

Recommended useability → (AC)	Sidewalk and bike path	Sidewalk and bike path	Low-traffic roads, main roads and its pedestrian crossings	Low-traffic roads, main roads and its pedestrian crossings + roundabouts	Semi-traffic roads, main roads and its pedestrian crossings + roundabouts	High-traffic main roads + downtown lighting, pedestrian crossings, roundabouts	High-traffic main roads + Expressways, Highways	High-traffic main roads, Expressways, Highways + sport field lighting
Road safety speed limit →	> 5 = < 30 km/h	> 5 = < 50 km/h	> 5 = < 50 km/h	> 5 = < 50 km/h	> 5 = < 70 km/h	> 5 = < 90 km/h	> 5 = < 110 km/h	> 5 = < 110 km/h
Number of LED s →	12	24	30	48	60	96	144	192
Nominal LED power →	1,05W	1,05W	1,1W	1,1W	1,1W	1,1W	1,1W	1,1W
Nominal LED Amper →	350 mA	350 mA	350 mA	350 mA	350 mA	350 mA	350 mA	350 mA
Nominal power of light source →	12,6W	25,2W	33W	52,8W	66W	105,6W	158,4W	211,2W
Power consumption of light source →	13.2W	26,5W	35.4W	56.5W	71,2W	112W	168,8W	224W
LED operating luminous flux →	99 lm/W	99 lm/W	112 lm/W	112 lm/W	112 lm/W	112 lm/W	112 lm/W	112 lm/W
Light source operating luminous flux→	>1080 lm	>2170 lm	>2790 lm	>4460 lm	>5590 lm	>8920 lm	>13390 lm	>17850 lm
Recommended power input →	12-24 DC 230AC	12-24 DC 230AC	230AC	230AC	230AC	230AC	230AC	230AC
Operating → electricity network (optional)	85-265 V (310V)	85-265 V (310V)	85-265 V (310V)	95-265 V (310V)	85-265 V (310V)	95-265 V (310V)	95-265 V (310V)	95-265 V (310V)
Light source control range (optional) →	0-15W	0-30W	0-38W	0-60W	0-75W	0-120W	0-180W	0-240W
Average lighting area →	> 3 lux / 6m ±20m	> 10 lux / 6m ±15m	> 15 lux / 5m ±15m	>24 lux/ 6m ±12,5m	>28 lux/ 6m ±12,5m	>28 lux / 8m ±15m	>27 lux / 10m ±20m	> 16 lux / 15m ±25m
Harmonic distortion → (electric pollution)	< 20% I <sub>THD</sub>	< 18% I <sub>THD</sub>	< 16% I <sub>THD</sub>	< 16% I <sub>THD</sub>	< 15% I <sub>THD</sub>	< 15% I <sub>THD</sub>	< 14% I <sub>THD</sub>	< 14% I <sub>THD</sub>
Power factor →	> 97%	> 98%	>92%	> 93%	> 93%	> 93%	> 95%	> 95%
Color fidelity →	CRI R <sub>a</sub> > 68%	CRI R <sub>a</sub> > 68%	CRI R <sub>a</sub> > 75%	CRI R <sub>a</sub> > 75%	CRI R <sub>a</sub> > 75%	CRI R <sub>a</sub> > 75%	CRI R <sub>a</sub> > 75%	CRI R <sub>a</sub> > 75%
Optical efficiency → *incl. lens	>92%	>92%	>83%*	>83%*	>83%*	>83%*	>83%*	>83%*
Color temperature →	>= 5500K	>= 5500K	>= 5000K	>= 5000K	>= 5000K	>= 5000K	>= 5000K	>= 5000K