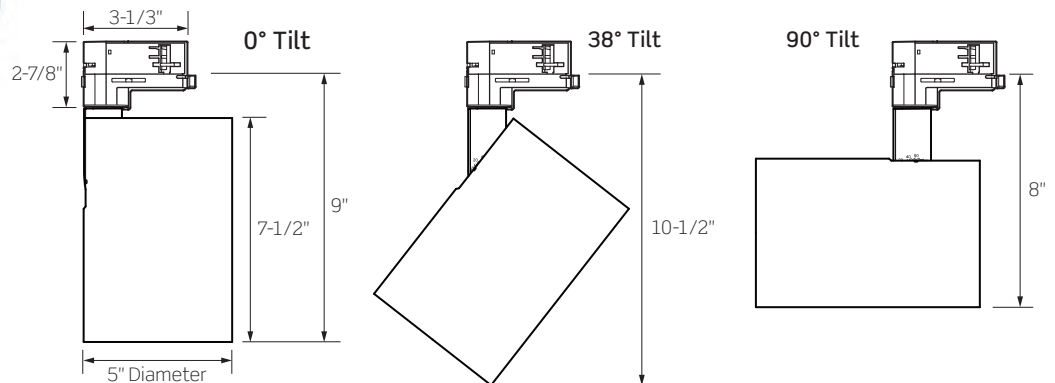


NCTL94 SERIES | Gallery XL Track Luminaire for 2C/2N Nordic Track Systems



High performance track luminaire delivering high outputs and superior beam control

- Clean aesthetics, simple form
- Multiple beam distributions
- High performance
- Consistent color rendering



	NCTL940	NCTL941	NCTL942	NCTL943	NCTL944	NCTL945
WATTAGE	13W	20W	29W	38W	42W	49W
LUMEN OUTPUT ¹ BY BEAM SPREAD Beam Range: 8° to 50°						
Very Narrow Spot Optic	744 Lm	1023 Lm	1349 Lm	1550 Lm	N/A	N/A
Narrow Spot Optic	702 Lm	1033 Lm	1462 Lm	1793 Lm	1949 Lm	N/A
Spot Reflector	1283 Lm	1885 Lm	2646 Lm	3288 Lm	3609 Lm	4010 Lm
Medium Reflector	1365 Lm	2005 Lm	2816 Lm	3660 Lm	3839 Lm	4266 Lm
Flood Reflector	1428 Lm	2098 Lm	2946 Lm	3696 Lm	4017 Lm	4463 Lm
Wide Flood Reflector	1407 Lm	2067 Lm	2902 Lm	3606 Lm	3958 Lm	4398 Lm
COLOR TEMPERATURE	2700K / 3000K / 3500K / 4000K					
CRI	83 (80min) / 90+					
FINISHES	Matte Black / Matte White / Matte Silver					
DRIVER INPUT VOLTAGE	120V, 50/60Hz					
DIMMING TYPE	120V Forward/Reverse Phase Dimming Integrated Rotary Dimming Option					
COMPATIBILITY	Compatible with Nordic Aluminum Inc. Track Systems					
LISTINGS	cSAus Certified for use in the U.S. and Canada; Suitable for Dry Locations DLC™ Certified for all models using Spot, Medium, Flood, and Wide Flood Reflectors					
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

NCTL94 SERIES | Gallery XL Track Luminaire for 2C/2N Nordic Track Systems

ORDERING INFORMATION

Example Order: NCTL942VN3KD-P1C

LED Series	Beam: Optic or Reflector		CCT/CRI	Driver	Finish	Nordic Adapter
NCTL940 13W NCTL941 20W NCTL942 29W NCTL943 38W NCTL944 42W NCTL945 49W	PC Optics Intensity at Nadir, Narrow Field VN ² Very Narrow Spot: 8° Beam, 17° Field NS ³ Narrow Spot: 11° Beam, 22° Field	Reflectors Well Defined Beams, Smooth Field SP Spot: 11° Beam, 26° Field ME Medium: 22° Beam, 52° Field FL Flood: 41° Beam, 66° Field WF Wide Flood: 50° Beam, 83° Field	80+ CRI 27K 2700K 3K 3000K 35K 3500K 4K 4000K 90+ CRI 27KC 2700K 3KC 3000K 35KC 3500K 4KC 4000K	D 120V Forward/Reverse Phase Dimming DI ^{4,5} 120V Integrated Rotary Dimmer	B Matte Black P Matte White S Matte Silver	Nordic NTEK 120V 2C/2N Leave Blank 27 Nordic NHTEK 277V 2C/2N 1C Nordic ECO 120V 1C/1N or 2C/1N 3C Nordic Pro 120V 3C/1N

2. Very Narrow Spot (VN) only available up to Series 3 (CTL943/38W)

3. Narrow Spot (NS) only available up to Series 4 (CTL944/42W)

4. Integrated Dimmer Option (DI) should not be used if Track will be controlled by an alternate Dimmer

5. Integrated Dimmer Knob has a black finish

ACCESSORY & REPLACEMENT OPTIC ORDERING INFORMATION

Each Gallery XL Luminaire comes ready to hold up to two (2) Accessories; Snoot or Barn Door count as one (1) piece



FA-94 Series
*Snoot with
Optional Cross Blades*
Exterior painted per finish selection: Black (B), White (P) or Silver (S). Interior and Cross Blades are always Black.



LA-45 Series
Honeycomb Louver
3-3/4-Inch Diameter;
Black finish



BD-94 Series
Barn Doors
Black finish

Accessory	Finish
FA-94 Snoot with optional Cross Blades	B Matte Black P Matte White S Matte Silver

Accessory
LA-45 Black Honeycomb Louver

Accessory	Finish
BD94 Barn Doors	B Matte Black



LF20 Series
*Tempered Glass
Filters and Lenses*
3-3/4-Inch Diameter, 1/8-Inch Thick, typ.



CTL94NS
11° Narrow Spot



CTL94SP
11° Spot



CTL94ME
22° Medium



CTL94FL
41° Flood



CTL94WF
50° Wide Flood

Accessory	Finish														
LF20 Tempered Glass Filters and Lenses	<table> <tr> <td>C Clear</td> <td>A Amber</td> </tr> <tr> <td>SL Soft Light</td> <td>B Blue</td> </tr> <tr> <td>SOL Solite</td> <td>LB Light Blue</td> </tr> <tr> <td>LS Linear Spread</td> <td>G Green</td> </tr> <tr> <td>73 Spread</td> <td>R Red</td> </tr> <tr> <td>UV Optivex UV</td> <td>RO Rose</td> </tr> <tr> <td></td> <td>Y Yellow</td> </tr> </table>	C Clear	A Amber	SL Soft Light	B Blue	SOL Solite	LB Light Blue	LS Linear Spread	G Green	73 Spread	R Red	UV Optivex UV	RO Rose		Y Yellow
C Clear	A Amber														
SL Soft Light	B Blue														
SOL Solite	LB Light Blue														
LS Linear Spread	G Green														
73 Spread	R Red														
UV Optivex UV	RO Rose														
	Y Yellow														

Replacement Optic and Reflectors	
CTL94NS	13° Narrow Spot Optic Very Narrow Spot Optic not available as a replacement optic
CTL94SP	11° Spot Reflector
CTL94ME	24° Medium Reflector
CTL94FL	42° Flood Reflector
CTL94WF	51° Wide Flood Reflector

NCTL94 SERIES | Gallery XL Track Luminaire for 2C/2N Nordic Track Systems

PRODUCT SPECIFICATIONS

PERFORMANCE SUMMARY

- 2700K, 3000K, 3500K and 4000K CCTs; 80 CRI min., 83 typical; high CRI of 90+ available
- Excellent fixture-to-fixture color consistency with a 3-step MacAdam Ellipse tolerance
- 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.
- Integrated Rotary Dimmer option available; this option should not be used if Track System will be controlled by other dimmers

CONSTRUCTION

- A revolutionary track head with superior optics designed to bring theatre grade beam control to traditional gallery and commercial track heads and mono-point luminaires
- The luminaire is constructed of die-cast aluminum, the cylindrical body provides thermal management
- Adjustable, lockable aiming arm with 0° to 100° tilt for precision aiming; 365° horizontal rotation

- Precision engineered Dual Lens Optic is used for the 8° Very Narrow Spot and the 11° Narrow Spot beam distributions. Design provides a tight beam angle and field to highlight target objects with minimal stray illumination.
- Specular Aluminum Reflectors are used for the 11° Spot, 22° Medium, 41° Flood, and 50° Wide Flood beam distributions. Reflectors are optically engineered for even illumination and glare control.
- Can accept up to two (2) LF20 Lenses/Filters, LA-45 Honeycomb Louver, FA-94 Snoot, or BD94-B Black Barn Doors, ordered separately. Snoot or Barn Door count as one (1) piece.
- Integral ON/OFF switch and track polarity indicator are standard
- Fixture weight: 5 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	Faetra	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.

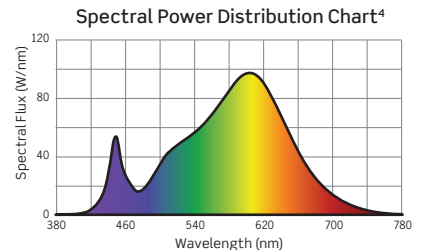
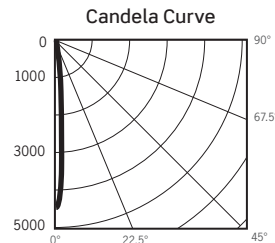
CTL94 SERIES | Gallery XL Track Luminaire Standard Luminous Photometry

CTL943VN3KD: 38W, 3000K, 83 CRI, VERY NARROW SPOT PC OPTIC

Test No. G24062604

Fixture Delivered Lumens: 1550.2
 Total Watts@120V: 37.4
 Lumens Per Watt: 41.5
 Center Beam Candle Power: 45100
 Beam Distribution: 8.4°
 Field Distribution: 16.6°
 Spacing Criterion: 0.17
 Color Rendering Index (CRI)¹: 83.1
 Color Temperature (CCT)²: 3086K
 Designed for 50,000 Hour Lamp Life³

Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
6 FT	1252.8	0.9
8 FT	704.7	1.2
10 FT	451.0	1.5
12 FT	313.2	1.8
14 FT	230.1	2.1
16 FT	176.2	2.3



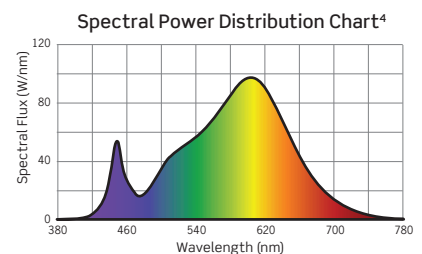
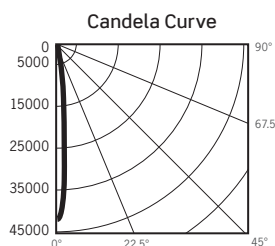
VERY NARROW SPOT OPTIC OUTPUT MULTIPLIERS			
13W	20W	29W	38W
0.48	0.66	0.87	1.00

CTL944NS3KD: 42W, 3000K, 83 CRI, NARROW SPOT PC OPTIC

Test No. G24062603

Fixture Delivered Lumens: 1948.8
 Total Watts@120V: 41.0
 Lumens Per Watt: 47.6
 Center Beam Candle Power: 42188
 Beam Distribution: 10.6°
 Field Distribution: 22.0°
 Spacing Criterion: 0.20
 Color Rendering Index (CRI)¹: 83.1
 Color Temperature (CCT)²: 3086K
 Designed for 50,000 Hour Lamp Life³

Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
6 FT	1171.9	1.1
8 FT	659.2	1.5
10 FT	421.9	1.9
12 FT	293.0	2.2
14 FT	215.2	2.6
16 FT	164.8	3.0



NARROW SPOT OPTIC OUTPUT MULTIPLIERS			
13W	20W	29W	38W
0.36	0.53	0.75	0.92

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		
CCT	STANDARD CRI	HIGH (90+) CRI
2700K	0.98	0.81
3000K	1.00	0.85
3500K	1.01	0.86
4000K	1.02	0.89

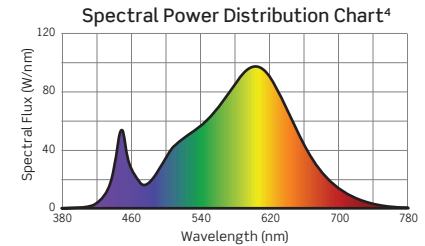
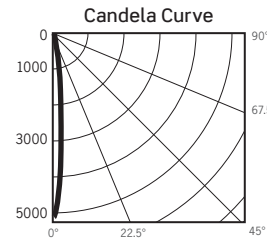
CTL94 SERIES | Gallery XL Track Luminaire Standard Luminous Photometry

CTL945SP3KD: 48W, 3000K, 83 CRI, SPOT ALUMINUM REFLECTOR

Test No. G24062701

Fixture Delivered Lumens: 4051.4
Total Watts@120V: 47.4
Lumens Per Watt: 85.5
Center Beam Candle Power: 51787
Beam Distribution: 10.8°
Field Distribution: 26.2°
Spacing Criterion: 0.23
Color Rendering Index (CRI)¹: 83.1
Color Temperature (CCT)²: 3086K
Designed for 50,000 Hour Lamp Life³

Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
6 FT	1438.5	1.1
8 FT	809.2	1.5
10 FT	517.9	1.9
12 FT	359.9	2.3
14 FT	264.2	2.6
16 FT	202.3	3.0

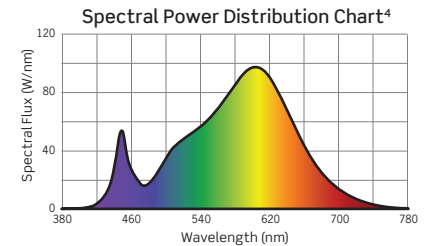
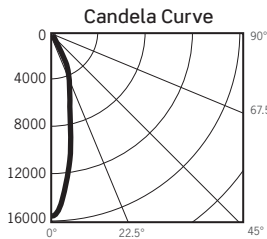


CTL945ME3KD: 48W, 3000K, 83 CRI, MEDIUM ALUMINUM REFLECTOR

Test No. G24062702

Fixture Delivered Lumens: 4226.1
Total Watts@120V: 47.4
Lumens Per Watt: 90.0
Center Beam Candle Power: 15614
Beam Distribution: 22.3°
Field Distribution: 52.2°
Spacing Criterion: 0.49
Color Rendering Index (CRI)¹: 83.1
Color Temperature (CCT)²: 3086K
Designed for 50,000 Hour Lamp Life³

Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
6 FT	433.7	2.4
8 FT	244.0	3.2
10 FT	156.1	3.9
12 FT	108.4	4.7
14 FT	79.7	5.5
16 FT	61.0	6.3

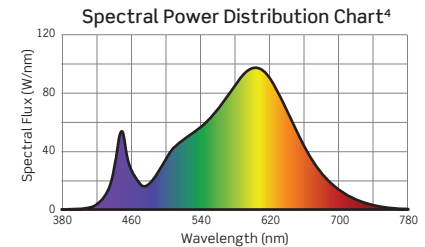
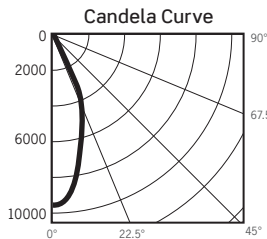


CTL945FL3KD: 48W, 3000K, 83 CRI, FLOOD ALUMINUM REFLECTOR

Test No. G24062703

Fixture Delivered Lumens: 4462.9
Total Watts@120V: 47.4
Lumens Per Watt: 94.2
Center Beam Candle Power: 9572
Beam Distribution: 41.3°
Field Distribution: 65.8°
Spacing Criterion: 0.66
Color Rendering Index (CRI)¹: 83.1
Color Temperature (CCT)²: 3086K
Designed for 50,000 Hour Lamp Life³

Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
6 FT	265.9	4.5
8 FT	149.6	6.0
10 FT	95.7	7.5
12 FT	66.5	9.0
14 FT	48.8	10.5
16 FT	37.4	12.1

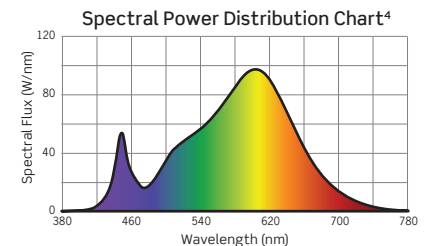
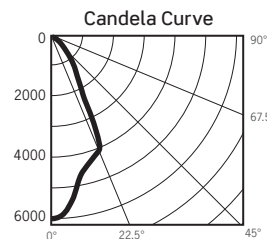


CTL945SP3KD: 48W, 3000K, 83 CRI, WIDE FLOOD ALUMINUM REFLECTOR

Test No. G24062801

Fixture Delivered Lumens: 4397.6
Total Watts@120V: 47.4
Lumens Per Watt: 92.8
Center Beam Candle Power: 6004
Beam Distribution: 50.4°
Field Distribution: 82.9°
Spacing Criterion: 0.75
Color Rendering Index (CRI)¹: 83.1
Color Temperature (CCT)²: 3086K
Designed for 50,000 Hour Lamp Life³

Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
6 FT	166.8	5.7
8 FT	93.8	7.5
10 FT	60.0	9.4
12 FT	41.7	11.3
14 FT	30.6	13.2
16 FT	23.5	15.1



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		
CCT	STD. CRI	HIGH (90+) CRI
2700K	0.98	0.81
3000K	1.00	0.85
3500K	1.01	0.86
4000K	1.02	0.89

OUTPUT MULTIPLIERS					
13W	20W	29W	38W	42W	49W
0.32	0.47	0.66	0.82	0.90	1.00

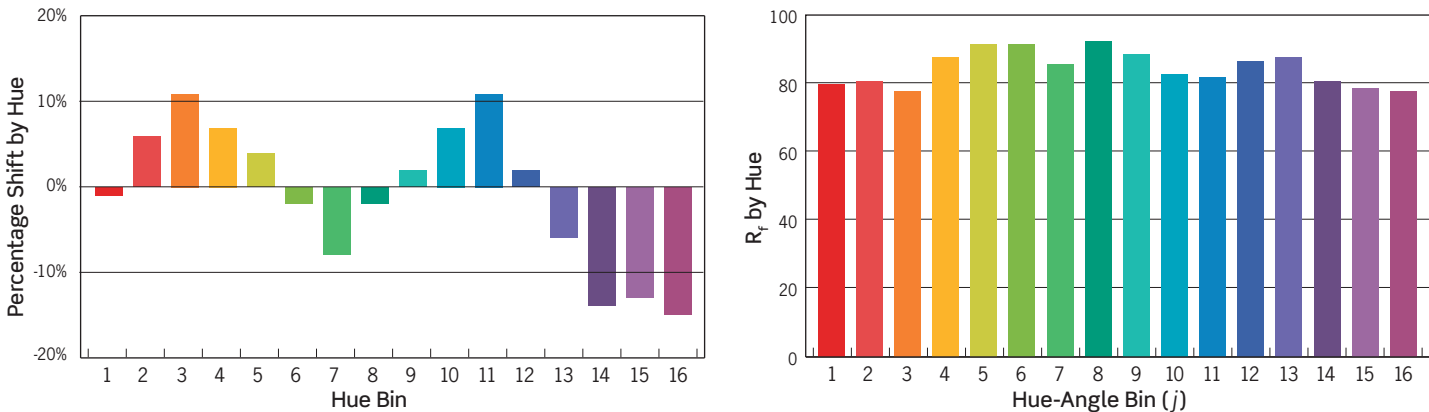
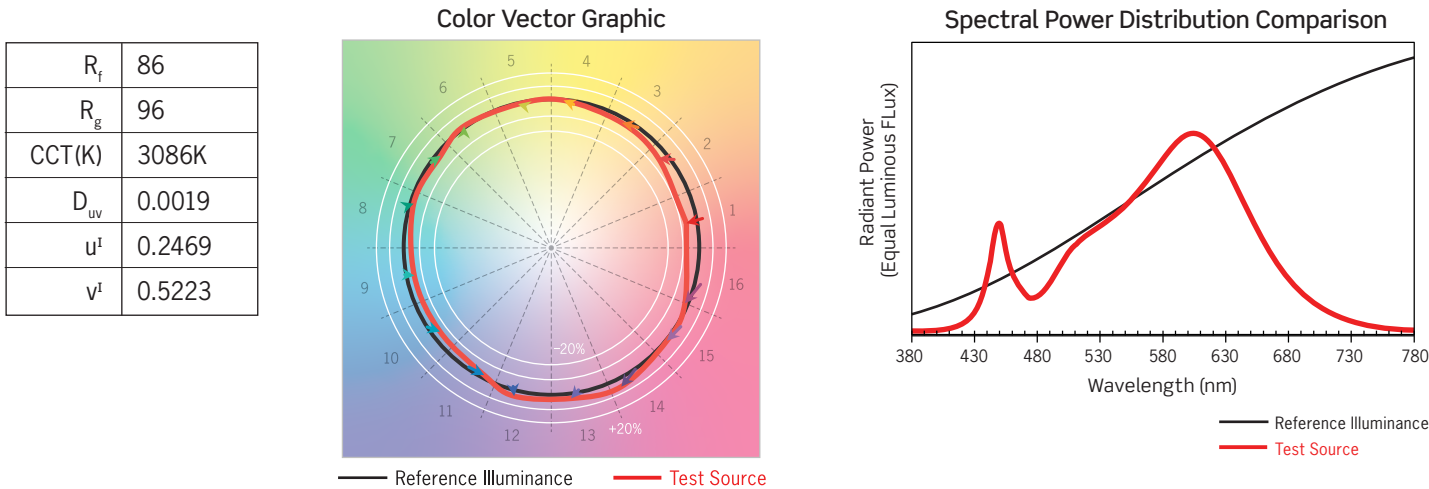
CTL94 SERIES

| Gallery XL Track Luminaire Standard Luminous Photometry

TM-30 DATA: CTL945ME3KD

ANSI/IES TM-30-18 Color Rendition Report Test No. S22031501

Colors are for visual orientation purposes only



HUE BIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
HUE SHIFT	-1%	6%	11%	7%	4%	-2%	-7%	-2%	2%	7%	11%	2%	-6%	-14%	-13%	-15%
R _f VALUE	81	82	79	89	93	93	87	94	90	84	83	88	89	82	80	79