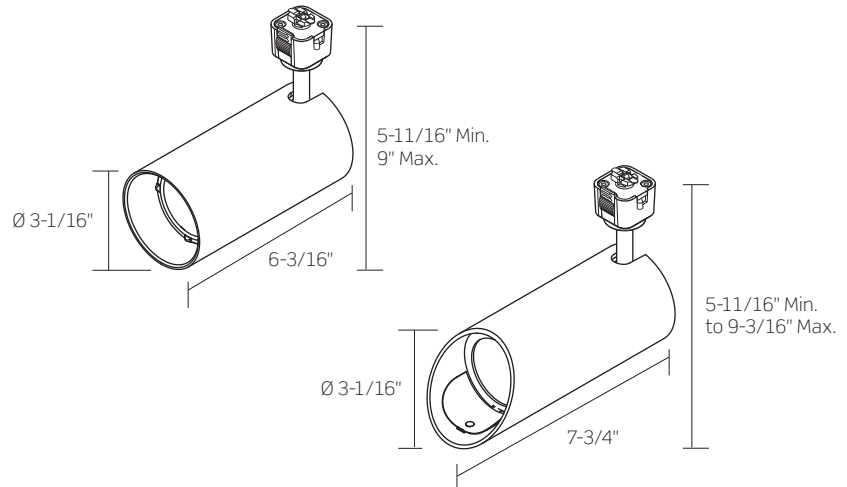




DATE

PROJECT

TYPE

CTL84C SERIES | Gallery LED Cylinder Track Luminaires



	CTL84C1	CTL84C2	CTL84C3
WATTAGE	10W	14W	20W
LUMEN OUTPUT ¹	1000Lm	1400Lm	1800Lm
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	12° Spot, 28° Medium, 44° 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 ^{®2} Lighting Trac-Master™ Systems HTL Units are compatible with Halo ³ Power-Trac and Lazer Track Systems LTL Units are compatible with Lightolier ⁴ Lytespan® Systems		
  LISTINGS	cCSAus Certified to UL Standards on base models; Suitable for Dry Locations ENERGY STAR® Certified for all fixture variations except Wall Wash Beam Distribution and Crisp White options		
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	84C1 - 10W/1000Lm	S - 12° Spot	83 (80min) CRI	90+ CRI	D - Dimming	B - Black
HTL - Halo	84C2 - 14W/1400Lm	M - 28° Medium	27 - 2700K	27C - 2700K		P - White
LTL - Lightolier	84C3 - 20W/1800Lm	F - 44° Flood	3 - 3000K	3C - 3000K		S - Silver
		WW - Wall Wash	35 - 3500K	35C - 3500K		
		<i>Includes Angled Housing and Wall Wash Kicker Accessory</i>	4 - 4000K	4C - 4000K		
				3W - 3000K, Crisp White		

ACCESSORY & REPLACEMENT OPTIC ORDERING INFORMATION



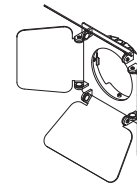
Accessory Holder

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

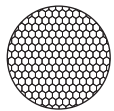
Barn doors extend 2-3/4" max. from face of fixture. Will accept up to two (2) LF16 60MM Lenses or FA-16 60MM Louvers. Black finish. Width: 3-1/2" to 7-3/4"

FA-84 - Black Accessory Holder

FA-85 - Snoot

Finish
B - Black
P - White
S - Silver

BD84-B - 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)

2INOPTIC-S - Spot Optic
2INOPTIC-M - Medium Optic
2INOPTIC-F - Flood Optic
5500011 - 2-In. Diffusion Disc

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PROJECT

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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 CREE multi-chip LED array in 2700K, 3000K, 3500K and 4000K color temperatures; CRI 80 min., 83 typical; high CRI 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 12° Spot, 28° Medium and 44° 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^{®1} Lighting Trac-Master™ 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^{®2} Power-Trac and Lazer-Track systems, and “LTL” for Lightolier³ Lytespan™ 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

DATE

PROJECT

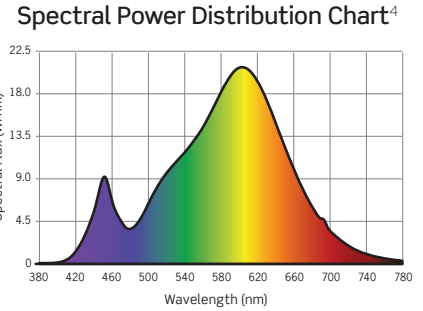
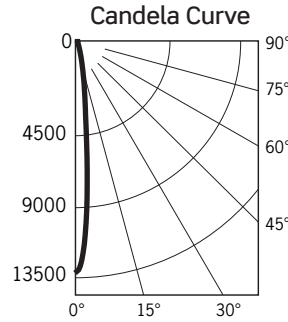
TYPE

CTL84C SERIES | Gallery LED Cylinder Track Luminaires

CTL84C2S3D

Fixture Delivered Lumens: 1026
 Total Watts@120V: 13.0
 Lumens Per Watt: 78.9
 Center Beam Candle Power: 13311
 Beam Distribution: 12°
 Spacing Criterion: 0.20
 Color Rendering Index (CRI)1: 82
 Color Temperature (CCT)2: 2987K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. 88246
 LM-79 Test No. 88246

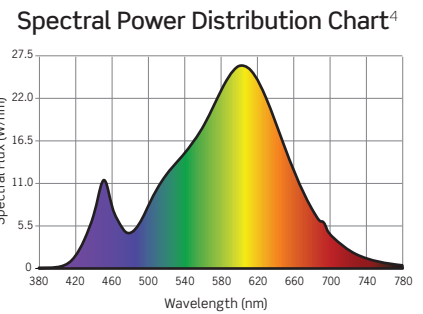
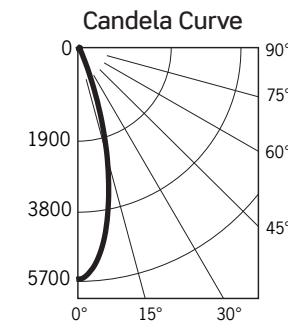
Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4 FT	831.9	0.8
6 FT	369.8	1.2
8 FT	208.0	1.6
10 FT	133.1	2.0
12 FT	92.4	2.4
14 FT	67.9	2.9



CTL84C2M3D

Fixture Delivered Lumens: 1294
 Total Watts@120V: 13.0
 Lumens Per Watt: 99.5
 Center Beam Candle Power: 5658
 Beam Distribution: 28°
 Spacing Criterion: 0.45
 Color Rendering Index (CRI)1: 82
 Color Temperature (CCT)2: 2978K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. 88247
 LM-79 Test No. 88247

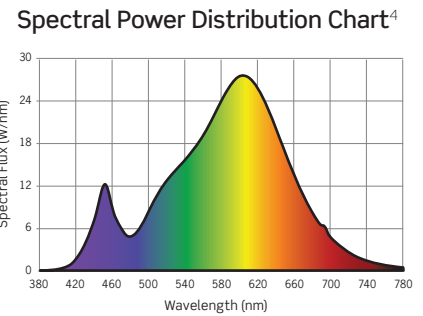
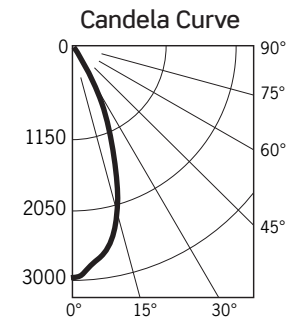
Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4 FT	353.6	1.9
6 FT	157.2	2.8
8 FT	88.4	3.7
10 FT	56.6	4.7
12 FT	39.3	5.6
14 FT	28.9	6.5



CTL84C2F3D

Fixture Delivered Lumens: 1432
 Total Watts@120V: 13.0
 Lumens Per Watt: 108.5
 Center Beam Candle Power: 2650
 Beam Distribution: 44°
 Spacing Criterion: 0.69
 Color Rendering Index (CRI)1: 82
 Color Temperature (CCT)2: 2987K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. 88248
 LM-79 Test No. 88248

Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4 FT	165.6	3.2
6 FT	73.6	4.9
8 FT	41.4	6.5
10 FT	26.5	8.1
12 FT	18.4	9.7
14 FT	13.5	11.4



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	.935	.703	N/A	0.74	1.28
3000K	N/A	.754	.787		
3500K	1.0	.812	N/A		
4000K	1.0	0.87	N/A		

DATE

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TYPE

CTL84C SERIES | Gallery LED Cylinder Track Luminaires

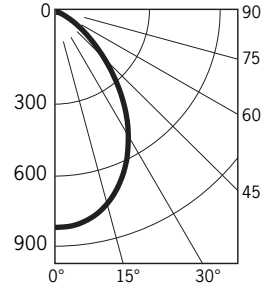
CTL84C2WW3D

Fixture Delivered Lumens: 1146
 Total Watts@120V: 13.2
 Lumens Per Watt: 86.8
 Center Beam Candle Power: 826
 Beam Distribution: 72°
 Spacing Criterion: 1.01
 Color Rendering Index (CRI)1: 84
 Color Temperature (CCT)2: 3038K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. 87712
 LM-79 Test No. 87712

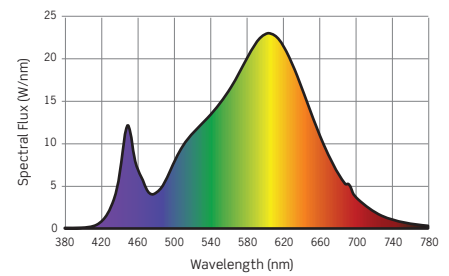
Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4 FT	51.6	4.0
6 FT	22.9	6.1
8 FT	12.9	8.1
10 FT	8.3	10.1
12 FT	5.7	12.1
14 FT	4.2	14.1

Candela Curve



Spectral Power Distribution Chart⁴



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	.935	.703	N/A	0.74	1.28
3000K	N/A	.754	.787		
3500K	1.0	.812	N/A		
4000K	1.0	0.87	N/A		

DATE

PROJECT

TYPE

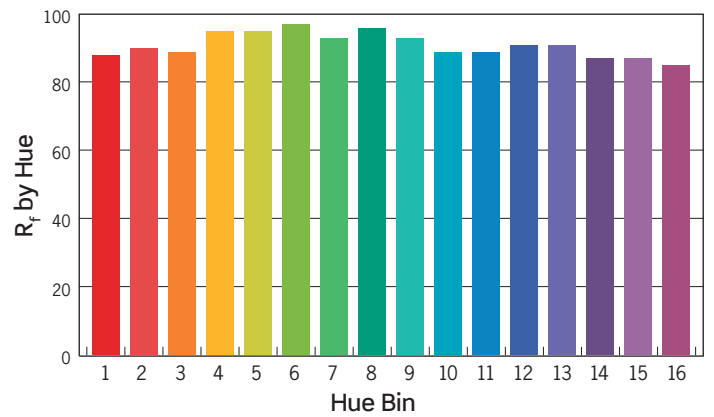
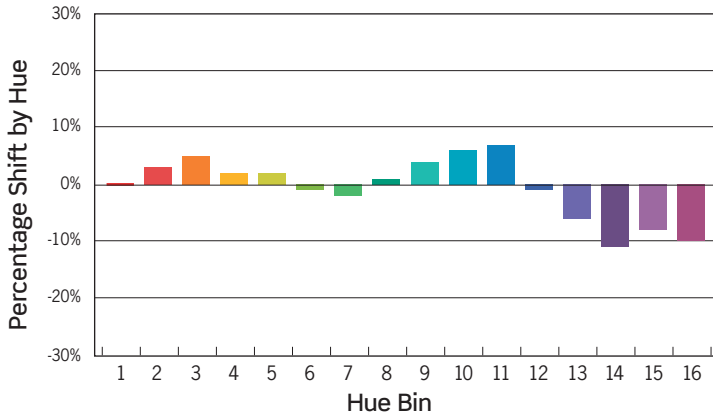
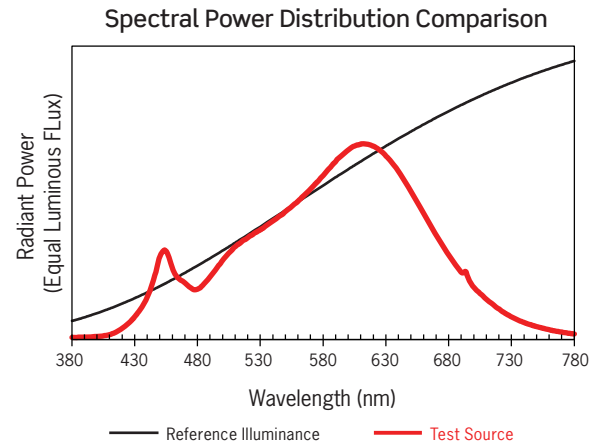
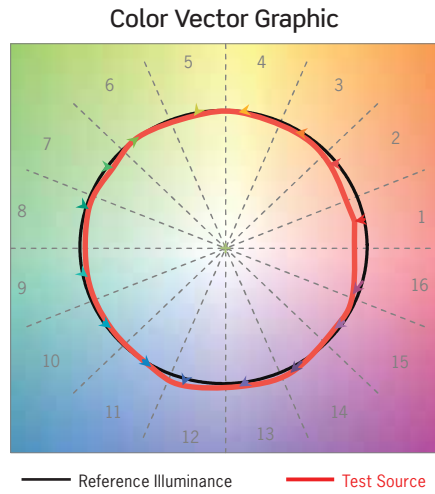
CTL84C SERIES | Gallery LED Cylinder Track Luminaires

TM-30 DATA: CTL84C3F3CD

ANSI/IES TM-30-18 Color Rendition Report Test No. S21020901

Colors are for visual orientation purposes only

R_f	91
R_g	97
CCT(K)	3069K
D_{uv}	0.0015
u^l	0.2476
v^l	0.5220



HUE BIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
HUE SHIFT	0%	3%	5%	2%	2%	-1%	-2%	1%	4%	6%	7%	-1%	-6%	-11%	-8%	-10%
R_f VALUE	88	90	89	95	95	97	93	96	93	89	89	91	91	87	87	85