

IP66

IK08



S1MA GENERAL CHARACTERISTICS

| | |
|---------------------------------------|--|
| Applications | Street lighting |
| Optics | N: Narrow V14; R: Regular R-V25; A: Regular Comfort A-V05; W: Wide W-V07; B: Wide B-V08; D: Extra Wide V20; |
| Colour temperature | 1: Cool White 5,500K; 2: Warm White 3,000K; 8: Neutral White 4,000K; |
| CRI and color tolerance (SDCM) | Minimum 70, on request 80 Colour tolerance between several luminaires typical 4 MacAdam steps |
| Photobiological safety class | Exempt Group |
| Insulation class | Class II , Class I upon request |
| Degree of protection | IK08 |
| IP Grade | IP66 |
| Wiring | Internal connections |
| Dimensions | 674 x 380 x 161 mm |
| Weight | 12.5 kg |

ELECTRICAL CHARACTERISTICS

| | |
|--|--|
| Power supply | 220-240 V 50/60 Hz; 120-270 V su richiesta |
| Power factor | > 0,97 (at full load) |
| Control system | Automatic dimming system of the 'virtual midnight' type with up to 5 steps, CLO function. 1-10, DALI-2, Zhaga 18 on request |
| Overvoltage protection | 10kV differential mode, 10kV common mode, SPD 5kA on request |
| Operating temperature | -20°C +40°C |
| Optical unit life (Ta from -10°C to 45°C) | L90 B10 > 100.000 hr |

MATERIALS

| | |
|-----------------|--|
| Fixing | Post top and bracket mounting Suitable for 40 to 76 mm diameter poles |
| Heatsink | Die-cast aluminium |
| Frame | Die-cast aluminium painted RAL 9006 |
| Optics | Multi-layer PMMA lenses |
| Screen | 4 mm thick toughened flat glass resistant to thermal shock and impact |

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.

POWER AND OPTICAL FLUX I N
 (T_{amb}=25°C)

| CODE | Power (W) | 4000K | | Power (W) | 3000K | |
|-----------------|-----------|-----------|------------|-----------|-----------|------------|
| | | Flux (lm) | Efficiency | | Flux (lm) | Efficiency |
| S1MAG __ 012 __ | 128,0 | 17.667 | 138 | 128,0 | 16.784 | 131 |
| S1MAG __ 022 __ | 134,0 | 18.597 | 139 | 134,0 | 17.667 | 132 |
| S1MAG __ 032 __ | 141,0 | 19.435 | 138 | 141,0 | 18.463 | 131 |
| S1MAG __ 042 __ | 149,0 | 20.383 | 137 | 149,0 | 19.364 | 130 |
| S1MAG __ 052 __ | 157,0 | 21.377 | 136 | 157,0 | 20.308 | 129 |
| S1MAG __ 062 __ | 165,0 | 24.635 | 149 | 165,0 | 23.403 | 142 |
| S1MAG __ 072 __ | 174,0 | 23.725 | 136 | 174,0 | 22.539 | 130 |
| S1MAG __ 082 __ | 183,0 | 24.566 | 134 | 183,0 | 23.338 | 128 |
| S1MAG __ 092 __ | 192,0 | 25.666 | 134 | 192,0 | 24.383 | 127 |
| S1MAG __ 102 __ | 203,0 | 26.814 | 132 | 203,0 | 25.473 | 125 |
| S1MAG __ 112 __ | 218,0 | 28.481 | 131 | 218,0 | 27.057 | 124 |
| S1MAG __ 122 __ | 227,0 | 29.375 | 129 | 227,0 | 27.906 | 123 |

POWER AND OPTICAL FLUX I R
 (T_{amb}=25°C)

| CODE | Power (W) | 4000K | | Power (W) | 3000K | |
|-----------------|-----------|-----------|------------|-----------|-----------|------------|
| | | Flux (lm) | Efficiency | | Flux (lm) | Efficiency |
| S1MAG __ 012 __ | 128,0 | 17.612 | 138 | 128,0 | 16.731 | 131 |
| S1MAG __ 022 __ | 134,0 | 18.539 | 138 | 134,0 | 17.612 | 131 |
| S1MAG __ 032 __ | 141,0 | 19.374 | 137 | 141,0 | 18.405 | 131 |
| S1MAG __ 042 __ | 149,0 | 20.319 | 136 | 149,0 | 19.303 | 130 |
| S1MAG __ 052 __ | 157,0 | 21.310 | 136 | 157,0 | 20.245 | 129 |
| S1MAG __ 062 __ | 165,0 | 24.558 | 149 | 165,0 | 23.330 | 141 |
| S1MAG __ 072 __ | 174,0 | 23.651 | 136 | 174,0 | 22.468 | 129 |
| S1MAG __ 082 __ | 183,0 | 24.489 | 134 | 183,0 | 23.265 | 127 |
| S1MAG __ 092 __ | 192,0 | 25.586 | 133 | 192,0 | 24.307 | 127 |
| S1MAG __ 102 __ | 203,0 | 26.730 | 132 | 203,0 | 25.394 | 125 |
| S1MAG __ 112 __ | 218,0 | 28.392 | 130 | 218,0 | 26.972 | 124 |
| S1MAG __ 122 __ | 227,0 | 29.283 | 129 | 227,0 | 27.819 | 123 |

POWER AND OPTICAL FLUX I A
 (T_{amb}=25°C)

| CODE | Power (W) | 4000K | | Power (W) | 3000K | |
|-----------------|-----------|-----------|------------|-----------|-----------|------------|
| | | Flux (lm) | Efficiency | | Flux (lm) | Efficiency |
| S1MAG __ 012 __ | 128,0 | 18.027 | 141 | 128,0 | 17.126 | 134 |
| S1MAG __ 022 __ | 134,0 | 18.976 | 142 | 134,0 | 18.027 | 135 |
| S1MAG __ 032 __ | 141,0 | 19.830 | 141 | 141,0 | 18.839 | 134 |
| S1MAG __ 042 __ | 149,0 | 20.798 | 140 | 149,0 | 19.758 | 133 |
| S1MAG __ 052 __ | 157,0 | 21.812 | 139 | 157,0 | 20.721 | 132 |
| S1MAG __ 062 __ | 165,0 | 25.137 | 152 | 165,0 | 23.880 | 145 |
| S1MAG __ 072 __ | 174,0 | 24.208 | 139 | 174,0 | 22.998 | 132 |
| S1MAG __ 082 __ | 183,0 | 25.066 | 137 | 183,0 | 23.813 | 130 |
| S1MAG __ 092 __ | 192,0 | 26.189 | 136 | 192,0 | 24.879 | 130 |
| S1MAG __ 102 __ | 203,0 | 27.360 | 135 | 203,0 | 25.992 | 128 |
| S1MAG __ 112 __ | 218,0 | 29.061 | 133 | 218,0 | 27.608 | 127 |
| S1MAG __ 122 __ | 227,0 | 29.973 | 132 | 227,0 | 28.474 | 125 |

** Flux tolerance +/- 5%.

Other powers and flows on request.

External connections on request.

POWER AND OPTICAL FLUX I W
 (T_{amb}=25°C)

| CODE | Power (W) | 4000K | | Power (W) | 3000K | |
|-----------------|-----------|-----------|------------|-----------|-----------|------------|
| | | Flux (lm) | Efficiency | | Flux (lm) | Efficiency |
| S1MAG __ 012 __ | 128,0 | 17.898 | 140 | 128,0 | 17.003 | 133 |
| S1MAG __ 022 __ | 134,0 | 18.840 | 141 | 134,0 | 17.898 | 134 |
| S1MAG __ 032 __ | 141,0 | 19.688 | 140 | 141,0 | 18.704 | 133 |
| S1MAG __ 042 __ | 149,0 | 20.649 | 139 | 149,0 | 19.616 | 132 |
| S1MAG __ 052 __ | 157,0 | 21.656 | 138 | 157,0 | 20.573 | 131 |
| S1MAG __ 062 __ | 165,0 | 24.957 | 151 | 165,0 | 23.709 | 144 |
| S1MAG __ 072 __ | 174,0 | 24.035 | 138 | 174,0 | 22.833 | 131 |
| S1MAG __ 082 __ | 183,0 | 24.886 | 136 | 183,0 | 23.642 | 129 |
| S1MAG __ 092 __ | 192,0 | 26.001 | 135 | 192,0 | 24.701 | 129 |
| S1MAG __ 102 __ | 203,0 | 27.164 | 134 | 203,0 | 25.806 | 127 |
| S1MAG __ 112 __ | 218,0 | 28.853 | 132 | 218,0 | 27.410 | 126 |
| S1MAG __ 122 __ | 227,0 | 29.758 | 131 | 227,0 | 28.270 | 125 |

POWER AND OPTICAL FLUX I B
 (T_{amb}=25°C)

| CODE | Power (W) | 4000K | | Power (W) | 3000K | |
|-----------------|-----------|-----------|------------|-----------|-----------|------------|
| | | Flux (lm) | Efficiency | | Flux (lm) | Efficiency |
| S1MAG __ 012 __ | 128,0 | 17.601 | 138 | 128,0 | 16.721 | 131 |
| S1MAG __ 022 __ | 134,0 | 18.528 | 138 | 134,0 | 17.601 | 131 |
| S1MAG __ 032 __ | 141,0 | 19.362 | 137 | 141,0 | 18.394 | 130 |
| S1MAG __ 042 __ | 149,0 | 20.307 | 136 | 149,0 | 19.291 | 129 |
| S1MAG __ 052 __ | 157,0 | 21.297 | 136 | 157,0 | 20.232 | 129 |
| S1MAG __ 062 __ | 165,0 | 24.543 | 149 | 165,0 | 23.316 | 141 |
| S1MAG __ 072 __ | 174,0 | 23.637 | 136 | 174,0 | 22.455 | 129 |
| S1MAG __ 082 __ | 183,0 | 24.474 | 134 | 183,0 | 23.251 | 127 |
| S1MAG __ 092 __ | 192,0 | 25.571 | 133 | 192,0 | 24.292 | 127 |
| S1MAG __ 102 __ | 203,0 | 26.714 | 132 | 203,0 | 25.378 | 125 |
| S1MAG __ 112 __ | 218,0 | 28.375 | 130 | 218,0 | 26.956 | 124 |
| S1MAG __ 122 __ | 227,0 | 29.265 | 129 | 227,0 | 27.802 | 122 |

POWER AND OPTICAL FLUX I D
 (T_{amb}=25°C)

| CODE | Power (W) | 4000K | | Power (W) | 3000K | |
|-----------------|-----------|-----------|------------|-----------|-----------|------------|
| | | Flux (lm) | Efficiency | | Flux (lm) | Efficiency |
| S1MAG __ 012 __ | 128,0 | 17.861 | 140 | 128,0 | 16.968 | 133 |
| S1MAG __ 022 __ | 134,0 | 18.801 | 140 | 134,0 | 17.861 | 133 |
| S1MAG __ 032 __ | 141,0 | 19.648 | 139 | 141,0 | 18.665 | 132 |
| S1MAG __ 042 __ | 149,0 | 20.606 | 138 | 149,0 | 19.576 | 131 |
| S1MAG __ 052 __ | 157,0 | 21.611 | 138 | 157,0 | 20.531 | 131 |
| S1MAG __ 062 __ | 165,0 | 24.905 | 151 | 165,0 | 23.660 | 143 |
| S1MAG __ 072 __ | 174,0 | 23.985 | 138 | 174,0 | 22.786 | 131 |
| S1MAG __ 082 __ | 183,0 | 24.835 | 136 | 183,0 | 23.593 | 129 |
| S1MAG __ 092 __ | 192,0 | 25.948 | 135 | 192,0 | 24.650 | 128 |
| S1MAG __ 102 __ | 203,0 | 27.108 | 134 | 203,0 | 25.752 | 127 |
| S1MAG __ 112 __ | 218,0 | 28.793 | 132 | 218,0 | 27.354 | 125 |
| S1MAG __ 122 __ | 227,0 | 29.697 | 131 | 227,0 | 28.212 | 124 |

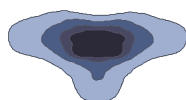
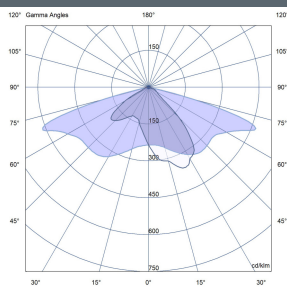
** Flux tolerance +/- 5%.

Other powers and flows on request.

External connections on request.

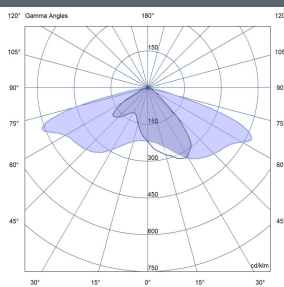
OPTICS

Narrow V14



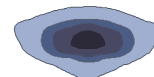
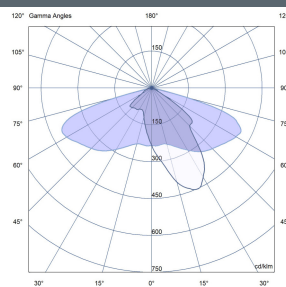
Asymmetrical street optics - Narrow beam
 $L / H = 0,5 \div 0,9$

Regular R-V25



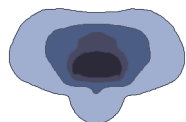
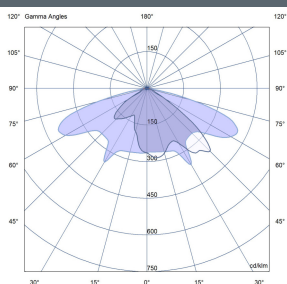
Asymmetrical street optics - Medium beam
 $L / H = 0,9 \div 1,1$

Regular Comfort A-V05



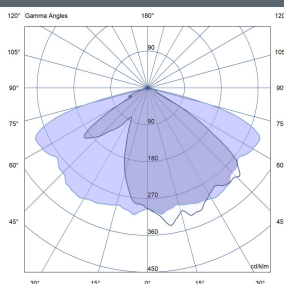
Asymmetrical Optics - Comfort
 $L / H = 1,0$

Wide W-V07



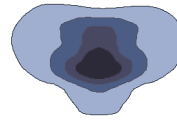
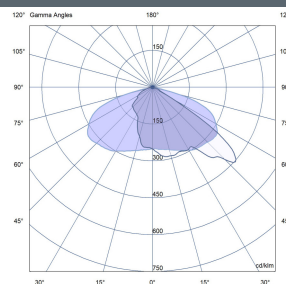
Asymmetrical street optics - Wide beam
 $L / H = 1,1 \div 1,3$

Wide B-V08



Asymmetrical street optics - Wide beam
 $L / H = 1,2 \div 1,5$

Extra Wide V20



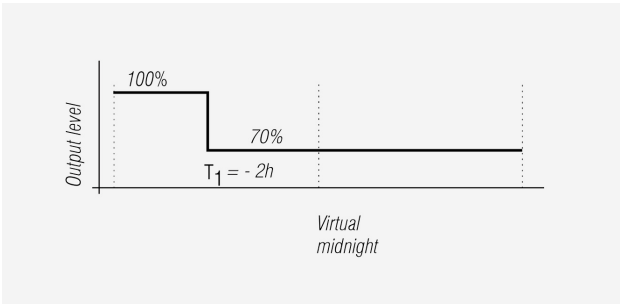
Asymmetrical optics - Very wide beam
 $L / H = 1,3 \div 1,6$

** Flux tolerance +/- 5%.

Other powers and flows on request.
 External connections on request.

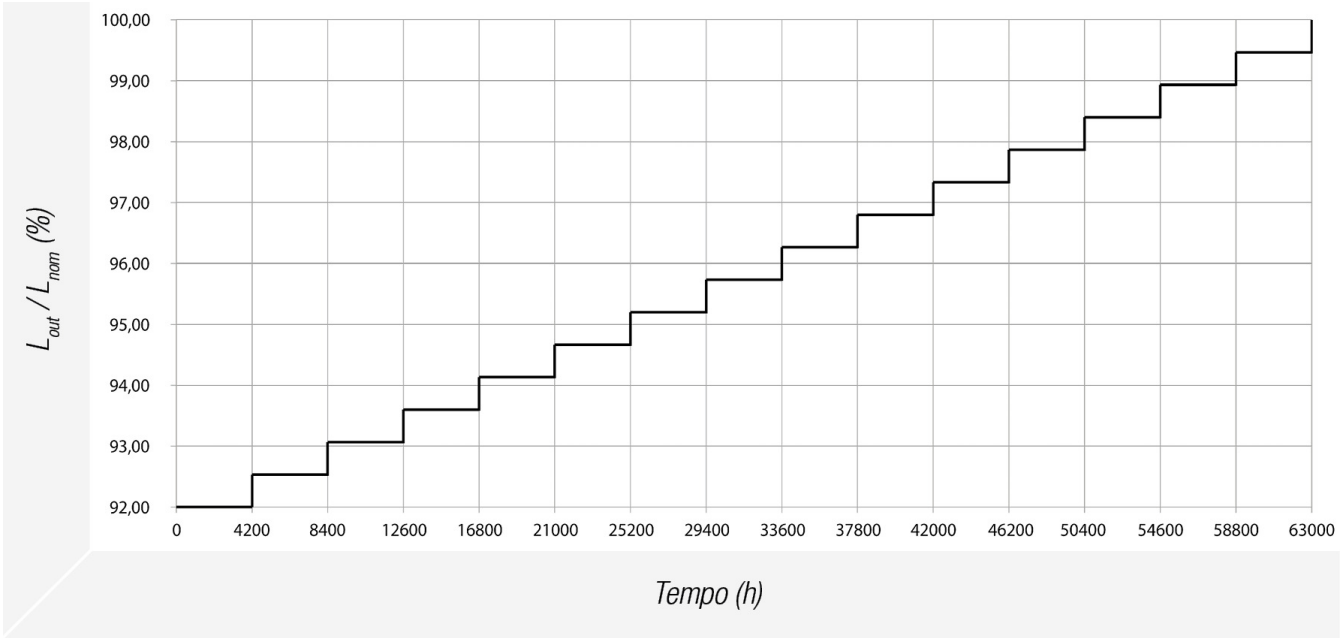
DIMMING

STANDARD VIRTUAL MIDNIGHT PROFILE



For other profiles please contact the sales department.

STANDARD CLO PROFILE



** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.

CODING

| | Optics | LED Color Temperature | Power * | Insulation Class (Input Range) | Dimming | Various |
|-------|-----------------------------------|--|------------------|------------------------------------|---|------------------------------|
| S1MAG | R | 8 | XX | 2 | N | A |
| | N Narrow V14 | 1 Cool White 5,500K | 01 128 | 2 Class II (220-240V) | N No Dimming | A |
| | R Regular R-V25 | 2 Warm White 3,000K | 02 134 | Versions available on request | M Virtual Midnight** | B Extra Suppressor |
| | A Regular Comfort A-V05 | 8 Neutral White 4,000K | 03 141 | | Z Virtual Midnight** + CLO | |
| | W Wide W-V07 | Versions available on request | 04 149 | 1 Class I (120-270V) | L Zhaga 18 + Virtual Midnight** | |
| | B Wide B-V08 | | 05 157 | | Y Zhaga 18 + Virtual Midnight** + CLO | |
| | D Extra Wide V20 | 5 Warm White 2,700K | 06 165 | | | |
| | | 9 Extra Warm White 2,200K | 07 174 | | | |
| | | | 08 183 | | | |
| | | | 09 192 | | | |
| | | | 10 203 | | | |
| | | | 11 218 | | | |
| | | | 12 227 | | | |

** Flux tolerance +/- 5%.

Other powers and flows on request.

External connections on request.