

# LUMELX® 2038 SERIES 120/277V • LED • XTM 19MM



## Elegant fixed downlight designed specifically for the most demanding architectural applications

- Designed for the most versatile Xicato XTM 19mm LED module up to 14 Watts
- Extremely tight color consistency (less than 2 MacAdam Ellipses)
- System efficiency up to 50 lumens/watt
- 50,000 hour life to 70% lumen output, L70 at 95°F max ambient
- Field interchangeable optics (15° – 40°) modify the beam spread distribution
- Choice of color temperature
- Color Rendering Index (CRI) of either 98 (high) or 83 (standard)
- Choice of lumen outputs (delivered lumens)
- Tested to LM79 and LM80 Protocols, TM-30 available
- Hidden integral electronic driver compatible with reverse phase (ELV compatible) dimmers down to 10%
- Integral Dimming with built-in potentiometer also available
- Accessory holder accepts up to two size-AAA LSI filters and accessories
- Sturdy die-cast aluminum housing
- No UV or IR emissions; no mercury or lead
- On/off safety switch (on OE Track fitting)
- Finishes: LSI Black, White, and Silver
- Fixture weight: 3 lbs
- All modules are field replaceable

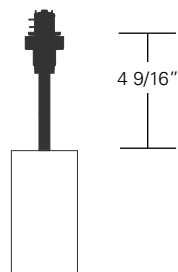
## MOUNTING OPTIONS

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
- Dimming
- Voltage
- Finish

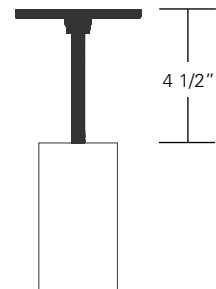
### LX2038-XXXXX-XXXXXX-0E-XXXXXX

Lexan Fitting for 1 and 2 circuit LSI Track. With On/Off switch.



### LX2038-XXXXX-XXXXXX-5E-XXXXXX

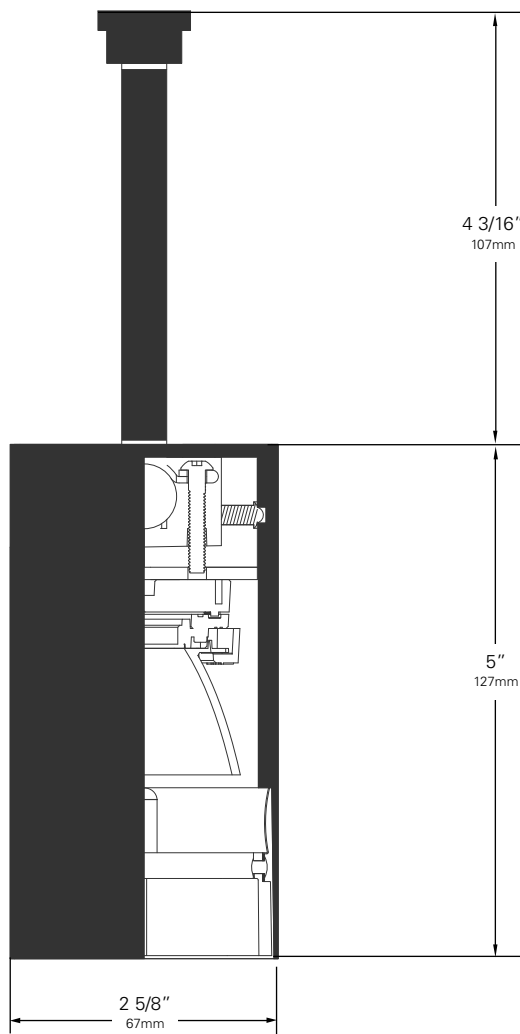
Canopy for permanent mounting on standard 4" octagonal junction boxes. (2-1/8" deep)



### 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)

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## ORDERING INFORMATION

### Xicato XTM 19mm Fixture

- Choose the desired LED Module  
**(T19)** for XTM (19mm)
- Choose the letter code to designate the desired LED Rating  
**Lumens/CRI/Wattage**  
**(10-98)** for 1050/98/13 **(15-83)** for 1500/83/14
- Choose the numeric code to designate the desired  
**Color Temperature**  
**(27)** for 2700K **(30)** for 3000K **(35)** for 3500K  
**(40)** for 4000K For other CCT, consult factory
- Use the following alpha-numeric code to designate the **Optic**  
**(S1)** for 50mm/15° **(S4)** for 49mm/40°
- Select your **Mounting Option**  
**(0E)** Track Fitting **(5E)** Canopy Fitting
- Choose the letter code for **Dimming Type**  
**(TE)** Trailing Edge (ELV Reverse Phase) (10%)  
**(ED)** Integral Dimming (10%) (0E fitting only, 120/230V only)
- Choose the desired **Voltage**:  
**(120)** for 120V **(230)** for 220-240V  
**(277)** for 277V

- Choose a **Finish** for your fixture:  
Black **(B)** White **(W)** Silver **(S)**

Example:

**LX2038 - T19 15-83 27 S1 - 0E - TE 120 B**

FIXTURE LED MODULE LED RATING CCT OPTIC FITTING DIMMING VOLTAGE FINISH

- Don't forget your Accessories!

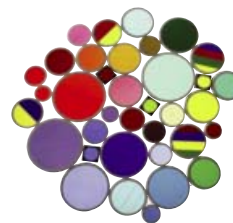
### Color Temperature & Center Point Tolerance

Color Temp	Center Point	Tolerance
2700K	2700K	+/- 40K
3000K	2950K	+/- 50K
3500K	3420K	+/- 60K
4000K	4000K	+/- 70K

### Chromaticity Specifications

LED	R <sub>a</sub> -CRI	R <sub>f</sub> -Fidelity	R <sub>g</sub> -Gamut Area
T19-TS9 - 83	83	78	101
T19-TS9 - 98	98	96	103

## ACCESSORIES



### Glass Color Filters AAA

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.

### Other accessories:

- **LX-S15-REF-B (50mm/15°)**
- **LX-S40-REF-CLR (49mm/40°)**
- **Cross Baffle LX2030**
- **Louwer Hex AAA**
- **Spread Lenses**  
**AAA990, AAA992, AAA995, AAA996**
- **Beam Softener**  
**AAA998**
- **Light Blocking Screens AAA801S, AAA802S, AAA803S**
- **Color and Spread Gels AAA**
- **Backer Ring AAAB**

# LUMeLEX® 2038 SERIES • XICATO XTM 19MM PERFORMANCE

The performance characteristics of the LumeLEX family of products can be customized based on the LED module and the optic (reflector) 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), and its “available lumens.” 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 range of numbers that immediately follow the product series number. For example, in the part number LX2038-T1915-8327S1-0E-TE120B, the “**T1915-8327**” represents an LED module with an output of 1500 lumens, a CRI of 83, a power usage of 14 watts and a color temperature of 2700K.

The available optics (reflectors) are characterized by size, beam angle, and in some cases the characteristics of the field angle (narrow or wide). The optic is specified by the two characters that follow the LED designation in the part number. For example, the “**S1**” in LX2038-T1915-8327S1-0E-TE120B is a 50mm diameter optic that has a 15-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 Rating	Optic (Reflector)	
Lumens/CRI/Wattage	S1	S4
1050/98/13	3,014	1,691
1500/83/14	4,276	2,399

Delivered Lumens		
LED Rating	Optic (Reflector)	
Lumens/CRI/Wattage	S1	S4
1050/98/13	326	494
1500/83/14	462	700

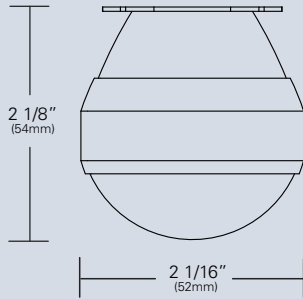
Efficiency = Lumens Per Watt		
LED Rating	Optic (Reflector)	
Lumens/CRI/Wattage	S1	S4
1050/98/13	25	38
1500/83/14	33	50

*Absolute range of values are +/- 10% of typical value, and are for all color temperatures*

LED Rating Lumens/CRI/Wattage SKU Code	1050/98/13 10-98	1500/83/14 15-83
Nominal Fixture Power (+/- 20%), Watts	13	14
Maximum Inrush Current Amps	10	10
Minimum Power Factor	0.90	0.90

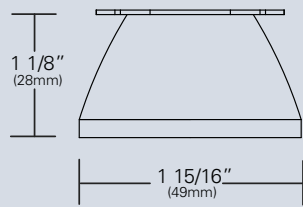
*Inrush current is instantaneous current drawn by the LED only when fixture is initially powered on or instantaneously changed from full dim to full bright. For more details see Dimming Application Sheet, IS-0119.*

# LUMeLEX<sup>®</sup> 2038 SERIES • XICATO XTM 19MM OPTICS



## **LX-S15-REF-B (S1)** **(50mm/15°)**

Anti-reflective coated aspheric lens. Tool-less, twist and lock installation. Black Finish.



## **LX-S40-REF-CLR (S4)** **(49mm/40°)**

Computer designed polycarbonate specular optic. Tool-less, twist and lock installation. Clear Finish.

# LUMELIX® 2038 SERIES • XICATO XTM 19MM PHOTOMETRIC DATA

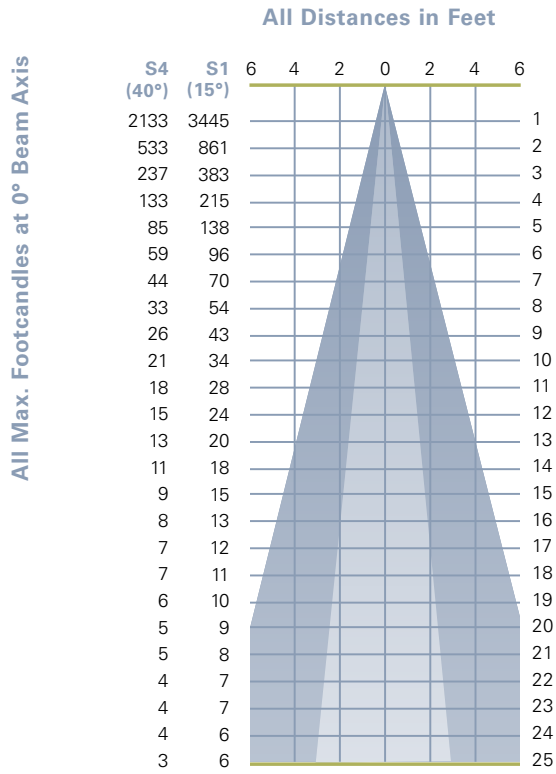
**LED RATING: 15-83**

**S1-50mm DIA Optic**

Beam Spread (minimum) **15°**  
 Center Beam Candlepower **3445**  
 CRI **83**

**S4-49mm DIA Optic**

Beam Spread (minimum) **40°**  
 Center Beam Candlepower **2133**  
 CRI **83**



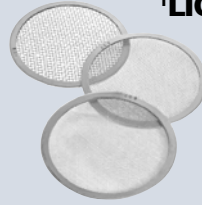
Photometric Data based on LED Rating: 15-83 (1500 Lumens/83CRI/14watts)

# LUMELX 2038 • ACCESSORIES



## SPREAD LENSES AND BEAM SOFTENER

No.	Description	% of Light Transmission
AAA990	Spread Lens/Clear	83 (5°X 50°)
AAA992	Spread Lens/Clear	85 (5°X 30°)
AAA995	Spread Lens/Clear	83 (50°X 50°)
AAA996	Spread Lens/Clear	86 (45°X 50°)
AAA998	Beam Softener/Clear	80 (45°X 45°)



## 1' LIGHT BLOCKING SCREENS AAA

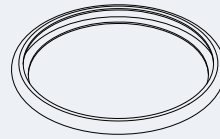
Stainless steel mesh screens used alone or in combinations will block from approximately 20% to 90% of the transmitted light without changing color temperature of the light.

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



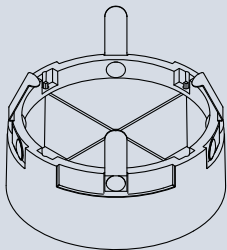
## LOUVER HEX AAA

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



## BACKER RING AAA

Stainless steel ring to hold thin film gels when no other size AAA accessories are being used.



## CROSS BAFFLE LX2030

Controls spill light and glare. Black finish.

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

# LUMELIX® 2038 SERIES • GELS

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
GELL1-AAA	1° Spread Gel
GELL5-AAA	5° Spread Gel
GELL10-AAA	10° Spread Gel
GELL20-AAA	20° Spread Gel
GELL30-AAA	30° Spread Gel
GELL40-AAA	40° Spread Gel
GELL60-AAA	60° Spread Gel
GELL80-AAA	80° Spread Gel
GELL30B5-AAA	30° by 5° Spread Gel
GELL40B2-AAA	40° by 0.2° Spread Gel
GELL60B1-AAA	60° by 1° Spread Gel
GELL60B10-AAA	60° by 10° Spread Gel
GELL75B45-AAA	75° by 45° Spread Gel
GELL90B60-AAA	90° by 60° Spread Gel
GELR101-AAA	Beam Softener

## LumeLEX® COLOR GELS

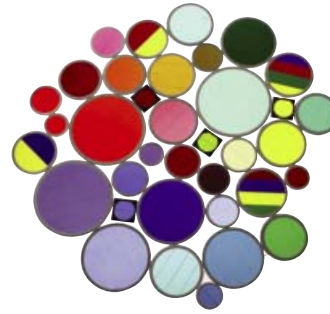
Size: AAA	Gel Color	Size: AAA	Gel Color
GELR2-AAA	Bastard Amber	GELR312-AAA	Canary
GELR7-AAA	Pale Yellow	GELR3204-AAA	Half Blue
GELR12-AAA	Straw	GELR331-AAA	Shell Pink
GELR13-AAA	Straw Tint	GELR383-AAA	Sapphire Blue
GELR14-AAA	Medium Straw	GELR397-AAA	Pale Grey
GELR21-AAA	Golden Amber	GELR2001-AAA	Storaro Red
GELR25-AAA	Orange Red	GELR2004-AAA	Storaro Green
GELR26-AAA	Light Red	GELR2009-AAA	Storaro Violet
GELR27-AAA	Medium Red	GELR3202-AAA	Full Blue
GELR57-AAA	Lavender	GELR3206-AAA	Third Blue
GELR62-AAA	Booster Blue	GELR3216-AAA	Eighth Blue (Boosts 3200K to 3300K)
GELR71-AAA	Sea Blue	GELR3318-AAA	Tough 1/8 Minusgreen
GELR72-AAA	Azure Blue	GELR3410-AAA	Roscosun (1/8 CTO) (Reduces 5500K to 4900K)
GELR91-AAA	Primary Green	GELR3441-AAA	Full Straw (CTS)
GELR97-AAA	Light Grey	GELR3443-AAA	Quarter Straw (CTS)
GELR98-AAA	Medium Grey	GELR4330-AAA	CalColor 30 Cyan
GELR101-AAA	Light Frost	GELR4415-AAA	CalColor 15 Green
GELR104-AAA	Tough Silk	GELR4490-AAA	CalColor 90 Green
GELR119-AAA	Lt. Hamburg Frost	GELR4860-AAA	CalColor 60 Pink
GELR121-AAA	Blue Diffusion	GELR4890-AAA	CalColor 90 Pink
GELR305-AAA	Rose Gold	GELR4930-AAA	CalColor 30 Lavender

\*Backer Ring "AAA" required when no other "AAA" Accessories are being 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	Special Glass Color Filters	No.	Color	% of Light Transmission
AAA	2 3/8"	LumeLEX® 2020/2030/2031/2038, SSLCX16, SSL260, LumeLEX MAR-S	<p><b>Special Glass Color Filters</b> LSI will fabricate, on special order, glass color filters in most sizes and shapes.</p> <p><b>FS4 – Color Filter Samples</b> To facilitate selection of glass color filters, LSI supplies a complete set of 1 3/4" X 1 3/4" labeled glass and dichroic samples in a handy carrying case.</p>	<b>902</b>	Medium Pink	36
				<b>903</b>	Deep Pink	37
				<b>904</b>	Flesh Pink	73
				<b>906</b>	Pale Lavender	14
				<b>907</b>	Surprise Pink	19
AA	3"	LumeLEX® 2024 (with LX2024-Holder or LX2024-Barndoor), LumeLEX® 2026, LumeLEX® 2044, LumeLEX 2048		<b>908</b>	Lilac	21
				<b>910</b>	Warm Red	10
				<b>911</b>	Strawberry	6
				<b>912</b>	Ruby	4
				<b>913</b>	Magenta	1
				<b>914</b>	Light Amethyst	25
				<b>915</b>	Medium Amethyst	16
				<b>916</b>	Deep Amethyst	4
A	3 1/2"	LumeLEX® 2060, SSL230, SSLCX30, SSLGR30CL, SSLGR36		<b>917</b>	Olive	18
				<b>918</b>	Light Green	68
				<b>920</b>	Medium Green	25
				<b>921</b>	Deep Green	7
				<b>922</b>	Silver green	65
				<b>923</b>	Yellow Green	49
				<b>924</b>	Emerald Green	12
				<b>925</b>	Light Turquoise	68
				<b>926</b>	Medium Turquoise	40
				<b>927</b>	Deep Turquoise	17
				<b>928</b>	Light Blue	34
				<b>930</b>	Medium Blue	3
				<b>932</b>	Daylight	59
				<b>933</b>	Gene Moore Blue	18
				<b>936</b>	Grey	56
				<b>937</b>	Light Blue Green	17
				<b>939</b>	Light Amber	68
				<b>940</b>	Medium Amber	48
				<b>941</b>	Deep Amber	43
				<b>942</b>	Straw	78
				<b>943</b>	Gold	87
				<b>944</b>	Canary Yellow	84
				<b>945</b>	Lemon	81
				<b>946</b>	Pumpkin	32
				<b>947</b>	Tangerine	20
				<b>948</b>	Orange	23
				<b>949</b>	Pink Gold	54
				<b>950</b>	Bronze	48
				<b>951</b>	Brass	11
				<b>952</b>	Autumn Tan	11
				<b>953</b>	Leaf Brown	19
				<b>954</b>	Butter Pecan	3
				<b>955</b>	Toasted Almond	1

**Notes:**

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



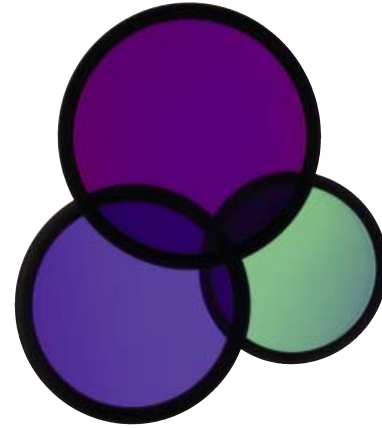
# COLOR MEDIA

## 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	Technical Data	No.	Color	% of Light Transmission
AAA	2 3/8"	LumeLEX® 2020/2030/2031/2038, SSLCX16, SSL260, LumeLEX MAR-S	Dichroic color filters are created in a vacuum chamber by multi-layer vapor deposits of different minerals onto low expansion, chemically resistant Borosilicate glass.	<b>2001</b>	Light Pink	69
AA	3"	LumeLEX® 2024 (with LX2024-Holder or LX2024-Barndoor), LumeLEX® 2026, LumeLEX® 2044, LumeLEX 2048	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.	<b>2002</b>	Medium Pink	43
A	3 1/2"	LumeLEX® 2060, SSL230, SSLCX30, SSLGR30CL, SSLGR36	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.	<b>2003</b>	Hot Pink	11
B	4 1/4"	LumeLEX® MAR-L	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.	<b>2004</b>	Pale Pink	55
C	4 3/4"	LumeLEX® 2084, LumeLEX® 2088, SSL238, SSLCX36, SSLCX38, SSLGR38CL		<b>2010</b>	Deep Magenta	29
				<b>2011</b>	Lavender	24
				<b>2012</b>	Vivid Magenta	31
				<b>2013</b>	Lavender Accent	48
				<b>2014</b>	Lilac	37
				<b>2015</b>	Purple Fusion	12
				<b>2020</b>	Sky Blue	39
				<b>2021</b>	Sea Blue	39
				<b>2022</b>	Cyan	33
				<b>2023</b>	Light Blue Green	30
				<b>2024</b>	Primary Blue	24
				<b>2025</b>	Medium Red Blue	15
				<b>2026</b>	Deep Purple	16
				<b>2027</b>	Peacock Blue	53
				<b>2028</b>	Mediterranean Blue	20
				<b>2029</b>	Boost Blue	51
				<b>2040</b>	Light Yellow Green	64
				<b>2041</b>	Fern Green	47
				<b>2042</b>	Turquoise	35
				<b>2043</b>	Primary Green	31
				<b>2044</b>	Industrial Green	64
				<b>2050</b>	Yellow	80
				<b>2051</b>	Amber	71
				<b>2052</b>	Amber Blush	38
				<b>2053</b>	Bastard Amber	71
				<b>2054</b>	Goldenrod	63
				<b>2055</b>	Bright Straw	56
				<b>2060</b>	Medium Orange	51
				<b>2061</b>	Orange	44
				<b>2070</b>	Flame Red	27
				<b>2071</b>	Primary Red	25

### Special Glass Color Filters

LSI will fabricate, on special order, dichroic glass color filters in most sizes and shapes not exceeding a 13" diameter circle overall.

### FS4 — Color Filter Samples

To facilitate selection of glass color filters, LSI supplies a complete set of 1 3/4" X 1 3/4" labeled glass and dichroic samples in a handy carrying case.