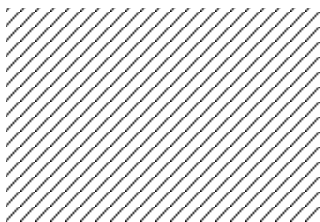




Bobeica

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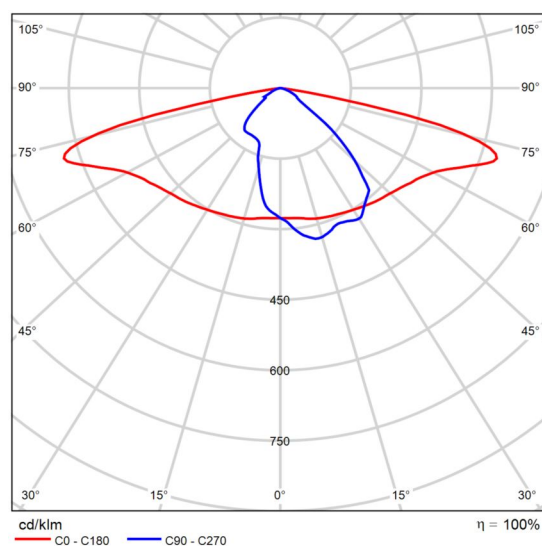
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Product data sheet

Vizulo - Micro Martin 20 W 8 LED



Article No.	MRUE 020 740 BC5 BT008
P	20.0 W
Φ_{Lamp}	2797 lm
$\Phi_{\text{Luminaire}}$	2797 lm
η	100.00 %
Luminous efficacy	139.9 lm/W
CCT	4000 K
CRI	70



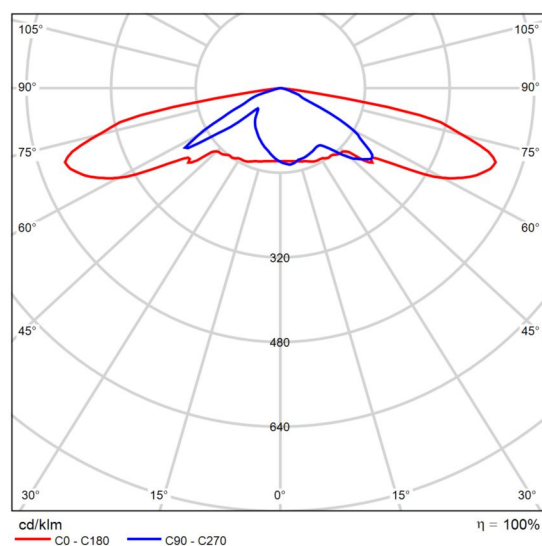
Polar LDC

Product data sheet

Vizulo - Micro Martin 47 W 16 LED

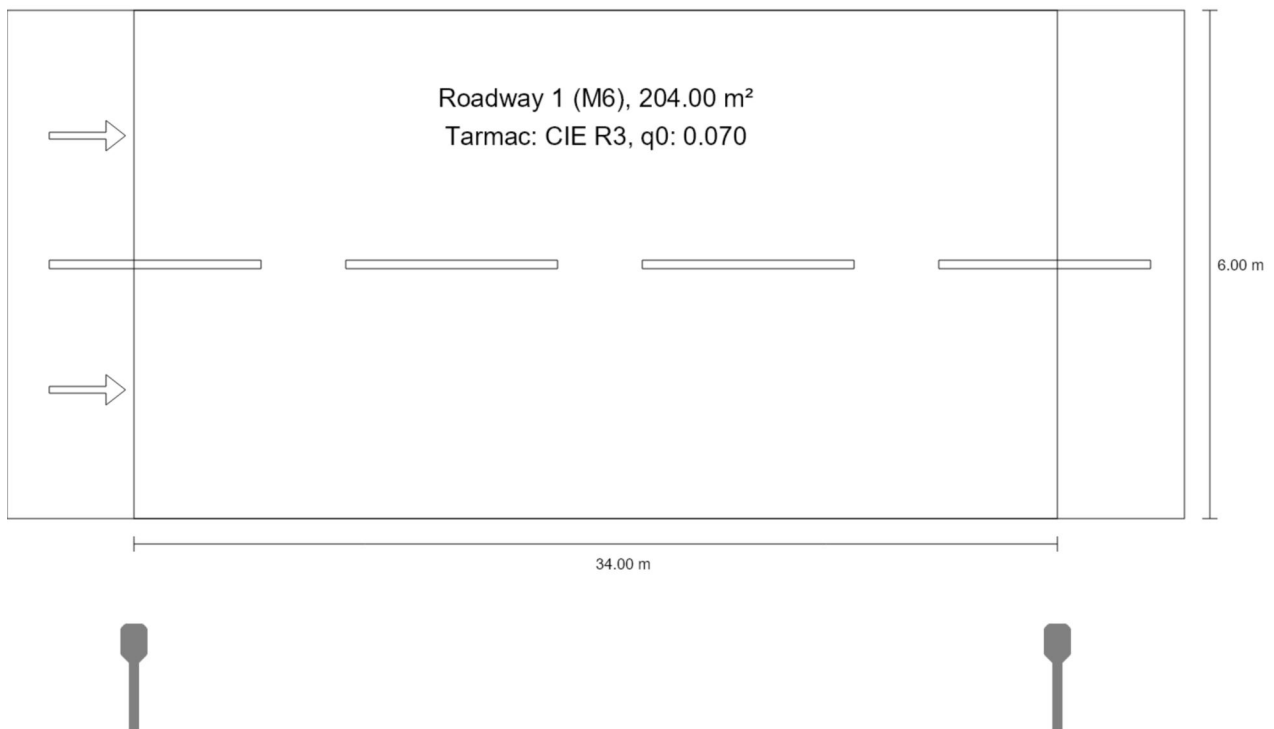


Article No.	MRU 047 740 L19 AA016
P	47.3 W
Φ_{Lamp}	5686 lm
$\Phi_{\text{Luminaire}}$	5686 lm
η	100.00 %
Luminous efficacy	120.2 lm/W
CCT	4000 K
CRI	70



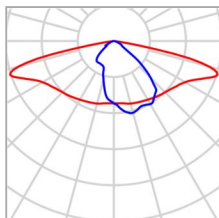
Polar LDC

Street 1

Summary (according to EN 13201:2015)

Street 1

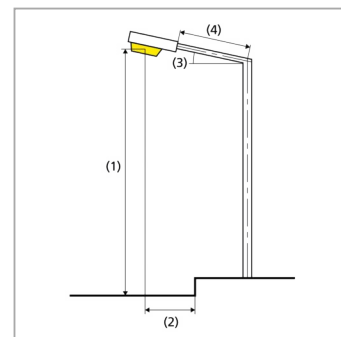
Summary (according to EN 13201:2015)



Manufacturer	Vizulo	P	20.0 W
Article No.	MRUE 020 740 BC5 BT008	Φ_{Lamp}	2797 lm
Article name	Micro Martin 20 W 8 LED	$\Phi_{\text{Luminaire}}$	2797 lm
Fitting	1x 8 LED MOD BT	η	100.00 %

Micro Martin 20 W 8 LED (single side bottom)

Pole distance	34.000 m
(1) Light spot height	8.000 m
(2) Light point overhang	-1.500 m
(3) Boom inclination	0.0°
(4) Boom length	1.000 m
Annual operating hours	4000 h: 100.0 %, 20.0 W
Wattage / route	580.0 W/km
ULR / ULOR	0.00 / 0.00
Max. luminous intensities	$\geq 70^\circ$: 659 cd/klm $\geq 80^\circ$: 229 cd/klm $\geq 90^\circ$: 0.00 cd/klm
Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.	
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
MF	0.85



Street 1

Summary (according to EN 13201:2015)

Results for valuation fields

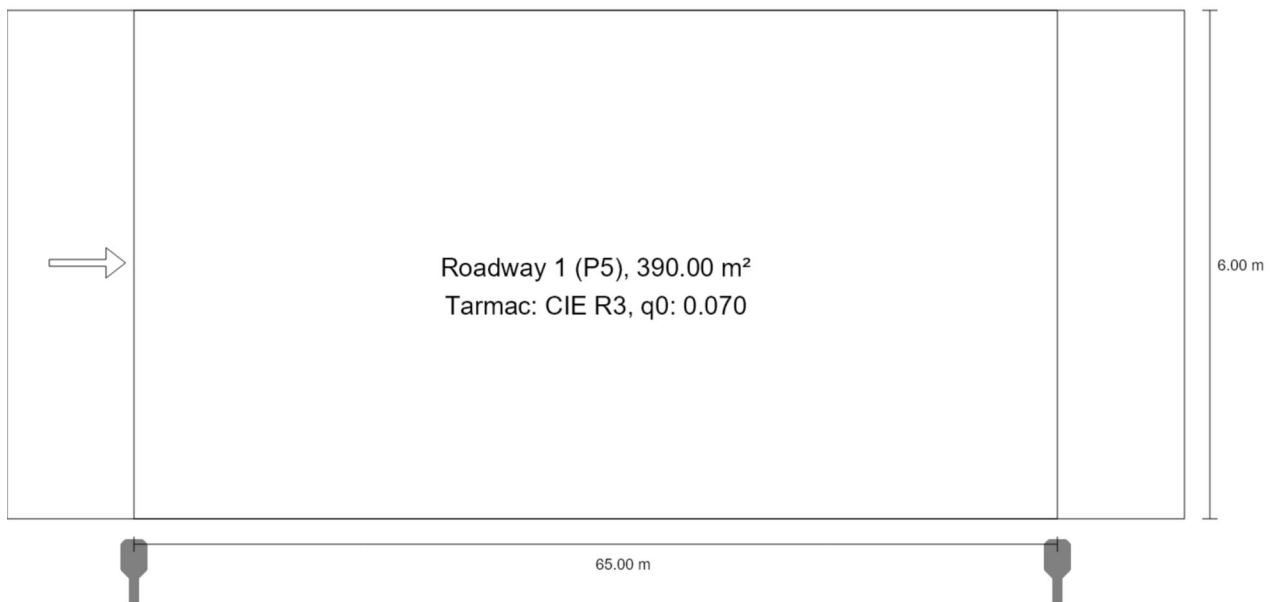
A maintenance factor of 0.85 was used for calculating for the installation.

	Symbol	Calculated	Target	Check
Roadway 1 (M6)	L_{av}	0.33 cd/m ²	≥ 0.30 cd/m ²	✓
	U_o	0.45	≥ 0.35	✓
	U_l	0.86	≥ 0.40	✓
	TI	12 %	≤ 20 %	✓
	R_{EI}	0.43	≥ 0.30	✓

Results for energy efficiency indicators

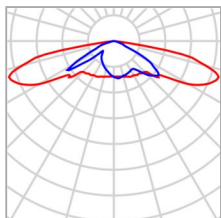
	Symbol	Calculated	Energy Consumption
Street 1	D_p	0.020 W/lx*m ²	–
Micro Martin 20 W 8 LED (single side bottom)	D_e	0.4 kWh/m ² yr	80.0 kWh/yr

Street 2

Summary (according to EN 13201:2015)

Street 2

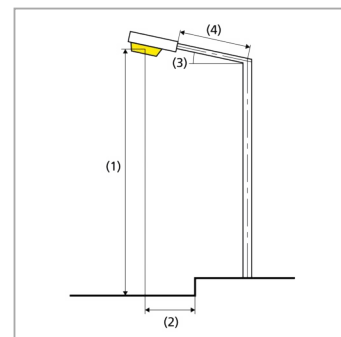
Summary (according to EN 13201:2015)



Manufacturer	Vizulo	P	47.3 W
Article No.	MRU 047 740 L19 AA016	Φ_{Lamp}	5686 lm
Article name	Micro Martin 47 W 16 LED	$\Phi_{\text{Luminaire}}$	5686 lm
Fitting	1x 16 LED MOD AA	η	100.00 %

Micro Martin 47 W 16 LED (single side bottom)

Pole distance	65.000 m
(1) Light spot height	7.000 m
(2) Light point overhang	-0.500 m
(3) Boom inclination	0.0°
(4) Boom length	0.500 m
Annual operating hours	4000 h: 100.0 %, 47.3 W
Wattage / route	709.5 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.	$\geq 70^\circ$: 942 cd/klm $\geq 80^\circ$: 386 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.	–
Glare index class	D.3
MF	0.85



Street 2

Summary (according to EN 13201:2015)

Results for valuation fields

A maintenance factor of 0.85 was used for calculating for the installation.

	Symbol	Calculated	Target	Check
Roadway 1 (P5)	E_{av}	3.41 lx	[3.00 - 4.50] lx	✓
	E_{min}	0.60 lx	≥ 0.60 lx	✓

Results for energy efficiency indicators

	Symbol	Calculated	Energy Consumption
Street 2	D_p	0.036 W/lx*m ²	–
Micro Martin 47 W 16 LED (single side bottom)	D_e	0.5 kWh/m ² yr	189.2 kWh/yr