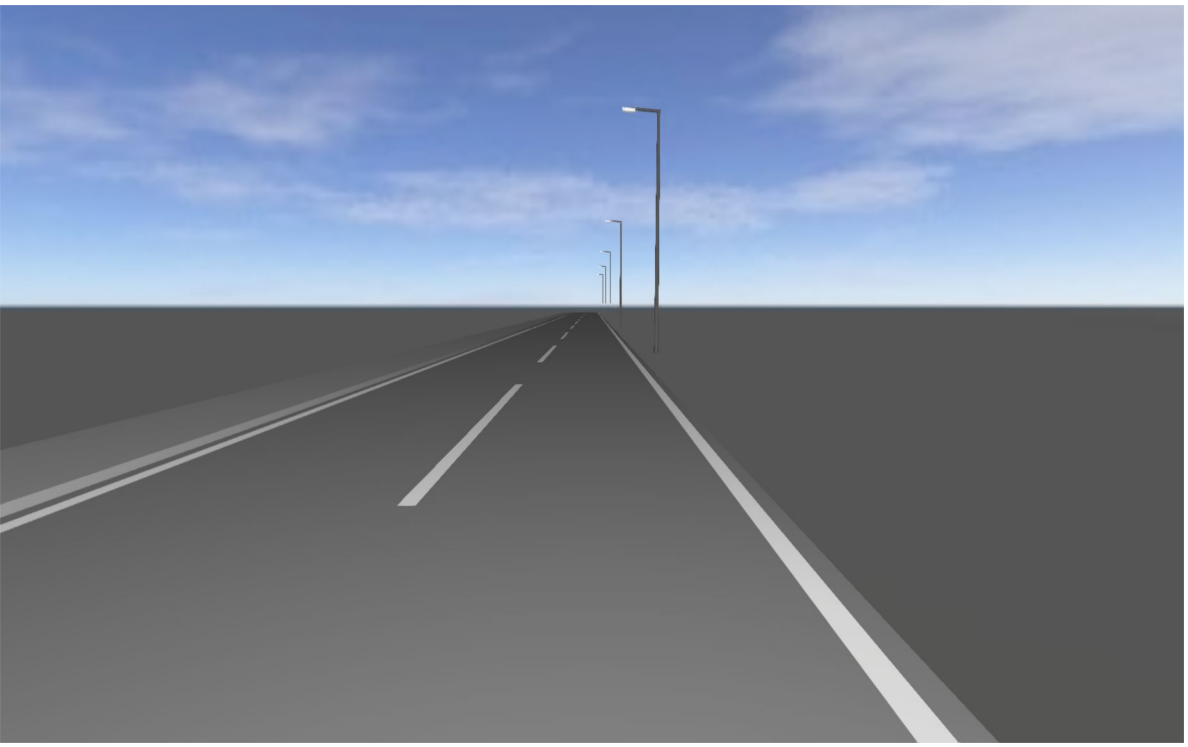


Līvānu pilsētas ielu apgaismojuma aprēķini

4. daļa

Created with DIALux

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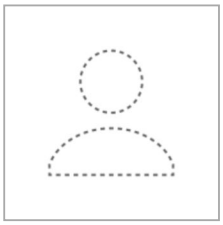
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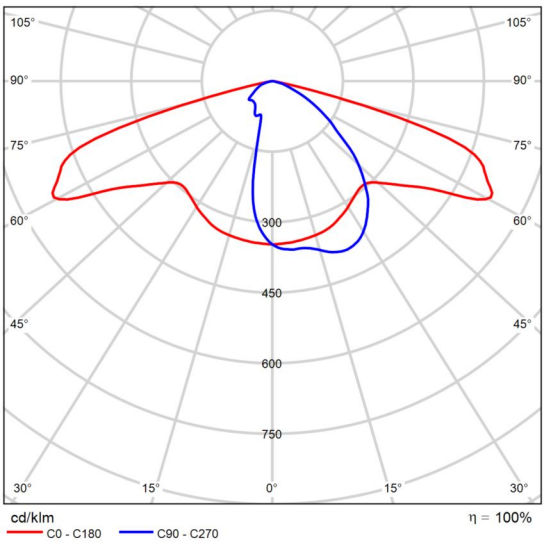
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Product data sheet

Not yet a DIALux member - SRL 025 740 L02 B016_Bin-N8_TH



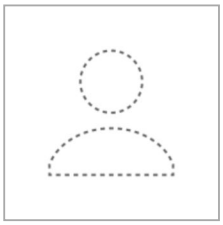
Article No.	Stork Little Brother 25 W 16 LEDs
P	25.0 W
Φ_{Lamp}	3521 lm
$\Phi_{Luminaire}$	3521 lm
η	100.00 %
Luminous efficacy	140.8 lm/W
CCT	4000 K
CRI	70



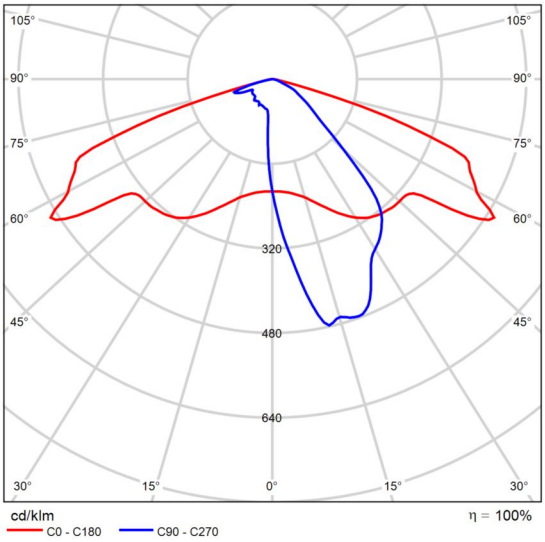
Polar LDC

Product data sheet

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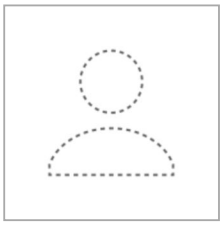
Article No.	Stork Little Brother 25 W 16 LEDs
P	25.0 W
Φ_{Lamp}	3558 lm
$\Phi_{Luminaire}$	3558 lm
η	100.00 %
Luminous efficacy	142.3 lm/W
CCT	4000 K
CRI	70



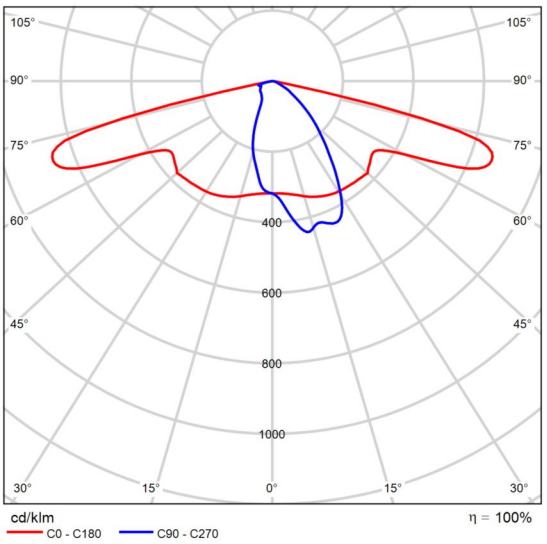
Polar LDC

Product data sheet

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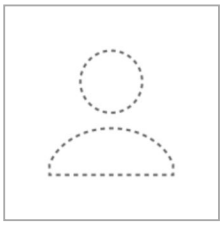
Article No.	Stork Little Brother 25 W 16 LEDs
P	25.0 W
Φ_{Lamp}	3511 lm
$\Phi_{Luminaire}$	3511 lm
η	100.00 %
Luminous efficacy	140.4 lm/W
CCT	4000 K
CRI	70



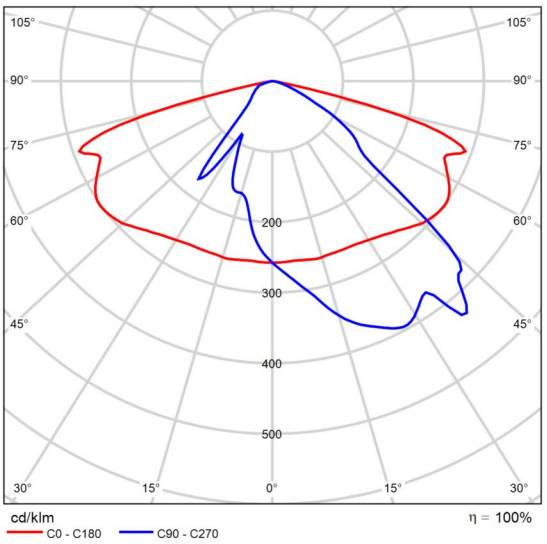
Polar LDC

Product data sheet

Not yet a DIALux member - SRL 035 740 L17 B016_Bin-N8_TH



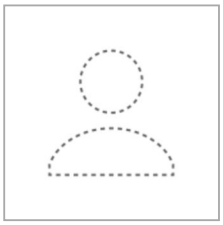
Article No.	Stork Little Brother 35 W 16 LEDs
P	35.0 W
Φ_{Lamp}	4801 lm
$\Phi_{Luminaire}$	4801 lm
η	100.00 %
Luminous efficacy	137.2 lm/W
CCT	4000 K
CRI	70



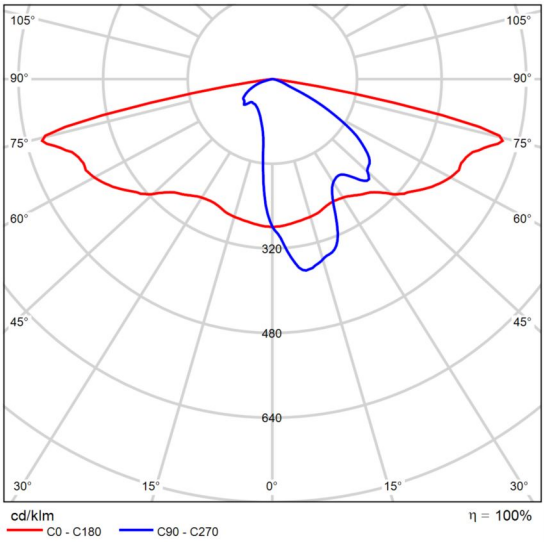
Polar LDC

Product data sheet

Not yet a DIALux member - SRL 060 740 L22 B032_Bin-N8_TH



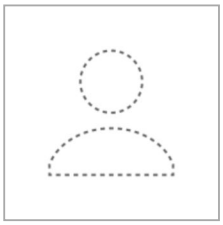
Article No.	Stork Little Brother 60 W 32 LEDs
P	60.0 W
Φ_{Lamp}	8300 lm
$\Phi_{Luminaire}$	8300 lm
η	100.00 %
Luminous efficacy	138.3 lm/W
CCT	4000 K
CRI	70



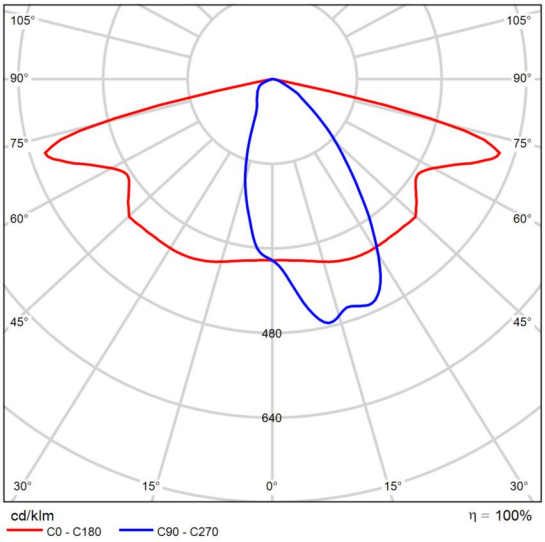
Polar LDC

Product data sheet

Not yet a DIALux member - SRU 020 740 L90 AA016_Bin-N8_TH



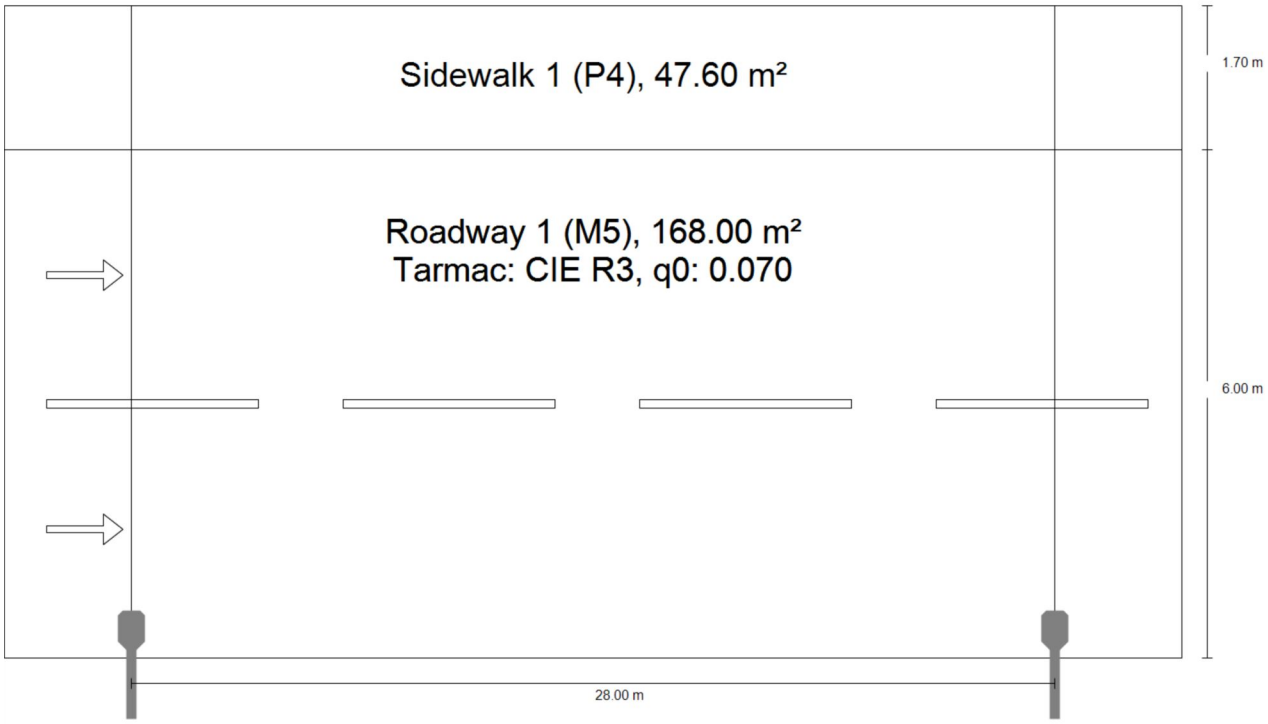
Article No.	Stork Little Sister 20 W 16 LEDs
P	20.0 W
Φ_{Lamp}	2923 lm
$\Phi_{Luminaire}$	2923 lm
η	100.00 %
Luminous efficacy	146.1 lm/W
CCT	4000 K
CRI	70



Polar LDC

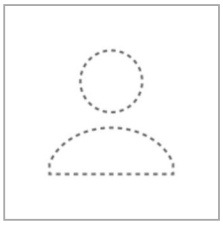
Dzelzceļa iela (No Liepu ielas līdz 29 mājai)

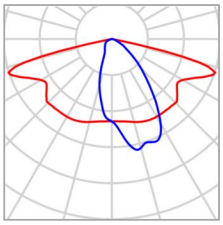
Summary (according to EN 13201:2015)



Dzelzceļa iela (No Liepu ielas līdz 29 mājai)

Summary (according to EN 13201:2015)

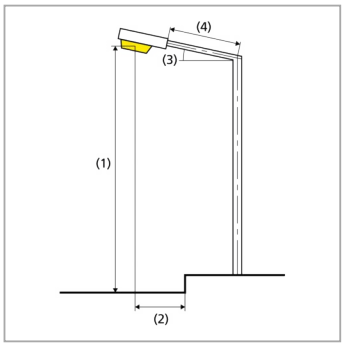




Manufacturer	Not yet a DIALux member
Article No.	Stork Little Sister 20 W 16 LEDs
Article name	SRU 020 740 L90 AA016_Bin-N8_TH
Fitting	1x 16 LEDs bin N8

P	20.0 W
Φ_{Lamp}	2923 lm
$\Phi_{Luminaire}$	2923 lm
η	100.00 %

SRU 020 740 L90 AA016_Bin-N8_TH (single side bottom)



Pole distance	28.000 m
(1) Light spot height	8.000 m
(2) Light point overhang	0.300 m
(3) Boom inclination	5.0°
(4) Boom length	1.000 m
Annual operating hours	4000 h: 100.0 %, 20.0 W
Consumption	720.0 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

Dzelzceļa iela (No Liepu ielas līdz 29 mājai)

Summary (according to EN 13201:2015)

Results for valuation fields

	Symbol	Calculated	Target	Check
Sidewalk 1 (P4)	E_{av}	5.10 lx	[5.00 - 7.50] lx	✓
	E_{min}	3.09 lx	≥ 1.00 lx	✓
Roadway 1 (M5)	L_{av}	0.56 cd/m²	≥ 0.50 cd/m²	✓
	U_o	0.65	≥ 0.35	✓
	U_l	0.78	≥ 0.40	✓
	TI	9 %	≤ 15 %	✓
	R_{EI}	0.35	≥ 0.30	✓

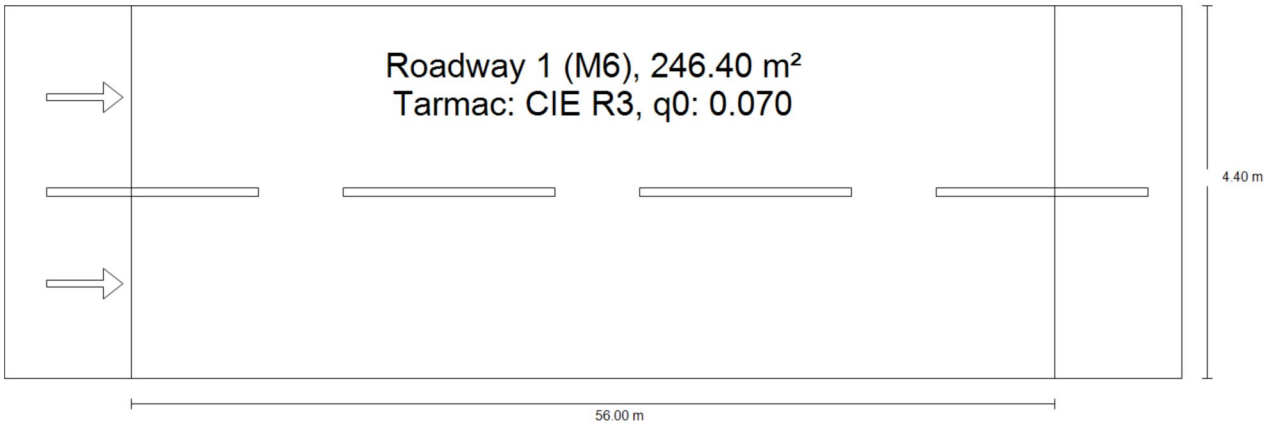
A maintenance factor of 0.80 was used for calculating for the installation.

Results for energy efficiency indicators

	Symbol	Calculated	Consumption
Dzelzceļa iela (No Liepu ielas līdz 29 mājai)	D_p	0.012 W/lx*m²	-
SRU 020 740 L90 AA016_Bin-N8_TH (single side bottom)	D_e	0.4 kWh/m² yr,	80.0 kWh/yr

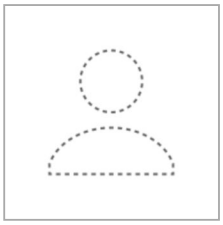
Kalnu iela (no Robežu ielas pagrieziena līdz ielas galam)

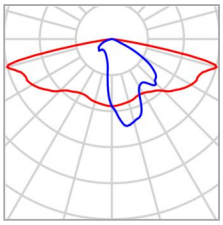
Summary (according to EN 13201:2015)



Kalnu iela (no Robežu ielas pagrieziena līdz ielas galam)

Summary (according to EN 13201:2015)



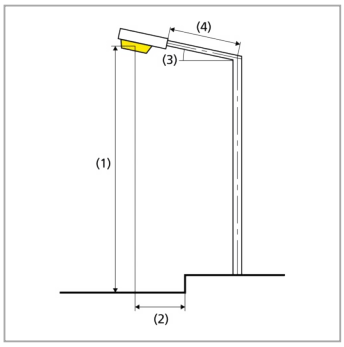


Manufacturer	Not yet a DIALux member
Article No.	Stork Little Brother 60 W 32 LEDs
Article name	SRL 060 740 L22 B032_Bin-N8_TH
Fitting	1x 32 LEDs bin N8

P	60.0 W
Φ_{Lamp}	8300 lm
$\Phi_{Luminaire}$	8300 lm
η	100.00 %

SRL 060 740 L22 B032_Bin-N8_TH (single side bottom)

Pole distance	56.000 m
(1) Light spot height	8.000 m
(2) Light point overhang	-5.276 m
(3) Boom inclination	20.0°
(4) Boom length	0.200 m
Annual operating hours	4000 h: 100.0 %, 60.0 W
Consumption	1080.0 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°: 665 cd/klm ≥ 80°: 683 cd/klm ≥ 90°: 107 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.4



Kalnu iela (no Robežu ielas pagrieziena līdz ielas galam)

Summary (according to EN 13201:2015)

Results for valuation fields

	Symbol	Calculated	Target	Check
Roadway 1 (M6)	L_{av}	0.33 cd/m²	≥ 0.30 cd/m²	✓
	U_o	0.60	≥ 0.35	✓
	U_l	0.55	≥ 0.40	✓
	TI	20 %	≤ 20 %	✓
	R_{EI}	0.73	≥ 0.30	✓

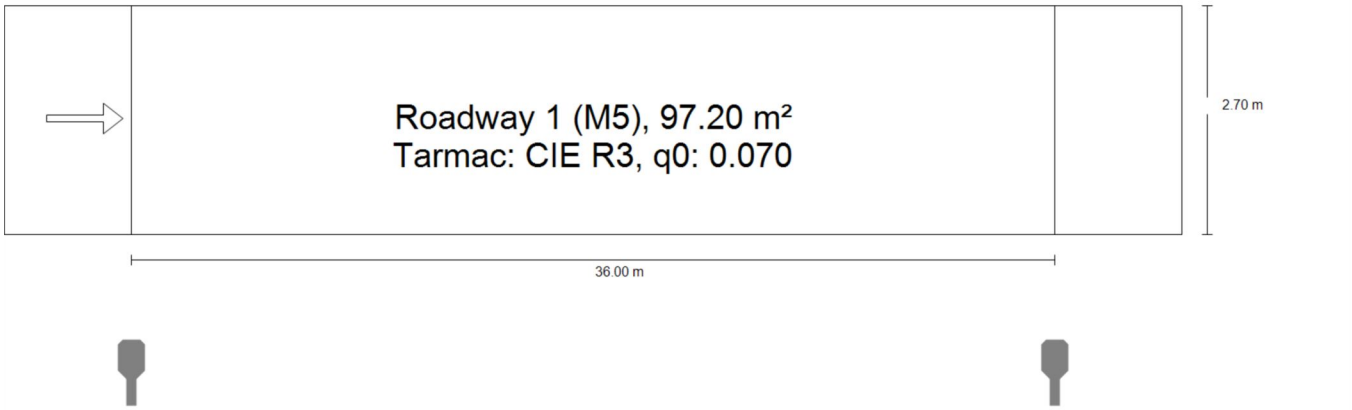
A maintenance factor of 0.80 was used for calculating for the installation.

Results for energy efficiency indicators

	Symbol	Calculated	Consumption
Kalnu iela (no Robežu ielas pagrieziena līdz ielas galam)	D_p	0.041 W/lx*m²	-
SRL 060 740 L22 B032_Bin-N8_TH (single side bottom)	D_e	1.0 kWh/m² yr,	240.0 kWh/yr

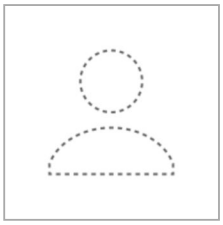
Krustpils iela (no 91 mājas līdz Dzirnavu ielai)

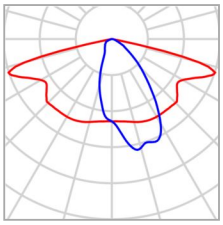
Summary (according to EN 13201:2015)



Krustpils iela (no 91 mājas līdz Dzirnavu ielai)

Summary (according to EN 13201:2015)

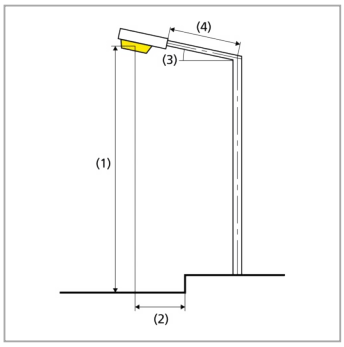




Manufacturer	Not yet a DIALux member
Article No.	Stork Little Sister 20 W 16 LEDs
Article name	SRU 020 740 L90 AA016_Bin-N8_TH
Fitting	1x 16 LEDs bin N8

P	20.0 W
Φ_{Lamp}	2923 lm
$\Phi_{Luminaire}$	2923 lm
η	100.00 %

SRU 020 740 L90 AA016_Bin-N8_TH (single side bottom)



Pole distance	36.000 m
(1) Light spot height	7.000 m
(2) Light point overhang	-1.500 m
(3) Boom inclination	5.0°
(4) Boom length	0.500 m
Annual operating hours	4000 h: 100.0 %, 20.0 W
Consumption	560.0 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 91 mājas līdz Dzirnavu ielai)

Summary (according to EN 13201:2015)

Results for valuation fields

	Symbol	Calculated	Target	Check
Roadway 1 (M5)	L_{av}	0.56 cd/m²	≥ 0.50 cd/m²	✓
	U_o	0.63	≥ 0.35	✓
	U_l	0.56	≥ 0.40	✓
	TI	15 %	≤ 15 %	✓
	R_{EI}	0.60	≥ 0.30	✓

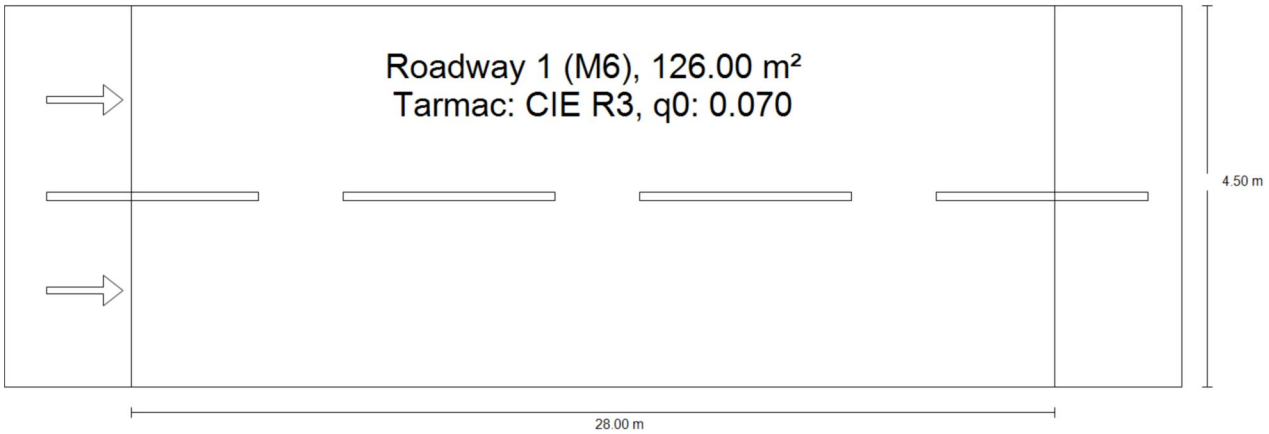
A maintenance factor of 0.80 was used for calculating for the installation.

Results for energy efficiency indicators

	Symbol	Calculated	Consumption
Krustpils iela (no 91 mājas līdz Dzirnavu ielai)	D_p	0.025 W/lx*m²	-
SRU 020 740 L90 AA016_Bin-N8_TH (single side bottom)	D_e	0.8 kWh/m² yr,	80.0 kWh/yr

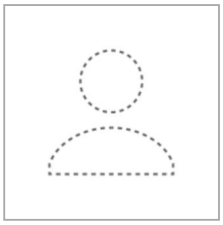
Robežu iela (no 13 mājas)

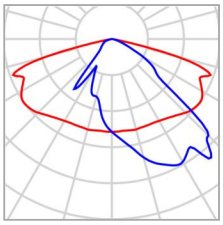
Summary (according to EN 13201:2015)



Robežu iela (no 13 mājas)

Summary (according to EN 13201:2015)

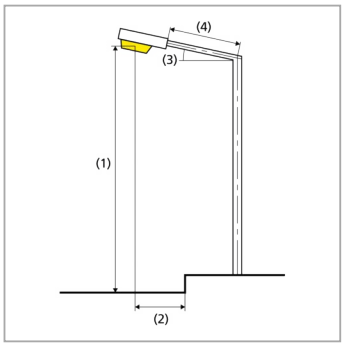




Manufacturer	Not yet a DIALux member
Article No.	Stork Little Brother 35 W 16 LEDs
Article name	SRL 035 740 L17 B016_Bin-N8_TH
Fitting	1x 16 LEDs bin N8

P	35.0 W
Φ_{Lamp}	4801 lm
$\Phi_{Luminaire}$	4801 lm
η	100.00 %

SRL 035 740 L17 B016_Bin-N8_TH (single side bottom)



Pole distance	28.000 m
(1) Light spot height	8.000 m
(2) Light point overhang	-6.490 m
(3) Boom inclination	15.0°
(4) Boom length	0.500 m
Annual operating hours	4000 h: 100.0 %, 35.0 W
Consumption	1260.0 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°: 874 cd/klm ≥ 80°: 660 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

Robežu iela (no 13 mājas)

Summary (according to EN 13201:2015)

Results for valuation fields

	Symbol	Calculated	Target	Check
Roadway 1 (M6)	L_{av}	0.32 cd/m²	≥ 0.30 cd/m²	✓
	U_o	0.86	≥ 0.35	✓
	U_l	0.86	≥ 0.40	✓
	TI	10 %	≤ 20 %	✓
	R_{EI}	0.82	≥ 0.30	✓

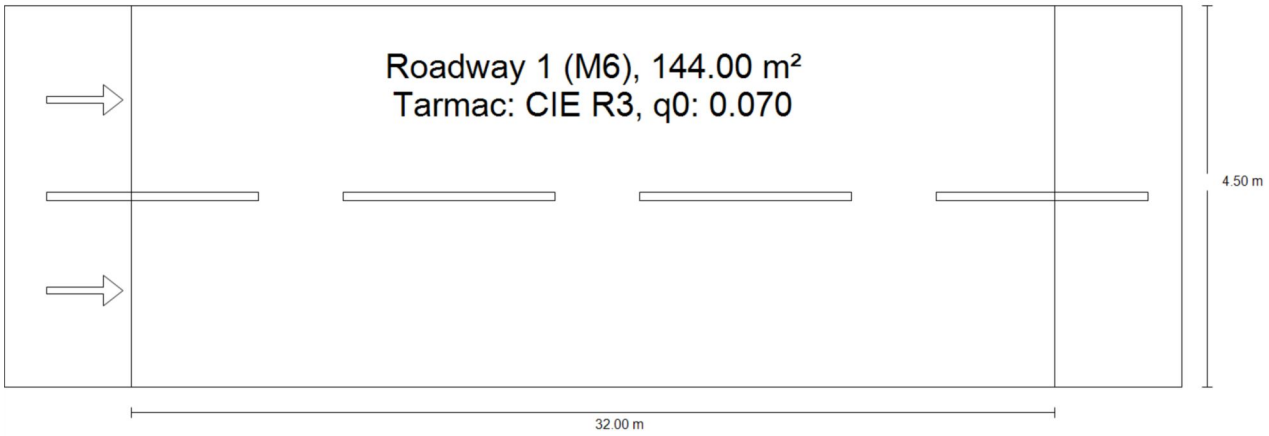
A maintenance factor of 0.80 was used for calculating for the installation.

Results for energy efficiency indicators

	Symbol	Calculated	Consumption
Robežu iela (no 13 mājas)	D_p	0.042 W/lx*m²	-
SRL 035 740 L17 B016_Bin-N8_TH (single side bottom)	D_e	1.1 kWh/m² yr,	140.0 kWh/yr

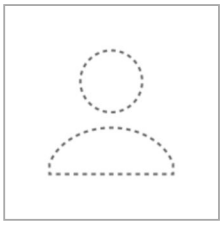
Robežu iela (no Rīgas ielas)

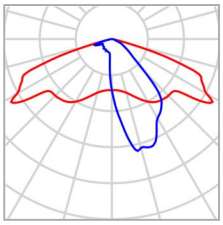
Summary (according to EN 13201:2015)



Robežu iela (no Rīgas ielas)

Summary (according to EN 13201:2015)

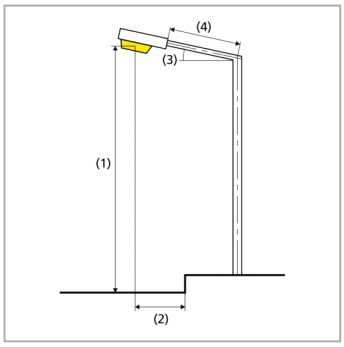




Manufacturer	Not yet a DIALux member
Article No.	Stork Little Brother 25 W 16 LEDs
Article name	SRL 025 740 L04 B016_Bin-N8_TH
Fitting	1x 16 LEDs bin N8

P	25.0 W
Φ_{Lamp}	3558 lm
$\Phi_{Luminaire}$	3558 lm
η	100.00 %

SRL 025 740 L04 B016_Bin-N8_TH (single side bottom)



Pole distance	32.000 m
(1) Light spot height	8.000 m
(2) Light point overhang	-5.776 m
(3) Boom inclination	15.0°
(4) Boom length	0.200 m
Annual operating hours	4000 h: 100.0 %, 25.0 W
Consumption	775.0 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°: 825 cd/klm ≥ 80°: 329 cd/klm ≥ 90°: 22.6 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

Robežu iela (no Rīgas ielas)

Summary (according to EN 13201:2015)

Results for valuation fields

	Symbol	Calculated	Target	Check
Roadway 1 (M6)	L_{av}	0.30 cd/m²	≥ 0.30 cd/m²	✓
	U_o	0.56	≥ 0.35	✓
	U_l	0.69	≥ 0.40	✓
	TI	11 %	≤ 20 %	✓
	R_{EI}	0.57	≥ 0.30	✓

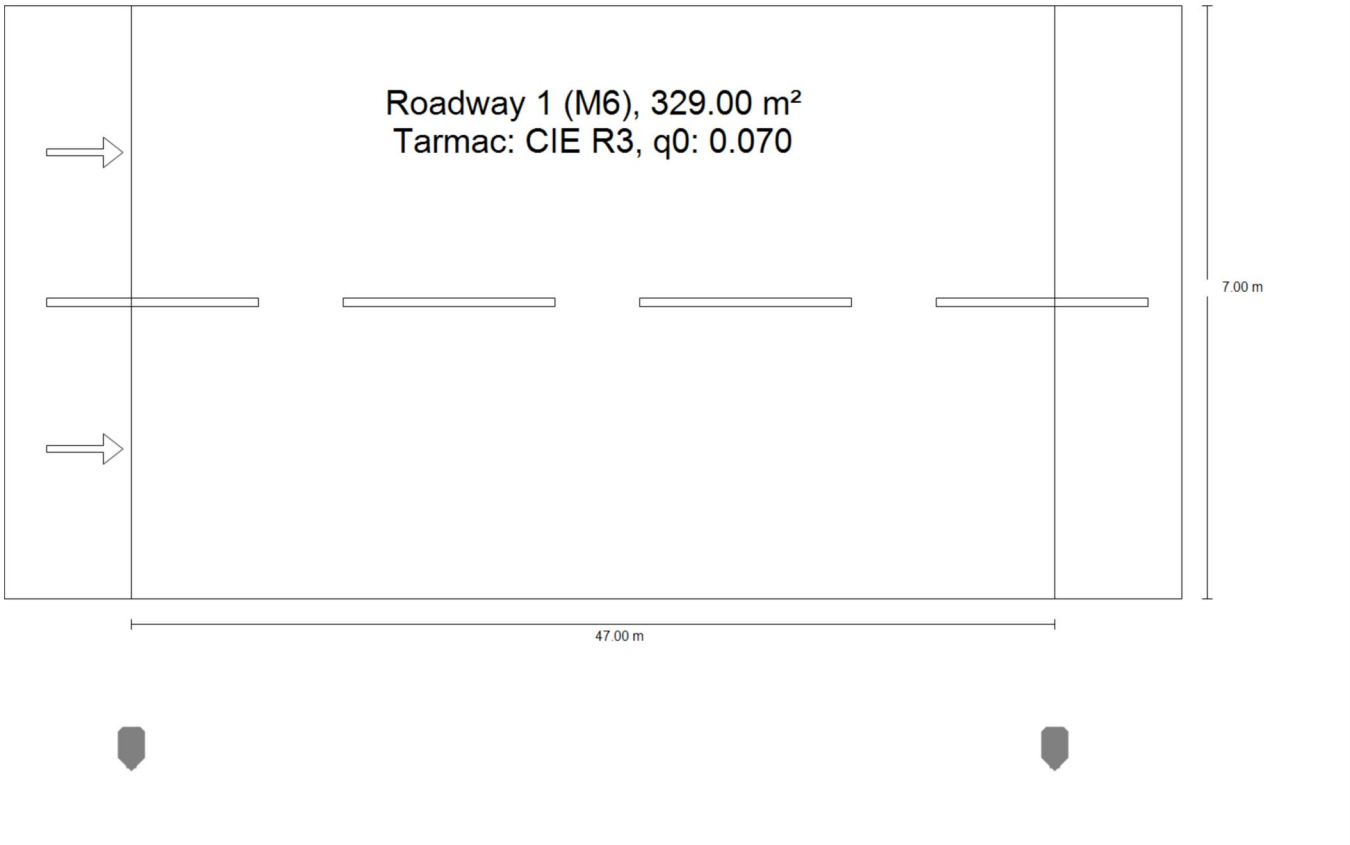
A maintenance factor of 0.80 was used for calculating for the installation.

Results for energy efficiency indicators

	Symbol	Calculated	Consumption
Robežu iela (no Rīgas ielas)	D_p	0.029 W/lx*m²	-
SRL 025 740 L04 B016_Bin-N8_TH (single side bottom)	D_e	0.7 kWh/m² yr,	100.0 kWh/yr

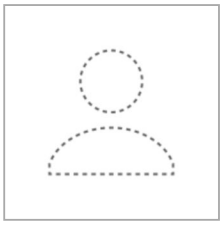
Vecbaznīcas iela(no Rīgas ielas)

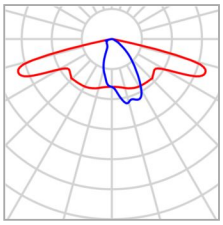
Summary (according to EN 13201:2015)



Vecbaznīcas iela(no Rīgas ielas)

Summary (according to EN 13201:2015)

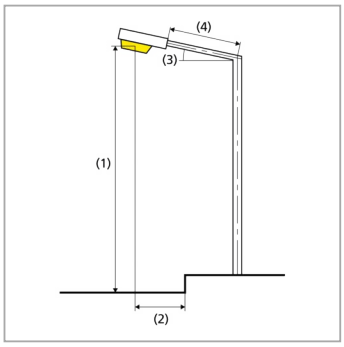




Manufacturer	Not yet a DIALux member
Article No.	Stork Little Brother 25 W 16 LEDs
Article name	SRL 025 740 L90 B016_Bin-N8_TH
Fitting	1x 16 LEDs bin N8

P	25.0 W
Φ_{Lamp}	3511 lm
$\Phi_{Luminaire}$	3511 lm
η	100.00 %

SRL 025 740 L90 B016_Bin-N8_TH (single side bottom)



Pole distance	47.000 m
(1) Light spot height	8.400 m
(2) Light point overhang	-1.774 m
(3) Boom inclination	15.0°
(4) Boom length	0.200 m
Annual operating hours	4000 h: 100.0 %, 25.0 W
Consumption	525.0 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

Vecbaznīcas iela(no Rīgas ielas)

Summary (according to EN 13201:2015)

Results for valuation fields

	Symbol	Calculated	Target	Check
Roadway 1 (M6)	L_{av}	0.30 cd/m²	≥ 0.30 cd/m²	✓
	U_o	0.50	≥ 0.35	✓
	U_l	0.56	≥ 0.40	✓
	TI	18 %	≤ 20 %	✓
	R_{EI}	0.48	≥ 0.30	✓

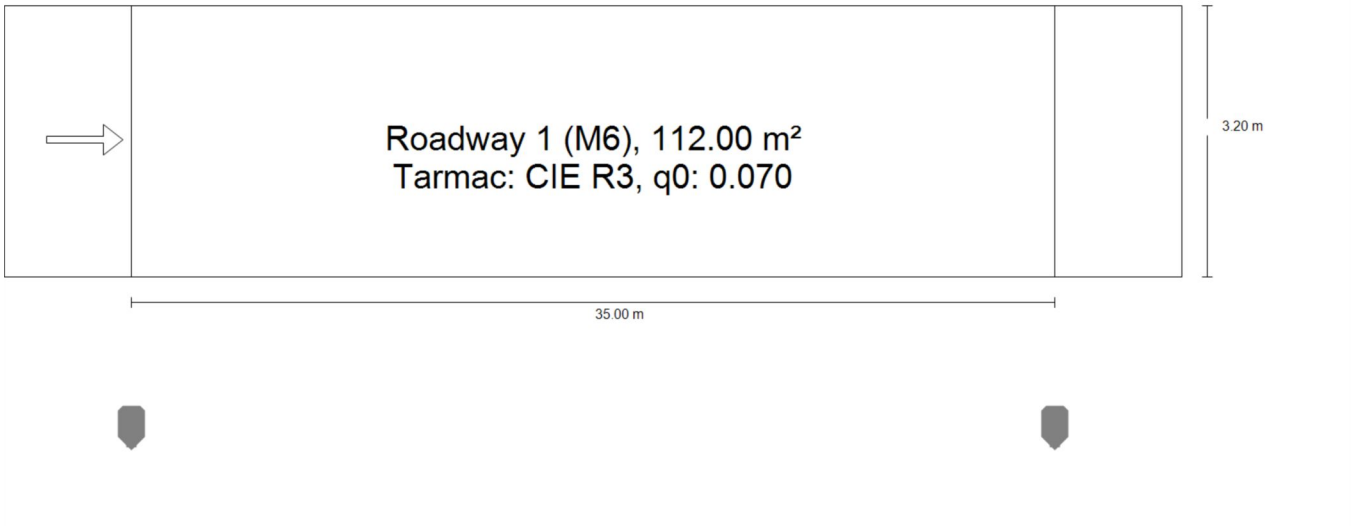
A maintenance factor of 0.80 was used for calculating for the installation.

Results for energy efficiency indicators

	Symbol	Calculated	Consumption
Vecbaznīcas iela(no Rīgas ielas)	D_p	0.016 W/lx*m²	-
SRL 025 740 L90 B016_Bin-N8_TH (single side bottom)	D_e	0.3 kWh/m² yr,	100.0 kWh/yr

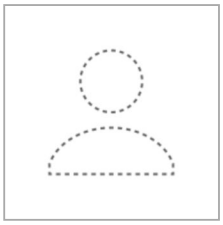
Vecskolas iela (no Ezera ielas)

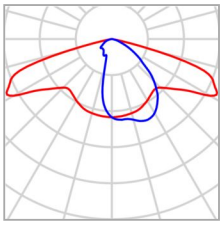
Summary (according to EN 13201:2015)



Vecskolas iela (no Ezera ielas)

Summary (according to EN 13201:2015)

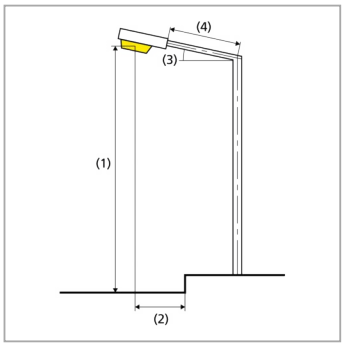




Manufacturer	Not yet a DIALux member
Article No.	Stork Little Brother 25 W 16 LEDs
Article name	SRL 025 740 L02 B016_Bin-N8_TH
Fitting	1x 16 LEDs bin N8

P	25.0 W
Φ_{Lamp}	3521 lm
$\Phi_{Luminaire}$	3521 lm
η	100.00 %

SRL 025 740 L02 B016_Bin-N8_TH (single side bottom)



Pole distance	35.000 m
(1) Light spot height	6.500 m
(2) Light point overhang	-1.775 m
(3) Boom inclination	35.0°
(4) Boom length	0.200 m
Annual operating hours	4000 h: 100.0 %, 25.0 W
Consumption	725.0 W/km
ULR / ULOR	0.07 / 0.00
Max. luminous intensities Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.	≥ 70°: 567 cd/klm ≥ 80°: 563 cd/klm ≥ 90°: 335 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

Vecskolas iela (no Ezera ielas)

Summary (according to EN 13201:2015)

Results for valuation fields

	Symbol	Calculated	Target	Check
Roadway 1 (M6)	L_{av}	0.33 cd/m²	≥ 0.30 cd/m²	✓
	U_o	0.51	≥ 0.35	✓
	U_l	0.47	≥ 0.40	✓
	TI	16 %	≤ 20 %	✓
	R_{EI}	0.38	≥ 0.30	✓

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

Results for energy efficiency indicators

	Symbol	Calculated	Consumption
Vecskolas iela (no Ezera ielas)	D_p	0.045 W/lx*m²	-
SRL 025 740 L02 B016_Bin-N8_TH (single side bottom)	D_e	0.9 kWh/m² yr,	100.0 kWh/yr