strēlnieku ielas krustojumam)

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	0.50	≥ 0.35	✓
	U_l	0.79	≥ 0.40	✓
	TI	11 %	≤ 20 %	✓
	R_{EI}	0.33	≥ 0.30	✓

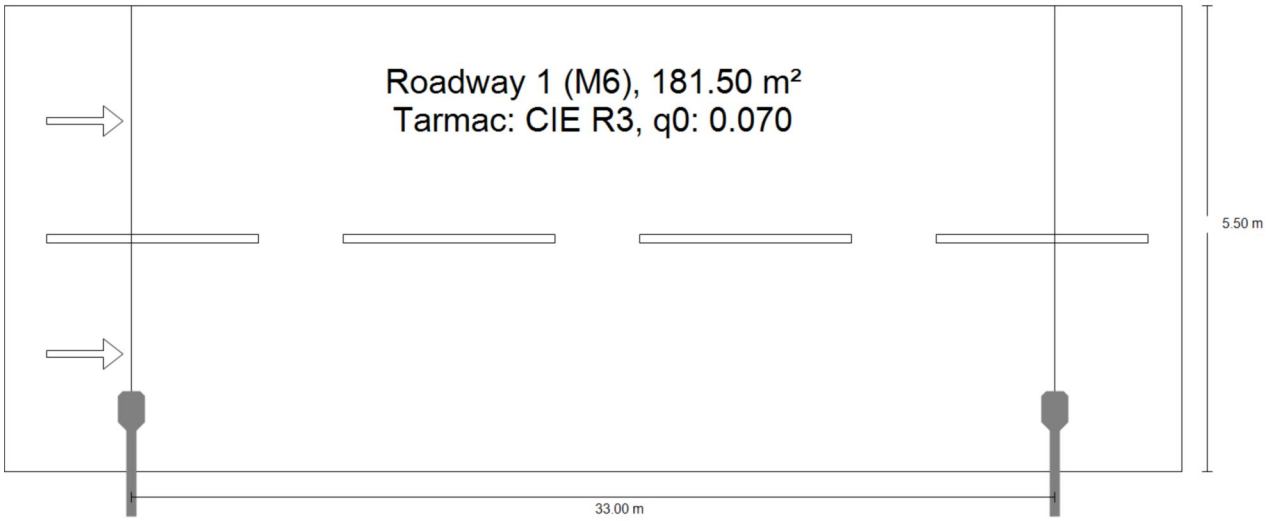
A maintenance factor of 0.80 was used for calculating for the installation.

Results for energy efficiency indicators

	Symbol	Calculated	Consumption
Jelgavas iela (no 4 mājas līdz Strēlnieku ielas krustojumam)	D_p	0.016 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

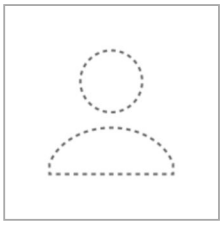
Krustpils iela (no Krus. Dzirnavu ielas līdz Sofijas ielai)

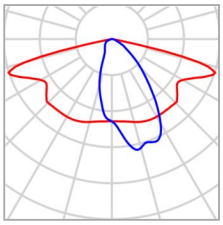
Summary (according to EN 13201:2015)



Krustpils iela (no Krus. Dzirnavu ielas līdz Sofijas ielai)

Summary (according to EN 13201:2015)

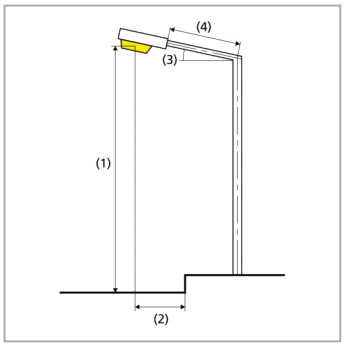




Manufacturer	Not yet a DIALux member
Article No.	Stork Little Sister 15 W 16 LEDs
Article name	SRU 015 740 L90 AA016_Bin-N8_TH
Fitting	1x 16 LEDs bin N8

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	33.000 m
(1) Light spot height	8.000 m
(2) Light point overhang	0.686 m
(3) Boom inclination	5.0°
(4) Boom length	1.200 m
Annual operating hours	4000 h: 100.0 %, 15.0 W
Consumption	450.0 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°: 978 cd/klm ≥ 80°: 51.9 cd/klm ≥ 90°: 1.80 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

Krustpils iela (no Krus. Dzirnavu ielas līdz Sofijas ielai)

Summary (according to EN 13201:2015)

Results for valuation fields

	Symbol	Calculated	Target	Check
Roadway 1 (M6)	L_{av}	0.36 cd/m²	≥ 0.30 cd/m²	✓
	U_o	0.51	≥ 0.35	✓
	U_l	0.83	≥ 0.40	✓
	TI	11 %	≤ 20 %	✓
	R_{EI}	0.33	≥ 0.30	✓

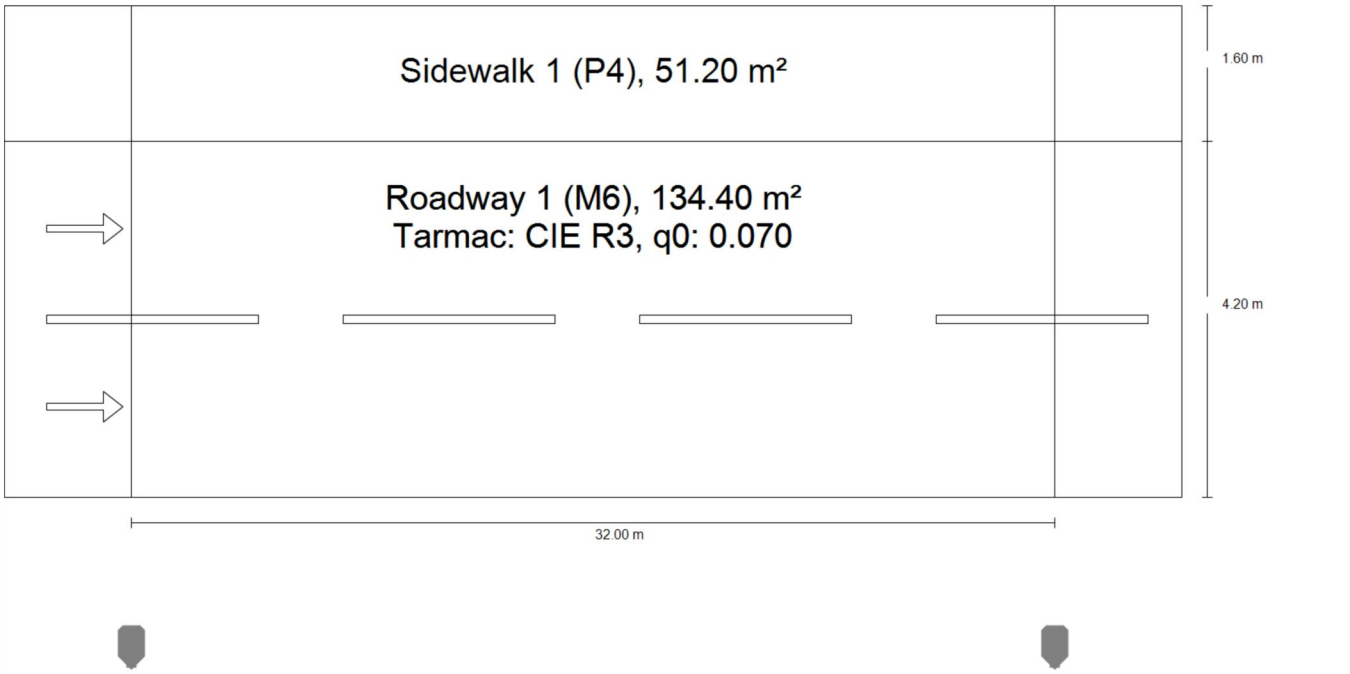
A maintenance factor of 0.80 was used for calculating for the installation.

Results for energy efficiency indicators

	Symbol	Calculated	Consumption
Krustpils iela (no Krus. Dzirnavu ielas līdz Sofijas ielai)	D_p	0.016 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

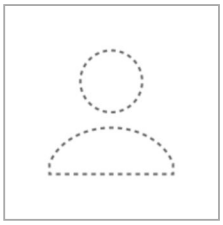
Liepu iela

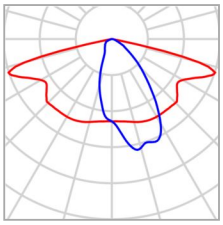
Summary (according to EN 13201:2015)



Liepu iela

Summary (according to EN 13201:2015)

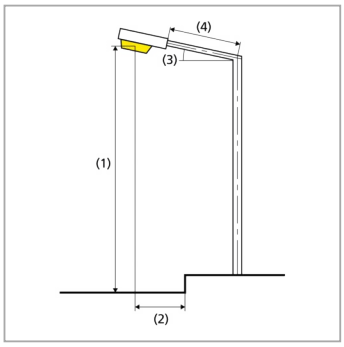




Manufacturer	Not yet a DIALux member
Article No.	Stork Little Sister 15 W 16 LEDs
Article name	SRU 015 740 L90 AA016_Bin-N8_TH
Fitting	user-defined

P	15.0 W
Φ_{Lamp}	3500 lm
$\Phi_{Luminaire}$	3500 lm
η	100.00 %

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



Pole distance	32.000 m
(1) Light spot height	9.500 m
(2) Light point overhang	-1.774 m
(3) Boom inclination	20.0°
(4) Boom length	0.200 m
Annual operating hours	4000 h: 100.0 %, 15.0 W
Consumption	465.0 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°: 978 cd/klm ≥ 80°: 538 cd/klm ≥ 90°: 24.3 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

Liepu iela

Summary (according to EN 13201:2015)

Results for valuation fields

	Symbol	Calculated	Target	Check
Sidewalk 1 (P4)	E_{av}	6.51 lx	[5.00 - 7.50] lx	✓
	E_{min}	4.26 lx	≥ 1.00 lx	✓
Roadway 1 (M6)	L_{av}	0.36 cd/m²	≥ 0.30 cd/m²	✓
	U_o	0.62	≥ 0.35	✓
	U_l	0.61	≥ 0.40	✓
	TI	10 %	≤ 20 %	✓
	R_{EI}	0.55	≥ 0.30	✓

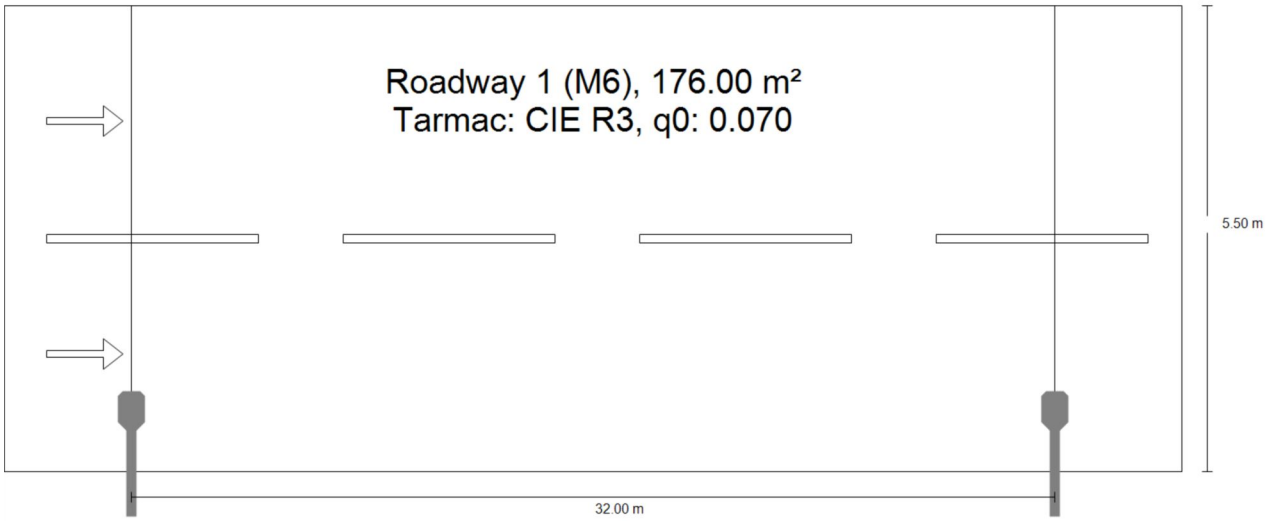
A maintenance factor of 0.80 was used for calculating for the installation.

Results for energy efficiency indicators

	Symbol	Calculated	Consumption
Liepu iela	D_p	0.013 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

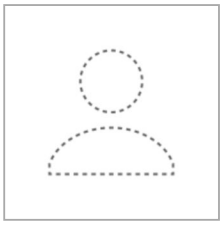
Sofijas iela

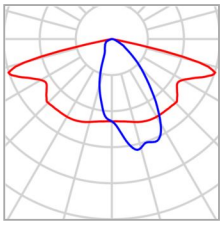
Summary (according to EN 13201:2015)



Sofijas iela

Summary (according to EN 13201:2015)

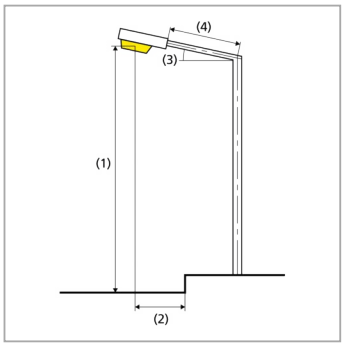




Manufacturer	Not yet a DIALux member
Article No.	Stork Little Sister 15 W 16 LEDs
Article name	SRU 015 740 L90 AA016_Bin-N8_TH
Fitting	1x 16 LEDs bin N8

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	32.000 m
(1) Light spot height	8.000 m
(2) Light point overhang	0.686 m
(3) Boom inclination	5.0°
(4) Boom length	1.200 m
Annual operating hours	4000 h: 100.0 %, 15.0 W
Consumption	465.0 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°: 978 cd/klm ≥ 80°: 51.9 cd/klm ≥ 90°: 1.80 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

Sofijas 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	0.50	≥ 0.35	✓
	U_l	0.79	≥ 0.40	✓
	TI	11 %	≤ 20 %	✓
	R_{EI}	0.33	≥ 0.30	✓

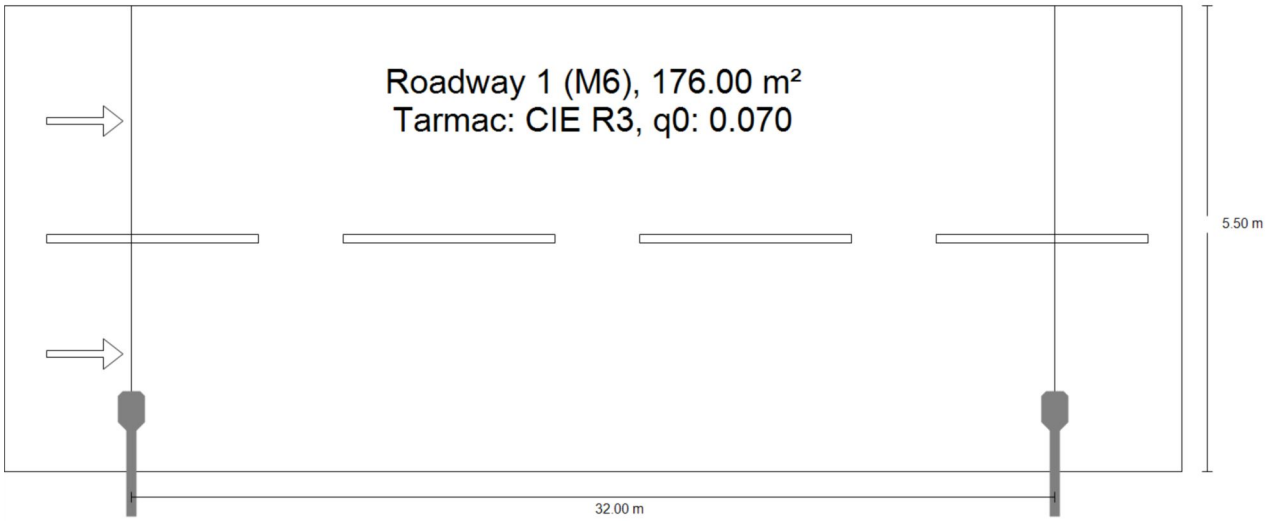
A maintenance factor of 0.80 was used for calculating for the installation.

Results for energy efficiency indicators

	Symbol	Calculated	Consumption
Sofijas iela	D_p	0.016 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

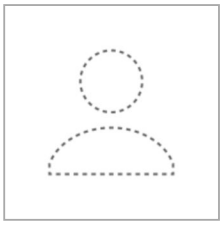
Strēlnieku iela 3

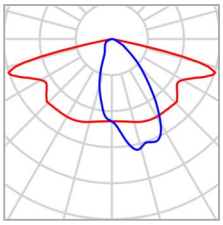
Summary (according to EN 13201:2015)



Strēlnieku iela 3

Summary (according to EN 13201:2015)

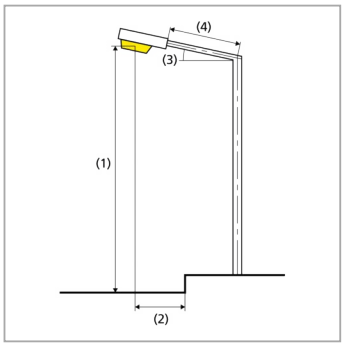




Manufacturer	Not yet a DIALux member
Article No.	Stork Little Sister 15 W 16 LEDs
Article name	SRU 015 740 L90 AA016_Bin-N8_TH
Fitting	1x 16 LEDs bin N8

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	32.000 m
(1) Light spot height	8.000 m
(2) Light point overhang	0.686 m
(3) Boom inclination	5.0°
(4) Boom length	1.200 m
Annual operating hours	4000 h: 100.0 %, 15.0 W
Consumption	465.0 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°: 978 cd/klm ≥ 80°: 51.9 cd/klm ≥ 90°: 1.80 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

Strēlnieku iela 3

Summary (according to EN 13201:2015)

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

Results for energy efficiency indicators

	Symbol	Calculated	Consumption
Strēlnieku iela 3	D_p	0.016 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