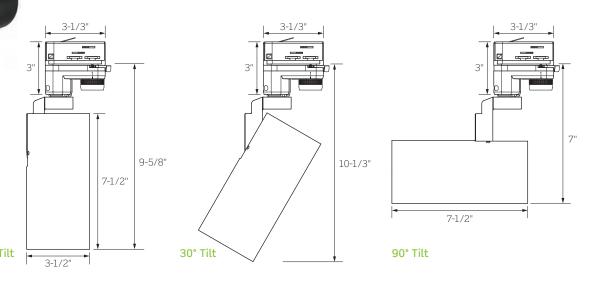


NCTL93 SERIES | Gallery M Track Luminaire featuring Xicato® LED for 2C/2N Nordic Track Systems

High performance track luminaire delivering high outputs and superior beam control

- Clean aesthetics, simple cylinder form
- Multiple beam distributions
- Delivering up to 2400 Lumens
- Xicato 95CRI Series COB





	NCTL931	NCTL932	NCTL933	NCTL934	NCTL935
WATTAGE	10W	14W	19W	28W	35W
LUMEN OUTPUT ¹ BY BEAM SPREAD					
Narrow Spot (12°)	723Lm	990Lm	1324Lm	N/A	N/A
Spot (15°)	661Lm	920Lm	1276Lm	1716Lm	2131Lm
Medium Flood (35°)	745Lm	1038Lm	1439Lm	1935Lm	2403Lm
Flood (52°)	744Lm	1036Lm	1437Lm	1931Lm	2399Lm
Wide Flood (79°)	691Lm	963Lm	1335Lm	1794Lm	2229Lm
COLOR TEMPERATURE	2700K / 3000K / 3500K / 4000K				
CRI	95				
FINISHES	Matte Black / Matte White / Matte Silver				
DRIVER INPUT VOLTAGE	120V, 50/60Hz				
DIMMING TYPE	120V Forward/Reverse Phase Dimming				
COMPATIBILITY	Compatible with Global/Nordic Aluminum Inc. Track Systems				
LISTINGS	cCSAus Certified for use in the U.S. and Canada; Suitable for Dry Locations				
WARRANTY	Five (5) year replacement after date of purchase				
SYSTEM RATING	50,000 Hours @ 70% Lumen Maintenance				

^{1.} Approximate lumen output based on 3000K performance; see photometric test results for additional information



NCTL93 SERIES | Gallery M Track Luminaire for 2C/2N Nordic Track Systems

ORDERING INFORMATION

LED Series	Beam Option	CCT/CRI	Driver	Finish
NCTL931 10W NCTL932 14W NCTL933 19W NCTL934 28W NCTL935 35W	NS ² Narrow Spot: 13° Beam/26° Field SP Spot: 18° Beam/42° Field MF Medium Flood: 35° Beam/57° Field FL Flood: 51° Beam/64° Field WF Wide Flood: 80° Beam/102° Field	95 CRI 27XC 2700K 3XC 3000K 35XC 3500K 4XC 4000K	D 120V Forward/Reverse Phase Dimming	B Matte Black P Matte White S Matte Silver

^{2.} Narrow Spot (NS) Beam is only available for Series 1 (10W) through Series 3 (19W)

ACCESSORY & REPLACEMENT OPTIC ORDERING INFORMATION

Each Gallery M Luminaire may hold up to two (2) pieces of Media OR one (1) Snoot or Barn Door Assembly plus one (1) piece of Media



with Optional Cross Blades Exterior painted per finish selection: Black (B), White (P) or Silver (S). Interior and Cross Blades are always Black.



Barn Doors Black finish. Barn Doors may hold one LF18 Lens or LA-35 Honeycomb Louver.



Honeycomb Louver Black finish

Nordic NTEK 120V 2C/2N

27 Nordic NHTEK 277V 2C/2N 1C Nordic ECO 120V 1C/1N or 2C/1N 3C Nordic Pro 120V 3C/1N

Example Order: NCTL932SP3XCD-P1C

Nordic Adapter

Leave Blank

Access	SOLA
	Snoot with optional Cross Blades

Finish

- **B** Matte Black
- P Matte White
- **S** Matte Silver



BD93 Barn Doors

Accessory

Finish **B** Matte Black

Accessory

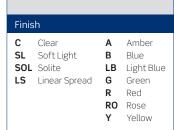
FA-16-60MM 2-3/8-In. Black Honeycomb Louver LA-35 3-1/16-In. Black Honeycomb Louver for use within Barn Doors only



Tempered Glass Filters and Lenses

1/8-Inch Thick, typ.

Accessory			
LF16	Tempered Glass Filters and Lenses		
LF18	Tempered Glass Filters and Lenses for use within Barn Doors only		
	Barri Doors only		



_	
	Size
	60MM 2-3/8-Inch
	Leave Blank
	3-1/16-Inch
	LF18 Series for use within
	Barn Doors only
	24D0013 011ty

Replacement Opt	tics
CTL93XOPT-NS ³	Narrow Spot Replacement 13° Beam/26° Field
CTL93XOPT-SP	Spot Replacement 18° Beam/42° Field
CTL93XOPT-MF	Medium Flood Replacement 35° Beam/57° Field
CTL93X0PT-FL	Flood Replacement 51° Beam/64° Field
CTL93XOPT-WF	Wide Flood Replacement 80° Beam/102° Field

^{3.} Narrow Spot (CTL93OPT-NS) Optic is only for use on luminaires originally ordered with the NS Optic



NCTL93 SERIES | Gallery M Track Luminaire for 2C/2N Nordic Track Systems

PRODUCT SPECIFICATIONS

PERFORMANCE SUMMARY

- The Xicato 95 CRI Series COBs are designed to perfectly emulate natural light sources, with precise color rendering by CIE or IES standards, for the most exacting illumination of art, architecture, or other surfaces
- 2700K, 3000K, 3500K and 4000K Color temperatures, all with 95 CRI
- Xicato Modules feature extraordinary color consistency within 1x2-step MacAdam ellipse
- Precise beam control ensures that even at lower aiming angles the luminaire is glare free and quiet in the ceiling
- Full collection of accessories available to produce a myriad of filtering and framing effects
- 120V Forward or Reverse Dimming is standard for all wattage options.
 For dimmer compatibility and performance, refer to the Dimming Specifications below.

CONSTRUCTION

- A revolutionary track head with superior optics designed to bring theatre grade beam control to traditional gallery and commercial track heads
- Constructed of die-cast aluminum, the cylindrical body provides thermal management for the luminaire
- Locking mechanisms for Tilt (0° to 91°) and Rotation (365°)

- Five (5) Beam Distributions available: 13° Narrow Spot, 18° Spot, 35° Medium Flood, 51° Flood, and 80° Wide Flood
- Optics are field interchangeable (with restrictions) and provide smooth, striation-free beams
- Optics are field interchangeable (with restrictions) and provide smooth, striation-free beams
- Luminaire may accept up to two (2) pieces of media (Lens or Louver), one
 (1) Snoot/Barn Door Assembly plus one (1) piece of media (Lens or Louver). Consult ordering information for proper combinations and sizes.

NOTE: Luminaire may hold one (1) LF16 60MM Series Lens or FA-16-60MM Louver;

Barn Doors may hold one LF18 Series Lens or LA-35 Louver

- Integral ON/OFF switch and track polarity indicator are standard
- Fixture weight: 3 LBS

FIXTURE COMPATIBILITY

- Compatible with Nordic Aluminum Inc. TEK100 Track Systems
- ConTech can switch out the standard Nordic TEK00 adapter with either the GES66 or GA100 adapters for compatibility with other Nordic Aluminum Inc. Track Systems
- For more information, consult factory

DIMMING SPECIFICATIONS

- Incandescent 120V AC Dimmers adjust the light with Forward Phase Control, where the Dimmer "chops" the forward part of the AC Wave to deliver less or more power to the light source. No Neutral Wire Connection required.
- Electronic Low Voltage 120V AC Dimmers adjust the light with Reverse Phase Control, where the Dimmer "chops" the back part of the AC Wave to deliver less or more power to the light source. Neutral Wire Connection required.

FORWARD/REVERSE PHASE COMPATIBLE DIMMERS					
MANUFACTURER	PRODUCT	MODEL	LIGHT OUTPUT		
Leviton	Vizia	VPE06	4%-100%		
Leviton	Decora	6673-10W	11%-100%		
Lutron	Ariadni	TGCL-153P	0%-100%		
Lutron	Diva	DVCL-153P	0%-100%		
Lutron	Diva	DVELV303P	3%-100%		
Lutron	Skylark	SELV300P	3%-100%		
Lutron	Maestro	MAELV600	0%-100%		
Lutron	Faedra	FAELV500	7%-100%		
Lutron	Skylark C	SCL-153P	0%-100%		
Lutron	Maestro C•L	MACL-153M	0%-99%		
Lutron	RA2 Select	RRD-6CL	2%-98%		

NOTES

- 1. If light is measured, then the dimming range is based on light output. If light is not measured, then the dimming range is based on the percentage of output current.
- 2. Testing was performed with a single fixture connected to dimmer.
- 3. Testing has been performed on these dimmers, but this does not imply any warranty of compatibility.
- 4. Dimming performance can be influenced by different loads, as well as variations in dimmer switches within the same model.
- 5. Dimmer maximum load rating with LED may differ from published traditional source dimmer ratings. Consult manufacturer for maximum dimmer information.
- 6. Consult factory for additional dimming information.



CTL93 SERIES | Gallery M Track Luminaire Xicato® LED Photometry

CTL933NS3XCD: 19W, 3000K, 95 CRI, NARROW SPOT BEAM

Test No. G2509040

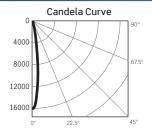
Total Watts@120V: 20.3 Lumens Per Watt: 64.24 Center Beam Candle Power: 16112 Beam Distribution: 12.8° Spacing Criterion: 0.24 Color Rendering Index (CRI)¹: 97.8 Color Temperature (CCT)²: 2938K

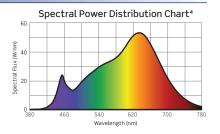
Designed for 50,000 Hour Lamp Life³

Fixture Delivered Lumens: 1324.29

Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
4 FT	1007.0	0.9
6 FT	447.6	1.4
8 FT	251.8	1.8
10 FT	161.1	2.3
12 FT	111.9	2.7
14/FT	82.2	3,2





NARROW SPOT BEAM OUTPUT MULTIPLIERS			
10W 14W			
0.55	0.75		

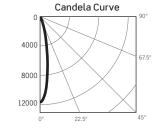
CTL935SP3XCD: 35W, 3000K, 95 CRI, SPOT BEAM

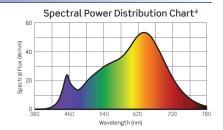
Test No. G25082701

Fixture Delivered Lumens: 2131.04 Total Watts@120V: 34.7 Lumens Per Watt: 61.41 Center Beam Candle Power: 11703 Beam Distribution: 18.2° Spacing Criterion: 0.36 Color Rendering Index (CRI)¹: 97.8 Color Temperature (CCT)²: 2938K Designed for 50,000 Hour Lamp Life³

Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
4 FT	731.5	1.3
6 FT	325.1	1.9
8 FT	182.9	2.6
10 FT	117.0	3.2
12 FT	81.3	3.9
14/FT	59.7	4.5





CTL935MF3XCD: 35W, 3000K, 95 CRI, MEDIUM FLOOD BEAM

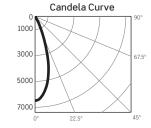
Test No. G25082609

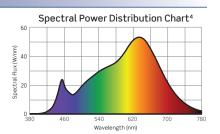
Total Watts@120V: 34.7 Lumens Per Watt: 69.26 Center Beam Candle Power: 6507 Beam Distribution: 35.5° Spacing Criterion: 0.55 Color Rendering Index (CRI)¹: 97.8 Color Temperature (CCT)²: 2938K Designed for 50,000 Hour Lamp Life³

Fixture Delivered Lumens: 2403.31

Intensity Distribution

DIS	STANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
	4 FT	406.7	2.6
	6 FT	180.7	3.8
	8 FT	101.7	5.1
	10 FT /	65.1	6.4
	12 FT	45.2	7.7
	14/FT	33.2	9.0





OUTPUT MULTIPLIERS				
10W	14W	19W	28W	
0.31	0.43	0.60	0.81	

1. Accuracy of Rendering Colors 2. Color Appearance of Light Source 3. Dependent on Surrounding Temperatures 4. Colors Present within the Light Source

PHOTOMETRIC MULTIPLICATION FACTORS

Lumen output values fluctuate based on Color Temperature (CCT), Color Rendering Index (CRI), and Luminaire Wattage/Output. To estimate lumen output of the various options, multiply the 3000K standard CRI results by the following:

CCT MULTIPLIERS								
ССТ	95 CRI							
2700K	0.92							
3000K	1.00							
3500K	1.05							
4000K	1.10							



CTL93 SERIES | Gallery M Track Luminaire Xicato® LED Photometry

CTL935FL3XCD: 35W, 3000K, 95 CRI, FLOOD BEAM

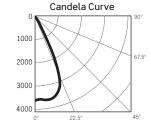
Test No. G2508260

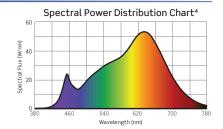
Total Watts@120V: 34.8 Lumens Per Watt: 68.93 Center Beam Candle Power: 3637 Beam Distribution: 51.1° Spacing Criterion: 0.72 Color Rendering Index (CRI)¹: 97.8 Color Temperature (CCT)²: 2938K Designed for 50,000 Hour Lamp Life³

Fixture Delivered Lumens: 2398.7

Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
4 FT	227.3	3.8
6 FT	101.0	5.7
8 FT	56.8	7.6
10 FT	36.4	9.6
12 FT	25.3	11.5
14/FT	18.6	13.4





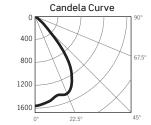
CTL935WF3XCD: 35W, 3000K, 95 CRI, WIDE FLOOD BEAM

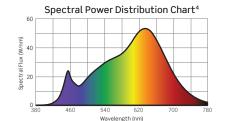
Test No. G2509150

Fixture Delivered Lumens: 2228.46
Total Watts@120V: 34.4
Lumens Per Watt: 64.78
Center Beam Candle Power: 1566
Beam Distribution: 79.9°
Spacing Criterion: 1.13
Color Rendering Index (CRI)¹: 97.8
Color Temperature (CCT)²: 2938K
Designed for 50,000 Hour Lamp Life³

Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
4 FT	97.9	6.7
6 FT	43.5	10.1
8 FT	24.5	13.4
10 FT	15.7	16.8
12 FT	10.9	20.1
14/FT	8.0	23,5





1. Accuracy of Rendering Colors 2. Color Appearance of Light Source 3. Dependent on Surrounding Temperatures 4. Colors Present within the Light Source

PHOTOMETRIC MULTIPLICATION FACTORS

Lumen output values fluctuate based on Color Temperature (CCT), Color Rendering Index (CRI), and Luminaire Wattage/Output. To estimate lumen output of the various options, multiply the 3000K standard CRI results by the following:

CCT MULTIPLIERS								
ССТ	95 CRI							
2700K	0.92							
3000K	1.00							
3500K	1.05							
4000K	1.10							

	OUTPUT MULTIPLIERS										
10W	10W 14W 19W 28W										
0.31	0.43	0.60	0.81								



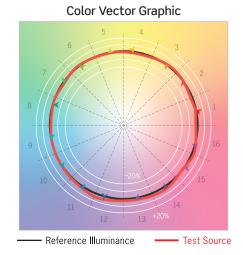
CTL93 SERIES | Gallery M Track Luminaire Xicato® LED Photometry

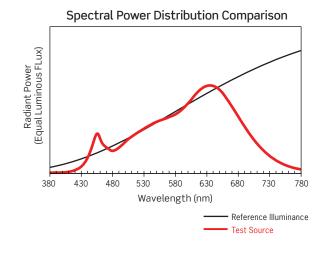
TM-30 DATA: CTL935MF3XCD

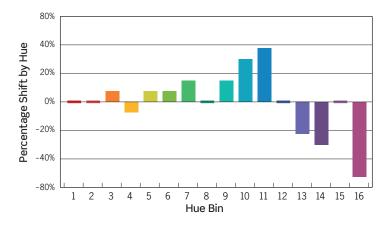
ANSI/IES TM-30-18 Color Rendition Report Test No. S25082701

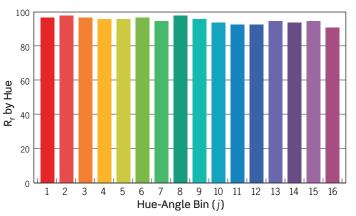
Colors are for visual orientation purposes only

$\begin{array}{c|c} R_{_{\rm f}} & 95 \\ R_{_{\rm g}} & 101 \\ \text{CCT(K)} & 2938\text{K} \\ D_{_{uv}} & -0.0025 \\ u^{_{\rm I}} & 0.2536 \\ v^{_{\rm I}} & 0.5192 \\ \end{array}$









HUE BIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
HUE SHIFT	0%	0%	1%	-1%	1%	1%	2%	0%	2%	4%	5%	0%	-3%	-4%	0%	-7%
R _f VALUE	97	98	97	96	96	97	95	98	96	94	93	93	95	94	95	91