

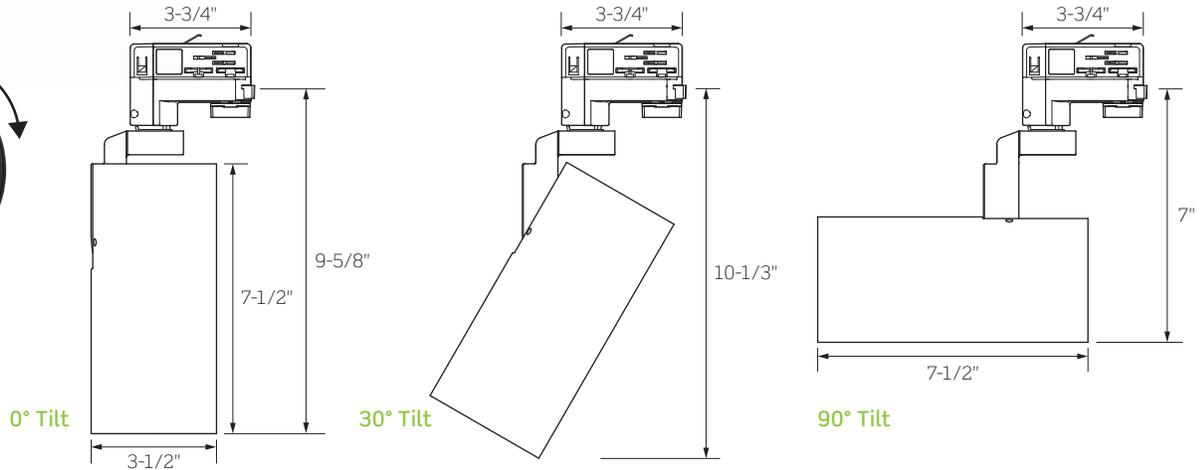
OTL93 SERIES | Gallery M Track Luminaire with Adjustable Beam and 0-10V Dimming Track System Adapter



Adjustable Beam

High performance track luminaire delivering high outputs and superior beam control

- Clean aesthetics, simple cylinder form
- Seven (7) position adjustable beam optic
- Beam ranges from 13° to 41°
- Delivering up to 3200 Lumens



	VARIABLE SPOT	VARIABLE MEDIUM	VARIABLE FLOOD
BEAM ADJUSTMENT RANGE	13° to 41°	16° to 41°	23° to 41°
AVAILABLE SERIES / WATTAGE	MAX DELIVERED LUMENS		
OTL931 / 10W	972Lm	1000Lm	996Lm
OTL932 / 14W	1309Lm	1387Lm	1395Lm
OTL933 / 19W	N/A	1904Lm	1943Lm
OTL934 / 28W	N/A	2500Lm	2627Lm
OTL935 / 35W	N/A	N/A	3309Lm
COLOR TEMPERATURE	2700K / 3000K / 3500K / 4000K		
CRI	83 (80min) / 90+		
FINISHES	Matte Black / Matte White / Matte Silver		
DRIVER INPUT VOLTAGE	120V or 277V, 50/60Hz		
DIMMING TYPE	0-10V Dimming		
COMPATIBILITY	Compatible with ConTech Lighting O2CD 0-10V Dimming Track System		
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

OTL93 SERIES | Gallery M Track Luminaire with Adjustable Beam and 0-10V Dimming Track System Adapter

ORDERING INFORMATION

Example Order: OTL932VS3K12D2-P

LED Series	Beam Option	CCT/CRI	Driver ⁵	Finish
OTL931 10W	VS² Variable Spot: 13° to 41°	80+ CRI	12D2 120V	B Matte Black
OTL932 14W	VM³ Variable Medium: 16° to 41°	27K 2700K	0-10V Dimming	P Matte White
OTL933 19W	VF⁴ Variable Flood: 23° to 41°	3K 3000K	27D2 277V	S Matte Silver
OTL934 28W		35K 3500K	0-10V Dimming	
OTL935 35W		4K 4000K		

2. Variable Spot (VS) Beam is only available for Series 1 (10W) and Series 2 (14W)
 3. Variable Medium (VM) Beam is only available for Series 1 (10W) through Series 4 (28W)
 4. Variable Flood (VF) Beam is available for all LED Series
 5. Selected Driver Voltage MUST match Track System Voltage

PRODUCT SPECIFICATIONS

PERFORMANCE SUMMARY

- Seven (7) position, field adjustable optic with three (3) different beam range options, the increments in the adjustments average 4-degrees per increment
- Engineered to provide superior glare control through the full range of beam spreads
- 2700K, 3000K, 3500K and 4000K CCTs; 80 CRI min., 83 typical; high CRI of 90+ available
- Excellent fixture-to-fixture color consistency with a 2-step MacAdam Ellipse tolerance
- Precise beam control ensures that even at lower aiming angles the luminaire is glare free and quiet in the ceiling
- 120V or 277V 0-10V Dimming. 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
- An integrated adapter suitable for use with the ConTech O2CD 0-10V Dimming Track System is included
- Locking mechanisms for Tilt (0° to 91°) and Rotation (365°)
- Integral ON/OFF switch and track polarity indicator are standard
- Fixture weight: 3 LBS

FIXTURE COMPATIBILITY

- ConTech OTL Track luminaires are compatible with the ConTech Lighting O2CD 0-10V Dimming Track System

DIMMING SPECIFICATIONS

- 0-10V Dimming may be used for 120V or 277V powered luminaires by delivering a separate controlled DC voltage signal which adjusts the light output.

0-10V COMPATIBLE DIMMERS			
MANUFACTURER	PRODUCT	MODEL	LIGHT OUTPUT
Leviton	IllumaTech	IP710-DL	5% to 100%
Lutron	Diva	DVTV	5% to 100%
Lutron	Nova	NFTV	5% to 100%

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.

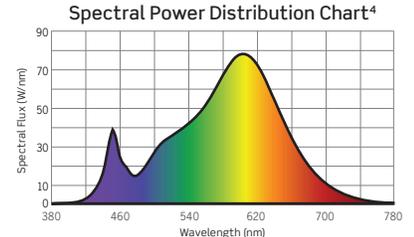
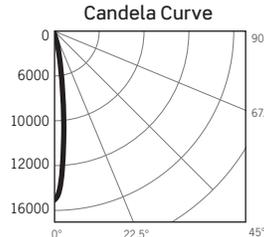
CTL93 SERIES | Gallery M Track Luminaire with Adjustable Beam: Photometry

CTL932VS3KD: 14W, 3000K, 83 CRI, VARIABLE SPOT MINIMUM

Test No. G25090401

Fixture Delivered Lumens: 1308.97
 Total Watts@120V: 14.7
 Lumens Per Watt: 89.05
 Center Beam Candle Power: 15158
 Beam Distribution: 13.05°
 Spacing Criterion: 0.24
 Color Rendering Index (CRI)¹: 82.8
 Color Temperature (CCT)²: 3004K
 Designed for 50,000 Hour Lamp Life³

Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
4 FT	947.4	0.9
6 FT	421.1	1.4
8 FT	236.8	1.8
10 FT	151.6	2.3
12 FT	105.3	2.8
14 FT	77.3	3.2

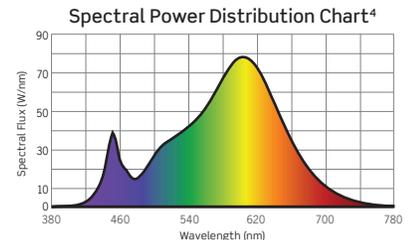
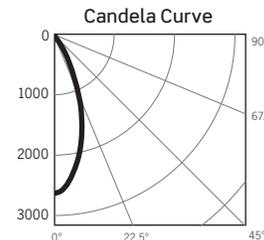


CTL932VS3KD: 14W, 3000K, 83 CRI, VARIABLE SPOT MAXIMUM

Test No. G25090402

Fixture Delivered Lumens: 1275.62
 Total Watts@120V: 28.7
 Lumens Per Watt: 86.78
 Center Beam Candle Power: 2625
 Beam Distribution: 41.93°
 Spacing Criterion: 0.64
 Color Rendering Index (CRI)¹: 82.8
 Color Temperature (CCT)²: 3004K
 Designed for 50,000 Hour Lamp Life³

Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
4 FT	164.0	3.1
6 FT	72.9	4.6
8 FT	41.0	6.1
10 FT	26.2	7.7
12 FT	18.2	9.2
14 FT	13.4	10.7



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

VARIABLE SPOT OUTPUT MULTIPLIERS
10W
0.74

CTL93 SERIES | Gallery M Track Luminaire with Adjustable Beam: Photometry

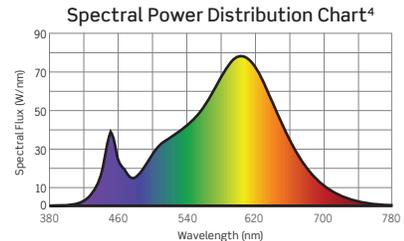
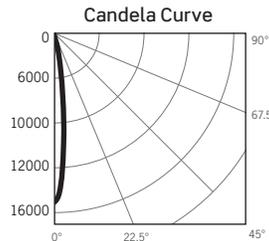
CTL934VM3KD: 28W, 3000K, 83 CRI, VARIABLE MEDIUM MINIMUM

Test No. G25082601

Fixture Delivered Lumens: 2500.51
 Total Watts@120V: 28.6
 Lumens Per Watt: 87.13
 Center Beam Candle Power: 17753
 Beam Distribution: 16.02°
 Spacing Criterion: 0.32
 Color Rendering Index (CRI)¹: 82.8
 Color Temperature (CCT)²: 3004K
 Designed for 50,000 Hour Lamp Life³

Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
4 FT	1109.5	1.1
6 FT	493.1	1.7
8 FT	277.4	2.3
10 FT	177.5	2.8
12 FT	123.3	3.4
14 FT	90.6	3.9



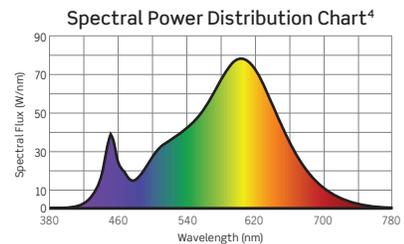
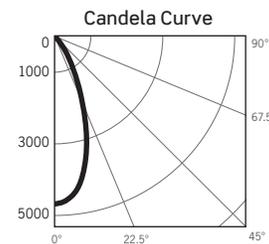
CTL934VM3KD: 28W, 3000K, 83 CRI, VARIABLE MEDIUM MAXIMUM

Test No. G25082602

Fixture Delivered Lumens: 2442.74
 Total Watts@120V: 28.7
 Lumens Per Watt: 85.11
 Center Beam Candle Power: 4688
 Beam Distribution: 41.36°
 Spacing Criterion: 0.65
 Color Rendering Index (CRI)¹: 82.8
 Color Temperature (CCT)²: 3004K
 Designed for 50,000 Hour Lamp Life³

Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
4 FT	293.0	3.0
6 FT	130.2	4.5
8 FT	73.2	6.0
10 FT	46.9	7.6
12 FT	32.6	9.1
14 FT	23.9	10.6



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

VARIABLE MEDIUM OUTPUT MULTIPLIERS

10W	14W	19W
0.30	0.42	0.59

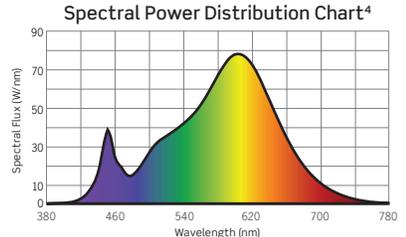
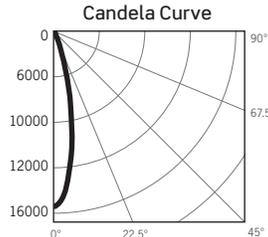
CTL93 SERIES | Gallery M Track Luminaire with Adjustable Beam: Photometry

CTL935VF3KD: 35W, 3000K, 83 CRI, VARIABLE FLOOD MINIMUM

Test No. G25081302

Fixture Delivered Lumens: 3309.39
 Total Watts@120V: 35.4
 Lumens Per Watt: 93.49
 Center Beam Candle Power: 15479
 Beam Distribution: 23.07°
 Spacing Criterion: 0.40
 Color Rendering Index (CRI)¹: 82.8
 Color Temperature (CCT)²: 3004K
 Designed for 50,000 Hour Lamp Life³

Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
4 FT	967.4	1.6
6 FT	430.0	2.5
8 FT	241.9	3.3
10 FT	154.8	4.1
12 FT	107.5	4.9
14 FT	79.0	5.7

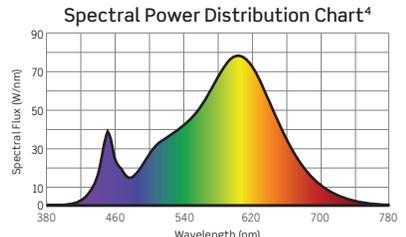
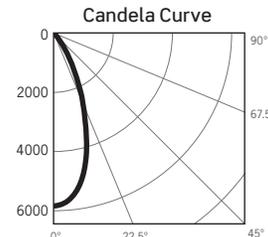


CTL935VF3KD: 35W, 3000K, 83 CRI, VARIABLE FLOOD MAXIMUM

Test No. G25081303

Fixture Delivered Lumens: 3209.70
 Total Watts@120V: 35.4
 Lumens Per Watt: 90.70
 Center Beam Candle Power: 5866
 Beam Distribution: 41.05°
 Spacing Criterion: 0.66
 Color Rendering Index (CRI)¹: 82.8
 Color Temperature (CCT)²: 3004K
 Designed for 50,000 Hour Lamp Life³

Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
4 FT	366.6	3.0
6 FT	162.9	4.5
8 FT	91.7	6.0
10 FT	58.7	7.5
12 FT	40.7	9.0
14 FT	29.9	12.0



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

VARIABLE FLOOD OUTPUT MULTIPLIERS			
10W	14W	19W	28W
0.30	0.42	0.59	0.79

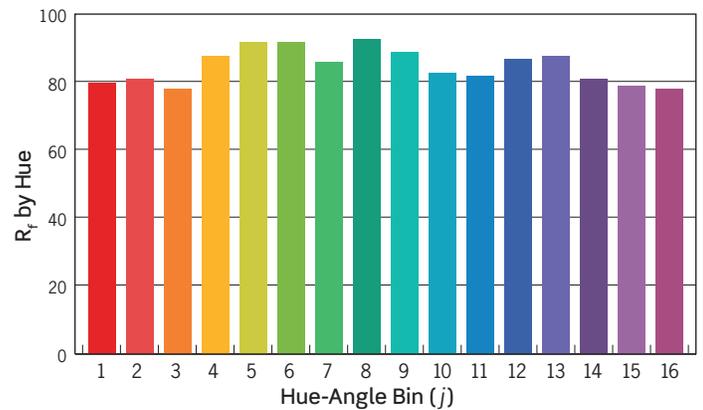
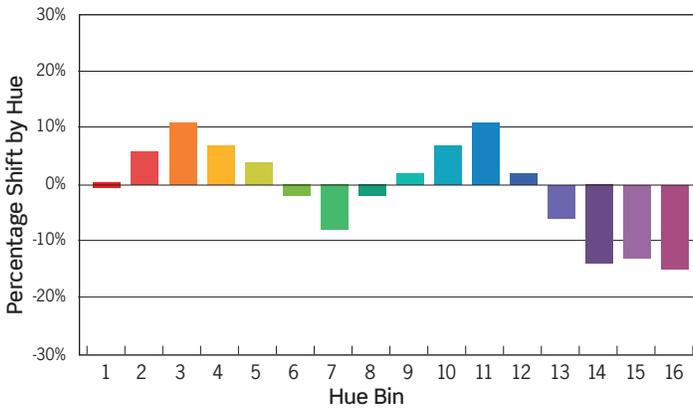
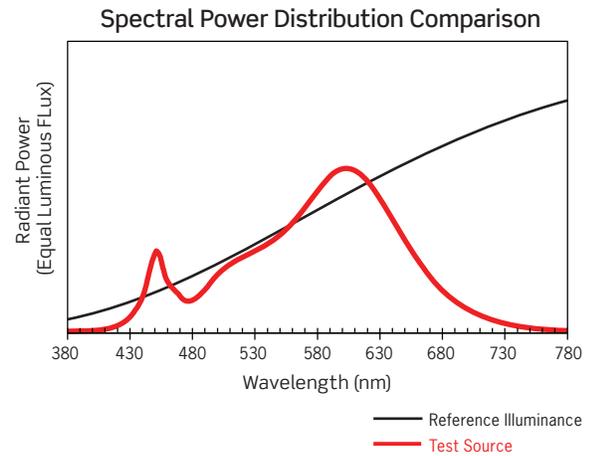
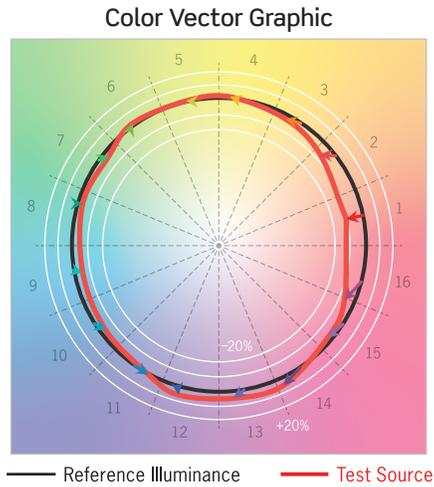
CTL93 SERIES | Gallery M Track Luminaire with Adjustable Beam: Photometry

TM-30 DATA: CTL935MF3KD

ANSI/IES TM-30-18 Color Rendition Report Test No. S21072001

Colors are for visual orientation purposes only

R_f	86
R_g	95
CCT(K)	3004K
D_{uv}	0.0007
u^l	0.2502
v^l	0.5222



HUE BIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
HUE SHIFT	0%	7%	10%	6%	3%	-2%	-6%	-1%	3%	8%	11%	2%	-8%	-16%	-13%	-14%
R_f VALUE	80	82	80	91	94	94	88	94	90	86	84	87	88	80	79	78