

Operator
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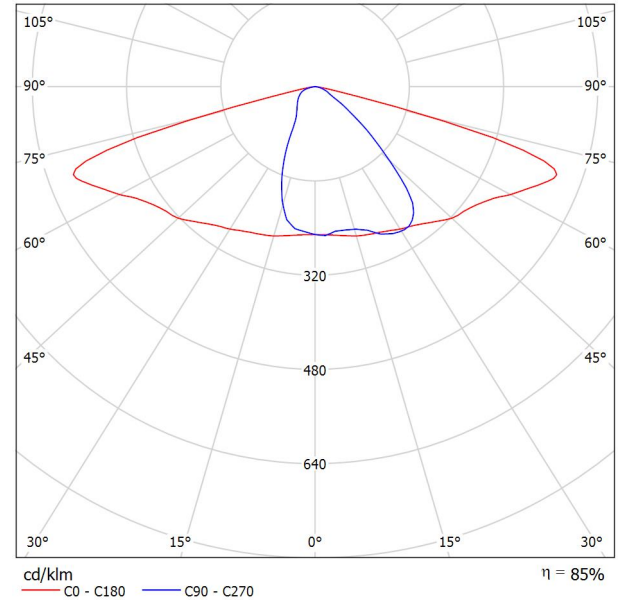
PHILIPS BGP303 1xLED73-3S/740 DM / Luminaire Data Sheet



Luminaire classification according to CIE: 100
CIE flux code: 42 76 97 100 85

ClearWay – economical LED performance LED technology represents a breakthrough in lighting in many different respects. The light quality provided by LEDs, for example, has made our roads safer, while the tremendous efficacy of LEDs is helping cities reduce their energy bills. At Philips, we believe we can make even more roads safer, and help more municipalities achieve their goal of reducing energy consumption. That's why we have developed ClearWay – a LED road luminaire that is affordable yet does not compromise on light quality and energy efficiency.

Luminous emittance 1:



Due to missing symmetry properties, no UGR table can be displayed for this luminaire.

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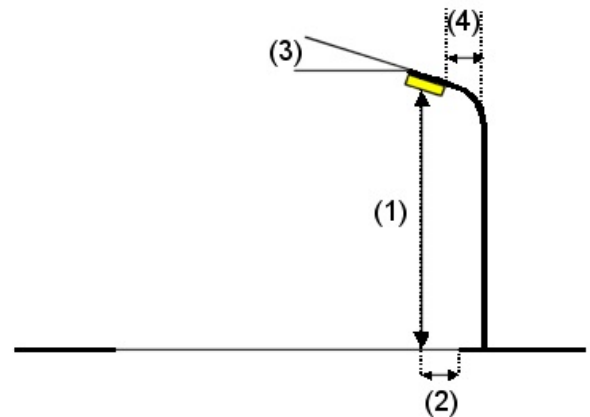
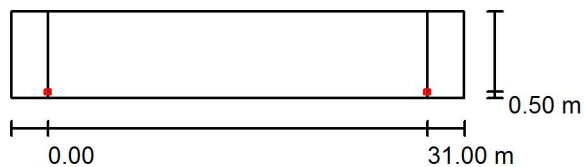
3.1 / Planning data

Street Profile

Roadway 1 (Width: 7.000 m, Number of lanes: 1, tarmac: R3, q0: 0.070)

Maintenance factor: 0.80

Luminaire Arrangements



Luminaire: PHILIPS BGP303 1xLED73-3S/740 DM
 Luminous flux (Luminaire): 6375 lm
 Luminous flux (Lamps): 7500 lm
 Luminaire Wattage: 58.0 W
 Arrangement: Single row, bottom
 Pole Distance: 31.000 m
 Mounting Height (1): 7.580 m
 Height: 7.500 m
 Overhang (2): 0.507 m
 Boom Angle (3): 5.0 °
 Boom Length (4): 1.000 m

Maximum luminous intensities

at 70°: 620 cd/klm

at 80°: 84 cd/klm

at 90°: 0.94 cd/klm

Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.

No luminous intensities above 95°.

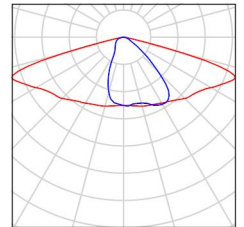
Arrangement complies with luminous intensity class G3.

Arrangement complies with glare index class D.6.

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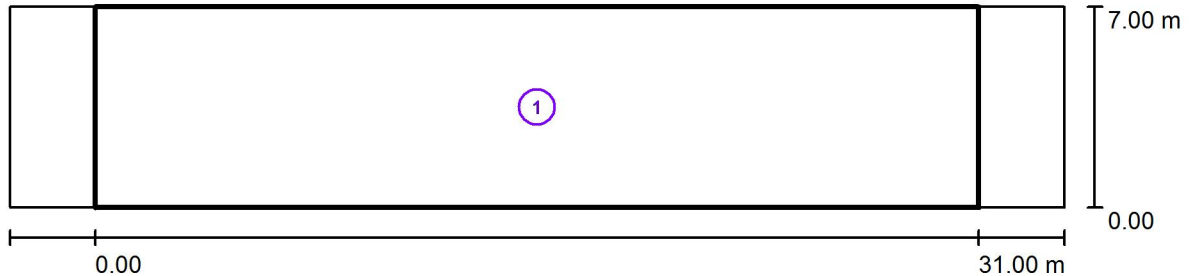
3.1 / Luminaire parts list

PHILIPS BGP303 1xLED73-3S/740 DM
Article No.:
Luminous flux (Luminaire): 6375 lm
Luminous flux (Lamps): 7500 lm
Luminaire Wattage: 58.0 W
Luminaire classification according to CIE: 100
CIE flux code: 42 76 97 100 85
Fitting: 1 x LED73-3S/740 (Correction Factor
1.000).



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3.1 / Photometric Results



Maintenance factor: 0.80

Scale 1:265

Calculation Field List

1 Valuation Field Roadway 1

Length: 31.000 m, Width: 7.000 m

Grid: 11 x 5 Points

Accompanying Street Elements: Roadway 1.

Selected Lighting Class: S6

Additional ES Lighting Class: ES9

(Not all lighting performance requirements are met.)

(Not all lighting performance requirements are met.)

	E_{av} [lx]	E_{min} [lx]	E_{min} (semi-cyl.) [lx]
Calculated values:	13.77	6.54	0.17
Required values according to class:	≥ 2.00	≥ 0.60	≥ 0.50
Fulfilled/Not fulfilled:	✗ ¹	✓	✗

¹ Notice: To provide for uniformity, the actual value of the maintained average illuminance may not exceed 1.5 times the minimum value indicated for the class.

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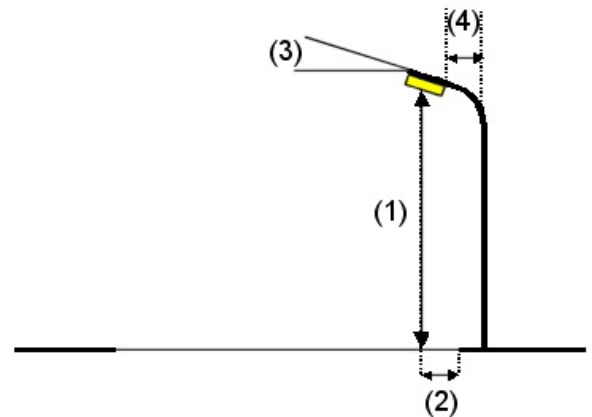
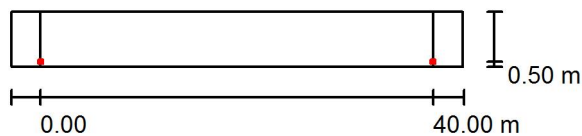
3.2 / Planning data

Street Profile

Roadway 1 (Width: 5.500 m, Number of lanes: 1, tarmac: R3, q0: 0.070)

Maintenance factor: 0.80

Luminaire Arrangements



Luminaire: PHILIPS BGP303 1xLED73-3S/740 DM
 Luminous flux (Luminaire): 6375 lm
 Luminous flux (Lamps): 7500 lm
 Luminaire Wattage: 58.0 W
 Arrangement: Single row, bottom
 Pole Distance: 40.000 m
 Mounting Height (1): 7.580 m
 Height: 7.500 m
 Overhang (2): 0.507 m
 Boom Angle (3): 5.0 °
 Boom Length (4): 1.000 m

Maximum luminous intensities

at 70°: 620 cd/klm
 at 80°: 84 cd/klm
 at 90°: 0.94 cd/klm

Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.

No luminous intensities above 95°.

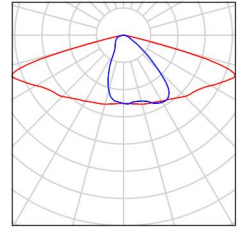
Arrangement complies with luminous intensity class G3.

Arrangement complies with glare index class D.6.

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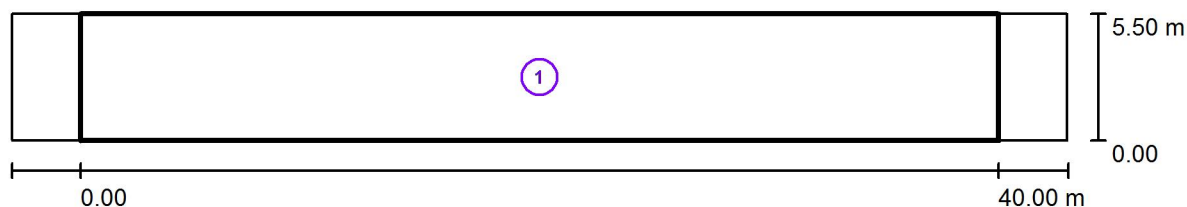
3.2 / Luminaire parts list

PHILIPS BGP303 1xLED73-3S/740 DM
Article No.:
Luminous flux (Luminaire): 6375 lm
Luminous flux (Lamps): 7500 lm
Luminaire Wattage: 58.0 W
Luminaire classification according to CIE: 100
CIE flux code: 42 76 97 100 85
Fitting: 1 x LED73-3S/740 (Correction Factor
1.000).



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3.2 / Photometric Results



Maintenance factor: 0.80

Scale 1:329

Calculation Field List

1 Valuation Field Roadway 1

Length: 40.000 m, Width: 5.500 m

Grid: 14 x 4 Points

Accompanying Street Elements: Roadway 1.

Selected Lighting Class: S6

(Not all lighting performance requirements are met.)

Additional ES Lighting Class: ES9

(Not all lighting performance requirements are met.)

	E_{av} [lx]	E_{min} [lx]	E_{min} (semi-cyl.) [lx]
Calculated values:	11.03	3.73	0.06
Required values according to class:	≥ 2.00	≥ 0.60	≥ 0.50
Fulfilled/Not fulfilled:	X 1	✓	X

¹ Notice: To provide for uniformity, the actual value of the maintained average illuminance may not exceed 1.5 times the minimum value indicated for the class.

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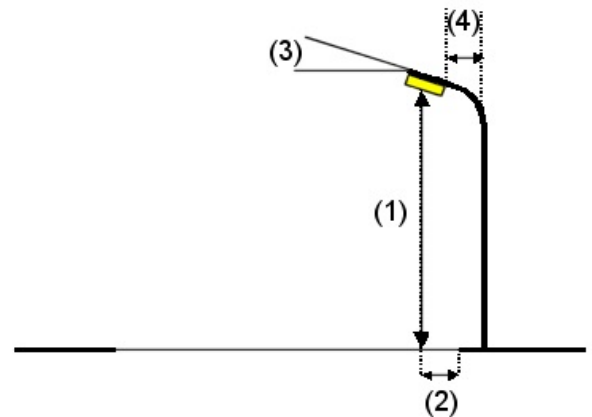
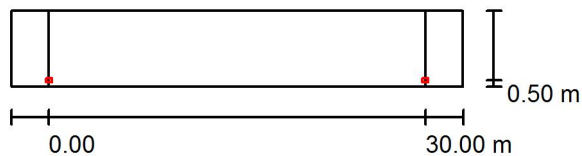
3.3 / Planning data

Street Profile

Roadway 1 (Width: 6.000 m, Number of lanes: 1, tarmac: R3, q0: 0.070)

Maintenance factor: 0.80

Luminaire Arrangements



Luminaire: PHILIPS BGP303 1xLED73-3S/740 DM
 Luminous flux (Luminaire): 6375 lm
 Luminous flux (Lamps): 7500 lm
 Luminaire Wattage: 58.0 W
 Arrangement: Single row, bottom
 Pole Distance: 30.000 m
 Mounting Height (1): 7.580 m
 Height: 7.500 m
 Overhang (2): 0.507 m
 Boom Angle (3): 5.0 °
 Boom Length (4): 1.000 m

Maximum luminous intensities

at 70°: 620 cd/klm
 at 80°: 84 cd/klm
 at 90°: 0.94 cd/klm

Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.

No luminous intensities above 95°.

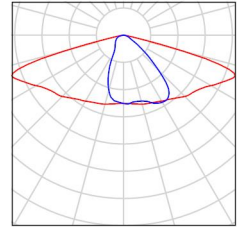
Arrangement complies with luminous intensity class G3.

Arrangement complies with glare index class D.6.

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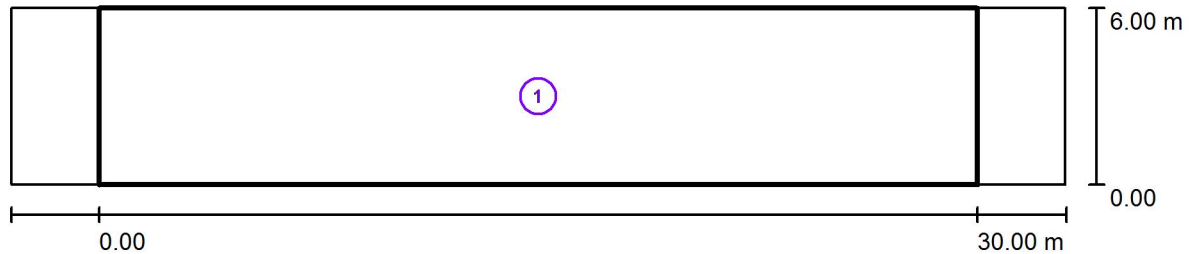
3.3 / Luminaire parts list

PHILIPS BGP303 1xLED73-3S/740 DM
Article No.:
Luminous flux (Luminaire): 6375 lm
Luminous flux (Lamps): 7500 lm
Luminaire Wattage: 58.0 W
Luminaire classification according to CIE: 100
CIE flux code: 42 76 97 100 85
Fitting: 1 x LED73-3S/740 (Correction Factor
1.000).



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3.3 / Photometric Results



Maintenance factor: 0.80

Scale 1:258

Calculation Field List

- 1 Valuation Field Roadway 1
Length: 30.000 m, Width: 6.000 m
Grid: 10 x 4 Points
Accompanying Street Elements: Roadway 1.
Selected Lighting Class: S6
Additional ES Lighting Class: ES9

(Not all lighting performance requirements are met.)
(Not all lighting performance requirements are met.)

	E_{av} [lx]	E_{min} [lx]	E_{min} (semi-cyl.) [lx]
Calculated values:	14.60	7.25	0.22
Required values according to class:	≥ 2.00	≥ 0.60	≥ 0.50
Fulfilled/Not fulfilled:	✗ ¹	✓	✗

¹ Notice: To provide for uniformity, the actual value of the maintained average illuminance may not exceed 1.5 times the minimum value indicated for the class.

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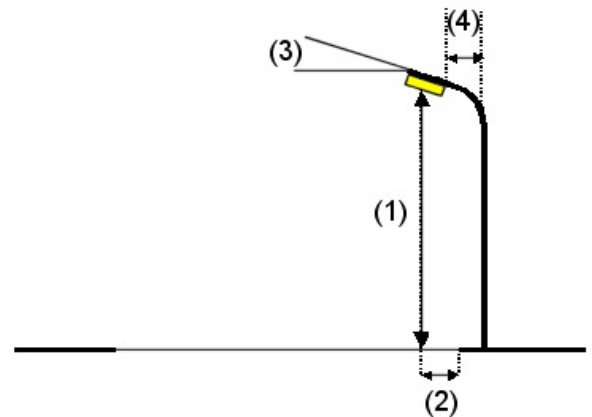
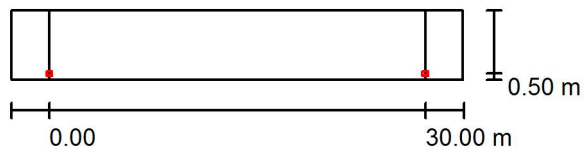
3.4 / Planning data

Street Profile

Roadway 1 (Width: 5.500 m, Number of lanes: 1, tarmac: R3, q0: 0.070)

Maintenance factor: 0.80

Luminaire Arrangements



Luminaire: PHILIPS BGP303 1xLED73-3S/740 DM
 Luminous flux (Luminaire): 6375 lm
 Luminous flux (Lamps): 7500 lm
 Luminaire Wattage: 58.0 W
 Arrangement: Single row, bottom
 Pole Distance: 30.000 m
 Mounting Height (1): 7.580 m
 Height: 7.500 m
 Overhang (2): 0.507 m
 Boom Angle (3): 5.0 °
 Boom Length (4): 1.000 m

Maximum luminous intensities

at 70°: 620 cd/klm

at 80°: 84 cd/klm

at 90°: 0.94 cd/klm

Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.

No luminous intensities above 95°.

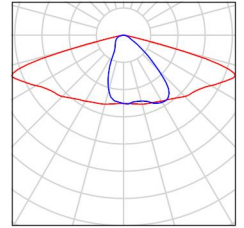
Arrangement complies with luminous intensity class G3.

Arrangement complies with glare index class D.6.

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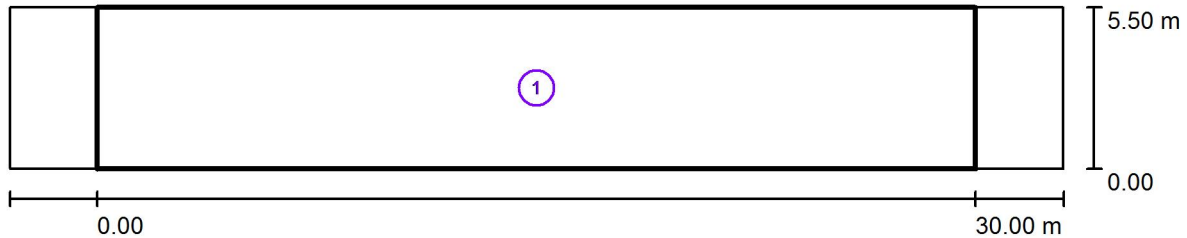
3.4 / Luminaire parts list

PHILIPS BGP303 1xLED73-3S/740 DM
Article No.:
Luminous flux (Luminaire): 6375 lm
Luminous flux (Lamps): 7500 lm
Luminaire Wattage: 58.0 W
Luminaire classification according to CIE: 100
CIE flux code: 42 76 97 100 85
Fitting: 1 x LED73-3S/740 (Correction Factor
1.000).



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3.4 / Photometric Results



Maintenance factor: 0.80

Scale 1:258

Calculation Field List

- 1 Valuation Field Roadway 1
Length: 30.000 m, Width: 5.500 m
Grid: 10 x 4 Points
Accompanying Street Elements: Roadway 1.
Selected Lighting Class: S6
Additional ES Lighting Class: ES9

(Not all lighting performance requirements are met.)
(Not all lighting performance requirements are met.)

	E_{av} [lx]	E_{min} [lx]	E_{min} (semi-cyl.) [lx]
Calculated values:	14.73	7.18	0.20
Required values according to class:	≥ 2.00	≥ 0.60	≥ 0.50
Fulfilled/Not fulfilled:	✗ ¹	✓	✗

¹ Notice: To provide for uniformity, the actual value of the maintained average illuminance may not exceed 1.5 times the minimum value indicated for the class.

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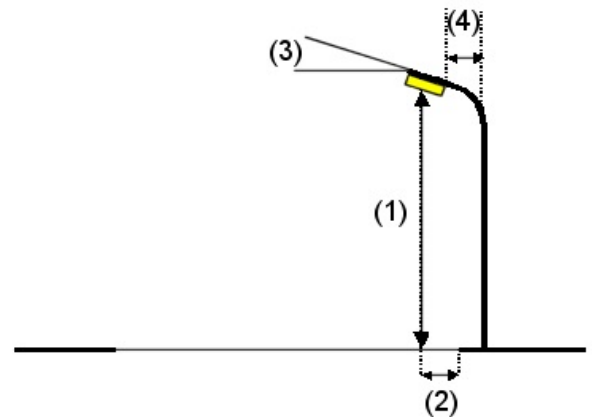
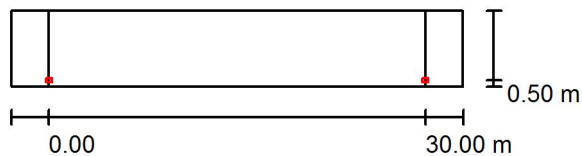
3.5 / Planning data

Street Profile

Roadway 1 (Width: 6.000 m, Number of lanes: 1, tarmac: R3, q0: 0.070)

Maintenance factor: 0.80

Luminaire Arrangements



Luminaire: PHILIPS BGP303 1xLED73-3S/740 DM
 Luminous flux (Luminaire): 6375 lm
 Luminous flux (Lamps): 7500 lm
 Luminaire Wattage: 58.0 W
 Arrangement: Single row, bottom
 Pole Distance: 30.000 m
 Mounting Height (1): 7.580 m
 Height: 7.500 m
 Overhang (2): 0.507 m
 Boom Angle (3): 5.0 °
 Boom Length (4): 1.000 m

Maximum luminous intensities

at 70°: 620 cd/klm
 at 80°: 84 cd/klm
 at 90°: 0.94 cd/klm

Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.

No luminous intensities above 95°.

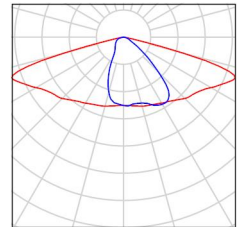
Arrangement complies with luminous intensity class G3.

Arrangement complies with glare index class D.6.

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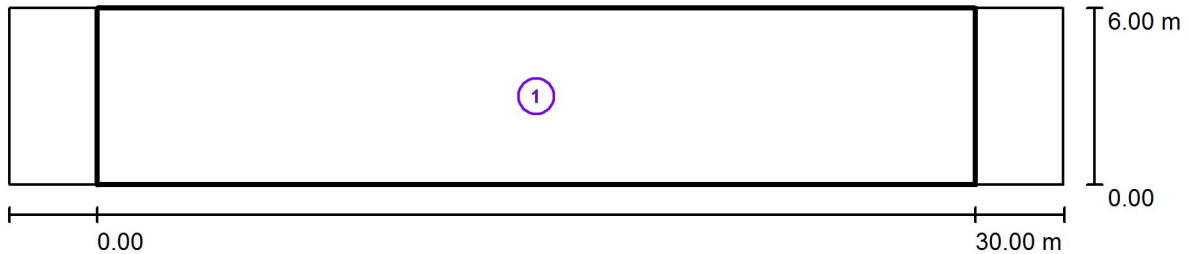
3.5 / Luminaire parts list

PHILIPS BGP303 1xLED73-3S/740 DM
Article No.:
Luminous flux (Luminaire): 6375 lm
Luminous flux (Lamps): 7500 lm
Luminaire Wattage: 58.0 W
Luminaire classification according to CIE: 100
CIE flux code: 42 76 97 100 85
Fitting: 1 x LED73-3S/740 (Correction Factor
1.000).



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3.5 / Photometric Results



Maintenance factor: 0.80

Scale 1:258

Calculation Field List

- 1 Valuation Field Roadway 1
Length: 30.000 m, Width: 6.000 m
Grid: 10 x 4 Points
Accompanying Street Elements: Roadway 1.
Selected Lighting Class: S6
Additional ES Lighting Class: ES9

(Not all lighting performance requirements are met.)
(Not all lighting performance requirements are met.)

	E_{av} [lx]	E_{min} [lx]	E_{min} (semi-cyl.) [lx]
Calculated values:	14.60	7.25	0.22
Required values according to class:	≥ 2.00	≥ 0.60	≥ 0.50
Fulfilled/Not fulfilled:	X ¹	✓	X

¹ Notice: To provide for uniformity, the actual value of the maintained average illuminance may not exceed 1.5 times the minimum value indicated for the class.

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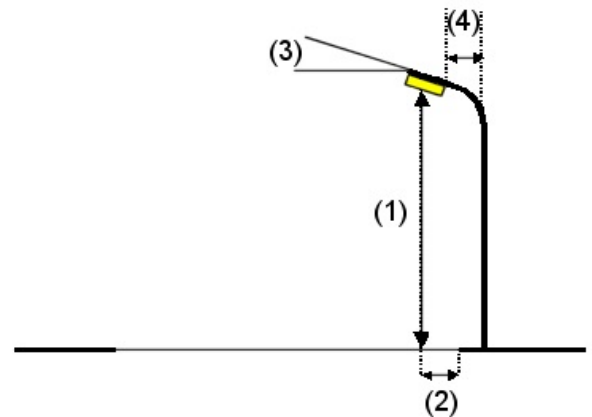
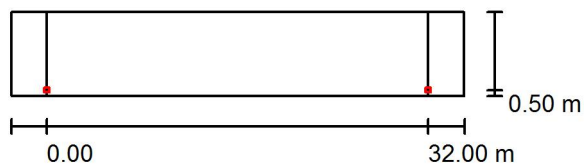
3.6 / Planning data

Street Profile

Roadway 1 (Width: 7.000 m, Number of lanes: 1, tarmac: R3, q0: 0.070)

Maintenance factor: 0.80

Luminaire Arrangements



Luminaire: PHILIPS BGP303 1xLED73-3S/740 DM
 Luminous flux (Luminaire): 6375 lm
 Luminous flux (Lamps): 7500 lm
 Luminaire Wattage: 58.0 W
 Arrangement: Single row, bottom
 Pole Distance: 32.000 m
 Mounting Height (1): 7.580 m
 Height: 7.500 m
 Overhang (2): 0.507 m
 Boom Angle (3): 5.0 °
 Boom Length (4): 1.000 m

Maximum luminous intensities

at 70°: 620 cd/klm

at 80°: 84 cd/klm

at 90°: 0.94 cd/klm

Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.

No luminous intensities above 95°.

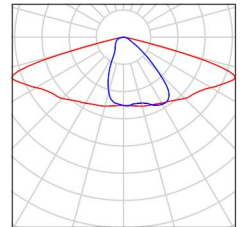
Arrangement complies with luminous intensity class G3.

Arrangement complies with glare index class D.6.

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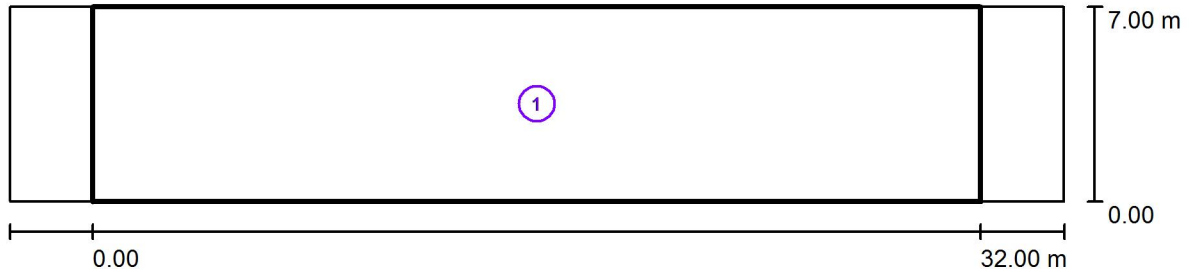
3.6 / Luminaire parts list

PHILIPS BGP303 1xLED73-3S/740 DM
Article No.:
Luminous flux (Luminaire): 6375 lm
Luminous flux (Lamps): 7500 lm
Luminaire Wattage: 58.0 W
Luminaire classification according to CIE: 100
CIE flux code: 42 76 97 100 85
Fitting: 1 x LED73-3S/740 (Correction Factor
1.000).



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3.6 / Photometric Results



Maintenance factor: 0.80

Scale 1:272

Calculation Field List

- 1 Valuation Field Roadway 1
Length: 32.000 m, Width: 7.000 m
Grid: 11 x 5 Points
Accompanying Street Elements: Roadway 1.
Selected Lighting Class: S6
Additional ES Lighting Class: ES9

(Not all lighting performance requirements are met.)
(Not all lighting performance requirements are met.)

	E_{av} [lx]	E_{min} [lx]	E_{min} (semi-cyl.) [lx]
Calculated values:	13.34	6.12	0.14
Required values according to class:	≥ 2.00	≥ 0.60	≥ 0.50
Fulfilled/Not fulfilled:	✗ ¹	✓	✗

¹ Notice: To provide for uniformity, the actual value of the maintained average illuminance may not exceed 1.5 times the minimum value indicated for the class.

Operator
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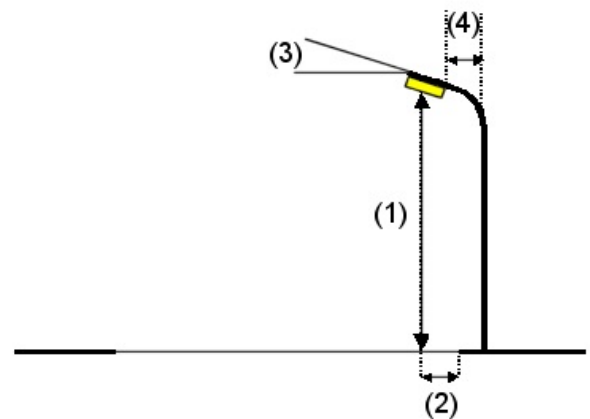
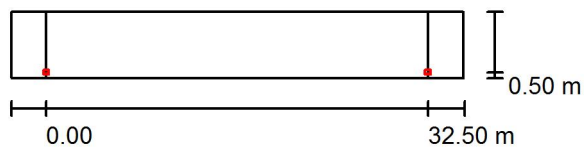
3.7 / Planning data

Street Profile

Roadway 1 (Width: 5.600 m, Number of lanes: 1, tarmac: R3, q0: 0.070)

Maintenance factor: 0.80

Luminaire Arrangements



Luminaire: PHILIPS BGP303 1xLED73-3S/740 DM
 Luminous flux (Luminaire): 6375 lm
 Luminous flux (Lamps): 7500 lm
 Luminaire Wattage: 58.0 W
 Arrangement: Single row, bottom
 Pole Distance: 32.500 m
 Mounting Height (1): 7.580 m
 Height: 7.500 m
 Overhang (2): 0.507 m
 Boom Angle (3): 5.0 °
 Boom Length (4): 1.000 m

Maximum luminous intensities
 at 70°: 620 cd/klm
 at 80°: 84 cd/klm
 at 90°: 0.94 cd/klm

Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.

No luminous intensities above 95°.

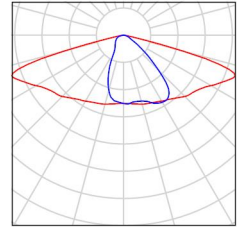
Arrangement complies with luminous intensity class G3.

Arrangement complies with glare index class D.6.

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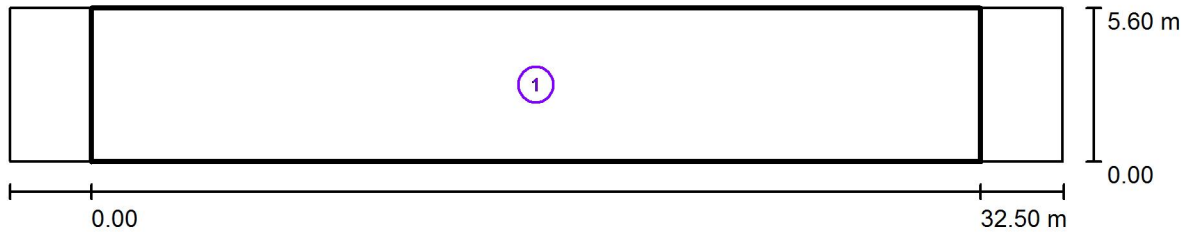
3.7 / Luminaire parts list

PHILIPS BGP303 1xLED73-3S/740 DM
Article No.:
Luminous flux (Luminaire): 6375 lm
Luminous flux (Lamps): 7500 lm
Luminaire Wattage: 58.0 W
Luminaire classification according to CIE: 100
CIE flux code: 42 76 97 100 85
Fitting: 1 x LED73-3S/740 (Correction Factor
1.000).



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3.7 / Photometric Results



Maintenance factor: 0.80

Scale 1:276

Calculation Field List

- 1 Valuation Field Roadway 1
Length: 32.500 m, Width: 5.600 m
Grid: 11 x 4 Points
Accompanying Street Elements: Roadway 1.
Selected Lighting Class: S6
Additional ES Lighting Class: ES9

(Not all lighting performance requirements are met.)
(Not all lighting performance requirements are met.)

	E_{av} [lx]	E_{min} [lx]	E_{min} (semi-cyl.) [lx]
Calculated values:	13.57	5.92	0.13
Required values according to class:	≥ 2.00	≥ 0.60	≥ 0.50
Fulfilled/Not fulfilled:	✗ ¹	✓	✗

¹ Notice: To provide for uniformity, the actual value of the maintained average illuminance may not exceed 1.5 times the minimum value indicated for the class.

Operator
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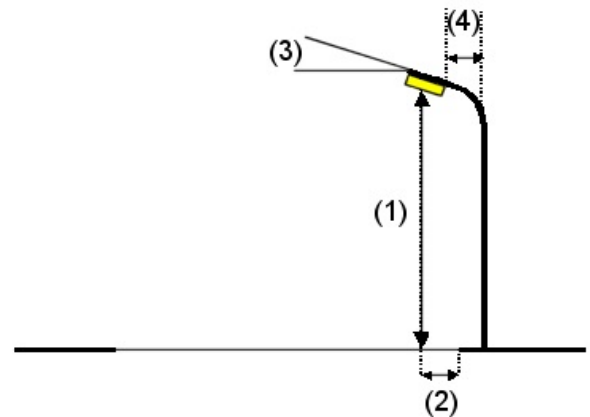
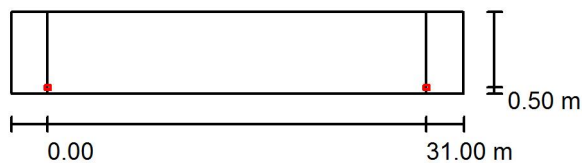
3.8 / Planning data

Street Profile

Roadway 1 (Width: 6.600 m, Number of lanes: 1, tarmac: R3, q0: 0.070)

Maintenance factor: 0.80

Luminaire Arrangements



Luminaire: PHILIPS BGP303 1xLED73-3S/740 DM
 Luminous flux (Luminaire): 6375 lm
 Luminous flux (Lamps): 7500 lm
 Luminaire Wattage: 58.0 W
 Arrangement: Single row, bottom
 Pole Distance: 31.000 m
 Mounting Height (1): 7.580 m
 Height: 7.500 m
 Overhang (2): 0.507 m
 Boom Angle (3): 5.0 °
 Boom Length (4): 1.000 m

Maximum luminous intensities

at 70°: 620 cd/klm

at 80°: 84 cd/klm

at 90°: 0.94 cd/klm

Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.

No luminous intensities above 95°.

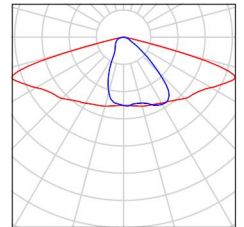
Arrangement complies with luminous intensity class G3.

Arrangement complies with glare index class D.6.

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Fax
e-Mail

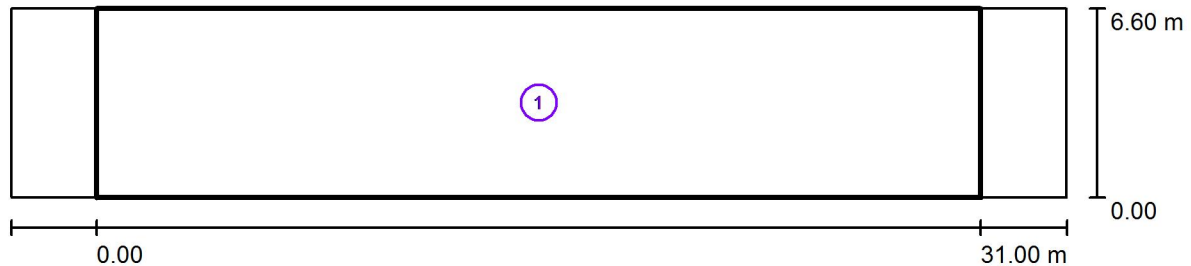
3.8 / Luminaire parts list

PHILIPS BGP303 1xLED73-3S/740 DM
Article No.:
Luminous flux (Luminaire): 6375 lm
Luminous flux (Lamps): 7500 lm
Luminaire Wattage: 58.0 W
Luminaire classification according to CIE: 100
CIE flux code: 42 76 97 100 85
Fitting: 1 x LED73-3S/740 (Correction Factor
1.000).



Operator
Telephone
Fax
e-Mail

3.8 / Photometric Results



Maintenance factor: 0.80

Scale 1:265

Calculation Field List

1 Valuation Field Roadway 1

Length: 31.000 m, Width: 6.600 m

Grid: 11 x 5 Points

Accompanying Street Elements: Roadway 1.

Selected Lighting Class: S6

Additional ES Lighting Class: ES9

(Not all lighting performance requirements are met.)

(Not all lighting performance requirements are met.)

	E_{av} [lx]	E_{min} [lx]	E_{min} (semi-cyl.) [lx]
Calculated values:	13.92	6.50	0.15
Required values according to class:	≥ 2.00	≥ 0.60	≥ 0.50
Fulfilled/Not fulfilled:	✗ 1	✓	✗

¹ Notice: To provide for uniformity, the actual value of the maintained average illuminance may not exceed 1.5 times the minimum value indicated for the class.