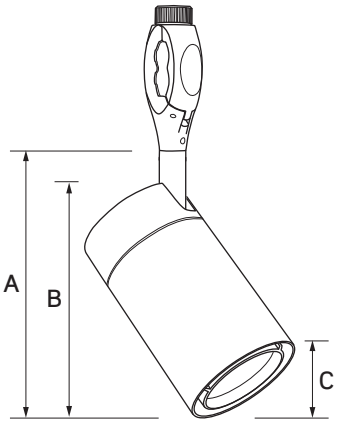
LEVITON | ConTech

DATE PROJECT

TYPE CATALOG NO.

# LIR905 SERIES | Eclipse Curve Luminaire for Odyssey Flexible Track




| | A | B | C |
|---|---|---|---|
| **LIR9050** | 4-13/16" | 4-3/4" | 2-3/8" |
| **LIR9051** | 4-13/16" | 5-1/4" | 2-3/4" |
| **LIR9052** | 4-13/16" | 5-1/4" | 2-3/4" |
| **LIR9053** | 5-7/8" | 6-1/8" | 3-3/16" |
| **LIR9059** | 6-1/2" | 6-7/8" | 3-15/16" |
| **LIR9054** | 6-1/2" | 6-7/8" | 3-15/16" |

cETLus Listed Dry Location | DLC Listed | Declare Compliant | T24 Compliant

| | LIR9050 | LIR9051 | LIR9052 | LIR9053 | LIR9059 | LIR9054 |
|---|---|---|---|---|---|---|
| WATTAGE | 7W | 9W | 14W | 20W | 29W | 34W |
| LUMEN OUTPUT[1] | 651Lm | 1021Lm | 1462Lm | 2123Lm | 2740Lm | 3441Lm |
| BEAM OPTICS | | | | | | |
| Spot[2] | 15° | N/A | N/A | N/A | N/A | N/A |
| Medium[3] | N/A | 23° | 23° | 21° | 22° | 24° |
| Flood | 32° | 33° | 33° | 37° | 32° | 33° |
| Wide Flood | 58° | 52° | 52° | 57° | 47° | 48° |
| COLOR TEMPERATURE | 2700K, 3000K, 3500K, 4000K | | | | | |
| CRI | 90+ | | | | | |
| INPUT WATTAGE | 7W | 9W | 14W | 20W | 29W | 34W |
| INPUT VOLTAGE | 120VAC Dimming, 60Hz | | | | | |
| DIMMING TYPE | Incandescent (Forward Phase) and ELV (Reverse Phase) Compatible | | | | | |
| COMPATIBILITY | Compatible with Odyssey Line Voltage Flexible Track System | | | | | |
| LISTINGS | cETLus Listed to UL and CSA Standards; Suitable for Dry Locations only<br>Can be used to comply with the Title 24 Part 6 JA8 High Efficacy LED Light Source Requirements<br>DLC® Listed<br>Declare Compliant | | | | | |
| 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
2. Spot Beam available ONLY for LIR9050 Series
3. Medium Beam NOT available for LIR9050 Series

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# LIR905 SERIES | Eclipse Curve Luminaire for Odyssey Flexible Track

## ORDERING INFORMATION

Example Order: LIR9050F3CD-S

| Luminaire | Beam | Color Temp/CRI | Dimming Option | | Finish |
|---|---|---|---|---|---|
| **LIR9050** 7W/651Lm<br>**LIR9051** 9W/1021Lm<br>**LIR9052** 14W/1462Lm<br>**LIR9053** 20W/2123Lm<br>**LIR9059** 29W/2740Lm<br>**LIR9054** 34W/3441Lm | **S**[2] Spot<br>**M**[3] Medium<br>**F** Flood<br>**WF** Wide Flood | *90+ CRI*<br>**27C** 2700K<br>**3C** 3000K<br>**35C** 3500K<br>**4C** 4000K | **D** Dimming<br>*Incandescent (Forward Phase) and ELV (Reverse Phase) Compatible* | — | **S** Silver |

2. Spot Beam available only for LIR9050 Series
3. Medium Beam not available for LIR9050 Series

## REPLACEMENT OPTIC ORDERING INFORMATION

Optics are interchangeable and can be field replaced; only upon the same size fixture, not between fixture sizes

| LIR9050 | | LIR9051/LIR9052 | | LIR9053 | | LIR9059/LIR9054 | |
|---|---|---|---|---|---|---|---|
| **LIR9050-S** | 15° Spot | **LIR9051/2-M** | 23° Medium | **LIR9053-M** | 21° Medium | **LIR9054-M** | 24° Medium |
| **LIR9050-F** | 32° Flood | **LIR9051/2-F** | 33° Flood | **LIR9053-F** | 37° Flood | **LIR9054-F** | 33° Flood |
| **LIR9050-WF** | 58° Wide Flood | **LIR9051/2-WF** | 52° Wide Flood | **LIR9053-WF** | 57° Wide Flood | **LIR9054-WF** | 48° Wide Flood |

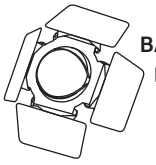
## ACCESSORY ORDERING INFORMATION

**ACCESSORY HOLDERS**
Black (B) or White (P) Finish; Includes Honeycomb Louver

| | |
|---|---|
| **LIR9050** | FA-91S |
| **LIR9051/LIR9052** | FA-91M |
| **LIR9053** | FA-91L |
| **LIR9059/LIR9054** | FA-91XL |

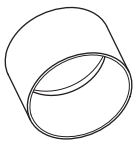
—

Finish
**B** Black
**P** White



**BARN DOORS**
Black (B) Finish

| | |
|---|---|
| **LIR9050** | BD9S |
| **LIR9051/LIR9052** | BD9M |



**SNOOTS**
Black (B) or White (P) Finish

| | |
|---|---|
| **LIR9050** | FA-92S |
| **LIR9051/LIR9052** | FA-92M |
| **LIR9053** | FA-92L |
| **LIR9059/LIR9054** | FA-92XL |

—

P
Finish
**B** Black
**P** White

Example Order: LF16–A-42MM

**TEMPERED GLASS LENSES**
Lenses fit in the respective FA-91 Series Accessory Holder or FA-92 Series Snoot, ordered separately. Lens finish should be entered after the "LF16–" prefix, before lens size.

Lens
**LF16**

—

Finish

| | | | |
|---|---|---|---|
| **LS** | Linear Spread | **DPE** | Dichroic Peach |
| **SL** | Soft Light | **G** | Green |
| **SOL** | Solite | **LB** | Light Blue |
| **A** | Amber | **R** | Red |
| **B** | Blue | **RO** | Rose |
| **CL** | Clear | **Y** | Yellow |

—

Size

| | |
|---|---|
| **CTL9050** | 42MM<br>*1-5/8-In. Diameter Lenses* |
| **CTL9051/CTL9052** | No MM Required<br>*2-In. Diameter Lenses* |
| **CTL9053** | 60MM<br>*2-3/8-In. Diameter Lenses* |
| **CTL9059/CTL9054** | 75MM<br>*2-15/16-In. Diameter Lenses* |

# LIR905 SERIES | Eclipse Curve Luminaire for Odyssey Flexible Track

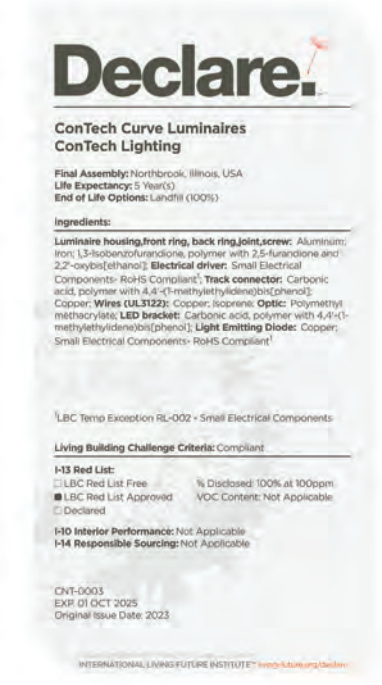
## PRODUCT SPECIFICATIONS

### CONSTRUCTION

- Constructed of extruded and machined aluminum
- Heatsink and Integrated Driver Housing for a sleek modern look
- Precision aiming adjustment: 315° aiming horizontal rotation, 90° vertical rotation
- Light engine consists of a single, high lumen output multi-chip LED array

### PERFORMANCE SUMMARY

- 2700K, 3000K, 3500K and 4000K color temperatures; high CRI of 90+
- Excellent fixture-to-fixture color consistency within a 4-step MacAdam Ellipse tolerance
- Incandescent (Forward Phase) and ELV (Reverse Phase) compatible dimming; see photometric pages for compatible dimmers
- Beams are produced using molded TIR optics; each engineered to provide a smooth uniform beam, maximizing output and minimizing glare
- Optics are interchangeable and can be field replaced, only upon the same size fixture, not between fixture sizes


Declare.

ConTech Curve Luminaires
ConTech Lighting

**Final Assembly:** Northbrook, Illinois, USA
**Life Expectancy:** 5 Year(s)
**End of Life Options:** Landfill (100%)

**Ingredients:**

**Luminaire housing,front ring, back ring,joint,screw:** Aluminium; Iron; 1,3-Isobenzofurandione, polymer with 2,5-furandione and 2,2'-oxybis[ethanol]; **Electrical driver:** Small Electrical Components- RoHS Compliant[1]; **Track connector:** Carbonic acid, polymer with 4,4'-(1-methylethylidene)bis[phenol]; Copper; **Wires (UL3122):** Copper; Isoprene; **Optic:** Polymethyl methacrylate; **LED bracket:** Carbonic acid, polymer with 4,4'-(1-methylethylidene)bis[phenol]; **Light Emitting Diode:** Copper; Small Electrical Components- RoHS Compliant[1]

[1]LBC Temp Exception RL-002 - Small Electrical Components

**Living Building Challenge Criteria:** Compliant

**I-13 Red List:**
☐ LBC Red List Free
■ LBC Red List Approved
☐ Declared

% Disclosed: 100% at 100ppm
VOC Content: Not Applicable

**I-10 Interior Performance:** Not Applicable
**I-14 Responsible Sourcing:** Not Applicable

CNT-0003
EXP. 01 OCT 2025
Original Issue Date: 2023

INTERNATIONAL LIVING FUTURE INSTITUTE

## DIMMING SPECIFICATIONS

- 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

| Incandescent (Forward Phase) Dimming Options | | | |
|---|---|---|---|
| **Manufacturer** | **Product** | **Model** | **Light Output** |
| Leviton | SureSlide | 6631 | 3%-100% |
| Leviton | Trimatron Rotary | RDL06 | 10%-100% |
| Lutron | Ariadni | TGCL-153P | 4%-100% |
| Lutron | Diva | DVCL-153P | 0%-100% |
| Lutron | Lumea | LECL-153P | 3%-100% |

| ELV (Reverse Phase) Dimming Options | | | |
|---|---|---|---|
| **Manufacturer** | **Product** | **Model** | **Light Output** |
| Leviton | Decora Slide | DSE06-10Z | 3%-100% |
| Leviton | IllumaTech | IPE04-1LZ | 8%-100% |

### 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.

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TYPE CATALOG NO.

# CTL905 SERIES | Eclipse Curve Luminaire Photometrics

## PHOTOMETRIC DATA: CTL9050 SERIES 7W LUMINAIRE

### CTL9050: 3000K SPOT

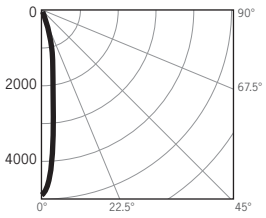
LM-63 Test No. G19103003; LM-79 Test No. S21012801

Fixture Delivered Lumens: 592.5
Total Watts@120V: 7.0
Lumens Per Watt: 84.6
Center Beam Candle Power: 4925
Beam Distribution: 15°
Spacing Criterion: 0.28
Color Rendering Index (CRI)[1]: 96
Color Temperature (CCT)[2]: 3153K
Designed for 50,000 Hour Lamp Life[3]

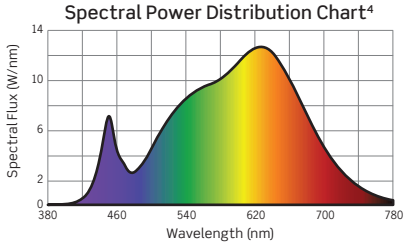
Intensity Distribution

| DISTANCE (FT.) | FOOTCANDLES (FC) | BEAM DIA. (FT.) |
|---|---|---|
| 4 FT | 307.8 | 1.1 |
| 6 FT | 136.8 | 1.6 |
| 8 FT | 77.0 | 2.1 |
| 10 FT | 49.2 | 2.7 |
| 12 FT | 34.2 | 3.2 |
| 14 FT | 25.1 | 3.7 |

Candela Curve




Spectral Power Distribution Chart[4]




### CTL9050: 3000K FLOOD

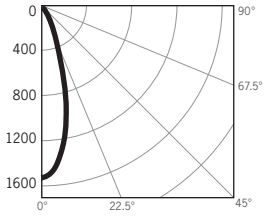
LM-63 Test No. G19103001; LM-79 Test No. S21012801

Fixture Delivered Lumens: 602.0
Total Watts@120V: 7.0
Lumens Per Watt: 86.0
Center Beam Candle Power: 1520
Beam Distribution: 32°
Spacing Criterion: 0.53
Color Rendering Index (CRI)[1]: 96
Color Temperature (CCT)[2]: 3153K
Designed for 50,000 Hour Lamp Life[3]

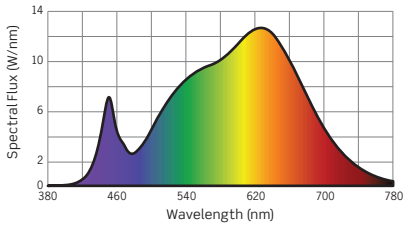
Intensity Distribution

| DISTANCE (FT.) | FOOTCANDLES (FC) | BEAM DIA. (FT.) |
|---|---|---|
| 4 FT | 95.0 | 2.3 |
| 6 FT | 42.2 | 3.5 |
| 8 FT | 23.8 | 4.6 |
| 10 FT | 15.2 | 5.8 |
| 12 FT | 10.6 | 6.9 |
| 14 FT | 7.8 | 8.1 |

Candela Curve




Spectral Power Distribution Chart[4]




### CTL9050: 3000K WIDE FLOOD

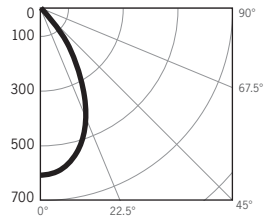
LM-63 Test No. G19103002; LM-79 Test No. S21012801

Fixture Delivered Lumens: 561.8
Total Watts@120V: 7.0
Lumens Per Watt: 80.3
Center Beam Candle Power: 605
Beam Distribution: 58.3°
Spacing Criterion: 0.88
Color Rendering Index (CRI)[1]: 96
Color Temperature (CCT)[2]: 3153K
Designed for 50,000 Hour Lamp Life[3]

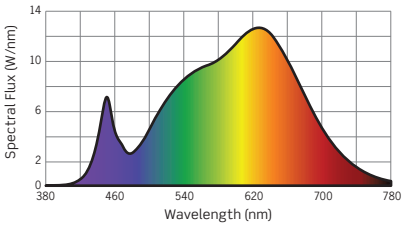
Intensity Distribution

| DISTANCE (FT.) | FOOTCANDLES (FC) | BEAM DIA. (FT.) |
|---|---|---|
| 4 FT | 37.8 | 4.5 |
| 6 FT | 16.8 | 6.7 |
| 8 FT | 9.5 | 8.9 |
| 10 FT | 6.1 | 11.2 |
| 12 FT | 4.2 | 13.4 |
| 14 FT | 3.1 | 15.6 |

Candela Curve




Spectral Power Distribution Chart[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. To estimate lumen output of these various options, multiply 3000K results by the following:

| CCT MULTIPLIERS | | | |
|---|---|---|---|
| **CCT** | **90+ CRI** | **CCT** | **90+ CRI** |
| **2700K** | 0.87 | **3500K** | 1.05 |
| **3000K** | 1.00 | **4000K** | 1.08 |

## COMPATIBLE DIMMERS

| Incandescent (Forward Phase) Dimming Options | | | |
|---|---|---|---|
| **Manufacturer** | **Product** | **Model** | **Light Output** |
| Leviton | SureSlide | 6631 | 3%–100% |
| Leviton | Trimatron Rotary | RDL06 | 10%–100% |
| Lutron | Ariadni | TGCL-153P | 4%–100% |
| Lutron | Diva | DVCL-153P | 0%–100% |
| Lutron | Lumea | LECL-153P | 3%–100% |

| ELV (Reverse Phase) Dimming Options | | | |
|---|---|---|---|
| **Manufacturer** | **Product** | **Model** | **Light Output** |
| Leviton | Decora Slide | DSE06-10Z | 3%–100% |
| Leviton | IllumaTech | IPE04-1LZ | 8%–100% |

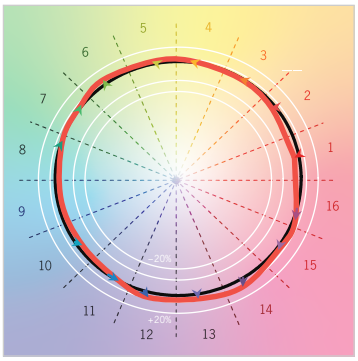
# CTL905 SERIES | Eclipse Curve Luminaire Photometrics

## TM-30 DATA: CTL9050 3000K, FLOOD BEAM

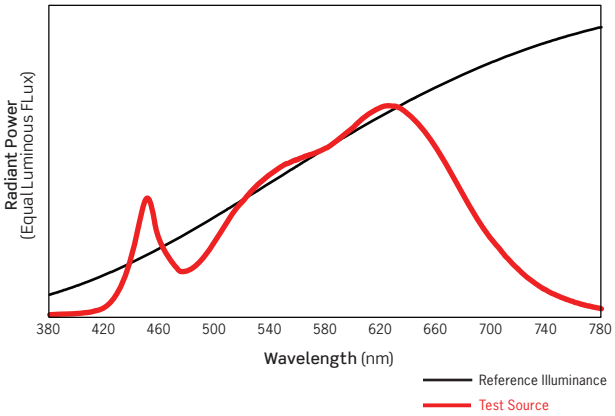
ANSI/IES TM-30-18 Color Rendition Report Test No. S21012801

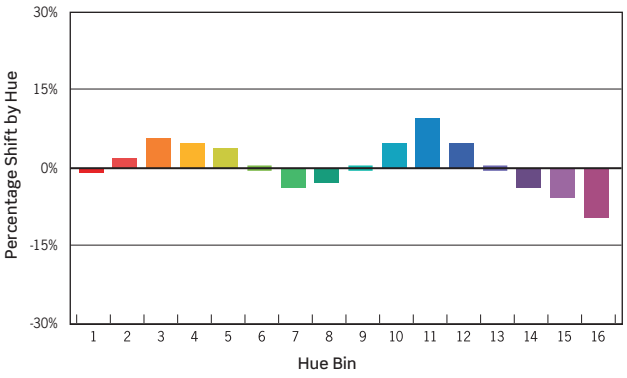
| | |
|---|---|
| $R_f$ | 91 |
| $R_g$ | 101 |
| CCT(K) | 3145K |
| $D_{uv}$ | 0.0010 |
| $u'$ | 0.2453 |
| $v'$ | 0.5198 |

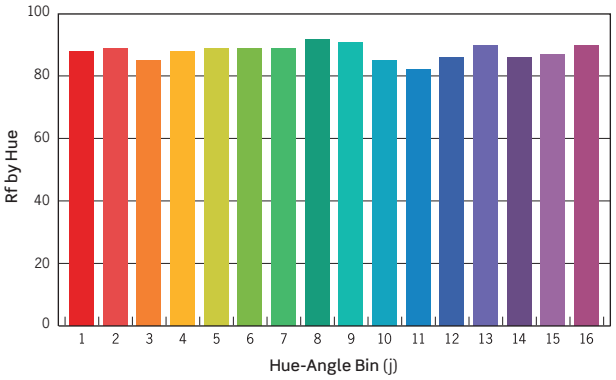
**Color Vector Graphic**




**Spectral Power Distribution Comparison**




| HUE BIN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HUE SHIFT | -1% | 2% | 6% | 5% | 4% | 0% | -4% | -3% | 0% | 5% | 10% | 5% | 0% | -4% | -6% | -10% |
| $R_f$ VALUE | 92 | 93 | 89 | 92 | 93 | 93 | 93 | 96 | 95 | 89 | 86 | 90 | 94 | 90 | 91 | 88 |

Colors are for visual orientation purposes only