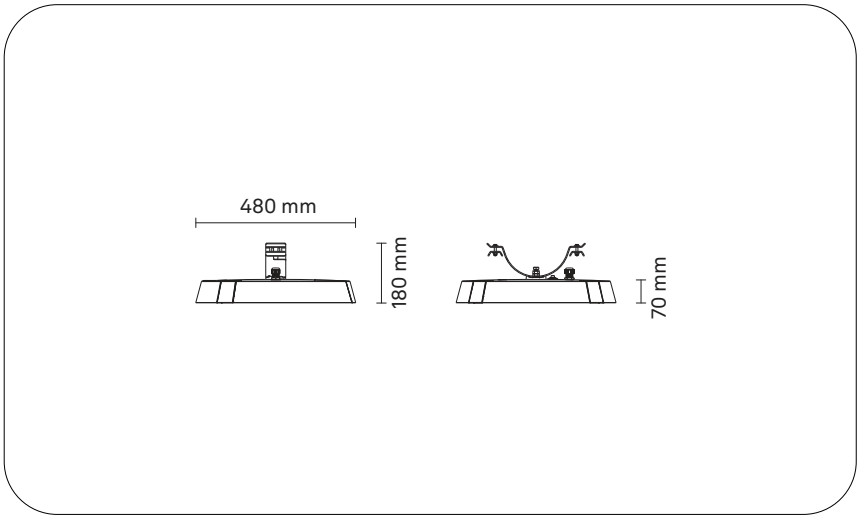
NERI

| | | | |
|---|---|---|---|
| Project location: | | Fixture type: | Qty: |
| Project name: | | Notes: | |

## POLIS CATENARY | LUMINAIRE | POLIS CATENARY






IP66 IK09 Classe II

## ORDERING INFORMATION / GUIDE

Example: **LUPOL03-N-D36-730-L060-ST-V1-F02-M2-CN0**

| OPTIQUE | RA+K | LUMINOUS FLUX | SCREEN FINISH | POWER SUPPLY | DRIVER FUNCTION | ISO CLASS | FINISH |
|---|---|---|---|---|---|---|---|
| **D28** Type I - Center road | **727** Ra70 2700 K | **L025** 2500 lm | **ST** Transparent | **V1** 220V-240V | **F27** ON/OFF+CLO | **M2** Class II | **CN0** Grey [Neri] Textured |
| **D36** Type II - Asymmetric | **730** Ra70 3000 K | **L035** 3500 lm | | | **F02** 1-10V+CLO | | |
| **D22** Type III - B | **740** Ra70 4000 K | **L045** 4500 lm | | | **F06** DALI+CLO | | |
| **D25** Type III - C | | **L060** 6000 lm | | | **F10** D4i+ZHAGA | | |
| **D37** Type III - Asymmetric | | **L075** 7500 lm | | | **F04** Ampdim+CLO | | |
| **D24** Type IV - Forward throw | | **L090** 9000 lm | | | **F14** NVL6H+CLO | | |
| **D38** Type IV - C | | **L105** 10500 lm | | | | | |
| **D30** Type V - Rotosymmetric | | **L120** 12000 lm | | | | | |
| | | **L135** 13500 lm | | | | | |

Generated code: **LUPOL03 - N** - _ _ _ - _ _ _ - _ _ _ _ - _ _ - _ _ - _ _ _ - _ _ - _ _ _

**ON REQUEST**
Non-standard variants and configurations available upon request. Please contact Neri for further information.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## POLIS CATENARY | LUMINAIRE | POLIS CATENARY

### SOURCE

High-power LED matrix.

**Energy-efficiency class:** C, D
**LED forward current:** 306-852 mA
**Power rating:** 13.2-82.5 W
**Nominal Flux:** 2500-13500 lm
**Nominal CCT (Colour temperature):** 2700 K, 3000 K, 4000 K
**Color Rendering Index (Ra):** 70
**Standard Deviation Colour Matching:** ≤5
**ANSI/IES TM-30:** Rf = 73-75 Rg = 93-96
**Rated lifetime:** L90B10 100000 h @ Tq = 25 °C

### LIGHTING CHARACTERISTICS

Modular 2x2 refractive lenses in PMMA.

**Optique:** Type I - Center road, Type II - Asymmetric, Type III - B, Type III - C, Type III - Asymmetric, Type IV - Forward throw, Type IV - C, Type V - Rotosymmetric
**Optical efficiency:** LOR = 100% ULOR = 0%
**LED quantity:** 16, 24, 32, 48
**Cutoff Angle:** Cutoff, Semi Cutoff C = 0, 55° γ = 56, 68°
**Luminous flux:** 2500-13500 lm
**Luminous efficacy:** 141-161 lm/W
**Luminous intensity class:** G*2, G*3, G*4, G*6
**IPEA:** Road A5+ / A11+, Urban A9+ / A12+, Ped A5+ / A10+, Park A5+ / A10+, Art A10+ / A12+
**BUG:** B=1-3, U=0, G=0-3
**Photobiological safety:** RG1 - Low risk

### ELECTRICAL CHARACTERISTICS

Compliant with standards EN 60598-1; EN 60598-2-3; EN 62031; EN 55015 EMC; EN 61547 EMC; EN 61000-3-2/3; IEC/TR 62778.
ENEC safety mark.
ENEC+ safety and performance mark.

**Luminaire power:** 15.7-90.8 W
**Power supply:** 220V-240V~ 50/60Hz
**Power factor:** ≥0.99
**Insulation class:** Class II
**Control type - driver:** ON/OFF+CLO, 1-10V+CLO, DALI+CLO, D4i+ZHAGA, Ampdim+CLO, NVL6H+CLO
**Safe Flicker:** PstLM=<1 e SVM=<0,4 (IEC TR 61547-1 e IEC TR 63158)
**Ambient temperature:** -40 °C / +50 °C
**Driver included:** Yes
**Cable type:** H07RN-F 2X1.5mm², H07RN-F 4X1.5mm²
**Cable length:** 1 m
**Surge protection:** 10kV CM - 10kV DM

### MECHANICAL CHARACTERISTICS

Structure made of die-cast aluminium (UNI EN 1706) with a main body in cast aluminium and an integrated heat sink.
Protective screen in extra-clear screen-printed tempered glass with IK09 impact resistance (EN 62262) and white internal reflector in polycarbonate.
EPDM gasket between glass and upper cover, support with curved flat frame, and ±15° tilting system for vertical adjustment.
3 mm stainless steel safety cable, stainless steel screws, and top cable entry (max Ø12 mm).

**Diameter:** 480 mm
**Height:** 180 mm
**Weight:** 10.5 kg
**Wind-exposed area:** 0.02 m²
**Protection degree:** IP66
**Mechanical resistance:** IK09
**Finish:** Grey [Neri] Textured

### INSTALLATION

Tensioned support for steel cables with maximum diameter Ø 12 mm.
Tilting attachment adjustable ±15°.

### WARNINGS

Luminaire designed for disposal/recycling at end-of-life.
Replaceable (LED only) light source by a professional.
Replaceable control gear by a professional.
Protection of surfaces: please refer to the specification on painting procedures of the materials.


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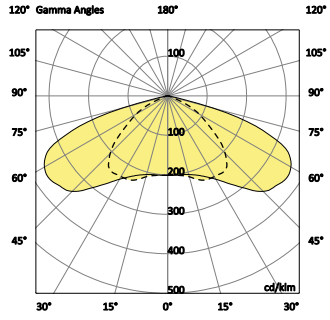
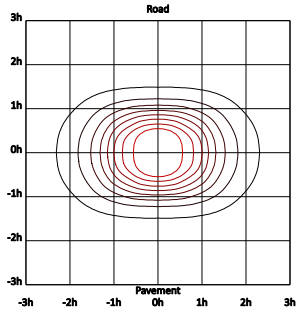
## POLIS CATENARY | LUMINAIRE | POLIS CATENARY

**Optic:** Type I - Center road

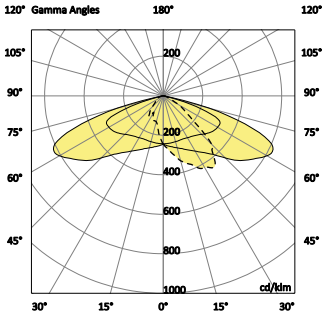
**Screen finish:** Transparent

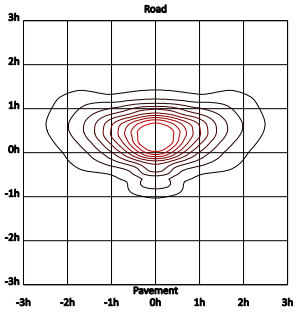



**Optic:** Type II - Asymmetric

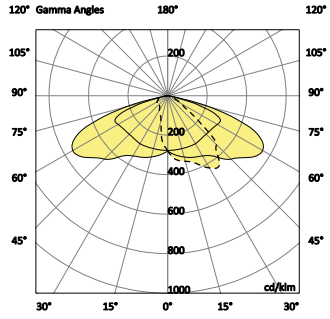
**Screen finish:** Transparent

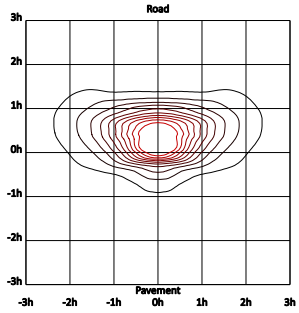



**Optic:** Type III - B

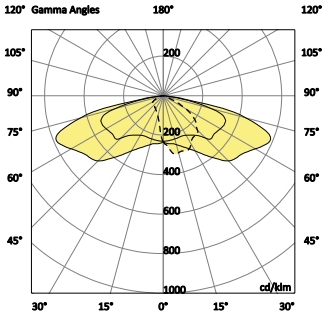
**Screen finish:** Transparent

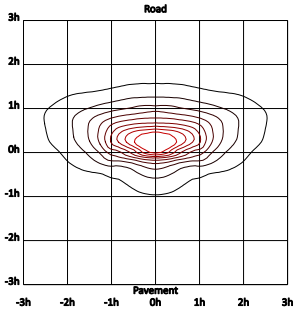



**Optic:** Type III - C

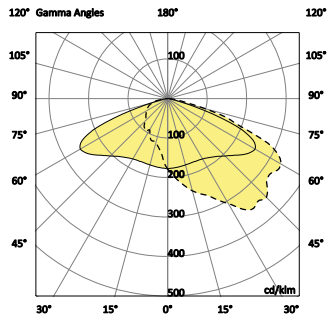
**Screen finish:** Transparent

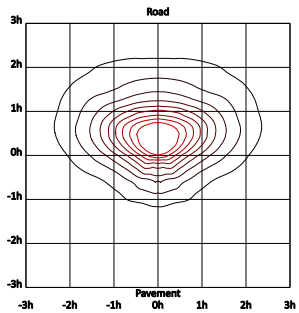



**Optic:** Type III - Asymmetric

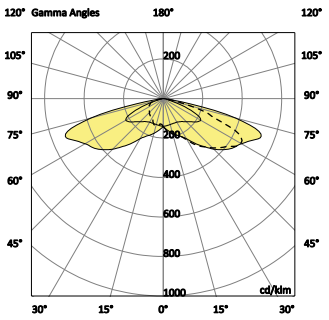
**Screen finish:** Transparent

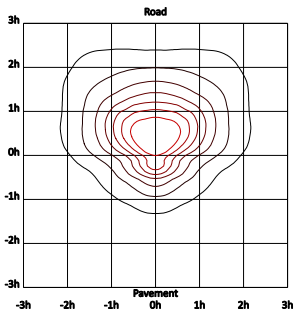



**Optic:** Type IV - Forward throw

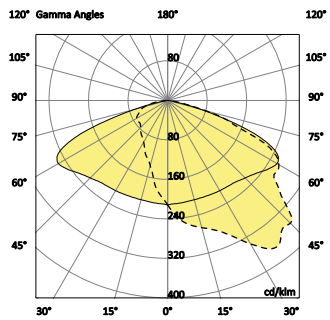
**Screen finish:** Transparent

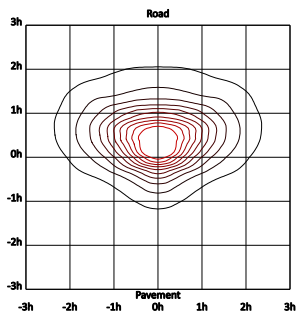



**Optic:** Type IV - C

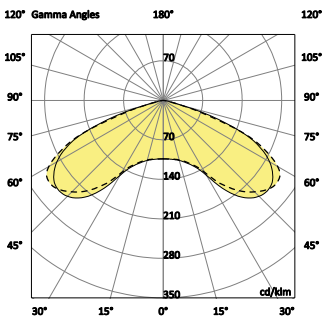
**Screen finish:** Transparent

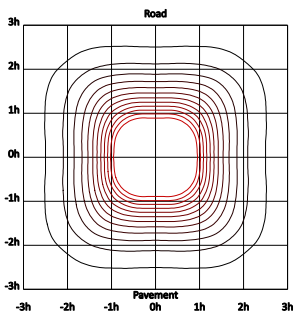



**Optic:** Type V - Rotosymmetric

**Screen finish:** Transparent





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## POLIS CATENARY | LUMINAIRE | POLIS CATENARY

**Optic:** Type I - Center road

**Screen finish:** Transparent

| System | | | | | Source | | | IPEA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Luminous Flux** | **Nominal CCT** | **W** | **lm/W** | **n° led** | **mA** | **W** | **lm/W** | **Road** | **Urban** | **Ped** | **Park** | **Art** |
| 2500 lm | 2700 K | 16.9 | 148 | 16 | 330 | 14.3 | 175 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 2500 lm | 3000 K | 16.4 | 152 | 16 | 322 | 13.9 | 180 | A9+ | A10+ | A9+ | A9+ | A12+ |
| 2500 lm | 4000 K | 15.7 | 159 | 16 | 306 | 13.2 | 189 | A10+ | A11+ | A10+ | A10+ | A12+ |
| 3500 lm | 2700 K | 24.5 | 143 | 16 | 472 | 20.7 | 169 | A8+ | A9+ | A8+ | A8+ | A12+ |
| 3500 lm | 3000 K | 23.9 | 146 | 16 | 458 | 20.1 | 174 | A9+ | A9+ | A8+ | A8+ | A12+ |
| 3500 lm | 4000 K | 22.9 | 153 | 16 | 438 | 19.1 | 183 | A9+ | A10+ | A9+ | A9+ | A12+ |
| 4500 lm | 2700 K | 31.3 | 144 | 16 | 618 | 27.5 | 164 | A8+ | A9+ | A8+ | A8+ | A12+ |
| 4500 lm | 3000 K | 30.4 | 148 | 16 | 602 | 26.7 | 169 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 4500 lm | 4000 K | 29.1 | 155 | 16 | 572 | 25.4 | 177 | A10+ | A11+ | A9+ | A9+ | A12+ |
| 6000 lm | 2700 K | 40.2 | 149 | 24 | 544 | 36 | 167 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 6000 lm | 3000 K | 39.1 | 153 | 24 | 530 | 35 | 171 | A10+ | A10+ | A9+ | A9+ | A12+ |
| 6000 lm | 4000 K | 37.2 | 161 | 24 | 504 | 33.3 | 180 | A11+ | A12+ | A10+ | A10+ | A12+ |
| 7500 lm | 2700 K | 52.4 | 143 | 24 | 694 | 46.6 | 161 | A8+ | A9+ | A8+ | A8+ | A12+ |
| 7500 lm | 3000 K | 51 | 147 | 24 | 674 | 45.2 | 166 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 7500 lm | 4000 K | 48.6 | 154 | 24 | 642 | 42.9 | 175 | A10+ | A11+ | A9+ | A9+ | A12+ |
| 9000 lm | 2700 K | 61.1 | 147 | 32 | 618 | 55 | 164 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 9000 lm | 3000 K | 59.5 | 151 | 32 | 602 | 53.4 | 169 | A9+ | A10+ | A9+ | A9+ | A12+ |
| 9000 lm | 4000 K | 56.6 | 159 | 32 | 572 | 50.7 | 178 | A10+ | A11+ | A10+ | A10+ | A12+ |
| 10500 lm | 2700 K | 72.5 | 145 | 32 | 734 | 65.8 | 160 | A8+ | A9+ | A7+ | A7+ | A12+ |
| 10500 lm | 3000 K | 70.3 | 149 | 32 | 712 | 63.8 | 165 | A8+ | A10+ | A7+ | A7+ | A12+ |
| 10500 lm | 4000 K | 67 | 157 | 32 | 678 | 60.6 | 173 | A9+ | A11+ | A8+ | A8+ | A12+ |
| 12000 lm | 2700 K | 85.1 | 141 | 32 | 852 | 77.1 | 156 | A5+ | A9+ | A5+ | A5+ | A10+ |
| 12000 lm | 3000 K | 82.6 | 145 | 32 | 826 | 74.7 | 161 | A8+ | A9+ | A7+ | A7+ | A12+ |
| 12000 lm | 4000 K | 78.7 | 152 | 32 | 786 | 70.9 | 169 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 13500 lm | 2700 K | 90.8 | 149 | 48 | 618 | 82.5 | 164 | A6+ | A10+ | A6+ | A6+ | A11+ |
| 13500 lm | 3000 K | 88.2 | 153 | 48 | 602 | 80.1 | 169 | A7+ | A10+ | A7+ | A7+ | A12+ |
| 13500 lm | 4000 K | 84.1 | 161 | 48 | 572 | 76.1 | 177 | A10+ | A11+ | A9+ | A9+ | A12+ |


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## POLIS CATENARY | LUMINAIRE | POLIS CATENARY

**Optic:** Type II - Asymmetric

**Screen finish:** Transparent

| System | | | | | Source | | | IPEA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Luminous Flux** | **Nominal CCT** | **W** | **lm/W** | **n° led** | **mA** | **W** | **lm/W** | **Road** | **Urban** | **Ped** | **Park** | **Art** |
| 2500 lm | 2700 K | 16.9 | 148 | 16 | 330 | 14.3 | 175 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 2500 lm | 3000 K | 16.4 | 152 | 16 | 322 | 13.9 | 180 | A9+ | A10+ | A9+ | A9+ | A12+ |
| 2500 lm | 4000 K | 15.7 | 159 | 16 | 306 | 13.2 | 189 | A10+ | A11+ | A10+ | A10+ | A12+ |
| 3500 lm | 2700 K | 24.5 | 143 | 16 | 472 | 20.7 | 169 | A8+ | A9+ | A8+ | A8+ | A12+ |
| 3500 lm | 3000 K | 23.9 | 146 | 16 | 458 | 20.1 | 174 | A9+ | A9+ | A8+ | A8+ | A12+ |
| 3500 lm | 4000 K | 22.9 | 153 | 16 | 438 | 19.1 | 183 | A9+ | A10+ | A9+ | A9+ | A12+ |
| 4500 lm | 2700 K | 31.3 | 144 | 16 | 618 | 27.5 | 164 | A8+ | A9+ | A8+ | A8+ | A12+ |
| 4500 lm | 3000 K | 30.4 | 148 | 16 | 602 | 26.7 | 169 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 4500 lm | 4000 K | 29.1 | 155 | 16 | 572 | 25.4 | 177 | A10+ | A11+ | A9+ | A9+ | A12+ |
| 6000 lm | 2700 K | 40.2 | 149 | 24 | 544 | 36 | 167 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 6000 lm | 3000 K | 39.1 | 153 | 24 | 530 | 35 | 171 | A10+ | A10+ | A9+ | A9+ | A12+ |
| 6000 lm | 4000 K | 37.2 | 161 | 24 | 504 | 33.3 | 180 | A11+ | A12+ | A10+ | A10+ | A12+ |
| 7500 lm | 2700 K | 52.4 | 143 | 24 | 694 | 46.6 | 161 | A8+ | A9+ | A8+ | A8+ | A12+ |
| 7500 lm | 3000 K | 51 | 147 | 24 | 674 | 45.2 | 166 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 7500 lm | 4000 K | 48.6 | 154 | 24 | 642 | 42.9 | 175 | A10+ | A11+ | A9+ | A9+ | A12+ |
| 9000 lm | 2700 K | 61.1 | 147 | 32 | 618 | 55 | 164 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 9000 lm | 3000 K | 59.5 | 151 | 32 | 602 | 53.4 | 169 | A9+ | A10+ | A9+ | A9+ | A12+ |
| 9000 lm | 4000 K | 56.6 | 159 | 32 | 572 | 50.7 | 178 | A10+ | A11+ | A10+ | A10+ | A12+ |
| 10500 lm | 2700 K | 72.5 | 145 | 32 | 734 | 65.8 | 160 | A8+ | A9+ | A7+ | A7+ | A12+ |
| 10500 lm | 3000 K | 70.3 | 149 | 32 | 712 | 63.8 | 165 | A8+ | A10+ | A7+ | A7+ | A12+ |
| 10500 lm | 4000 K | 67 | 157 | 32 | 678 | 60.6 | 173 | A9+ | A11+ | A8+ | A8+ | A12+ |
| 12000 lm | 2700 K | 85.1 | 141 | 32 | 852 | 77.1 | 156 | A5+ | A9+ | A5+ | A5+ | A10+ |
| 12000 lm | 3000 K | 82.6 | 145 | 32 | 826 | 74.7 | 161 | A8+ | A9+ | A7+ | A7+ | A12+ |
| 12000 lm | 4000 K | 78.7 | 152 | 32 | 786 | 70.9 | 169 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 13500 lm | 2700 K | 90.8 | 149 | 48 | 618 | 82.5 | 164 | A6+ | A10+ | A6+ | A6+ | A11+ |
| 13500 lm | 3000 K | 88.2 | 153 | 48 | 602 | 80.1 | 169 | A7+ | A10+ | A7+ | A7+ | A12+ |
| 13500 lm | 4000 K | 84.1 | 161 | 48 | 572 | 76.1 | 177 | A10+ | A11+ | A9+ | A9+ | A12+ |


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## POLIS CATENARY | LUMINAIRE | POLIS CATENARY

**Optic:** Type III - B

**Screen finish:** Transparent

| System | | | | | Source | | | IPEA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Luminous Flux** | **Nominal CCT** | **W** | **lm/W** | **n° led** | **mA** | **W** | **lm/W** | **Road** | **Urban** | **Ped** | **Park** | **Art** |
| 2500 lm | 2700 K | 16.9 | 148 | 16 | 330 | 14.3 | 175 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 2500 lm | 3000 K | 16.4 | 152 | 16 | 322 | 13.9 | 180 | A9+ | A10+ | A9+ | A9+ | A12+ |
| 2500 lm | 4000 K | 15.7 | 159 | 16 | 306 | 13.2 | 189 | A10+ | A11+ | A10+ | A10+ | A12+ |
| 3500 lm | 2700 K | 24.5 | 143 | 16 | 472 | 20.7 | 169 | A8+ | A9+ | A8+ | A8+ | A12+ |
| 3500 lm | 3000 K | 23.9 | 146 | 16 | 458 | 20.1 | 174 | A9+ | A9+ | A8+ | A8+ | A12+ |
| 3500 lm | 4000 K | 22.9 | 153 | 16 | 438 | 19.1 | 183 | A9+ | A10+ | A9+ | A9+ | A12+ |
| 4500 lm | 2700 K | 31.3 | 144 | 16 | 618 | 27.5 | 164 | A8+ | A9+ | A8+ | A8+ | A12+ |
| 4500 lm | 3000 K | 30.4 | 148 | 16 | 602 | 26.7 | 169 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 4500 lm | 4000 K | 29.1 | 155 | 16 | 572 | 25.4 | 177 | A10+ | A11+ | A9+ | A9+ | A12+ |
| 6000 lm | 2700 K | 40.2 | 149 | 24 | 544 | 36 | 167 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 6000 lm | 3000 K | 39.1 | 153 | 24 | 530 | 35 | 171 | A10+ | A10+ | A9+ | A9+ | A12+ |
| 6000 lm | 4000 K | 37.2 | 161 | 24 | 504 | 33.3 | 180 | A11+ | A12+ | A10+ | A10+ | A12+ |
| 7500 lm | 2700 K | 52.4 | 143 | 24 | 694 | 46.6 | 161 | A8+ | A9+ | A8+ | A8+ | A12+ |
| 7500 lm | 3000 K | 51 | 147 | 24 | 674 | 45.2 | 166 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 7500 lm | 4000 K | 48.6 | 154 | 24 | 642 | 42.9 | 175 | A10+ | A11+ | A9+ | A9+ | A12+ |
| 9000 lm | 2700 K | 61.1 | 147 | 32 | 618 | 55 | 164 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 9000 lm | 3000 K | 59.5 | 151 | 32 | 602 | 53.4 | 169 | A9+ | A10+ | A9+ | A9+ | A12+ |
| 9000 lm | 4000 K | 56.6 | 159 | 32 | 572 | 50.7 | 178 | A10+ | A11+ | A10+ | A10+ | A12+ |
| 10500 lm | 2700 K | 72.5 | 145 | 32 | 734 | 65.8 | 160 | A8+ | A9+ | A7+ | A7+ | A12+ |
| 10500 lm | 3000 K | 70.3 | 149 | 32 | 712 | 63.8 | 165 | A8+ | A10+ | A7+ | A7+ | A12+ |
| 10500 lm | 4000 K | 67 | 157 | 32 | 678 | 60.6 | 173 | A9+ | A11+ | A8+ | A8+ | A12+ |
| 12000 lm | 2700 K | 85.1 | 141 | 32 | 852 | 77.1 | 156 | A5+ | A9+ | A5+ | A5+ | A10+ |
| 12000 lm | 3000 K | 82.6 | 145 | 32 | 826 | 74.7 | 161 | A8+ | A9+ | A7+ | A7+ | A12+ |
| 12000 lm | 4000 K | 78.7 | 152 | 32 | 786 | 70.9 | 169 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 13500 lm | 2700 K | 90.8 | 149 | 48 | 618 | 82.5 | 164 | A6+ | A10+ | A6+ | A6+ | A11+ |
| 13500 lm | 3000 K | 88.2 | 153 | 48 | 602 | 80.1 | 169 | A7+ | A10+ | A7+ | A7+ | A12+ |
| 13500 lm | 4000 K | 84.1 | 161 | 48 | 572 | 76.1 | 177 | A10+ | A11+ | A9+ | A9+ | A12+ |


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## POLIS CATENARY | LUMINAIRE | POLIS CATENARY

**Optic:** Type III - C

**Screen finish:** Transparent

| System | | | | | Source | | | IPEA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Luminous Flux | Nominal CCT | W | lm/W | n° led | mA | W | lm/W | Road | Urban | Ped | Park | Art |
| 2500 lm | 2700 K | 16.9 | 148 | 16 | 330 | 14.3 | 175 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 2500 lm | 3000 K | 16.4 | 152 | 16 | 322 | 13.9 | 180 | A9+ | A10+ | A9+ | A9+ | A12+ |
| 2500 lm | 4000 K | 15.7 | 159 | 16 | 306 | 13.2 | 189 | A10+ | A11+ | A10+ | A10+ | A12+ |
| 3500 lm | 2700 K | 24.5 | 143 | 16 | 472 | 20.7 | 169 | A8+ | A9+ | A8+ | A8+ | A12+ |
| 3500 lm | 3000 K | 23.9 | 146 | 16 | 458 | 20.1 | 174 | A9+ | A9+ | A8+ | A8+ | A12+ |
| 3500 lm | 4000 K | 22.9 | 153 | 16 | 438 | 19.1 | 183 | A9+ | A10+ | A9+ | A9+ | A12+ |
| 4500 lm | 2700 K | 31.3 | 144 | 16 | 618 | 27.5 | 164 | A8+ | A9+ | A8+ | A8+ | A12+ |
| 4500 lm | 3000 K | 30.4 | 148 | 16 | 602 | 26.7 | 169 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 4500 lm | 4000 K | 29.1 | 155 | 16 | 572 | 25.4 | 177 | A10+ | A11+ | A9+ | A9+ | A12+ |
| 6000 lm | 2700 K | 40.2 | 149 | 24 | 544 | 36 | 167 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 6000 lm | 3000 K | 39.1 | 153 | 24 | 530 | 35 | 171 | A10+ | A10+ | A9+ | A9+ | A12+ |
| 6000 lm | 4000 K | 37.2 | 161 | 24 | 504 | 33.3 | 180 | A11+ | A12+ | A10+ | A10+ | A12+ |
| 7500 lm | 2700 K | 52.4 | 143 | 24 | 694 | 46.6 | 161 | A8+ | A9+ | A8+ | A8+ | A12+ |
| 7500 lm | 3000 K | 51 | 147 | 24 | 674 | 45.2 | 166 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 7500 lm | 4000 K | 48.6 | 154 | 24 | 642 | 42.9 | 175 | A10+ | A11+ | A9+ | A9+ | A12+ |
| 9000 lm | 2700 K | 61.1 | 147 | 32 | 618 | 55 | 164 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 9000 lm | 3000 K | 59.5 | 151 | 32 | 602 | 53.4 | 169 | A9+ | A10+ | A9+ | A9+ | A12+ |
| 9000 lm | 4000 K | 56.6 | 159 | 32 | 572 | 50.7 | 178 | A10+ | A11+ | A10+ | A10+ | A12+ |
| 10500 lm | 2700 K | 72.5 | 145 | 32 | 734 | 65.8 | 160 | A8+ | A9+ | A7+ | A7+ | A12+ |
| 10500 lm | 3000 K | 70.3 | 149 | 32 | 712 | 63.8 | 165 | A8+ | A10+ | A7+ | A7+ | A12+ |
| 10500 lm | 4000 K | 67 | 157 | 32 | 678 | 60.6 | 173 | A9+ | A11+ | A8+ | A8+ | A12+ |
| 12000 lm | 2700 K | 85.1 | 141 | 32 | 852 | 77.1 | 156 | A5+ | A9+ | A5+ | A5+ | A10+ |
| 12000 lm | 3000 K | 82.6 | 145 | 32 | 826 | 74.7 | 161 | A8+ | A9+ | A7+ | A7+ | A12+ |
| 12000 lm | 4000 K | 78.7 | 152 | 32 | 786 | 70.9 | 169 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 13500 lm | 2700 K | 90.8 | 149 | 48 | 618 | 82.5 | 164 | A6+ | A10+ | A6+ | A6+ | A11+ |
| 13500 lm | 3000 K | 88.2 | 153 | 48 | 602 | 80.1 | 169 | A7+ | A10+ | A7+ | A7+ | A12+ |
| 13500 lm | 4000 K | 84.1 | 161 | 48 | 572 | 76.1 | 177 | A10+ | A11+ | A9+ | A9+ | A12+ |


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## POLIS CATENARY | LUMINAIRE | POLIS CATENARY

**Optic:** Type III - Asymmetric

**Screen finish:** Transparent

| System | | | | | Source | | | IPEA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Luminous Flux** | **Nominal CCT** | **W** | **lm/W** | **n° led** | **mA** | **W** | **lm/W** | **Road** | **Urban** | **Ped** | **Park** | **Art** |
| 2500 lm | 2700 K | 16.9 | 148 | 16 | 330 | 14.3 | 175 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 2500 lm | 3000 K | 16.4 | 152 | 16 | 322 | 13.9 | 180 | A9+ | A10+ | A9+ | A9+ | A12+ |
| 2500 lm | 4000 K | 15.7 | 159 | 16 | 306 | 13.2 | 189 | A10+ | A11+ | A10+ | A10+ | A12+ |
| 3500 lm | 2700 K | 24.5 | 143 | 16 | 472 | 20.7 | 169 | A8+ | A9+ | A8+ | A8+ | A12+ |
| 3500 lm | 3000 K | 23.9 | 146 | 16 | 458 | 20.1 | 174 | A9+ | A9+ | A8+ | A8+ | A12+ |
| 3500 lm | 4000 K | 22.9 | 153 | 16 | 438 | 19.1 | 183 | A9+ | A10+ | A9+ | A9+ | A12+ |
| 4500 lm | 2700 K | 31.3 | 144 | 16 | 618 | 27.5 | 164 | A8+ | A9+ | A8+ | A8+ | A12+ |
| 4500 lm | 3000 K | 30.4 | 148 | 16 | 602 | 26.7 | 169 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 4500 lm | 4000 K | 29.1 | 155 | 16 | 572 | 25.4 | 177 | A10+ | A11+ | A9+ | A9+ | A12+ |
| 6000 lm | 2700 K | 40.2 | 149 | 24 | 544 | 36 | 167 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 6000 lm | 3000 K | 39.1 | 153 | 24 | 530 | 35 | 171 | A10+ | A10+ | A9+ | A9+ | A12+ |
| 6000 lm | 4000 K | 37.2 | 161 | 24 | 504 | 33.3 | 180 | A11+ | A12+ | A10+ | A10+ | A12+ |
| 7500 lm | 2700 K | 52.4 | 143 | 24 | 694 | 46.6 | 161 | A8+ | A9+ | A8+ | A8+ | A12+ |
| 7500 lm | 3000 K | 51 | 147 | 24 | 674 | 45.2 | 166 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 7500 lm | 4000 K | 48.6 | 154 | 24 | 642 | 42.9 | 175 | A10+ | A11+ | A9+ | A9+ | A12+ |
| 9000 lm | 2700 K | 61.1 | 147 | 32 | 618 | 55 | 164 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 9000 lm | 3000 K | 59.5 | 151 | 32 | 602 | 53.4 | 169 | A9+ | A10+ | A9+ | A9+ | A12+ |
| 9000 lm | 4000 K | 56.6 | 159 | 32 | 572 | 50.7 | 178 | A10+ | A11+ | A10+ | A10+ | A12+ |
| 10500 lm | 2700 K | 72.5 | 145 | 32 | 734 | 65.8 | 160 | A8+ | A9+ | A7+ | A7+ | A12+ |
| 10500 lm | 3000 K | 70.3 | 149 | 32 | 712 | 63.8 | 165 | A8+ | A10+ | A7+ | A7+ | A12+ |
| 10500 lm | 4000 K | 67 | 157 | 32 | 678 | 60.6 | 173 | A9+ | A11+ | A8+ | A8+ | A12+ |
| 12000 lm | 2700 K | 85.1 | 141 | 32 | 852 | 77.1 | 156 | A5+ | A9+ | A5+ | A5+ | A10+ |
| 12000 lm | 3000 K | 82.6 | 145 | 32 | 826 | 74.7 | 161 | A8+ | A9+ | A7+ | A7+ | A12+ |
| 12000 lm | 4000 K | 78.7 | 152 | 32 | 786 | 70.9 | 169 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 13500 lm | 2700 K | 90.8 | 149 | 48 | 618 | 82.5 | 164 | A6+ | A10+ | A6+ | A6+ | A11+ |
| 13500 lm | 3000 K | 88.2 | 153 | 48 | 602 | 80.1 | 169 | A7+ | A10+ | A7+ | A7+ | A12+ |
| 13500 lm | 4000 K | 84.1 | 161 | 48 | 572 | 76.1 | 177 | A10+ | A11+ | A9+ | A9+ | A12+ |


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## POLIS CATENARY | LUMINAIRE | POLIS CATENARY

**Optic:** Type IV - Forward throw

**Screen finish:** Transparent

| System | | | | | Source | | | IPEA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Luminous Flux | Nominal CCT | W | lm/W | n° led | mA | W | lm/W | Road | Urban | Ped | Park | Art |
| 2500 lm | 2700 K | 16.9 | 148 | 16 | 330 | 14.3 | 175 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 2500 lm | 3000 K | 16.4 | 152 | 16 | 322 | 13.9 | 180 | A9+ | A10+ | A9+ | A9+ | A12+ |
| 2500 lm | 4000 K | 15.7 | 159 | 16 | 306 | 13.2 | 189 | A10+ | A11+ | A10+ | A10+ | A12+ |
| 3500 lm | 2700 K | 24.5 | 143 | 16 | 472 | 20.7 | 169 | A8+ | A9+ | A8+ | A8+ | A12+ |
| 3500 lm | 3000 K | 23.9 | 146 | 16 | 458 | 20.1 | 174 | A9+ | A9+ | A8+ | A8+ | A12+ |
| 3500 lm | 4000 K | 22.9 | 153 | 16 | 438 | 19.1 | 183 | A9+ | A10+ | A9+ | A9+ | A12+ |
| 4500 lm | 2700 K | 31.3 | 144 | 16 | 618 | 27.5 | 164 | A8+ | A9+ | A8+ | A8+ | A12+ |
| 4500 lm | 3000 K | 30.4 | 148 | 16 | 602 | 26.7 | 169 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 4500 lm | 4000 K | 29.1 | 155 | 16 | 572 | 25.4 | 177 | A10+ | A11+ | A9+ | A9+ | A12+ |
| 6000 lm | 2700 K | 40.2 | 149 | 24 | 544 | 36 | 167 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 6000 lm | 3000 K | 39.1 | 153 | 24 | 530 | 35 | 171 | A10+ | A10+ | A9+ | A9+ | A12+ |
| 6000 lm | 4000 K | 37.2 | 161 | 24 | 504 | 33.3 | 180 | A11+ | A12+ | A10+ | A10+ | A12+ |
| 7500 lm | 2700 K | 52.4 | 143 | 24 | 694 | 46.6 | 161 | A8+ | A9+ | A8+ | A8+ | A12+ |
| 7500 lm | 3000 K | 51 | 147 | 24 | 674 | 45.2 | 166 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 7500 lm | 4000 K | 48.6 | 154 | 24 | 642 | 42.9 | 175 | A10+ | A11+ | A9+ | A9+ | A12+ |
| 9000 lm | 2700 K | 61.1 | 147 | 32 | 618 | 55 | 164 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 9000 lm | 3000 K | 59.5 | 151 | 32 | 602 | 53.4 | 169 | A9+ | A10+ | A9+ | A9+ | A12+ |
| 9000 lm | 4000 K | 56.6 | 159 | 32 | 572 | 50.7 | 178 | A10+ | A11+ | A10+ | A10+ | A12+ |
| 10500 lm | 2700 K | 72.5 | 145 | 32 | 734 | 65.8 | 160 | A8+ | A9+ | A7+ | A7+ | A12+ |
| 10500 lm | 3000 K | 70.3 | 149 | 32 | 712 | 63.8 | 165 | A8+ | A10+ | A7+ | A7+ | A12+ |
| 10500 lm | 4000 K | 67 | 157 | 32 | 678 | 60.6 | 173 | A9+ | A11+ | A8+ | A8+ | A12+ |
| 12000 lm | 2700 K | 85.1 | 141 | 32 | 852 | 77.1 | 156 | A5+ | A9+ | A5+ | A5+ | A10+ |
| 12000 lm | 3000 K | 82.6 | 145 | 32 | 826 | 74.7 | 161 | A8+ | A9+ | A7+ | A7+ | A12+ |
| 12000 lm | 4000 K | 78.7 | 152 | 32 | 786 | 70.9 | 169 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 13500 lm | 2700 K | 90.8 | 149 | 48 | 618 | 82.5 | 164 | A6+ | A10+ | A6+ | A6+ | A11+ |
| 13500 lm | 3000 K | 88.2 | 153 | 48 | 602 | 80.1 | 169 | A7+ | A10+ | A7+ | A7+ | A12+ |
| 13500 lm | 4000 K | 84.1 | 161 | 48 | 572 | 76.1 | 177 | A10+ | A11+ | A9+ | A9+ | A12+ |


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## POLIS CATENARY | LUMINAIRE | POLIS CATENARY

**Optic:** Type IV - C

**Screen finish:** Transparent

| System | | | | | Source | | | IPEA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Luminous Flux | Nominal CCT | W | lm/W | n° led | mA | W | lm/W | Road | Urban | Ped | Park | Art |
| 2500 lm | 2700 K | 16.9 | 148 | 16 | 330 | 14.3 | 175 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 2500 lm | 3000 K | 16.4 | 152 | 16 | 322 | 13.9 | 180 | A9+ | A10+ | A9+ | A9+ | A12+ |
| 2500 lm | 4000 K | 15.7 | 159 | 16 | 306 | 13.2 | 189 | A10+ | A11+ | A10+ | A10+ | A12+ |
| 3500 lm | 2700 K | 24.5 | 143 | 16 | 472 | 20.7 | 169 | A8+ | A9+ | A8+ | A8+ | A12+ |
| 3500 lm | 3000 K | 23.9 | 146 | 16 | 458 | 20.1 | 174 | A9+ | A9+ | A8+ | A8+ | A12+ |
| 3500 lm | 4000 K | 22.9 | 153 | 16 | 438 | 19.1 | 183 | A9+ | A10+ | A9+ | A9+ | A12+ |
| 4500 lm | 2700 K | 31.3 | 144 | 16 | 618 | 27.5 | 164 | A8+ | A9+ | A8+ | A8+ | A12+ |
| 4500 lm | 3000 K | 30.4 | 148 | 16 | 602 | 26.7 | 169 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 4500 lm | 4000 K | 29.1 | 155 | 16 | 572 | 25.4 | 177 | A10+ | A11+ | A9+ | A9+ | A12+ |
| 6000 lm | 2700 K | 40.2 | 149 | 24 | 544 | 36 | 167 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 6000 lm | 3000 K | 39.1 | 153 | 24 | 530 | 35 | 171 | A10+ | A10+ | A9+ | A9+ | A12+ |
| 6000 lm | 4000 K | 37.2 | 161 | 24 | 504 | 33.3 | 180 | A11+ | A12+ | A10+ | A10+ | A12+ |
| 7500 lm | 2700 K | 52.4 | 143 | 24 | 694 | 46.6 | 161 | A8+ | A9+ | A8+ | A8+ | A12+ |
| 7500 lm | 3000 K | 51 | 147 | 24 | 674 | 45.2 | 166 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 7500 lm | 4000 K | 48.6 | 154 | 24 | 642 | 42.9 | 175 | A10+ | A11+ | A9+ | A9+ | A12+ |
| 9000 lm | 2700 K | 61.1 | 147 | 32 | 618 | 55 | 164 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 9000 lm | 3000 K | 59.5 | 151 | 32 | 602 | 53.4 | 169 | A9+ | A10+ | A9+ | A9+ | A12+ |
| 9000 lm | 4000 K | 56.6 | 159 | 32 | 572 | 50.7 | 178 | A10+ | A11+ | A10+ | A10+ | A12+ |
| 10500 lm | 2700 K | 72.5 | 145 | 32 | 734 | 65.8 | 160 | A8+ | A9+ | A7+ | A7+ | A12+ |
| 10500 lm | 3000 K | 70.3 | 149 | 32 | 712 | 63.8 | 165 | A8+ | A10+ | A7+ | A7+ | A12+ |
| 10500 lm | 4000 K | 67 | 157 | 32 | 678 | 60.6 | 173 | A9+ | A11+ | A8+ | A8+ | A12+ |
| 12000 lm | 2700 K | 85.1 | 141 | 32 | 852 | 77.1 | 156 | A5+ | A9+ | A5+ | A5+ | A10+ |
| 12000 lm | 3000 K | 82.6 | 145 | 32 | 826 | 74.7 | 161 | A8+ | A9+ | A7+ | A7+ | A12+ |
| 12000 lm | 4000 K | 78.7 | 152 | 32 | 786 | 70.9 | 169 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 13500 lm | 2700 K | 90.8 | 149 | 48 | 618 | 82.5 | 164 | A6+ | A10+ | A6+ | A6+ | A11+ |
| 13500 lm | 3000 K | 88.2 | 153 | 48 | 602 | 80.1 | 169 | A7+ | A10+ | A7+ | A7+ | A12+ |
| 13500 lm | 4000 K | 84.1 | 161 | 48 | 572 | 76.1 | 177 | A10+ | A11+ | A9+ | A9+ | A12+ |


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## POLIS CATENARY | LUMINAIRE | POLIS CATENARY

**Optic:** Type V - Rotosymmetric

**Screen finish:** Transparent

| System | | | | | Source | | | IPEA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Luminous Flux | Nominal CCT | W | lm/W | n° led | mA | W | lm/W | Road | Urban | Ped | Park | Art |
| 2500 lm | 2700 K | 16.9 | 148 | 16 | 330 | 14.3 | 175 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 2500 lm | 3000 K | 16.4 | 152 | 16 | 322 | 13.9 | 180 | A9+ | A10+ | A9+ | A9+ | A12+ |
| 2500 lm | 4000 K | 15.7 | 159 | 16 | 306 | 13.2 | 189 | A10+ | A11+ | A10+ | A10+ | A12+ |
| 3500 lm | 2700 K | 24.5 | 143 | 16 | 472 | 20.7 | 169 | A8+ | A9+ | A8+ | A8+ | A12+ |
| 3500 lm | 3000 K | 23.9 | 146 | 16 | 458 | 20.1 | 174 | A9+ | A9+ | A8+ | A8+ | A12+ |
| 3500 lm | 4000 K | 22.9 | 153 | 16 | 438 | 19.1 | 183 | A9+ | A10+ | A9+ | A9+ | A12+ |
| 4500 lm | 2700 K | 31.3 | 144 | 16 | 618 | 27.5 | 164 | A8+ | A9+ | A8+ | A8+ | A12+ |
| 4500 lm | 3000 K | 30.4 | 148 | 16 | 602 | 26.7 | 169 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 4500 lm | 4000 K | 29.1 | 155 | 16 | 572 | 25.4 | 177 | A10+ | A11+ | A9+ | A9+ | A12+ |
| 6000 lm | 2700 K | 40.2 | 149 | 24 | 544 | 36 | 167 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 6000 lm | 3000 K | 39.1 | 153 | 24 | 530 | 35 | 171 | A10+ | A10+ | A9+ | A9+ | A12+ |
| 6000 lm | 4000 K | 37.2 | 161 | 24 | 504 | 33.3 | 180 | A11+ | A12+ | A10+ | A10+ | A12+ |
| 7500 lm | 2700 K | 52.4 | 143 | 24 | 694 | 46.6 | 161 | A8+ | A9+ | A8+ | A8+ | A12+ |
| 7500 lm | 3000 K | 51 | 147 | 24 | 674 | 45.2 | 166 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 7500 lm | 4000 K | 48.6 | 154 | 24 | 642 | 42.9 | 175 | A10+ | A11+ | A9+ | A9+ | A12+ |
| 9000 lm | 2700 K | 61.1 | 147 | 32 | 618 | 55 | 164 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 9000 lm | 3000 K | 59.5 | 151 | 32 | 602 | 53.4 | 169 | A9+ | A10+ | A9+ | A9+ | A12+ |
| 9000 lm | 4000 K | 56.6 | 159 | 32 | 572 | 50.7 | 178 | A10+ | A11+ | A10+ | A10+ | A12+ |
| 10500 lm | 2700 K | 72.5 | 145 | 32 | 734 | 65.8 | 160 | A8+ | A9+ | A7+ | A7+ | A12+ |
| 10500 lm | 3000 K | 70.3 | 149 | 32 | 712 | 63.8 | 165 | A8+ | A10+ | A7+ | A7+ | A12+ |
| 10500 lm | 4000 K | 67 | 157 | 32 | 678 | 60.6 | 173 | A9+ | A11+ | A8+ | A8+ | A12+ |
| 12000 lm | 2700 K | 85.1 | 141 | 32 | 852 | 77.1 | 156 | A5+ | A9+ | A5+ | A5+ | A10+ |
| 12000 lm | 3000 K | 82.6 | 145 | 32 | 826 | 74.7 | 161 | A8+ | A9+ | A7+ | A7+ | A12+ |
| 12000 lm | 4000 K | 78.7 | 152 | 32 | 786 | 70.9 | 169 | A9+ | A10+ | A8+ | A8+ | A12+ |
| 13500 lm | 2700 K | 90.8 | 149 | 48 | 618 | 82.5 | 164 | A6+ | A10+ | A6+ | A6+ | A11+ |
| 13500 lm | 3000 K | 88.2 | 153 | 48 | 602 | 80.1 | 169 | A7+ | A10+ | A7+ | A7+ | A12+ |
| 13500 lm | 4000 K | 84.1 | 161 | 48 | 572 | 76.1 | 177 | A10+ | A11+ | A9+ | A9+ | A12+ |


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