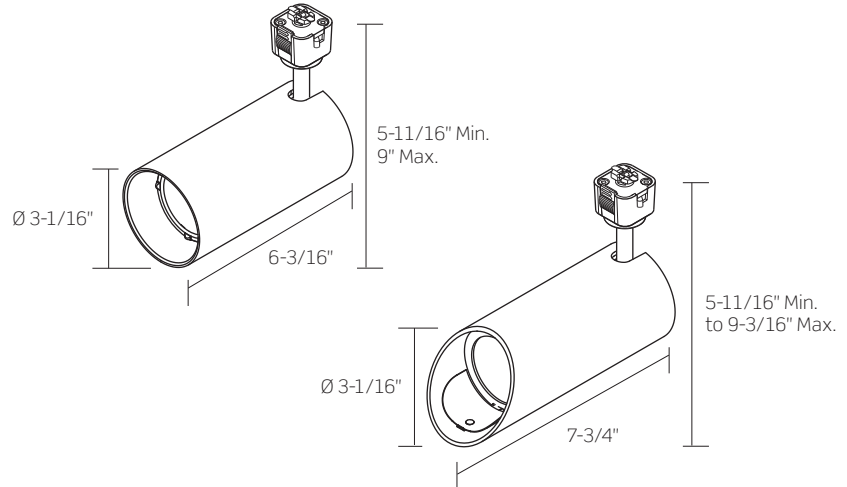



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# CTL84C SERIES | Gallery LED Cylinder Track Luminaires



	CTL84C1	CTL84C2	CTL84C3
WATTAGE	10W	14W	20W
LUMEN OUTPUT <sup>1</sup>	1186Lm	1649Lm	2293Lm
LIGHT ENGINE	Single, high lumen output CREE multi-chip LED array		
COLOR TEMPERATURE	2700K, 3000K, 3500K, 4000K, 3000K Crisp White		
CRI	83 (80min) / 90+		
BEAM	10° Spot, 28° Medium, 47° Flood, Wall Wash		
DRIVER INPUT VOLTAGE	120V VAC Dimming, 50/60Hz		
DIMMING TYPE	Incandescent (Forward Phase) and ELV (Reverse Phase)		
COMPATIBILITY	CTL Units are compatible with ConTech Lighting LT/LT2 Single Circuit/Two Circuit and Luxbeam Track Systems, as well as Juno <sup>®2</sup> Lighting Trac-Master <sup>™</sup> Systems HTL Units are compatible with Halo <sup>3</sup> Power-Trac and Lazer Track Systems LTL Units are compatible with Lightolier <sup>4</sup> Lytespan <sup>®</sup> Systems		
 LISTINGS	cCSAus Certified to UL Standards on base models Suitable for Dry Locations		
WARRANTY	Five (5) year replacement after date of purchase		
SYSTEM RATING	50,000 Hours @ 70% Lumen Maintenance		

1. Lumen values are approximate, see photometric test results  
 2. Juno is a registered trademark of Juno Lighting  
 3. Halo is a registered trademark of Cooper Lighting  
 4. Lightolier is a registered trademark of Philips Lighting

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# CTL84C SERIES | Gallery LED Cylinder Track Luminaires

## ORDERING INFORMATION

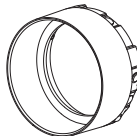
Example Order:  -

Track System	Luminaire	Beam	Color Temp/CRI		Driver Option	Finish
CTL - ConTech	<b>84C1</b> - 10W/1186Lm	<b>S</b> - 10° Spot	83 (80min) CRI	90+ CRI	<b>D</b> - Dimming	<b>B</b> - Black
HTL - Halo	<b>84C2</b> - 14W/1649Lm	<b>M</b> - 28° Medium	<b>27</b> - 2700K	<b>27C</b> - 2700K		<b>P</b> - White
LTL - Lightolier	<b>84C3</b> - 20W/2293Lm	<b>F</b> - 47° Flood	<b>3</b> - 3000K	<b>3C</b> - 3000K		<b>S</b> - Silver
		<b>WW</b> - Wall Wash	<b>35</b> - 3500K	<b>35C</b> - 3500K		
		<i>Includes Angled Housing and Wall Wash Kicker Accessory</i>	<b>4</b> - 4000K	<b>4C</b> - 4000K		
				<b>3W</b> - 3000K, Crisp White		

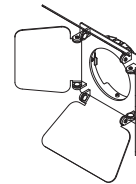
## ACCESSORY & REPLACEMENT OPTIC ORDERING INFORMATION



**Accessory Holder**  
2-3/4" Dia., 3/8" D  
Accepts up to two (2) LF16 60MM Lenses or FA-16 60MM Louvers. Black finish.



**Snoot**  
2-3/4" Dia., 1-3/8" D  
Snoot extends 1" from face of fixture. Will accept up to two (2) LF16\_60MM lenses or FA-16 60MM louvers. For White (-P) and Silver (-S) finishes, the inside surface is black.



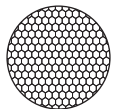
**Barn Doors**  
Barn doors extend 2-3/4" max. from face of fixture. Will accept up to two (2) LF16 60MM Lenses or FA-16 60MM Louvers. Black finish. Width: 3-1/2" to 7-3/4"

**FA-84** - Black Accessory Holder

**FA-85** - Snoot

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

**BD84** - Black Barn Doors



**Honeycomb Louver**  
2-3/8" Dia.  
Requires FA-84 Accessory Holder, FA-85 Snoot or BD84 Barn Doors. Black finish.



**Tempered Glass Lenses**  
2-3/8" Dia.  
Requires FA-84 Accessory Holder, FA-85 Snoot or BD84 Barn Doors. See legend for available colors and patterns.

### Replacement Optics

Optics can be easily changed in the field for optimal flexibility

**FA-16 60MM** - Black Honeycomb Louver

**LF16-\*\* 60MM** - Tempered Glass Lenses

**\*\* Available Color/Patterns**  
-73 (Spread Lens), -LS (Linear Spread Lens), -SL (Soft Light), -SOL (Solite), -UV (Optivex UV Filter), -A (Amber), -B (Blue), -CL (Clear), -DPE (Dichroic Peach), -G (Green), -LB (Light Blue), -R (Red), -RO (Rose), -Y (Yellow)

**CTL84C-OPTIC-S** - Spot Optic  
**CTL84C-OPTIC-M** - Medium Optic  
**CTL84C-OPTIC-F** - Flood Optic  
**5500011** - 2-In. Diffusion Disc

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# CTL84C SERIES | Gallery LED Cylinder Track Luminaires

## PRODUCT DETAILS

### Construction

- Luminaire designed for gallery, museum or retail applications
- Constructed of die-cast aluminum, the cylindrical body provides thermal management
- Lockable, precision aiming adjustment: 360°+ aiming horizontal rotation, 90° vertical rotation
- Integral ON/OFF switch and track polarity indicator are standard
- Fixture weight: 2LBS
- Can accept up to (2) LF16 60MM Lenses or FA-16 60MM Black Honeycomb Louvers with the FA-84 Accessory Holder, FA-85 Snoot, or BD84 Black Barn Doors, ordered separately

### Performance Summary

- Light engine consists of a single, high lumen output, multi-chip LED array in 2700K, 3000K, 3500K and 4000K color temperatures; CRI 80 min., 83 typical; high CRI of 90+ available
- The 3000K Crisp White LED delivers 90+ color rendering with additional violet wavelengths that enhance white visibility
- Excellent fixture-to-fixture color consistency within a 2-step MacAdam Ellipse tolerance
- Select from 10° Spot, 28° Medium and 47° Flood beam distributions; optics have been optically engineered to provide a smooth uniform beam, maximizing output and minimizing glare
- Optics can be easily changed in the field for optimal flexibility
- Also available in a wall wash configuration; providing smooth even illumination on vertical surfaces
- Dimming is standard for all wattage options (120V only), allowing smooth illumination down to 10%. Compatible with most Incandescent (Forward Phase) and ELV (Reverse Phase) dimmers. For dimmer compatibility, refer to Dimming Specifications sheet.

### Fixture Compatibility

- Standard ConTech track luminaires (CTL Units) are cCSAus certified as-is for use with ConTech Lighting LT/LT2 Single Circuit/Two Circuit Track Systems and Luxbeam Track Systems, as well as Juno<sup>®1</sup> Lighting Trac-Master<sup>™</sup> Systems.
- By changing the prefix in the part number, ConTech can install inserts which make our fixtures compatible with other manufacturers. Replace “CTL” with “HTL” for Halo<sup>®2</sup> Power-Trac and Lazer-Track systems, and “LTL” for Lightolier<sup>3</sup> Lytespan<sup>™</sup> systems. For more information, please consult factory.

1. Juno is a registered trademark of Juno Lighting  
 2. Halo is a registered trademark of Cooper Lighting  
 3. Lightolier is a registered trademark of Philips Lighting

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# CTL84C SERIES | Gallery LED Cylinder Track Luminaires

## PHOTOMETRICS

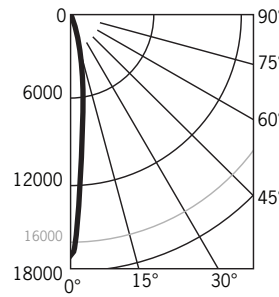
### CTL84C3S3D: Spot Optic

Fixture Delivered Lumens: 2201.07  
 Total Watts@120V: 19.691  
 Lumens Per Watt: 111.73  
 Center Beam Candle Power: 17172  
 Beam Distribution: 10.04°  
 Spacing Criterion: 0.2918  
 Color Rendering Index (CRI)1: 83  
 Color Temperature (CCT)2: 3066K  
 Designed for 50,000 Hour Lamp Life<sup>3</sup>  
 LM-63 Test No. G24012401  
 LM-79 Test No. S24012601

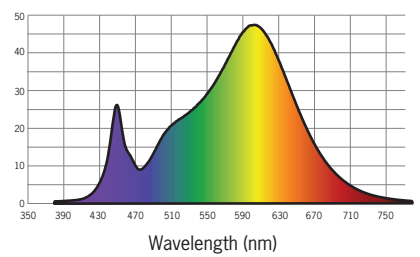
#### Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4'	1073.2	0.70
6'	477.0	1.05
8'	268.3	1.41
10'	171.1	1.76
12'	119.2	2.11
14'	87.6	2.46

#### Candela Curve



#### Spectral Power Distribution Chart<sup>4</sup>



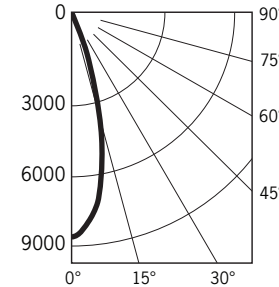
### CTL84C3M3D: Medium Optic

Fixture Delivered Lumens: 2293.29  
 Total Watts@120V: 19.684  
 Lumens Per Watt: 116.411  
 Center Beam Candle Power: 8643  
 Beam Distribution: 28.37°  
 Spacing Criterion: 0.4748  
 Color Rendering Index (CRI)1: 83  
 Color Temperature (CCT)2: 3066K  
 Designed for 50,000 Hour Lamp Life<sup>3</sup>  
 LM-63 Test No. G24012402  
 LM-79 Test No. S24012601

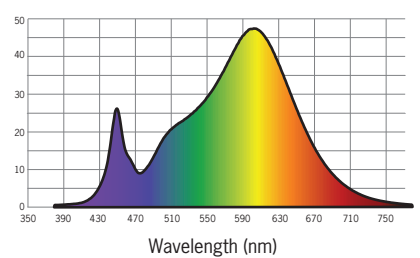
#### Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4 FT	540.2	2.02
6 FT	240.1	3.03
8 FT	135.0	4.04
10 FT	86.4	5.06
12 FT	60.0	6.07
14 FT	44.1	7.08

#### Candela Curve



#### Spectral Power Distribution Chart<sup>4</sup>



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 and Luminaire Wattage/Output. To estimate lumen output of these various options, multiply 3000K results by the following:

CCT MULTIPLIERS				OUTPUT MULTIPLIERS	
CCT	STD CRI	HIGH CRI	CRISP WHITE	10W/SERIES 1	20W/SERIES 3
2700K	.949	.842	N/A	.517	.719
3000K	N/A	.872	.568		
3500K	1.02	.895	N/A		
4000K	1.04	.916	N/A		

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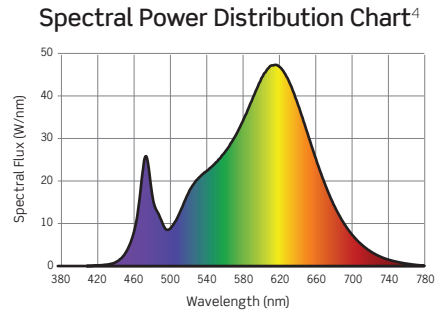
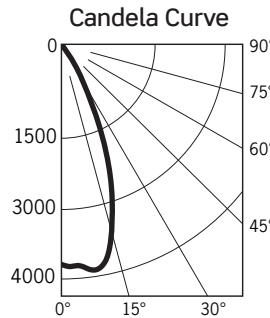
# CTL84C SERIES | Gallery LED Cylinder Track Luminaires

## PHOTOMETRICS

### CTL84C3F3D: Flood Optic

Fixture Delivered Lumens: 2255.56  
 Total Watts@120V: 19.695  
 Lumens Per Watt: 114.496  
 Center Beam Candle Power: 3761  
 Beam Distribution: 47.23°  
 Spacing Criterion: 0.7073  
 Color Rendering Index (CRI)1: 83  
 Color Temperature (CCT)2: 3066K  
 Designed for 50,000 Hour Lamp Life<sup>3</sup>  
 LM-63 Test No. G24012501  
 LM-79 Test No. S24012601

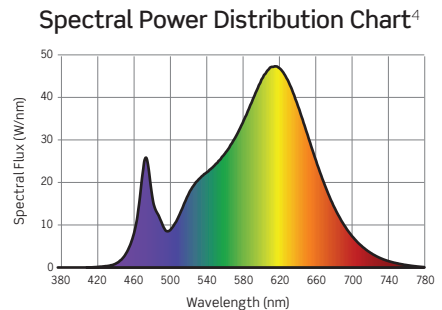
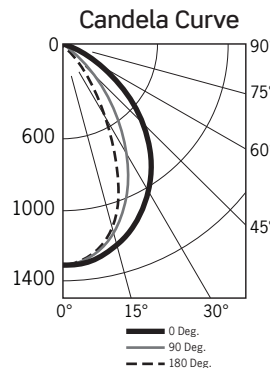
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4 FT	235.0	3.50
6 FT	104.5	5.25
8 FT	58.8	7.00
10 FT	37.6	8.74
12 FT	26.1	10.49
14 FT	19.2	12.24



### CTL84C3WW3D: Wall Wash

Fixture Delivered Lumens: 1674.66  
 Total Watts@120V: 19.635  
 Lumens Per Watt: 85.442  
 Center Beam Candle Power: 1302  
 Beam Distribution: 72.91°  
 Spacing Criterion: 1.005  
 Color Rendering Index (CRI)1: 83  
 Color Temperature (CCT)2: 3066K  
 Designed for 50,000 Hour Lamp Life<sup>3</sup>  
 LM-63 Test No. G24012502  
 LM-79 Test No. S24012601

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4 FT	81.4	6.13
6 FT	36.2	9.19
8 FT	20.3	12.25
10 FT	13.0	15.32
12 FT	9.0	18.38
14 FT	6.6	21.44



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 and Luminaire Wattage/Output. To estimate lumen output of these various options, multiply 3000K results by the following:

CCT MULTIPLIERS				OUTPUT MULTIPLIERS	
CCT	STD CRI	HIGH CRI	CRISP WHITE	10W/SERIES 1	20W/SERIES 3
2700K	.949	.842	N/A	.517	.719
3000K	N/A	.872	.568		
3500K	1.02	.895	N/A		
4000K	1.04	.916	N/A		

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# CTL84C SERIES | Gallery LED Cylinder Track Luminaires

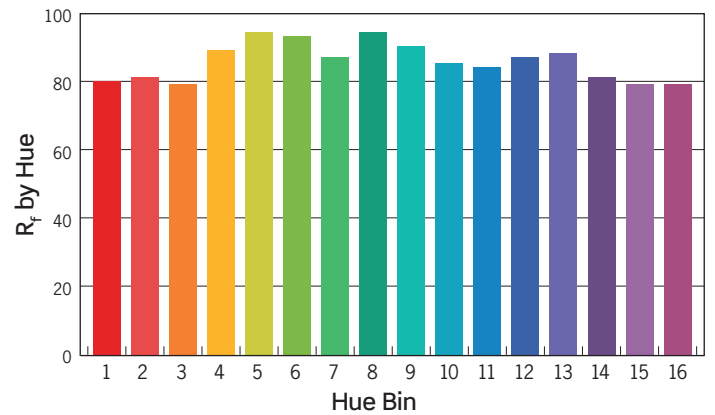
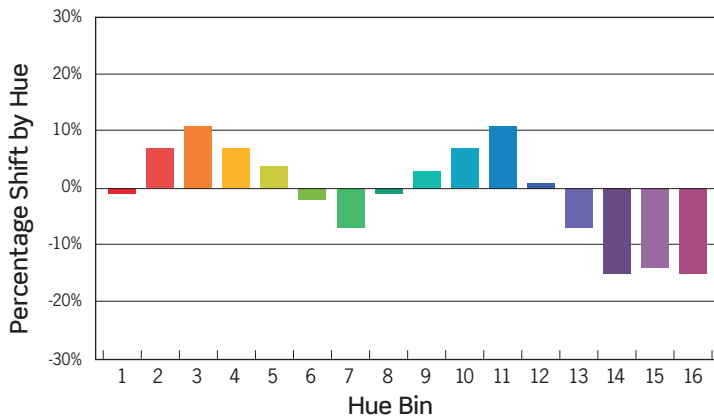
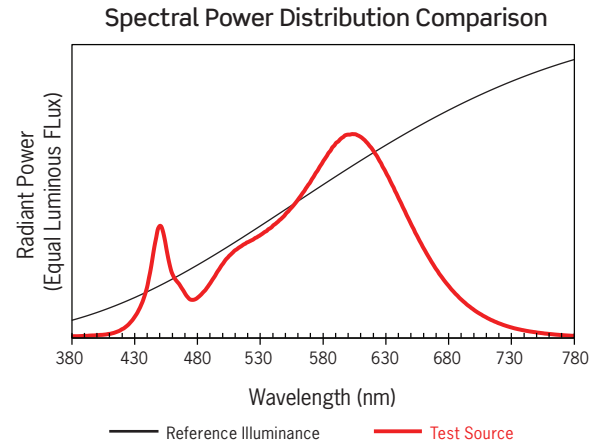
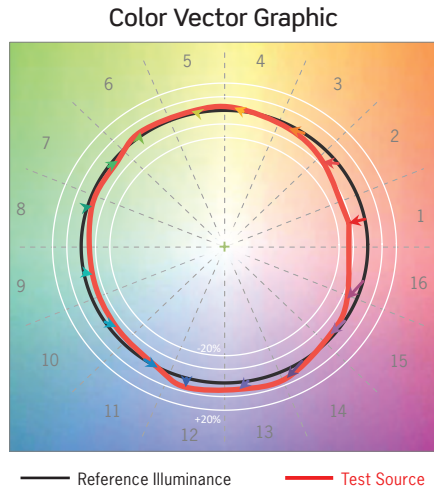
## PHOTOMETRICS

### TM-30 DATA: NCTL84C3F3CD

ANSI/IES TM-30-18 Color Rendition Report Test No. S24012601

Colors are for visual orientation purposes only

$R_f$	86
$R_g$	96
CCT(K)	3066K
$D_{uv}$	0.0001
$u^l$	0.2483
$v^l$	0.5201



HUE BIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
HUE SHIFT	-1%	7%	11%	7%	4%	-2%	-7%	-1%	3%	7%	11%	1%	-7%	-15%	-14%	-15%
$R_f$ VALUE	80	81	79	89	94	93	87	94	90	85	84	87	88	81	79	79

Colors are for visual orientation purposes only

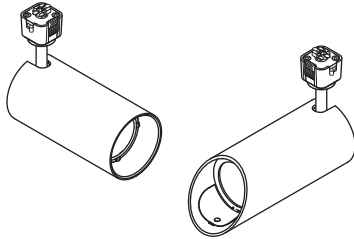
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## DIMMING SPECIFICATIONS | Gallery Series Track Luminaires: CTL84C, CTL84X

- Incandescent 120VAC 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 120VAC 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.



### CTL84 Series: “D” Driver Option

#### Light Output

Manufacturer	Model	10W	14W	20W	Xicato 16W	Xicato 23W
Leviton	6161	13% - 100%	10% - 99%	10% - 99%	13% - 99%	12% - 99%
Leviton	IPE04	4% - 100%	3% - 100%	5% - 99%	6% - 99%	6% - 99%
Leviton	IPI06-1LZ	0% - 100%	0% - 99%	1% - 99%	1% - 99%	–
Leviton	VPE06	6% - 100%	5% - 100%	8% - 100%	8% - 100%	9% - 95%
Leviton	6633-P	1% - 100%	0% - 100%	–	3% - 100%	2% - 99%
Leviton	6683-IW	2% - 100%	2% - 100%	4% - 100%	13% - 100%	–
Cooper	DAL06P	1% - 100%	0% - 100%	3% - 100%	–	–
Cooper	DLC03P	1% - 100%	0% - 100%	2% - 100%	2% - 100%	2% - 99%
Cooper	SLC03P	0% - 100%	0% - 100%	0% - 100%	1% - 100%	1% - 99%
Lightolier	ZP260QEW	4% - 100%	3% - 99%	4% - 99%	4% - 98%	5% - 98%
Lutron	CT103P	8% - 100%	6% - 99%	6% - 99%	9% - 99%	10% - 99%
Lutron	DVCL-153P	0% - 100%	0% - 99%	0% - 99%	–	–
Lutron	DVELV303P	4% - 99%	3% - 97%	5% - 97%	6% - 96%	6% - 94%
Lutron	FAELV500	8% - 100%	7% - 99%	9% - 99%	10% - 99%	11% - 99%
Lutron	LG600P	–	5% - 99%	5% - 99%	–	8% - 99%
Lutron	MAELV600	8% - 100%	7% - 99%	9% - 99%	10% - 99%	11% - 99%
Lutron	S600P	3% - 100%	1% - 99%	–	–	5% - 99%
Lutron	SELV300P	4% - 98%	3% - 97%	5% - 96%	6% - 95%	7% - 100%
Lutron	TG-600P	10% - 100%	13% - 99%	12% - 99%	16% - 99%	15% - 99%
Lutron	TGCL-153P	2% - 100%	2% - 99%	4% - 99%	–	–

### Notes

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