

versatile



Projekt:

HŘIŠTĚ JANKOVICE

Paré:

Místo:

Jasmínová
288 02, Nymburk

Parc. č., k. ú.:

1062/30
Nymburk [708232]

Investor:

Město Nymburk
Náměstí Přemyslovců 163/20, 288 02 Nymburk

IČ: 00239500

Stupeň dokumentace:

Dokumentace pro vydání společného povolení

Část dokumentace:

SO 03 Veřejné osvětlení

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Dokument/Výkres:

Výpočet osvětlení

Měřítko:

-

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SO03.2

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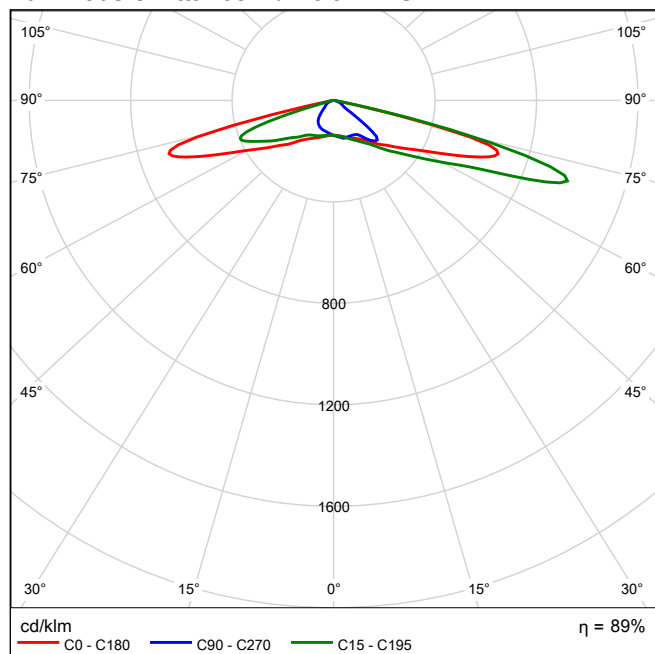
Philips BGP615 T25 1 xLED16-4S/740 DM50 1xLED16-4S/740



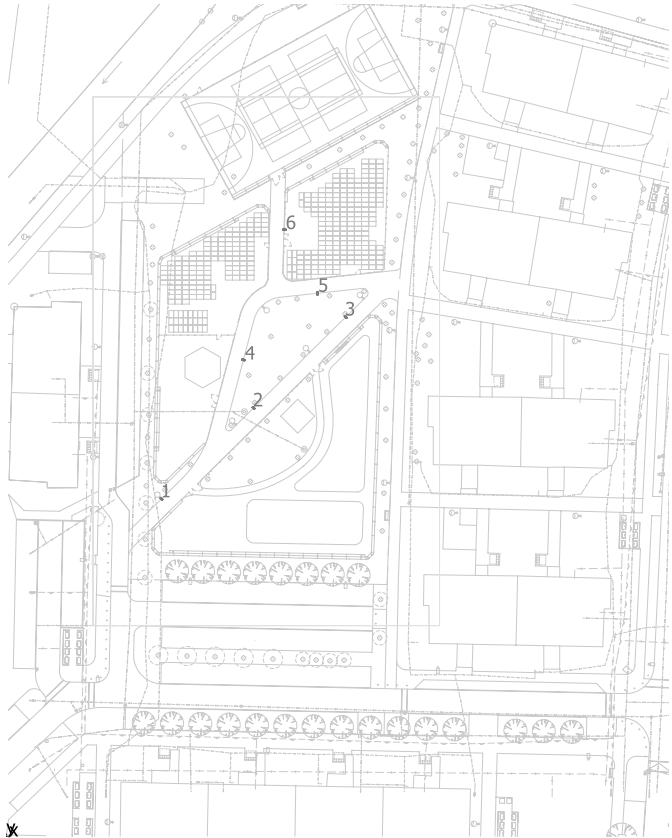
Luma – the vision is reality Luma is a high-performance road-lighting luminaire with a clear design identity, offering a perfectly cooled, fit-and-forget solution for all streets and roads. The lumen package, lifetime and energy profile can be tuned to create the desired solution in terms of energy and cost savings. Luma can be programmed to keep the flux of the LEDs at a predefined constant level over the lifetime of the luminaire – by increasing the operating current over time to compensate for the LED lumen depreciation. This eliminates over-lighting at the beginning, enabling additional extra energy savings. Luma uses the high-performance LEDGINE-O engine with latest LED performance and a wide range of optics to latest standards. Moreover, Luma's truly flat design prevents upward light. To optimize the light distribution for varying road geometries and/or glare restrictions, the tilt angle can easily be adjusted on installation.

Light output ratio: 88.81%
 Lamp luminous flux: 1600 lm
 Luminaire luminous flux: 1421 lm
 Power: 10.8 W
 Luminous efficacy: 131.6 lm/W

Luminous emittance 1 / Polar LDC



Site 1



Philips BGP615 T25 1 xLED16-4S/740 DM50

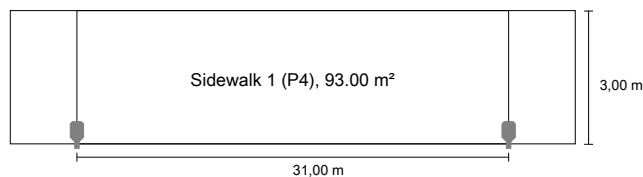
No.	X [m]	Y [m]	Mounting height [m]	Maintenance factor
1	32.268	70.249	4.000	0.86
2	51.457	89.182	4.000	0.86
3	70.646	108.115	4.000	0.86
4	49.334	99.198	4.000	0.86
5	64.774	113.058	4.000	0.86
6	57.873	126.302	4.000	0.86

Site 1

General site information	
Maintenance factor method	CIE 97:2005
Pollution category	Light traffic, dust exposure under 150 microgram/cubic metre
Cleaning interval	3.0 Years
Luminaire	Luminaire maintenance
6 Pieces Philips - BGP615 T25 1 xLED16-4S/740 DM50	
Fitting: 1 Pieces 1xLED16-4S/740 10.8 W	
Cleaning interval	3.0 Years
Flux distribution	Direct
Luminaire type	IP6X, Protected against powerful water jets
Annual operating hours	4100 h
Lamp type	LED
Replacement interval of the lamps	25.0 Years
Immediately replace defective lamps	Yes
Room surface maintenance factor (RMF)	1.00
Luminaire maintenance factor (LMF)	0.90
Lamp lumen maintenance factor (LLMF)	0.96
Lamp survival factor (LSF)	1.00
Maintenance factor (MF)	0.86

Street 1 according to EN 13201:2015

Philips BGP615 T25 1 xLED16-4S/740 DM50



Results for valuation fields

Maintenance factor: 0.86

Sidewalk 1 (P4)

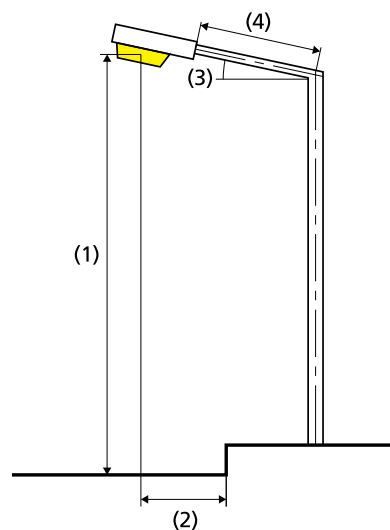
Em [lx] ≥ 5.00 ≤ 7.50	Emin [lx] ≥ 1.00
✓ 5.25	✓ 1.16

Results for energy efficiency indicators

Power density indicator (Dp) 0.022 W/lxm²

Energy consumption density

Arrangement: BGP615 T25 1 xLED16-4S/740 DM50 (43.2 kWh/yr) 0.5 kWh/m² yr



Lamp:	1xLED16-4S/740
Luminous flux (luminaire):	1420.99 lm
Luminous flux (lamp):	1600.00 lm
Operating Hours	
4000 h:	100.0 %, 10.8 W
W/km:	345.6
Arrangement:	single side bottom
Pole distance:	31.000 m
Boom inclination (3):	0.0°
Boom length (4):	0.350 m
Light centre height (1):	4.000 m
Light overhang (2):	0.250 m

ULR: -1.00

ULOR: 0.00

Maximum luminous intensities

at 70° and above 1098 cd/klm *

at 80° and above 48.0 cd/klm *

at 90° and above 0.00 cd/klm *

Luminous intensity class: G*3

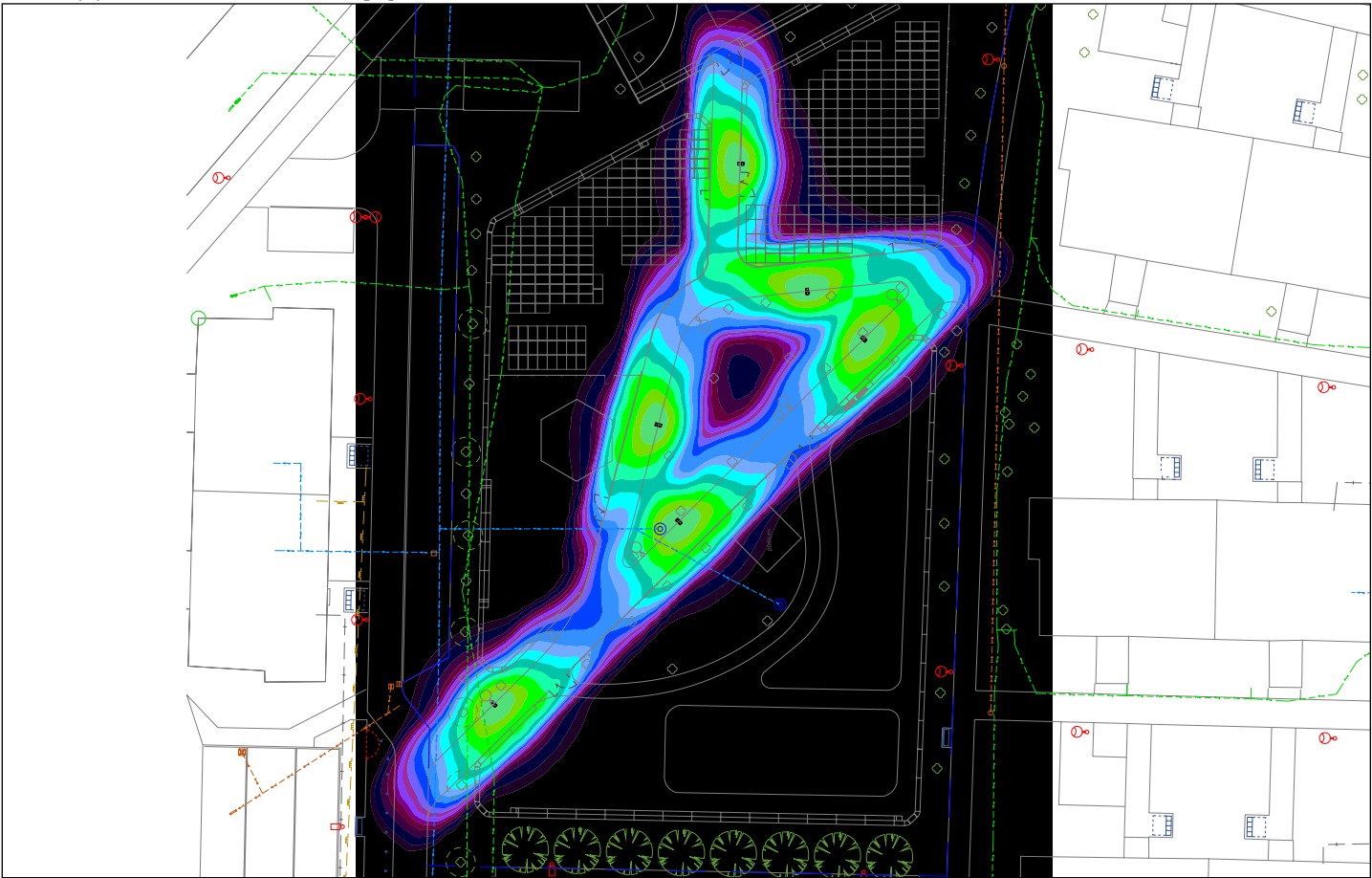
Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.

* Luminous intensity values in [cd/klm] for calculating luminous intensity class refer to the output flux of the luminaire, according EN 13201:2015.

Arrangement complies with glare index class D.6

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Site 1 (3), Illuminance values in [lx]



Scale: 1 : 750

