



M960SRLED MONTERRO SERIES

LED

EPA
1.4 (ft²)
WEIGHT
48 LBS

7 YEAR
WARRANTY

LUMEN
RANGE
2,240 to
13,020

LIFE SPAN
L70
MINIMUM
100,000
HOURS

UL
LISTED

CLICK
FOR FAQ'S

JOB NAME _____

FIXTURE TYPE _____

MEMO _____

BUILD A PART NUMBER

ORDERING EXAMPLE: **2A-M960SRLED-5P-32L40T5-MDH03-A-PEC-FHD/480PM/4212FP4/FCC/BKT**

Mounting Config.	Fixture	Fitter	LED	CCT	Type	Driver	Lens	Option Control Receptacle	Option Control	Option Fuse	Option GFI	Option Terminal Block	Option House Side Shield	Arm See Arm Spec Sheets	Pole See Pole Spec Sheets	Finish

Mounting Configuration

[\(Click here to view mounting configuration sheet\)](#)

- IW • 2A • 3A90 • 1AM
- PT • 2A90 • 3APT • 2AM
- 1A • 2APT • 4A • 450PB
- 1APT • 3A • 4APT

W = Wall Mount PT = Post Top A = Arm Mount AM = Arm Mid-Mount PB = Pier Base

Fixture

- M960SRLED

Fitter

- 5P¹ • 99¹ • 995¹ • OL3
- 73 • 992¹ • BD4 • OL4
- 74 • 993¹ • BD5 • 588
- 990¹ • 994¹ • BD7 • C2097¹

¹Add "T" after fitter designation for optional "Twist-lock" fitter.

LED

- 12L • 16L • 24L • 32L

CCT - Color Temperature (K)

- 27(00) • 30(00) • 35(00)
- 40(00) • 50(00)

Type

- T2 • T3 • T4 • T5

Driver

- MDL018² (120V-277V, 180mA)
- MDH018² (347V-480V, 180mA)
- MDL016³ (120V-277V, 160mA)
- MDH016³ (347V-480V, 160mA)
- MDL014⁴ (120V-277V, 140mA)
- MDH014⁴ (347V-480V, 140mA)
- MDL008⁵ (120V-277V, 80mA)
- MDH008⁵ (347V-480V, 80mA)

² 24L system only.

³ 32L system only.

⁴ 24L, 16L or 12L system only.

⁵ 12L system only.

Lens

- A (Acrylic) • P (Polycarbonate)

Options [\(Click here to view accessories sheet\)](#)

- R7⁶ 7-Pin Control Receptacle Only

- SRR7 Roof mounted 7-Pin Control receptacle only.
- PE⁷ Twist-Lock Photocontrol (120V-277V)
- PE4⁷ Twist-Lock Photocontrol (347V-480V)
- SC⁷ Shorting Cap
- PEC Electronic Button Photocontrol (120V-277V)
- PEC4 Electronic Button Photocontrol (480V)
- FHD⁸ Double Fuse and Holder
- G⁶ 15A Duplex GFI for Utility Fitter
- TB⁶ Terminal Block
- HSS 120° House Side Shield
- BLOC Back Light Optical Control

⁶ For 900 series utility fitter only.

⁷ Requires control receptacle.

⁸ Ships loose for installation in base.

Arm [\(Click here to view arm website page\)](#)

See Arms & Wall Brackets specification sheets.

- 50 • 70 • 480 • 6236 • TA • BA
- 478 • 80 • 55 • 579 • TASC

Pole [\(Click here to view pole website page\)](#)

See Pole specification sheets.

Finish [\(Click here to view paint finish sheet\)](#)

Standard Finishes⁹

- BKT Black Textured
- WHT White Textured
- PGT Park Green Textured
- ABZT Architectural Medium Bronze Textured
- DBT Dark Bronze Textured

⁹ Smooth finishes are available upon request.

Custom Finishes¹⁰

- CM Custom Match
- OI Old Iron
- RT Rust
- WBR Weathered Brown
- CD Cedar
- WBK Weathered Black
- TT Two Tone

¹⁰ Custom colors require upcharge.

Sternberg Select Finishes

- VG Verde Green
- SI Swedish Iron
- OWGT Old World Gray Textured

Specifications

Fixture

The textured acorn shall be supplied with a cast aluminum solid roof and finial with a 27" spun shade. The roof includes optimized heat sinks to provide maximum life and performance for the LED light sources. The acorn shall be sealed to the cast aluminum roof to provide a moisture-free and bug-free optics chamber with an IP65 rating. The Luminaire shall be UL listed in US and Canada.

Fitter - Standard

The fitter shall be heavy wall cast aluminum, 356 alloy for high tensile strength. It shall have an 8-1/2" inside diameter opening to attach to the 8" neck of the acorn globe. When ordered with a Sternberg aluminum pole, the fitter shall be welded to the pole top or tenon for safety and to ensure the fixture will be plumb, secure and level over the life of the installation. The fitter shall have a one-piece ring bug gasket to resist insect penetration into lamp assembly.

900 Series Utility Fitter Option

The fitter shall be heavy wall cast aluminum, 360 die cast alloy for high tensile strength. It shall have a 9-1/4" inside diameter opening to attach to the 8" neck of the acorn globe. It shall have a hinged, tool-less entry door that provides open access to all of the components. The 900 series shall have an optional terminal block for ease of wiring, an optional Twist-Lock Photocontrol receptacle, an optional single GFCI outlet for auxiliary power needs. The top mounted driver mounting plate shall be cast aluminum and provide tool-less removal from the housing using 2 finger latches. The fitter shall have a one-piece ring gasket to resist insect penetration into globe assembly. When supplied with GFCI receptacle a hole will be provided for cord and plug installation with the access door closed. When cord and plug is not in use a filler plug will be provided and shall be tethered to the fitter for easy recovery and installation.

See next page



SternbergLighting

ESTABLISHED 1923

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M960SRLED MONTERRO SERIES

LED

Twist-Lock Fitter (Optional)

The TL (Twist-Lock) fitter shall have an aluminum die-cast twist-lock mechanism. The tool-less 1/4 turn action allows for easy globe removal and replacement. A die-cast ring assembly is mechanically attached to the globe and is removable if the globe is broken or replaced.

LEDs

The luminaire shall use high output, high brightness LED's. They shall be mounted in arrays, on printed circuit boards designed to maximize heat transfer to the heat sink surface. The arrays shall be roof mounted to minimize up-light. The LED's and printed circuit boards shall be 100% recyclable; they shall also be protected from moisture and corrosion by a conformal coating of 1 to 3 mils. They shall not contain lead, mercury or any other hazardous substances and shall be RoHS compliant. The LED life rating data shall be determined in accordance with IESNA LM-80. The High Performance white LED's will have a life expectancy of approximately 100,000 hours with not less than 70% of original brightness (lumen maintenance), rated at 25°C. The High Brightness, High Output LED's shall be 5000K (4500K, 3000K, 3500K or 2700K option) color temperature with a minimum CRI of 70. Consult factory for custom color CCT. The luminaire shall have a minimum _____ (see table) delivered initial lumen rating when operated at steady state with an average ambient temperature of 25°C (77°F).

Optics

The luminaire shall be provided with individual, refractor type optics applied to each LED. The luminaire shall provide Type ____ (2, 3, 3R, 4 or 5) light distribution per the IESNA classifications. Testing shall be done in accordance with IESNA LM-79.

Electronic Drivers

The LED driver shall be U.L. Recognized. It shall be securely mounted inside the fixture, for optimized performance and longevity. It shall be supplied with a quick-disconnect electrical connector on the power supply, providing easy power connections and fixture installation. It shall have overload as well as short circuit protection, and have a DC voltage output, constant current design, 50/60HZ. It shall be supplied with line-ground, line-neutral and neutral-ground electrical surge protection in accordance with IEEE/ANSI C62.41.2 guidelines. It shall be dimmable using a 0-10V signal.

For sources over 50w: The driver shall have a minimum efficiency of 90%. The driver shall be rated at full load with THD<20% and a power factor of greater than 0.90. The driver shall contain over-heat protection.

For sources under 50w: The driver shall have a minimum efficiency of 88%.

Lens

Materials include DR Acrylic or Polycarbonate. An injection molding process adds textured surface for glare mitigation, even wall thickness and impact resistance.

Photocontrols

Button Style: On a single assembly the photocontrol shall be mounted on the fixture and pre-wired to driver. On multiple head assemblies the photocontrol shall be mounted in the pole shaft on an access plate. The electronic button type photocontrol is instant on with a 5-10 second turn off, and shall turn on at 1.5 footcandles with a turn-off at 2-3 footcandles. Photocontrol is 120-277 volt and warranted for 6 years.

Twist-Lock Style: The photocontrol shall be mounted in the utility fitter (or roof) and pre-wired to driver. The twist lock type photocontrol is instant on with a 3-6 second turn off, and shall turn on at 1.5 footcandles with a turn-off at 2-3 footcandles. Photocontrol is 120-277 volt and warranted for 6 years.

Warranty

Seven-year limited warranty. See product and finish warranty guide for details.

Finish

Refer to website for details.

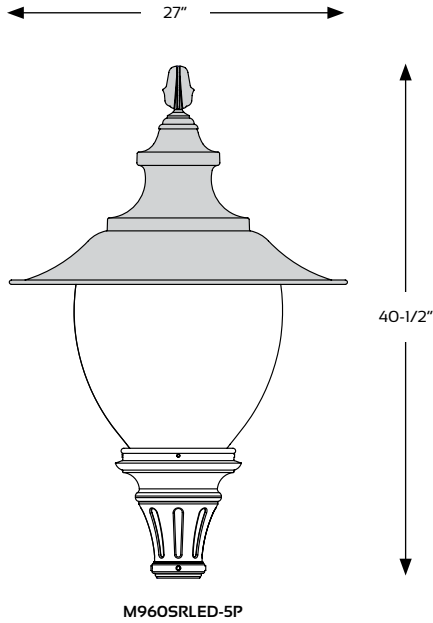
Performance

MODEL #	T2 DELIVERED LUMENS	EFFICACY (LPW)	T3 DELIVERED LUMENS	EFFICACY (LPW)	T4 DELIVERED LUMENS	EFFICACY (LPW)	T5 DELIVERED LUMENS	EFFICACY (LPW)	WATTAGE
32L40T_-MDL016	14495	108.2	14650	109.3	14760	110.1	15340	114.5	134
32L30T_-MDL016	13820	103.1	13970	104.3	14075	105.0	14625	109.1	134
32L27T_-MDL016	12495	93.2	12630	94.3	12725	95.0	13225	98.7	134
24L40T_-MDL018	12005	103.5	12145	104.7	12345	106.4	12800	110.3	116
24L30T_-MDL018	11445	98.7	11580	99.8	11770	101.5	12205	105.2	116
24L27T_-MDL018	10350	89.2	10470	90.3	10640	91.7	11035	95.1	116
24L40T_-MDL014	9780	112.4	9850	113.2	10025	115.2	10390	119.4	87
24L30T_-MDL014	9325	107.2	9390	107.9	9560	109.9	9905	113.9	87
24L27T_-MDL014	8430	96.9	8490	97.6	8640	99.3	8955	102.9	87
16L40T_-MDL014	6650	112.7	6685	113.3	6710	113.7	6975	118.2	59
16L30T_-MDL014	6340	107.5	6375	108.1	6400	108.5	6650	112.7	59
16L27T_-MDL014	5735	97.2	5765	97.7	5785	98.1	6015	101.9	59
12L40T_-MDL014	5010	108.9	5030	109.3	5030	109.3	5285	114.9	46
12L30T_-MDL014	4775	103.8	4795	104.2	4795	104.2	5040	109.6	46
12L27T_-MDL014	4320	93.9	4335	94.2	4335	94.2	4555	99.0	46
12L40T_-MDL008	3080	114.1	3085	114.3	3095	114.6	3235	119.8	27
12L30T_-MDL008	2935	108.7	2940	108.9	2950	109.3	3085	114.3	27
12L27T_-MDL008	2655	98.3	2660	98.5	2670	98.9	2790	103.3	27

M960SRLED MONTERRO SERIES

LED

Fixtures



Fitters

10-1/8" W
10-3/8" H



5P or 5T*
Fits 3" OD
x 3" tall
tenon/pole

10-1/8" W
10-1/8" H



BD4
Fits 4" OD
x 5" tall
tenon/pole

10-1/8" W
10-1/4" H



BD5
Fits 5" OD
x 6" tall
tenon/pole

10-1/8" W
11-3/4" H



BD7
Fits 7" OD
x 1" tall
tenon/pole

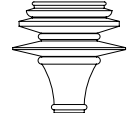
9-3/4" W
13-1/4" H



73
Fits 3" OD
x 4" tall
tenon/pole

74
Fits 4" OD
x 4" tall
tenon/pole

14-1/2" W
14-1/4" H



**588
(Art Deco I)**
Fits 3" OD
x 3" tall
tenon/pole

10-1/2" W
15-3/4" H



990 or 990T*
Fits 3" OD
x 3" tall
tenon/pole

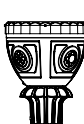
994 or 994T*
Fits 4" OD
x 3" tall
tenon/pole

10-1/2" W
13-1/8" H



991 or 991T*
Fits 3" OD
x 3" tall
tenon/pole

10-1/2" W
13-1/8" H



992 or 992T*
Fits 3" OD
x 3" tall
tenon/pole

10-1/2" W
15-3/4" H



993 or 993T*
Fits 3" OD
x 3" tall
tenon/pole

995 or 995T*
Fits 4" OD
x 3" tall
tenon/pole

10-1/2" W
11-3/8" H



OL3
Fits 3" OD
x 3" tall
tenon/pole

OL4
Fits 4" OD
x 3" tall
tenon/pole

10" W
3-1/4" H



**C2097 or
C2097T***
Fits 7" OD
x 1" tall
tenon/pole

*Twist Lock Acorn (Fitter TL)



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