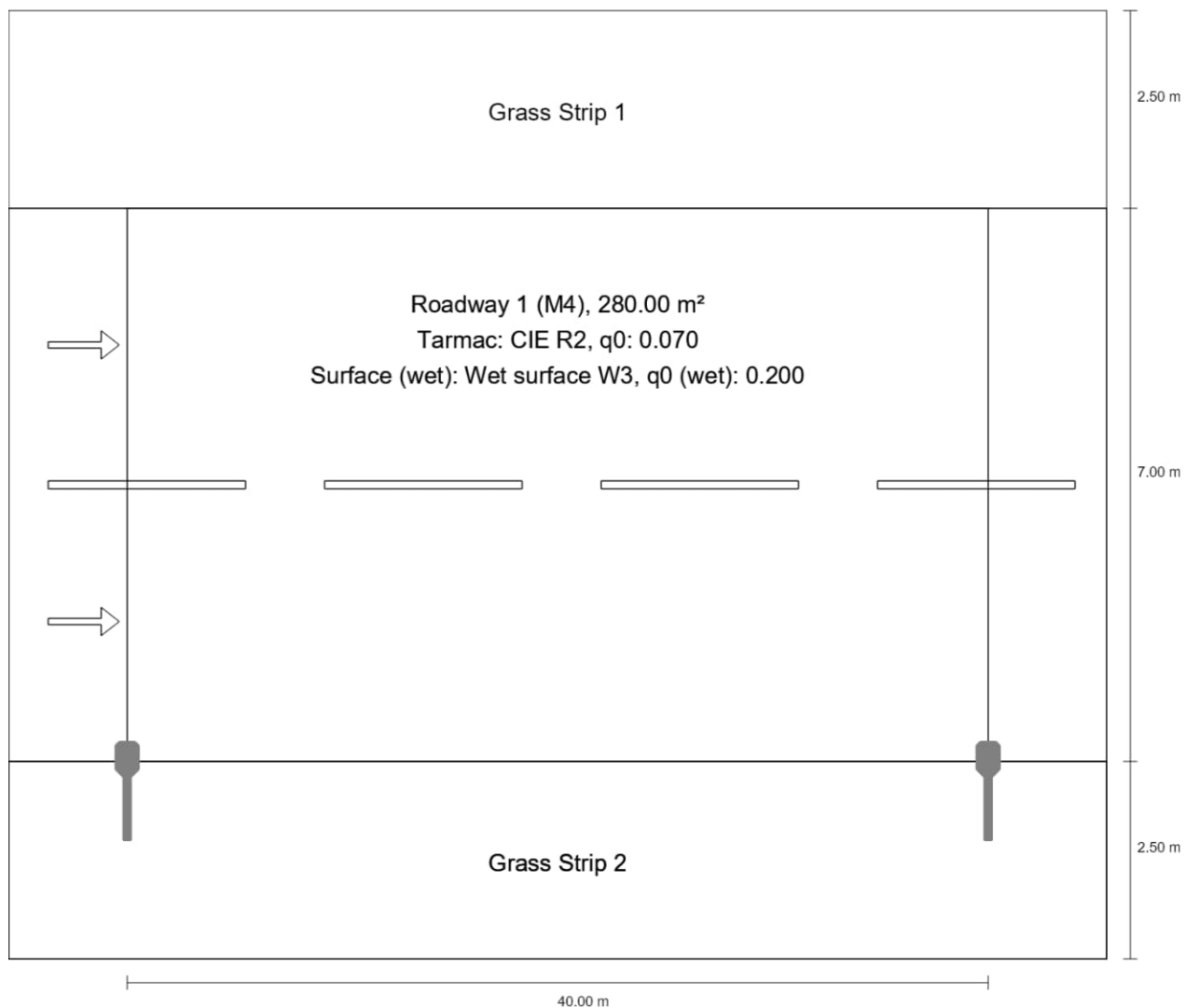
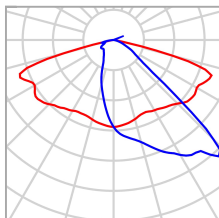


Ilkantie, M4

Summary (according to EN 13201:2015)



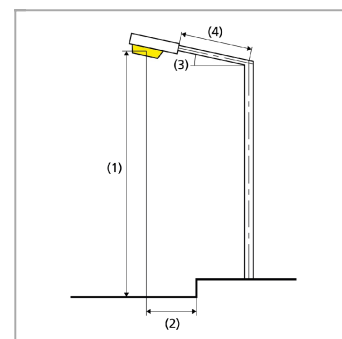
Ilkantie, M4

Summary (according to EN 13201:2015)

Manufacturer	Greenled	P	64.8 W
Article name	01 Sirius 67M3 740 CLO corrected v2.4	Φ_{Lamp}	10000 lm
Fitting	1x GLSFOSG	$\Phi_{\text{Luminaire}}$	9999 lm
		η	99.99 %

01 Sirius 67M3 740 CLO corrected v2.4 (single side bottom)

Pole distance	40.000 m
(1) Light spot height	8.000 m
(2) Light point overhang	0.000 m
(3) Boom inclination	0.0°
(4) Boom length	1.000 m
Annual operating hours	4000 h: 100.0 %, 64.8 W
Wattage / route	1620.0 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.	$\geq 70^\circ$: 890 cd/klm $\geq 80^\circ$: 56.4 cd/klm $\geq 90^\circ$: 0.00 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.3
MF	0.90



Ilkantie, M4

Summary (according to EN 13201:2015)

Results for valuation fields

A maintenance factor of 0.90 was used for calculating for the installation.

	Symbol	Calculated	Target	Check
Agorata 1	L_{av}	1.08 cd/m ²	≥ 0.75 cd/m ²	✓
	U_o	0.63	≥ 0.40	✓
	U_{ow}	0.19	≥ 0.15	✓
	$U_l^{(2)}$	0.46	≥ 0.40	✓
	TI	11 %	≤ 15 %	✓
	R_{EI}	0.59	≥ 0.30	✓

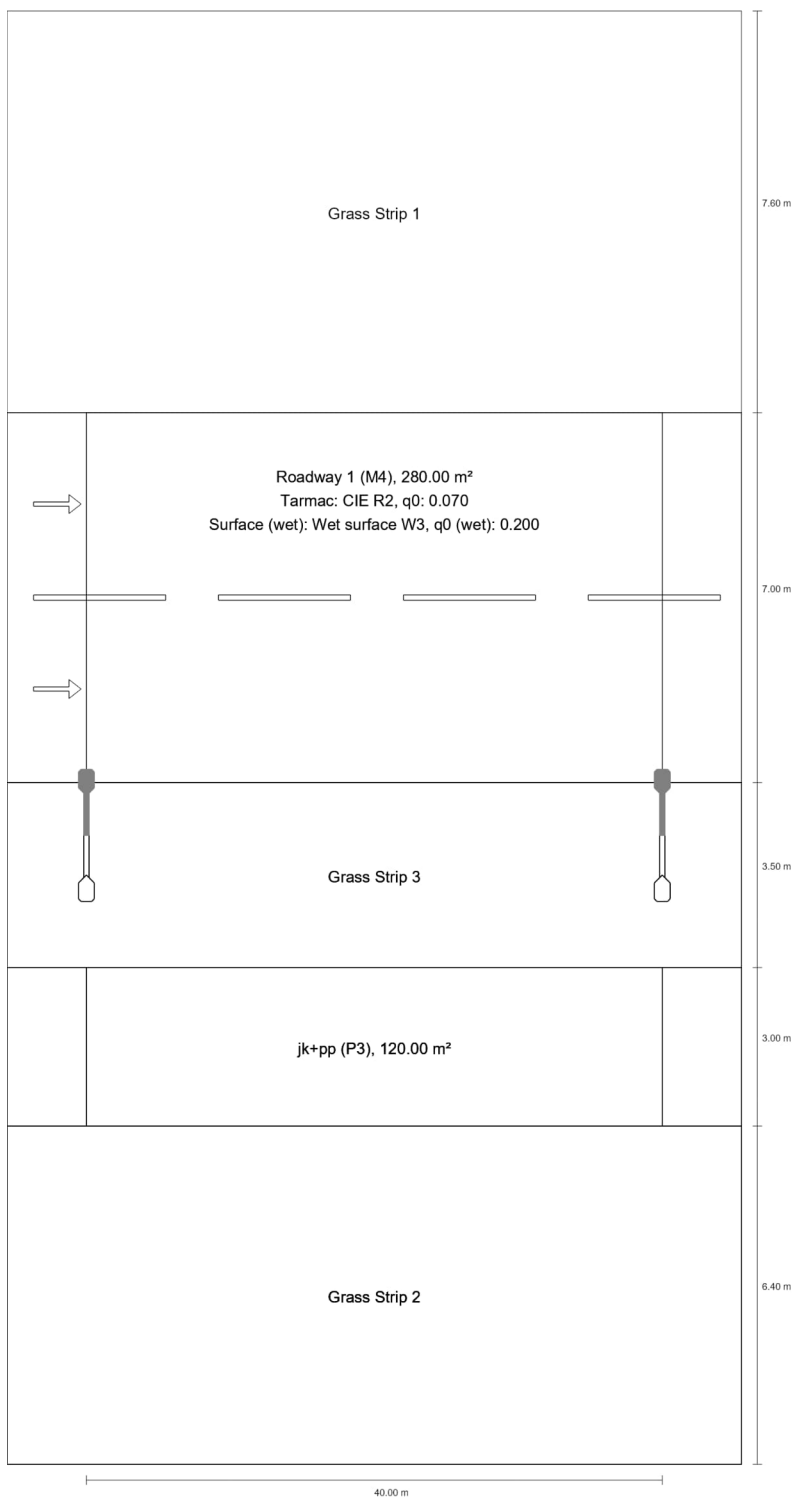
(2) Setpoint changed by the planner, deviant to the norm

Results for energy efficiency indicators

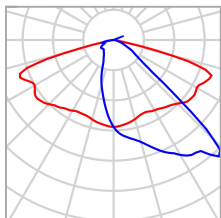
	Symbol	Calculated	Energy Consumption
Ilkantie, M4	D_p	0.013 W/lx*m ²	–
01 Sirius 67M3 740 CLO corrected v2.4 (single side bottom)	D_e	0.9 kWh/m ² yr	259.2 kWh/yr

Pistotie alkuosa M4+P4

Summary (according to EN 13201:2015)



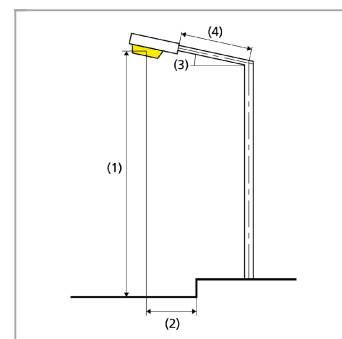
Pistotie alkuosa M4+P4

Summary (according to EN 13201:2015)

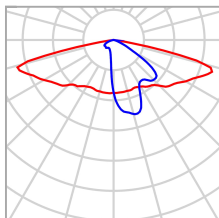
Manufacturer	Greenled	P	64.8 W
Article name	01 Sirius 67M3 740 CLO corrected v2.4	Φ_{Lamp}	10000 lm
Fitting	1x GLSFOSG	$\Phi_{\text{Luminaire}}$	9999 lm
		η	99.99 %

01 Sirius 67M3 740 CLO corrected v2.4 (single side bottom)

Pole distance	40.000 m
(1) Light spot height	8.000 m
(2) Light point overhang	0.000 m
(3) Boom inclination	0.0°
(4) Boom length	1.000 m
Annual operating hours	4000 h: 100.0 %, 64.8 W
Wattage / route	1620.0 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.	$\geq 70^\circ$: 890 cd/klm $\geq 80^\circ$: 56.4 cd/klm $\geq 90^\circ$: 0.00 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.3
MF	0.90



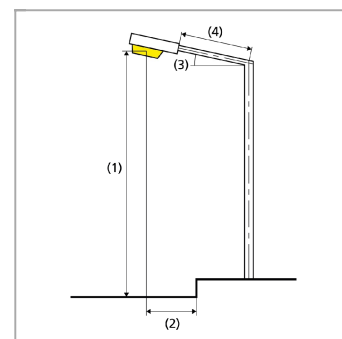
Pistotie alkuosa M4+P4

Summary (according to EN 13201:2015)

Manufacturer	Greenled	P	20.0 W
Article name	07 Sirius 20S 740 CLO corrected v1.4	Φ_{Lamp}	2730 lm
Fitting	1x GLSFOSG	$\Phi_{\text{Luminaire}}$	2730 lm
		η	99.99 %

07 Sirius 20S 740 CLO corrected v1.4 (single side bottom)

Pole distance	40.000 m
(1) Light spot height	6.000 m
(2) Light point overhang	0.000 m
(3) Boom inclination	0.0°
(4) Boom length	1.000 m
Annual operating hours	4000 h: 100.0 %, 20.0 W
Wattage / route	500.0 W/km
ULR / ULOR	0.00 / 0.00
Max. luminous intensities	≥ 70°: 685 cd/klm
Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.	≥ 80°: 159 cd/klm
	≥ 90°: 0.00 cd/klm
Luminous intensity class	G*1
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
MF	0.90



Pistotie alkuosa M4+P4

Summary (according to EN 13201:2015)

Results for valuation fields

A maintenance factor of 0.90 was used for calculating for the installation.

	Symbol	Calculated	Target	Check
Agorata 1	L_{av}	1.15 cd/m ²	≥ 0.75 cd/m ²	✓
	U_o	0.62	≥ 0.40	✓
	U_{ow}	0.17	≥ 0.15	✓
	$U_l^{(2)}$	0.49	≥ 0.40	✓
	TI	14 %	≤ 15 %	✓
	R_{EI}	0.59	≥ 0.30	✓
jk+pp (P3)	E_{av}	9.12 lx	[7.50 - 11.25] lx	✓
	E_{min}	3.31 lx	≥ 1.50 lx	✓

(2) Setpoint changed by the planner, deviant to the norm

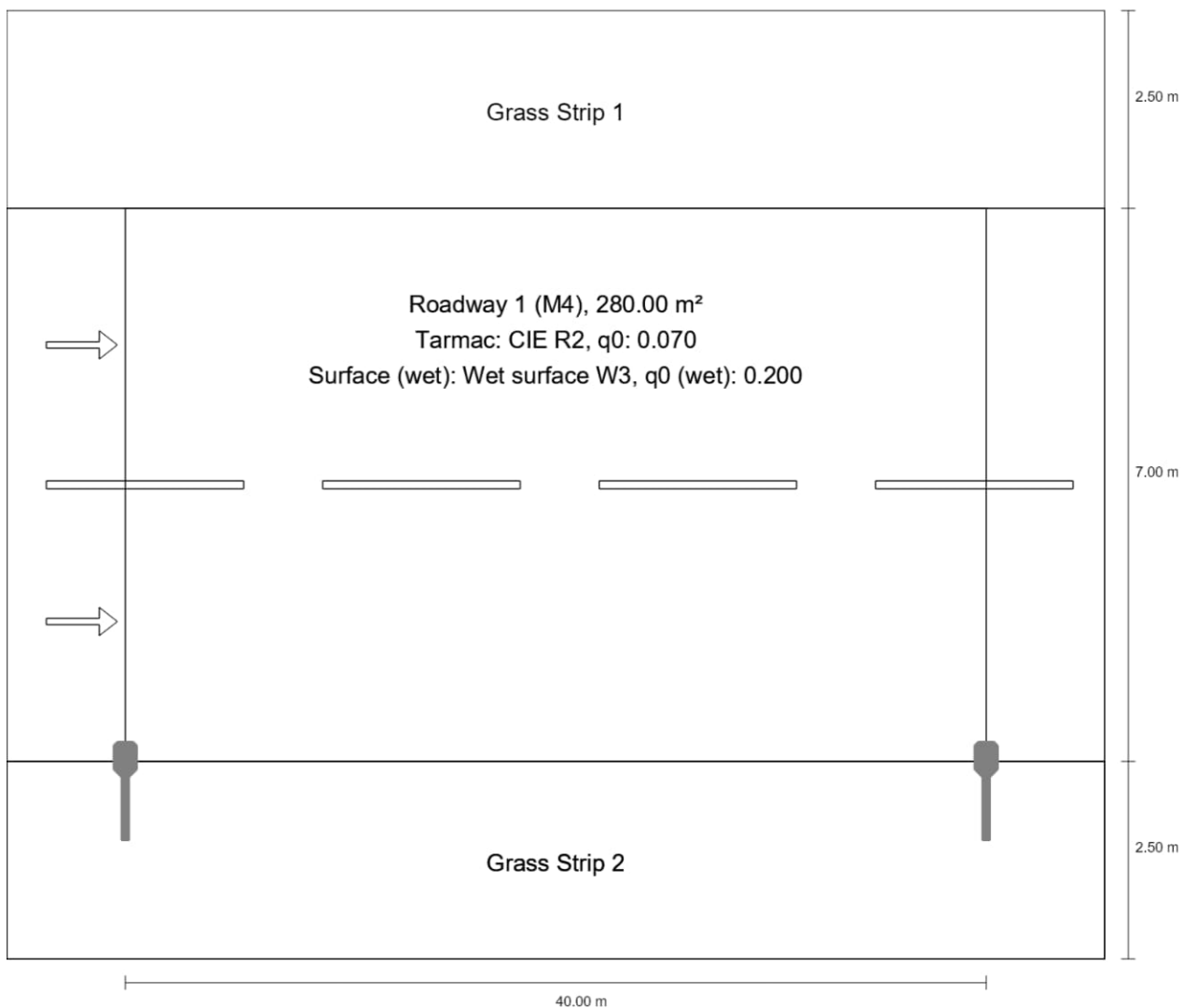
Results for energy efficiency indicators

	Symbol	Calculated	Energy Consumption
Pistotie alkuosa M4+P4	D_p	0.011 W/lx*m ²	–
07 Sirius 20S 740 CLO corrected v1.4 (single side bottom)	D_e	0.2 kWh/m ² yr	80.0 kWh/yr
01 Sirius 67M3 740 CLO corrected v2.4 (single side bottom)	D_e	0.6 kWh/m ² yr	259.2 kWh/yr

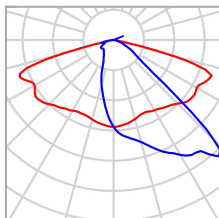
EN 13201:2015-5 does not include the case for planning with multiple luminaire arrangements. The calculation of the output values is done therefore only for the luminaire arrangement whose pole distance determines the length of the valuation fields.

Pistotie loppuosa, M4

Summary (according to EN 13201:2015)



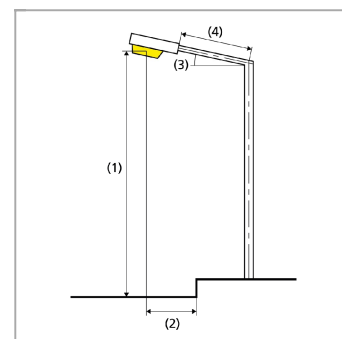
Pistotie loppuosa, M4

Summary (according to EN 13201:2015)

Manufacturer	Greenled	P	64.8 W
Article name	01 Sirius 67M3 740 CLO corrected v2.4	Φ_{Lamp}	10000 lm
Fitting	1x GLSFOSG	$\Phi_{\text{Luminaire}}$	9999 lm
		η	99.99 %

01 Sirius 67M3 740 CLO corrected v2.4 (single side bottom)

Pole distance	40.000 m
(1) Light spot height	8.000 m
(2) Light point overhang	0.000 m
(3) Boom inclination	0.0°
(4) Boom length	1.000 m
Annual operating hours	4000 h: 100.0 %, 64.8 W
Wattage / route	1620.0 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.	$\geq 70^\circ$: 890 cd/klm $\geq 80^\circ$: 56.4 cd/klm $\geq 90^\circ$: 0.00 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.3
MF	0.90



Pistotie loppuosa, M4

Summary (according to EN 13201:2015)

Results for valuation fields

A maintenance factor of 0.90 was used for calculating for the installation.

	Symbol	Calculated	Target	Check
Ajorata 1	L_{av}	1.08 cd/m ²	≥ 0.75 cd/m ²	✓
	U_o	0.63	≥ 0.40	✓
	U_{ow}	0.19	≥ 0.15	✓
	$U_l^{(2)}$	0.46	≥ 0.40	✓
	TI	11 %	≤ 15 %	✓
	R_{EI}	0.59	≥ 0.30	✓

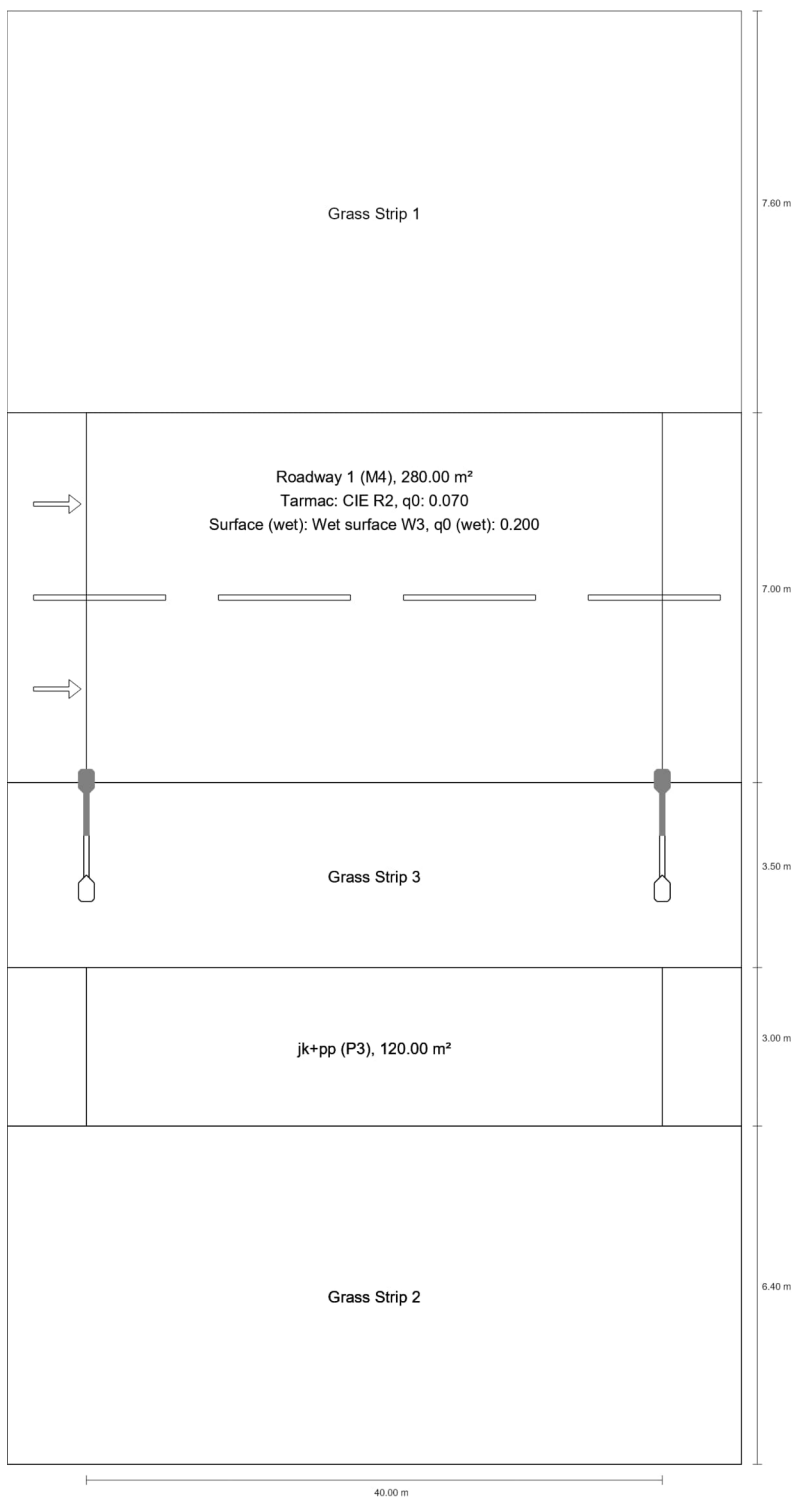
(2) Setpoint changed by the planner, deviant to the norm

Results for energy efficiency indicators

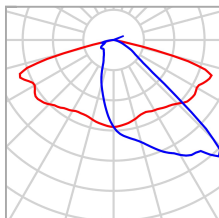
	Symbol	Calculated	Energy Consumption
Pistotie loppuosa, M4	D_p	0.013 W/lx*m ²	–
01 Sirius 67M3 740 CLO corrected v2.4 (single side bottom)	D_e	0.9 kWh/m ² yr	259.2 kWh/yr

Teollisuustie M4+P4

Summary (according to EN 13201:2015)



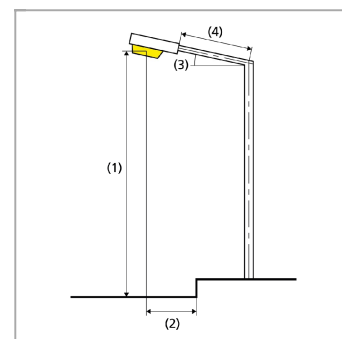
Teollisuustie M4+P4

Summary (according to EN 13201:2015)

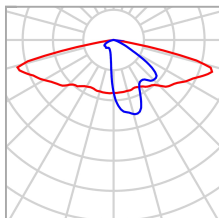
Manufacturer	Greenled	P	64.8 W
Article name	01 Sirius 67M3 740 CLO corrected v2.4	Φ_{Lamp}	10000 lm
Fitting	1x GLSFOSG	$\Phi_{\text{Luminaire}}$	9999 lm
		η	99.99 %

01 Sirius 67M3 740 CLO corrected v2.4 (single side bottom)

Pole distance	40.000 m
(1) Light spot height	8.000 m
(2) Light point overhang	0.000 m
(3) Boom inclination	0.0°
(4) Boom length	1.000 m
Annual operating hours	4000 h: 100.0 %, 64.8 W
Wattage / route	1620.0 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.	$\geq 70^\circ$: 890 cd/klm $\geq 80^\circ$: 56.4 cd/klm $\geq 90^\circ$: 0.00 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.3
MF	0.90



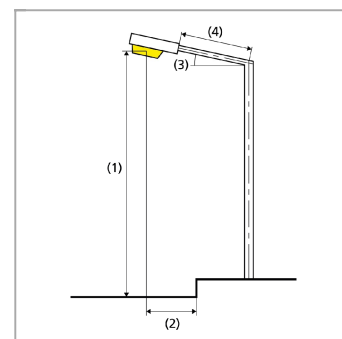
Teollisuustie M4+P4

Summary (according to EN 13201:2015)

Manufacturer	Greenled	P	20.0 W
Article name	07 Sirius 20S 740 CLO corrected v1.4	Φ_{Lamp}	2730 lm
Fitting	1x GLSFOSG	$\Phi_{\text{Luminaire}}$	2730 lm
		η	99.99 %

07 Sirius 20S 740 CLO corrected v1.4 (single side bottom)

Pole distance	40.000 m
(1) Light spot height	6.000 m
(2) Light point overhang	0.000 m
(3) Boom inclination	0.0°
(4) Boom length	1.000 m
Annual operating hours	4000 h: 100.0 %, 20.0 W
Wattage / route	500.0 W/km
ULR / ULOR	0.00 / 0.00
Max. luminous intensities	≥ 70°: 685 cd/klm
Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.	≥ 80°: 159 cd/klm
	≥ 90°: 0.00 cd/klm
Luminous intensity class	G*1
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
MF	0.90



Teollisuustie M4+P4

Summary (according to EN 13201:2015)

Results for valuation fields

A maintenance factor of 0.90 was used for calculating for the installation.

	Symbol	Calculated	Target	Check
Agorata 1	L_{av}	1.15 cd/m ²	≥ 0.75 cd/m ²	✓
	U_o	0.62	≥ 0.40	✓
	U_{ow}	0.17	≥ 0.15	✓
	$U_l^{(2)}$	0.49	≥ 0.40	✓
	TI	14 %	≤ 15 %	✓
	R_{EI}	0.59	≥ 0.30	✓
jk+pp (P3)	E_{av}	9.12 lx	[7.50 - 11.25] lx	✓
	E_{min}	3.31 lx	≥ 1.50 lx	✓

(2) Setpoint changed by the planner, deviant to the norm

Results for energy efficiency indicators

	Symbol	Calculated	Energy Consumption
Teollisuustie M4+P4	D_p	0.011 W/lx*m ²	–
07 Sirius 20S 740 CLO corrected v1.4 (single side bottom)	D_e	0.2 kWh/m ² yr	80.0 kWh/yr
01 Sirius 67M3 740 CLO corrected v2.4 (single side bottom)	D_e	0.6 kWh/m ² yr	259.2 kWh/yr

EN 13201:2015-5 does not include the case for planning with multiple luminaire arrangements. The calculation of the output values is done therefore only for the luminaire arrangement whose pole distance determines the length of the valuation fields.