sixteen <mark>5</mark> hundred	Tunable White Color Tuning	Catalog Number LX2060-L19 15-90 CO S1 CT1-DX 120 S	
		Notes	

LumeLEX SERIES

LX2060 • 120/277V • LUMENETIX-ARAYA • 19MM



Elegant fixture designed specifically for the most demanding architecture applications.

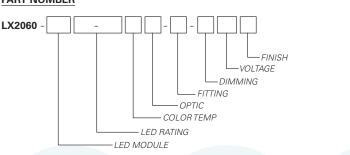
- Designed for the Lumenetix-araya Color Tuning LED module up to 29 Watts
- Extremely tight color consistency (less than 2 MacAdam Ellipses, \pm 0.002 DUV), (2000K to 6000K at 2 SDCM)
- System efficiency up to 42 lumens/watt
- On board closed loop feedback compensates each channel for thermal and optical depreciation.
- 50,000 hour life to 70% lumen output, L70 at 95°F max ambient
- Tunable white from 1650K to 8000K
- Full color tuning and gradients of saturated colors
- Color Rendering Index (CRI) of 90+ from 2000K to 6000K
- 1500 produced lumens
- Tested to LM79 and LM80 Protocols
- Choice of dimming down to 1%. Compatible with 2 zones for 0-10V
- 0-10V with the ability to control intensity and CCT simultaneously
- Compatible with DMX and RDM
- Uses the following four DMX channels: Dimming, CCT, Saturation, and Hue
- Field interchangeable optics (15°- 60°) modify the beam spread distribution
- Accessory holder accepts up to two size-AA LSI filters and accessories
- Finishes: LSI Black, White, and Silver
- Fixture weight: 3.5 lbs
- All modules are field replaceable

FIXTURE PART NUMBERS

Please review the **ORDERING INFORMATION** section on the next page as well as the **MOUNTING OPTIONS** on page 3 to create a part number for each fixture that specifies the following:

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

PART NUMBER

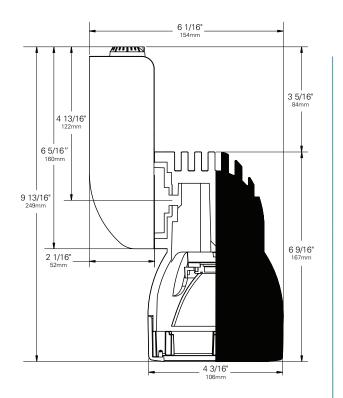


Example Part Number: **LX2060-L1915-90DWM9-CT1-DX120W** is a fixture with a Lumenetix-araya 19mm LED module, 1500 Lumen/90 CRI/29 Watt LED rating, Dynamic White (1650° - 8000°K) Color Temperature, 70mm 20° Optic, CT1 CONTROLTrack fitting with DMX Address knobs and DMX compatible control gear, 120V and a White finish.

sixteen <mark>5</mark> hundred	Tunable White Color Tuning	Catalog Number LX2060-L19 15-90 CO S1 CT1-DX 120 S	Туре
-		Notes	

LumeLEX SERIES

LX2060 · 120/277V · LUMENETIX-ARAYA · 19MM



ORDERING INFORMATION

Base Fixture Model

🗆 LX2060-L19

LED Rating (Lumens/CRI/Wattage)□ 15-90 = 1500/90/29

Color Temperature

□ DW= Dynamic White 1650-8000K*
□ CO= Full Color and Dynamic White 1650-8000K

Optic

□ S1 = 50mm/15°

 \Box M2 = 70mm/ 20° \Box M4 = 70mm/ 35°

- \square M6 = 70mm/ 60° \square M8 = 70mm/ 40° Wide Field Angle
- \square M9 = 70mm/ 20° Wide Field Angle

Fitting/Controls (Dimming)

□ CT1-10 = CONTROLTrack Fitting & 0-10V (1%)*

- □ CT1-DX = CONTROLTrack Fitting & DMX (<1%)
- □ 5A-10 = Canopy Fitting & 0-10V (1%)*
- □ 5A-DX = Canopy Fitting & DMX (<1%)

Voltage

□ 120 = 120V □ 230 = 220-240V □ 277 = 277V

Finish

 \square B = Black \square W = White \square S = Silver

Example Part Number:

LX2060-L19	15-90	DW	M9 –	CT1-DX	120	W
FIXTURE MODEL	LED BATING	COLOR	OPTIC	FITTING/ DIMMING	VOLTAGE	FINISH

Other Options (Consult Factory):

• Custom Stems, specify length (4"- 48")

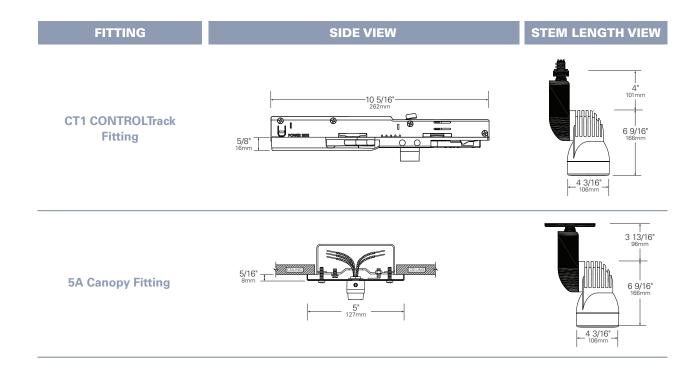
• Custom color, RAL palette

*0-10V Available in Dynamic White only.

sixteen5hundre	Tunable White Color Tuning	Catalog Number LX2060-L19 15-90 CO S1 CT1-DX 120 S	Туре
	Submitted By 16500, INC	Notes	

LumeLEX SERIES

LX2060 MOUNTING OPTIONS



Catalog Number

Notes

LX2060-L19 15-90 CO S1 CT1-DX 120 S

Lighting Services Inc

sixteen5hundred

LX2060 PERFORMANCE

Submitted By

16500, INC

Project 21-12877-4 Date 6/24/2021

Tunable White | Color Tuning

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 - module type (dynamic white vs full color), control type (0-10V and DMX), 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 letter and a number that immediately follow the product series number. For example, in the part number LX2060-L1915-90COM2-CT1-DX120B, the "15-90CO" represents a 19mm Lumenetix-araya module with an output of 1500 Lumens, a minimum CRI of 90, with full color tuning and power usage of 29 Watts

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 "M2" in LX2060-L1915-90COM2-CT1-DX120B is a 70mm diameter optic that has a 20-Degree beam with a narrow field.

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		0	ptic (Refle	ector)		
Lumens/CRI/Wattage	S1	M2	M4	M6	M8	M9
1500/90/29	2795	4,066	2,723	1,458	2,157	3,946

Delivered Lumer

Delivereu Lullelis						
LED Module	Optic (Reflector)					
Lumens/CRI/Wattage	S1	M2	M4	M6	M8	M9
1500/90/29	396	473	819	1,181	1,211	1,214

Efficiency = Lumens Per Watt							
LED Module		0	ptic (Refle	ector)		-	
Lumens/CRI/Wattage	S1	M2	M4	M6	M8	M9	
1500/90/29	14	16	28	41	42	42	

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

LED Module Lumens/CRI/Wattage Letter Code	1500/90/29 15-90
Nominal Fixture Power (+/- 20%), Watts	29
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.

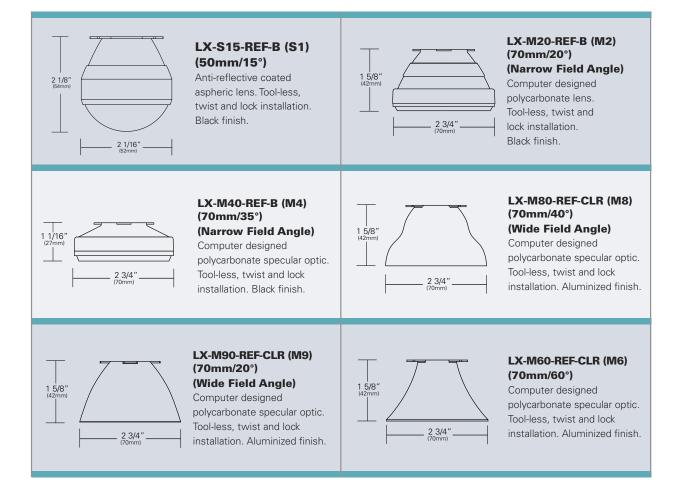


LumeLEX SERIES

_	Tunable White Color Tuning	Catalog Number LX2060-L19 15-90 CO S1 CT1-DX 120 S	Туре
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	Submitted By 16500, INC	Notes	

LumeLEX SERIES

LX2060 OPTICS



_	Tunable White Color Tuning	Catalog Number LX2060-L19 15-90 CO S1 CT1-DX 120 S	Туре
sixteen5hundred			
-	Submitted By	Notes	
	16500, INC		

LED RATING: 15-90

S1- 50mm DIA Optic

LX2060 PHOTOMETRIC DATA

15° 2795 90

20° 4066 90

20° 3946 90

35° 2723 90

40°

2157 90

60° 1458 90

All Max. Footcandles at 0° Beam Axis

LED RATING: 15-90

M6

(60°) NFA

M8

(40°) WFA

M4

(35°) NFA

M9

(20°) WFA

M2

(20°) NFA

S1

(15°) NFA

(NFA: Narrow Field Angle) Beam Spread (minimum) Center Beam Candlepower CRI	
M2-70mm DIA Optic (FR: Field Reducer) Beam Spread (minimum) Center Beam Candlepower CRI	
M9- 70mm DIA Optic (NFA: Narrow Field Angle) Beam Spread (minimum) Center Beam Candlepower CRI	
M4- 70mm DIA Optic (NFA: Narrow Field Angle)	

Beam Spread (minimum) Center Beam Candlepower CRI

M8- 70mm DIA Optic (WFA: Wide Field Angle) Beam Spread (minimum) Center Beam Candlepower CRI

M6- 70mm DIA Optic (WFA: Wide Field Angle) Beam Spread (minimum) Center Beam Candlepower CRI

1458	2157	2723	3946	4066	2795	
365	539	681	987	1017	699	1
162	240	303	438		311	2
				452		3
91	135	170	247	254	175	4
58	86	109	158	163	112	
41	60	76	110	113	78	6
30	44	56	81	83	57	7
23	34	43	62	64	44	8
18	27	34	49	50	35	9
15	22	27	39	41	28	10
12	18	23	33	34	23	11
10	15	19	27	28	19	12
9	13	16	23	24	17	13
7	11	14	20	21	14	
6	10	12	18	18	12	15
6	8	11	15	16	11	16
5	7	9	14	14	10	17
5	7	8	12	13	9	18
4	6	8	11	11	8	
4	5	7	10	10	7	19
3	5	6	9	.0	6	20
3	4	6	8	8	6	21
3	4	5	7	8	5	22
			7	7		23
3	4	5			5	24
2	3	4	6	7	4	25

All Distances in Feet

4 6

6 4 2 0 2

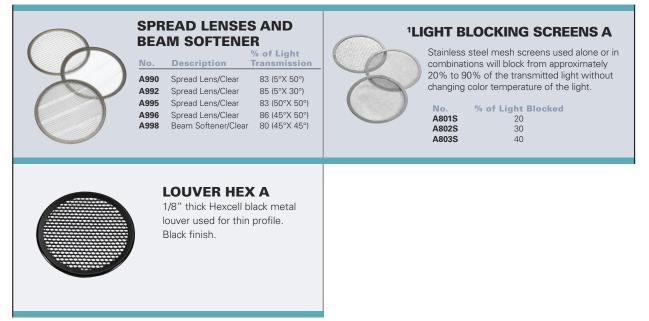
Photometric Data based on LED Rating: 15-90 (1500 Lumens/90CRI/29watts) *WFA Optics not represented in graph

LumeLEX SERIES

_	Tunable White Color Tuning	Catalog Number LX2060-L19 15-90 CO S1 CT1-DX 120 S	Туре
		Notes	

LumeLEX SERIES

LX2060 ACCESSORIES



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

_	Project 21-12877-4 Date 6/24/2021 Tunable White Color Tuning	Catalog Number LX2060-L19 15-90 CO S1 CT1-DX 120 S	Туре
sixteen5hundred	Submitted By	Notes	
	16500, INC		

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® 2044, LumeLEX 2048
А	3 1/2"	LumeLEX [®] 2060, SSL230, SSLCX30, SSLGR30CL
В	4 1/4"	LumeLEX [®] MAR-L
С	4 3/4″	290, LumeLEX® 2084, LumeLEX® 2088, SSL238, SSLCX36, SSLCX38, SSLGR38CL

	•	
		¹ % of Light
No.	Color	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	
945 946	Lemon	81
940	Pumpkin Tangerine	20
947	Orange	20
940	Pink Gold	54
949	Bronze	48
950 951	Brass	11
951	Autumn Tan	11
953	Leaf Brown	19
954	Butter Pecan	3
955	Toasted Almond	1
	18881047 Millorid	

Notes:

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

Project 21-12877-4 Date 6/24/2021 Tunable White | Color Tuning Submitted By 16500, INC Catalog Number LX2060-L19 15-90 CO S1 CT1-DX 120 S

Notes

Lighting Services Inc

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
AAA	2 3/8″	LumeLEX® 2020/2030/2031/2038, SSLCX16, SSL260, LumeLEX MAR-S
ZM	2 13/16"	LZ ZOOM
AA	3″	LumeLEX® 2044, LumeLEX 2048
A	3 1/2"	LumeLEX® 2060, SSL230, SSLCX30, SSLGR30CL
В	4 1/4"	LumeLEX® MAR-L
С	4 3/4"	290, 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.

		% of Light
No.	Color	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

Туре