# LUMELEX 2020

This LED cylinder unit offers high functionality specifically designed for short (5-15ft) and medium (15-30ft) throw applications. This fixture allows for field interchangeable optics. Customizable accessories available. This fixture features self locking vertical and horizontal focusing and 50,000 hour life to 70% lumen output, L70 at 95°F max ambient. Exceeds ANSI specifications. Integral dimmer available.

**DETAILS.**
**FINISHES AVAILABLE: BLACK, WHITE, SILVER**
**5W 120V LED / 50 LM/W / CRI 90**
**COLOR TEMP: 2700K, 3000K, 3500K**
**OPTICS: 4º, 12º, 25º**

**FITTING/DIMMING:**
**(0E-TE) – TRACK FITTING & TRAILING EDGE, 5%**
**(0E-ED) – TRACK FITTING W/ INTEGRAL DIMMING, 10% (120V OR 230V ONLY)**
**(5E-TE) – CANOPY FITTING & TRAILING EDGE, 5%**

**STEM LENGTH: 2 5/16"**
**BODY LENGTH: 4 1/4"**
**DIAMETER: 2 5/8"**
**FIXTURE WEIGHT: 3LBS**

**MOUNTING OPTIONS:**
**LEXAN FITTING FOR 1 & 2 CIRCUIT LSI TRACK W/ ON/OFF SWITCH**
**CANOPY FOR PERMANENT MOUNTING ON STANDARD 4" J-BOX**
**TESTED TO LM79 AND LM80 PROTOCOLS**
***STEM LENGTHS AVAILABLE FROM 4" TO 48"**

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## LUMELEX 2020

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## LUMELEX 2020

# LX2020 • 120/277V • LED • COB

## These LED Cylinder units offer high functionality in LSI's smallest, sleekest package.

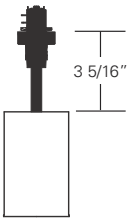
- 4° optic produces 26000 CBCP with 270 lumens at 5 watts
- System efficiency up to 50 lumens/watt
- Exceeds ANSI specifications by maintaining extremely tight color consistency over the life of the fixture
- Tested to LM79 and LM80 Protocols
- 50,000 hour life to 70% lumen output, $L_{70}$ at 95°F max ambient
- Hidden integral electronic driver, compatible with trailing edge electronic low voltage dimmers (dimmable to 10%)
- Integral Dimming with built-in potentiometer also available
- Color Rendering Index (CRI) 90+
- Color Fidelity Index ($R_f$) 92
- Gamut Area Index ($R_g$) 102
- Color consistency, 2 MacAdam ellipses
- Removable accessory cartridge for any double combination of size-AAA LSI filters and accessories
- No UV or IR emissions; no mercury or lead
- On/off safety switch (on most mounting types)
- Sturdy die-cast aluminum housing
- Self and wrench locking stem for vertical and horizontal focusing
- Finishes: LSI Black, White, and Silver
- Fixture weight: 3 lbs

## MOUNTING OPTIONS

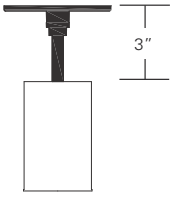
Please review the **ORDERING INFORMATION** section on the next page on how to specify the following:

- LED Module
- LED Rating
- Color Temperature
- Optic - mm/beam spread
- Fitting (Mounting Option)
- Dimming
- Voltage
- Finish

**LX2020-XXXXX-XXXXXX-0E-XXXXXX**
Lexan Fitting for 1 and 2 circuit LSI Track. With On/Off switch.



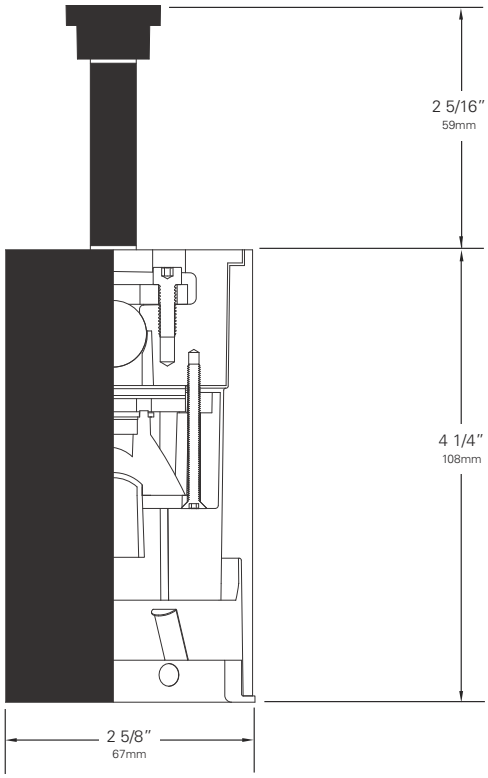

**LX2020-XXXXX-XXXXXX-5A-XXXXXX**
Canopy for permanent mounting on standard 4" octagonal junction boxes. (2-1/8" deep)




**Other Options (Consult Factory):**

- Custom stems, specify length (4"– 48")
- Custom color, RAL palette
- Security/Worklite Fixture, use **—EF** as mounting option. (track mount only)

# LX2020 • 120/277V • LED • COB




## ORDERING INFORMATION

1. Choose the desired LED Module
   **(ZE1)** for single LED
2. Choose the letter code to designate the desired LED Rating
   **Lumens/CRI/Wattage**
   **(03-90)** for 270/90/5
3. Choose the numeric code to designate the desired **Color Temperature**
   **(27)** for 2700K **(30)** for 3000K **(35)** for 3500K
   For other CCT, consult factory
4. Use the following numeric code to designate the **Optic**
   **(04)** for 35mm/4°
   **(12)** for 35mm/12°
   **(25)** for 35mm/25°
5. Select your **Fitting/Controls (Dimming)**
   **(0E-TE) =** Track Fitting & Trailing Edge (5%)
   **(0E-ED)=** Track Fitting with Integral Dimming (10%)(120V or 230V only)
   **(5A-TE)=** Canopy Fitting & Trailing Edge (5%)
6. Choose the desired **Voltage:**
   **(120)** for 120V **(230)** for 220-240V
   **(277)** for 277V
7. Choose a **Finish** for your fixture:
   Black **(B)** White **(W)** Silver **(S)**

   Example:

| LX2020 | - | ZE1 | 03-90 | 30 | 04 | - | 0E | - | TE | 120 | B |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FIXTURE | | LED MODULE | LED RATING | CCT | OPTIC | | FITTING | | DRIVER | VOLTAGE | FINISH |

8. Don't forget your Accessories!

## DRIVER TYPE (Electronic)

| | |
|---|---|
| Input Power (A) - 120V | 0.04 |
| Input Power (A) - 277V | 0.02 |
| Wattage | 5 |
| Power Factor - 115V | 0.96 |

## ACCESSORIES

- **Glass Color Filters AAA**
- **Louver Hex AAA**
- **Light Blocking Screens AAA801S, AAA802S, AAA803S**
- **Color and Spread Gels AAA**
- **Backer Ring AAAB**

2020

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**The performance characteristics** of the LX2020 family of products can be customized based on the LED module and the optic selected.

Each available LED module is defined by four characteristics – the color rendering index (CRI), the correlated color temperature (CCT), the power that it uses (watts), its "available lumens" and beam spread. Note that available lumens is a theoretical value that represents the light output of the module on its own – no fixture or optic attached.

In the LSI part number, the LED module is specified with a letter and a number that immediately follow the product series number. For example, in the part number LX2020-ZE103-903004-0E-TE120B, the **"ZE103-903004"** represents an LED module with an output of 270 lumens, a CRI of 90, a power usage of 5 watts, color temperature of 3000K and a 4-Degree beam.

Additional parameters, such as Center Beam Candle Power (CBCP), Delivered Lumens, and Efficiency (Lumens per Watt) are all shown in a table that is organized by LED module and optic combination.

**CBCP = Center Beam Candle Power**

| LED Module | Optic (Reflector) | | |
|---|---|---|---|
| **Lumens/CRI/Wattage** | **04°** | **12°** | **25°** |
| 270/90/5 | 26,016 | 3,747 | 995 |

**Delivered Lumens**

| LED Module | Optic (Reflector) | | |
|---|---|---|---|
| **Lumens/CRI/Wattage** | **04°** | **12°** | **25°** |
| 270/90/5 | 116 | 182 | 165 |

**Efficiency = Lumens Per Watt**

| LED Module | Optic (Reflector) | | |
|---|---|---|---|
| **Lumens/CRI/Wattage** | **04°** | **12°** | **25°** |
| 270/90/5 | 23 | 36 | 33 |

| LED Module<br>**Lumens/CRI/Wattage**<br>**SKU Code** | **270/90//5**<br>**02-90** |
|---|---|
| Nominal Fixture Power (+/- 20%), Watts | 5 |
| Maximum Inrush Current Amps | 10 |
| Minimum Power Factor | 0.92 |

*Inrush current is instantaneous current drawn by the LED only when fixture is initially powered on or instantaneously changed from full dim to full bright.*
*For more details see Dimming Application Sheet, IS-0119.*

# LX2020 • PHOTOMETRIC DATA

## PHOTOMETRIC DATA

**LX2020**

| | |
|---|---|
| Beam Spread (minimum) | **4°** |
| Center Beam Candlepower | **26016** |
| CRI | **90+** |

**LX2020**

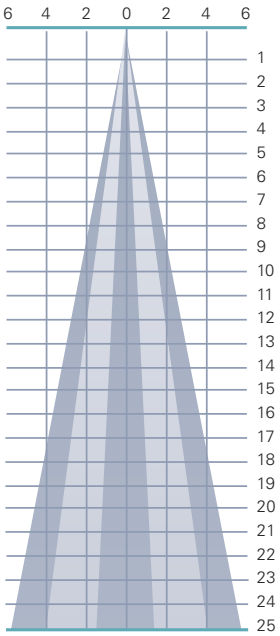
| | |
|---|---|
| Beam Spread (minimum) | **12°** |
| Center Beam Candlepower | **3747** |
| CRI | **90+** |

**LX2020**

| | |
|---|---|
| Beam Spread (minimum) | **25°** |
| Center Beam Candlepower | **995** |
| CRI | **90+** |

**All Distances in Feet**

| 25° | 12° | 4° | |
|---|---|---|---|
| 995 | 3747 | 26016 | 1 |
| 249 | 937 | 6504 | 2 |
| 111 | 416 | 2891 | 3 |
| 62 | 234 | 1626 | 4 |
| 40 | 150 | 1041 | 5 |
| 28 | 104 | 723 | 6 |
| 20 | 76 | 531 | 7 |
| 16 | 59 | 407 | 8 |
| 12 | 46 | 321 | 9 |
| 10 | 37 | 260 | 10 |
| 8 | 31 | 215 | 11 |
| 7 | 26 | 181 | 12 |
| 6 | 22 | 154 | 13 |
| 5 | 19 | 133 | 14 |
| 4 | 17 | 116 | 15 |
| 4 | 15 | 102 | 16 |
| 3 | 13 | 90 | 17 |
| 3 | 12 | 80 | 18 |
| 3 | 10 | 72 | 19 |
| 2 | 9 | 65 | 20 |
| 2 | 8 | 59 | 21 |
| 2 | 8 | 54 | 22 |
| 2 | 7 | 49 | 23 |
| 2 | 7 | 45 | 24 |
| 2 | 6 | 42 | 25 |

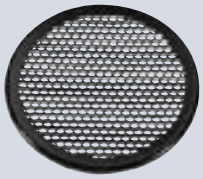



LX2020

## [1]LIGHT BLOCKING SCREENS AAA

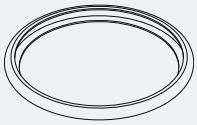
Stainless steel mesh screens used alone or in combinations will block from approximately 20% to 90% of the transmitted light without changing color temperature of the light.

| No. | % of Light Blocked |
|---|---|
| **AAA801S** | 20 |
| **AAA802S** | 30 |
| **AAA803S** | 40 |



## LOUVER HEX AAA

1/8" thick Hexcell black metal louver used for thin profile.



## BACKER RING AAAB

Aluminum ring to hold thin film gels when no other size AAAB accessories are being used.

1. Figures vary based upon LED module/optic being used and relationship of screen(s) to LED module/optic and to each other.

As the foremost innovator in accent lighting, LSI offers a complete range of pre-cut Gels to modify the spread and color of light for the LumeLEX LED Series.

**LumeLEX® SPREAD GELS**

| Size: AAA | Spread Gel |
|---|---|
| GEL-L1-AAA | 1° Spread Gel |
| GEL-L5-AAA | 5° Spread Gel |
| GEL-L10-AAA | 10° Spread Gel |
| GEL-L20-AAA | 20° Spread Gel |
| GEL-L30-AAA | 30° Spread Gel |
| GEL-L40-AAA | 40° Spread Gel |
| GEL-L60-AAA | 60° Spread Gel |
| GEL-L80-AAA | 80° Spread Gel |
| GEL-L30B5-AAA | 30° by 5° Spread Gel |
| GEL-L40B2-AAA | 40° by 0.2° Spread Gel |
| GEL-L60B1-AAA | 60° by 1° Spread Gel |
| GEL-L60B10-AAA | 60° by 10° Spread Gel |
| GEL-L75B45-AAA | 75° by 45° Spread Gel |
| GEL-L90B60-AAA | 90° by 60° Spread Gel |
| GEL-R101-AAA | Beam Softener |

**LumeLEX® COLOR GELS**

| Size: AAA | Gel Color | Size: AAA | Gel Color |
|---|---|---|---|
| GEL-R2-AAA | Bastard Amber | GEL-R312-AAA | Canary |
| GEL-R7-AAA | Pale Yellow | GEL-R3204-AAA | Half Blue |
| GEL-R12-AAA | Straw | GEL-R331-AAA | Shell Pink |
| GEL-R13-AAA | Straw Tint | GEL-R383-AAA | Sapphire Blue |
| GEL-R14-AAA | Medium Straw | GEL-R397-AAA | Pale Grey |
| GEL-R21-AAA | Golden Amber | GEL-R2001-AAA | Storaro Red |
| GEL-R25-AAA | Orange Red | GEL-R2004-AAA | Storaro Green |
| GEL-R26-AAA | Light Red | GEL-R2009-AAA | Storaro Violet |
| GEL-R27-AAA | Medium Red | GEL-R3202-AAA | Full Blue |
| GEL-R57-AAA | Lavender | GEL-R3206-AAA | Third Blue |
| GEL-R62-AAA | Booster Blue | GEL-R3216-AAA | Eighth Blue (Boosts 3200K to 3300K) |
| GEL-R71-AAA | Sea Blue | GEL-R3318-AAA | Tough 1/8 Minusgreen |
| GEL-R72-AAA | Azure Blue | GEL-R3410-AAA | Roscosun (1/8 CTO) (Reduces 5500K to 4900K) |
| GEL-R91-AAA | Primary Green | GEL-R3441-AAA | Full Straw (CTS) |
| GEL-R97-AAA | Light Grey | GEL-R3443-AAA | Quarter Straw (CTS) |
| GEL-R98-AAA | Medium Grey | GEL-R4330-AAA | CalColor 30 Cyan |
| GEL-R101-AAA | Light Frost | GEL-R4415-AAA | CalColor 15 Green |
| GEL-R104-AAA | Tough Silk | GEL-R4490-AAA | CalColor 90 Green |
| GEL-R119-AAA | Lt. Hamburg Frost | GEL-R4860-AAA | CalColor 60 Pink |
| GEL-R121-AAA | Blue Diffusion | GEL-R4890-AAA | CalColor 90 Pink |
| GEL-R305-AAA | Rose Gold | GEL-R4930-AAA | CalColor 30 Lavender |

* Backer Ring AAAB required to hold gels when no other rimmed "AAA" accesories are used.

# COLOR MEDIA

## COLOR FILTERS

As the foremost innovator in accent lighting, LSI offers a complete range of permanent fade-free glass color filters, which are available in nine stock diameters. All glass color filters are rimmed in a seamless aluminum ring and are slotted for heat expansion.

| Size | Diameter | LSI Fixture Series |
|---|---|---|
| AAA | 2 3/8" | LumeLEX® 2020/2030/2031/2038, SSLCX16, SSL260, LumeLEX MAR-S |
| ZM | 2 13/16" | LZ Zoom |
| AA | 3" | LumeLEX® 2024 (with LX2024-Holder or LX2024-Barndoor), LumeLEX® 2026, LumeLEX® 2044, LumeLEX 2048 |
| A | 3 1/2" | LumeLEX® 2060, SSL230, SSLCX30, SSLGR30CL, SSLGR36 |
| B | 4 1/4" | LumeLEX® MAR-L |
| C | 4 3/4" | LumeLEX® 2084, LumeLEX® 2088, SSL238, SSLCX36, SSLCX38, SSLGR38CL |

| No. | Color | [1]% of Light Transmission |
|---|---|---|
| **902** | Medium Pink | 36 |
| **903** | Deep Pink | 37 |
| **904** | Flesh Pink | 73 |
| **906** | Pale Lavender | 14 |
| **907** | Surprise Pink | 19 |
| **908** | Lilac | 21 |
| **910** | Warm Red | 10 |
| **911** | Strawberry | 6 |
| **912** | Ruby | 4 |
| **913** | Magenta | 1 |
| **914** | Light Amethyst | 25 |
| **915** | Medium Amethyst | 16 |
| **916** | Deep Amethyst | 4 |
| **917** | Olive | 18 |
| **918** | Light Green | 68 |
| **920** | Medium Green | 25 |
| **921** | Deep Green | 7 |
| **922** | Silver green | 65 |
| **923** | Yellow Green | 49 |
| **924** | Emerald Green | 12 |
| **925** | Light Turquoise | 68 |
| **926** | Medium Turquoise | 40 |
| **927** | Deep Turquoise | 17 |
| **928** | Light Blue | 34 |
| **930** | Medium Blue | 3 |
| **932** | Daylight | 59 |
| **933** | Gene Moore Blue | 18 |
| **936** | Grey | 56 |
| **937** | Light Blue Green | 17 |
| **939** | Light Amber | 68 |
| **940** | Medium Amber | 48 |
| **941** | Deep Amber | 43 |
| **942** | Straw | 78 |
| **943** | Gold | 87 |
| **944** | Canary Yellow | 84 |
| **945** | Lemon | 81 |
| **946** | Pumpkin | 32 |
| **947** | Tangerine | 20 |
| **948** | Orange | 23 |
| **949** | Pink Gold | 54 |
| **950** | Bronze | 48 |
| **951** | Brass | 11 |
| **952** | Autumn Tan | 11 |
| **953** | Leaf Brown | 19 |
| **954** | Butter Pecan | 3 |
| **955** | Toasted Almond | 1 |

**Notes:**

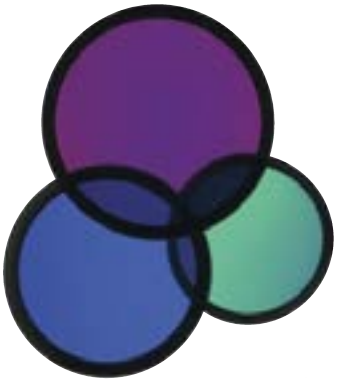
1. Values given are approximate due to slight variations in glass color and thickness.

## DICHROIC COLOR FILTERS

In addition to our complete line of glass color filters, LSI now offers dichroic glass color filters that achieve purer, more saturated, richer color by selective wavelength transmission. Since these filters reflect rather than absorb the unwanted color wavelengths, a higher intensity of colored light can be obtained with fewer or lower wattage fixtures. In addition, this selective transmission allows for very accurate color matching from filter to filter.

All standard LSI filter sizes are available in a wide palette of well chosen dichroic colors that can be used with all LSI fixtures that accept accessories.

LSI dichroic glass color filters have the added benefit of being rimmed for extra durability to allow for frequent usage without fear of breakage or edge chipping.



| Size | Diameter | LSI Fixture Series |
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| AAA | 2 3/8" | LumeLEX® 2020/2030/2031/2038, SSLCX16, SSL260, LumeLEX MAR-S |
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| AA | 3" | LumeLEX® 2024 (with LX2024-Holder or LX2024-Barndoor), LumeLEX® 2026, LumeLEX® 2044, LumeLEX 2048 |
| A | 3 1/2" | LumeLEX® 2060, SSL230, SSLCX30, SSLGR30CL, SSLGR36 |
| B | 4 1/4" | LumeLEX® MAR-L |
| C | 4 3/4" | LumeLEX® 2084, LumeLEX® 2088, SSL238, SSLCX36, SSLCX38, SSLGR38CL |

**Technical Data**

Dichroic color filters are created in a vacuum chamber by multi-layer vapor deposits of different minerals onto low expansion, chemically resistant Borosilicate glass.

Deposits are made in alternating layers of varying microscopic thickness which allow very narrow color wavelengths to be selectively transmitted and all other wavelengths to be reflected.

LSI does not recommend using dichroic color filters with lamps or fixtures that have beam spreads greater than 40° because a secondary color aura is created by the wide angular transmitted wavelengths that are different than the desired color wavelength.

Since there is mainly transmission and reflection of the color wavelengths by the dichroic filter and very little absorption, the dichroic filter can be used with many high temperature lights that normally would not accept color filters.

| No. | Color | % of Light Transmission |
|---|---|---|
| **2001** | Light Pink | 69 |
| **2002** | Medium Pink | 43 |
| **2003** | Hot Pink | 11 |
| **2004** | Pale Pink | 55 |
| **2010** | Deep Magenta | 29 |
| **2011** | Lavender | 24 |
| **2012** | Vivid Magenta | 31 |
| **2013** | Lavender Accent | 48 |
| **2014** | Lilac | 37 |
| **2015** | Purple Fusion | 12 |
| **2020** | Sky Blue | 39 |
| **2021** | Sea Blue | 39 |
| **2022** | Cyan | 33 |
| **2023** | Light Blue Green | 30 |
| **2024** | Primary Blue | 24 |
| **2025** | Medium Red Blue | 15 |
| **2026** | Deep Purple | 16 |
| **2027** | Peacock Blue | 53 |
| **2028** | Mediterranean Blue | 20 |
| **2029** | Boost Blue | 51 |
| **2040** | Light Yellow Green | 64 |
| **2041** | Fern Green | 47 |
| **2042** | Turquoise | 35 |
| **2043** | Primary Green | 31 |
| **2044** | Industrial Green | 64 |
| **2050** | Yellow | 80 |
| **2051** | Amber | 71 |
| **2052** | Amber Blush | 38 |
| **2053** | Bastard Amber | 71 |
| **2054** | Goldenrod | 63 |
| **2055** | Bright Straw | 56 |
| **2060** | Medium Orange | 51 |
| **2061** | Orange | 44 |
| **2070** | Flame Red | 27 |
| **2071** | Primary Red | 25 |