



**Lightolier 3D Printed Track Heads, MS Series** offers superior specification grade beam performance with Signify optics. With a sleek, integrated hinge and internal driver for a contemporary appearance, MS Series 3D Printed Track Heads are positioned higher to the ceiling for a cleaner look and lighting design. A wide variety of configuration options including unique and different color pallets make MS Series unlike any other trackhead on the market.

This portfolio of luminaires is powered by myCreation, Genlyte's advanced additive manufacturing technology that enables rapid production of high-quality, customizable luminaires. It streamlines design-to-delivery with on-demand colors, textures, and configurations—while reducing components and using 3D-printed parts made from at least 75% recycled or mass-balanced, bio-circular materials.

### Fixture

Now including AccuRender technology for the highest color quality at the highest efficacy.

example: 3DTH L GYST LF 15L NB 27K 2

Series	Adapters	Colors	Textures	Lumens	Beams	CRI/CCT	Version
<b>3DTH</b>			<b>LF</b>				<b>2</b>
3DTH MS Series 3D Track Head	L Lightolier J Juno H Halo	BKST Satin Black BSST Satin Brass BZST Satin Bronze CAPP Satin Cappuccino GYST Satin Grey SAGE Satin Sage WHST Satin White	LF Layered Fine	10L 1000lm 15L 1500lm 23L 2300lm	NB Narrow (17°) MB Medium (22°) WB Wide (34°) VWB Very Wide (60°)	27K 90CRI / 2700K 30K 90CRI / 3000K 35K 90CRI / 3500K 40K 90CRI / 4000K	2 Version 2

**Note:** Different colors are available upon request but will require a longer lead time.

### Features

- Customizable:** Choose from a wide variety of colors.
- Sustainable:** 3D-Printed products produce less carbon emissions when compared to traditional, conventional luminaires.
- Local production:** Printed and assembled in Littlestown, PA.
- Quick delivery:** Created on demand and shipped in weeks.
- Lifetime:** L90/B50 Lumen Maintenance at 65,000 hours.

### Dimming Compatibility

<b>Trailing edge (ELV) dimming compatible</b>	
SELV-300P	Lutron Skylark (100-7%)
DVELV-300P	Lutron Diva (100-7%)
6615-P	Leviton Decora (100-12%)

### Electrical

**Wattage:**  
 1000 lm - (950lm) = 9W  
 1500 lm - (1440lm) = 15W  
 2300 lm - (2300lm) = 23W  
**Track Mount:** Standard Lightolier track adapter  
**Input Voltage:** 120V  
**Frequency:** 50/60Hz  
**Power Factor:** 0.9  
**Control:** ELV dimming

### Mounting

Lightolier, Juno or Halo mounting track options  
 Horizontal rotation = 350°  
 Vertical tilt = 90°

### Labels

cULus listed, 5 year warranty,  
 IP20, RoHS & DLC rated  
 Declare LBC Red List Approved  
 (View full Declare label)

### Buy American Act of 1933 (BAA)

This product is manufactured in one of our US factories and, as of the date of this document, this product was considered a commercially available off-the-shelf (COTS) item meeting the requirements of the BAA. This BAA designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies. Prior to ordering, please visit [www.signify.com/baa](http://www.signify.com/baa) to view a current list of BAA-compliant products to confirm this product's current compliance.



Unleash your inner creator

To configure your MS Series luminaire, scan this QR Code or visit us at:  
<https://www.3dconfigurator.mycreation.signify.com/lightolier/TCLMS11>



Declare.



interact ready.

# MS Series

## 3D Track Heads (1000lm, 1500lm, 2300lm)

### AccuRender Technology (CRI 90+)

The right light brings colors to life. Our new AccuRender technology helps ensure colors are rendered more accurately and consistently, while doing so as efficiently as CRI 80 products.



**Standard CRI 80**

Good color rendering and high efficacy



**Standard CRI 90**

Better color rendering and low efficacy



**AccuRender**

Best color rendering, color preference and high efficacy

#### Promote savings

##### High efficacy, with no penalty:

- Energy efficacy compares well to conventional CRI80
- Up to 25% more energy savings vs competitor CRI90<sup>1</sup>
- Helps you meet Title 24 requirements

#### Enjoy design flexibility

##### Full range of products and options:

- Available soon across Lightolier portfolio for application flexibility
- Multiple CCTs and lumen packages offered

1. Based on comparison of published specification sheet data, most competitor offerings reflect a 15 to 25% efficacy loss for CRI 90 compared to CRI 80, while Lightolier AccuRender results in only ≤5% drop compared to CRI 80.

#### Bolster wellbeing

##### High MDER:

- AccuRender has a Melanopic Daylight Efficacy Ratio up to 0.80
- Helps support Circadian Rhythm<sup>2</sup>
- Earns points towards WELL Building Standard

#### Contribute to productivity

##### High MDER:

- Supports daytime vitality<sup>3</sup> and alertness<sup>4</sup>
- Supports mood, thermo-regulation, and learning centers in the brain<sup>5</sup>
- May positively influence work engagement by helping make the environment more attractive<sup>6</sup>

2. Czeisler, 1999; Dijk & Archer, 2009; Lucas 2012, 2019

3. Partonen 2000

4. Viola 2008, Smolders 2012; Geerdink 2017

5. Fernandez 2018; Rupp, 2019

#### Show your true colors

##### High color rendering:

- **CRI:**  
R<sub>a</sub> up to 94, R<sub>9</sub> up to 67, G<sub>a</sub> up to 99, C<sub>9</sub> up to 94
- **TM-30:**  
R<sub>t</sub> up to 92, R<sub>f,hi</sub> up to 91, R<sub>g</sub> up to 100, R<sub>cs,hi</sub> up to -5%
- **True to life colors** to help energize your environment and render better flesh tones critical for Healthcare, Hospitality and Retail

#### Achieve color balance

##### Best in class color consistency:

- ≤ 2 SDCM promotes aesthetic harmony

6. Veitch, Jennifer & Stokkermans, Mariska & R. Newsham, Guy. (2013). Linking Lighting Appraisals to Work Behaviors. Environment and Behavior. 45. 198-214. 10.1177/0013916511420560.

# MS Series

3D Track Heads (1000lm, 1500lm, 2300lm)

## Colors & Textures



WHST Satin White



CAPP Satin Cappuccino



GYST Satin Grey



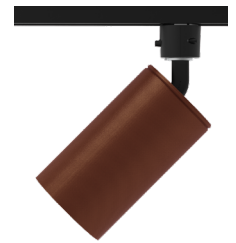
BSST Satin Brass



BKST Satin Black

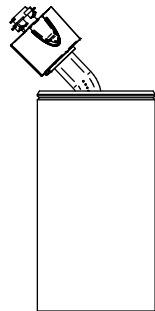
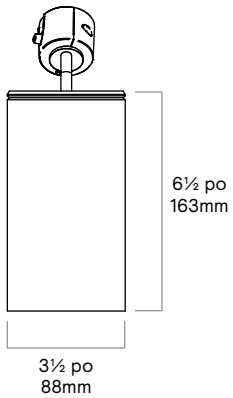


BZST Satin Bronze

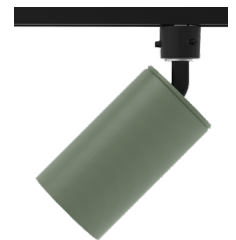


Different colors are available upon request but will require a longer lead time.

## Dimensions



SAGE Satin Sage



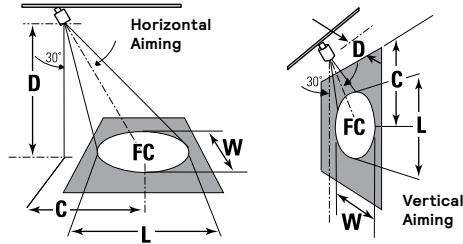
# MS Series

## 3D Track Heads (1000lm)

### Aiming Angles (1000lm)

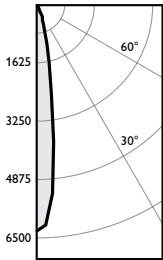
L and W are the outer points where the candle power drops to 50% of the maximum. FC are the initial footcandles at the center of the beam. Data shown is for 3000K, use the table on the right for CRI/CCT adjustment factors.

D Distance  
L Beam length  
W Beam Width  
A Aiming Angle  
C Distance to center beam  
FC Footcandles  
CBCP Center Beam Candlepower



#### Adjustment Factors:

2700K:	0.95
3000K:	1
3500K:	1.02
4000K:	1.04



### 1000lm Narrow

#### 3DTHL RS 3.0 930 1000lm

CCT<sup>1</sup>: 3000K  
Output lumens: 1125 lms  
Input watts<sup>2</sup>: 8.8 W  
Efficacy: 127.8 lm/w  
CRI: 90 min  
CBCP: 7,048 cd

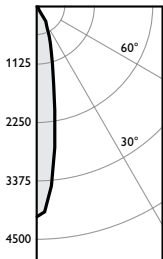
Beam Angle: 17°  
Cat No: 1000 NB

#### 30° Aiming Angle Horizontal Illuminance on floor

D	C	F.C.	L	W
6	3.5	127	2.4	2.1
8	4.6	72	3.2	2.8
10	5.8	46	4.0	3.5
12	6.9	32	4.8	4.1

#### 30° Aiming Angle Vertical Illuminance on floor

D	C	F.C.	L	W
2	3.5	220	2.6	1.2
3	5.2	98	3.8	1.8
4	6.9	55	5.1	2.4
5	8.7	35	6.4	3.0



### 1000lm Medium

#### 3DTHL RNF 3.0 930 1000lm

CCT<sup>1</sup>: 3000K  
Output lumens: 1109 lms  
Input watts<sup>2</sup>: 8.8 W  
Efficacy: 126.0 lm/w  
CRI: 90 min  
CBCP: 4,442 cd

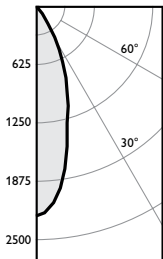
Beam Angle: 20°  
Cat No: 1000 MB

#### 30° Aiming Angle Horizontal Illuminance on floor

D	C	F.C.	L	W
6	3.5	80	2.9	2.4
8	4.6	45	3.8	3.3
10	5.8	29	4.8	4.1
12	6.9	20	5.7	4.9

#### 30° Aiming Angle Vertical Illuminance on floor

D	C	F.C.	L	W
2	3.5	139	3.1	1.4
3	5.2	62	4.7	2.1
4	6.9	35	6.2	2.8
5	8.7	22	7.8	3.5



### 1000lm Wide

#### 3DTHL RF 3.0 930 1000lm

CCT<sup>1</sup>: 3000K  
Output lumens: 1085 lms  
Input watts<sup>2</sup>: 8.8 W  
Efficacy: 123.3 lm/w  
CRI: 90 min  
CBCP: 2,553 cd

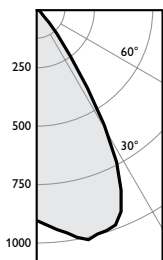
Beam Angle: 35°  
Cat No: 1000 WB

#### 30° Aiming Angle Horizontal Illuminance on floor

D	C	F.C.	L	W
6	3.5	46	5.2	4.4
8	4.6	26	7.0	5.8
10	5.8	17	8.7	7.3
12	6.9	12	10.4	8.7

#### 30° Aiming Angle Vertical Illuminance on floor

D	C	F.C.	L	W
2	3.5	80	7.2	2.5
3	5.2	35	10.8	3.8
4	6.9	20	14.4	5.0
5	8.7	13	18.0	6.3



### 1000lm Very Wide

#### 3DTHL RWF 3.0 930 1000lm

CCT<sup>1</sup>: 3000K  
Output lumens: 1118 lms  
Input watts<sup>2</sup>: 8.8 W  
Efficacy: 127.0 lm/w  
CRI: 90 min  
CBCP: 1,083 cd

Beam Angle: 59°  
Cat No: 1000 VWB

#### 30° Aiming Angle Horizontal Illuminance on floor

D	C	F.C.	L	W
6	3.5	20	10.1	7.8
8	4.6	11	13.5	10.5
10	5.8	7	16.9	13.1
12	6.9	5	20.3	15.7

#### 30° Aiming Angle Vertical Illuminance on floor

D	C	F.C.	L	W
2	3.5	34	228.0	4.5
3	5.2	15	342.0	6.8
4	6.9	8	456.0	9.1
5	8.7	5	570.0	11.3

1. Correlated Color Temperature within specs as defined in ANSI\_NEMA\_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.

2. Wattage controlled to within +/- 5%.

Note: Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

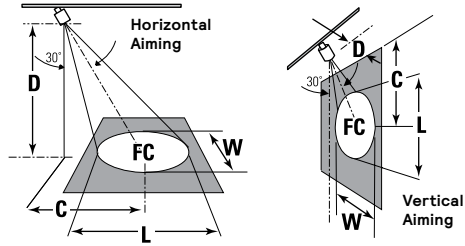
# MS Series

## 3D Track Heads (1500lm)

### Aiming Angles (1500lm)

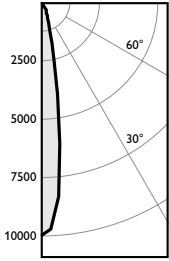
L and W are the outer points where the candle power drops to 50% of the maximum. FC are the initial footcandles at the center of the beam. Data shown is for 3000K, use the table on the right for CRI/CCT adjustment factors.

D Distance  
L Beam length  
W Beam Width  
A Aiming Angle  
C Distance to center beam  
FC Footcandles  
CBCP Center Beam Candlepower



#### Adjustment Factors:

2700K:	0.95
3000K:	1
3500K:	1.02
4000K:	1.04



### 1500lm Narrow

#### 3DTHL RS 3.0 930 1500lm

CCT<sup>1</sup>: 3000K  
Output lumens: 1665 lms  
Input watts<sup>2</sup>: 13.4 W  
Efficacy: 124.3 lm/w  
CRI: 90 min  
CBCP: 10,426 cd

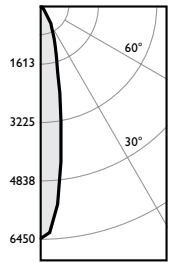
Beam Angle: 17°  
Cat No: 1500 NB

#### 30° Aiming Angle Horizontal Illuminance on floor

D	C	F.C.	L	W
6	3.5	188	2.4	2.1
8	4.6	106	3.2	2.8
10	5.8	68	4.0	3.5
12	6.9	47	4.8	4.1

#### 30° Aiming Angle Vertical Illuminance on floor

D	C	F.C.	L	W
2	3.5	326	2.6	1.2
3	5.2	145	3.8	1.8
4	6.9	81	5.1	2.4
5	8.7	52	6.4	3.0



### 1500lm Medium

#### 3DTHL RNF 3.0 930 1500lm

CCT<sup>1</sup>: 3000K  
Output lumens: 1641 lms  
Input watts<sup>2</sup>: 13.4 W  
Efficacy: 122.5 lm/w  
CRI: 90 min  
CBCP: 6,571 cd

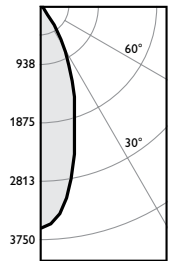
Beam Angle: 20°  
Cat No: 1500 MB

#### 30° Aiming Angle Horizontal Illuminance on floor

D	C	F.C.	L	W
6	3.5	119	2.9	2.4
8	4.6	67	3.8	3.3
10	5.8	43	4.8	4.1
12	6.9	30	5.7	4.9

#### 30° Aiming Angle Vertical Illuminance on floor

D	C	F.C.	L	W
2	3.5	205	3.1	1.4
3	5.2	91	4.7	2.1
4	6.9	51	6.2	2.8
5	8.7	33	7.8	3.5



### 1500lm Wide

#### 3DTHL RF 3.0 930 1500lm

CCT<sup>1</sup>: 3000K  
Output lumens: 1654 lms  
Input watts<sup>2</sup>: 13.4 W  
Efficacy: 123.4 lm/w  
CRI: 90 min  
CBCP: 3,776 cd

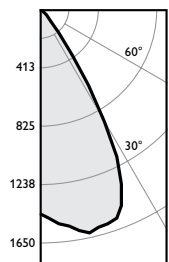
Beam Angle: 35°  
Cat No: 1500 WB

#### 30° Aiming Angle Horizontal Illuminance on floor

D	C	F.C.	L	W
6	3.5	68	5.2	4.4
8	4.6	38	7.0	5.8
10	5.8	25	8.7	7.3
12	6.9	17	10.4	8.7

#### 30° Aiming Angle Vertical Illuminance on floor

D	C	F.C.	L	W
2	3.5	118	7.2	2.5
3	5.2	52	10.8	3.8
4	6.9	30	14.4	5.0
5	8.7	19	18.0	6.3



### 1500lm Very Wide

#### 3DTHL RWF 3.0 930 1500lm

CCT<sup>1</sup>: 3000K  
Output lumens: 1605 lms  
Input watts<sup>2</sup>: 13.4 W  
Efficacy: 119.8 lm/w  
CRI: 90 min  
CBCP: 1,602 cd

Beam Angle: 59°  
Cat No: 1500 VWB

#### 30° Aiming Angle Horizontal Illuminance on floor

D	C	F.C.	L	W
6	3.5	29	10.1	7.8
8	4.6	16	13.5	10.5
10	5.8	10	16.9	13.1
12	6.9	7	20.3	15.7

#### 30° Aiming Angle Vertical Illuminance on floor

D	C	F.C.	L	W
2	3.5	50	228.0	4.5
3	5.2	22	342.0	6.8
4	6.9	13	456.0	9.1
5	8.7	8	570.0	11.3

1. Correlated Color Temperature within specs as defined in ANSI\_NEMA\_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.

2. Wattage controlled to within +/- 5%.

Note: Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

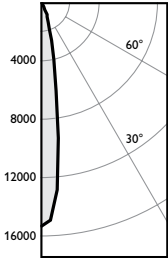
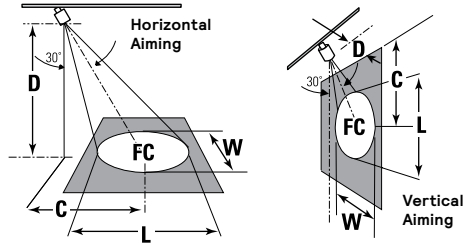
# MS Series

## 3D Track Heads (2300lm)

### Aiming Angles (2300lm)

L and W are the outer points where the candle power drops to 50% of the maximum. FC are the initial footcandles at the center of the beam. Data shown is for 3000K, use the table on the right for CRI/CCT adjustment factors.

D Distance  
L Beam length  
W Beam Width  
A Aiming Angle  
C Distance to center beam  
FC Footcandles  
CBCP Center Beam Candlepower



### 2300lm Narrow

#### 3DTHL RS 3.0 930 2300lm

CCT<sup>1</sup>: 3000K  
Output lumens: 2509 lms  
Input watts<sup>2</sup>: 19.6 W  
Efficacy: 128.0 lm/w  
CRI: 90 min  
CBCP: 17,713 cd

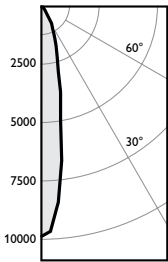
Beam Angle: 17°  
Cat No: 2300 NB

#### 30° Aiming Angle Horizontal Illuminance on floor

D	C	F.C.	L	W
6	3.5	320	2.4	2.1
8	4.6	180	3.2	2.8
10	5.8	115	4.0	3.5
12	6.9	80	4.8	4.1

#### 30° Aiming Angle Vertical Illuminance on floor

D	C	F.C.	L	W
2	3.5	554	2.6	1.2
3	5.2	246	3.8	1.8
4	6.9	138	5.1	2.4
5	8.7	89	6.4	3.0



### 2300lm Medium

#### 3DTHL RNF 3.0 930 2300lm

CCT<sup>1</sup>: 3000K  
Output lumens: 2473 lms  
Input watts<sup>2</sup>: 19.6 W  
Efficacy: 126.2 lm/w  
CRI: 90 min  
CBCP: 9,903 cd

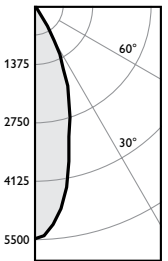
Beam Angle: 20°  
Cat No: 2300 MB

#### 30° Aiming Angle Horizontal Illuminance on floor

D	C	F.C.	L	W
6	3.5	179	2.9	2.4
8	4.6	101	3.8	3.3
10	5.8	64	4.8	4.1
12	6.9	45	5.7	4.9

#### 30° Aiming Angle Vertical Illuminance on floor

D	C	F.C.	L	W
2	3.5	309	3.1	1.4
3	5.2	138	4.7	2.1
4	6.9	77	6.2	2.8
5	8.7	50	7.8	3.5



### 2300lm Wide

#### 3DTHL RF 3.0 930 2300lm

CCT<sup>1</sup>: 3000K  
Output lumens: 2419 lms  
Input watts<sup>2</sup>: 19.6 W  
Efficacy: 123.4 lm/w  
CRI: 90 min  
CBCP: 5,690 cd

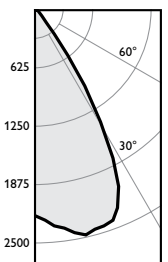
Beam Angle: 35°  
Cat No: 2300 WB

#### 30° Aiming Angle Horizontal Illuminance on floor

D	C	F.C.	L	W
6	3.5	103	5.2	4.4
8	4.6	58	7.0	5.8
10	5.8	37	8.7	7.3
12	6.9	26	10.4	8.7

#### 30° Aiming Angle Vertical Illuminance on floor

D	C	F.C.	L	W
2	3.5	178	7.2	2.5
3	5.2	79	10.8	3.8
4	6.9	44	14.4	5.0
5	8.7	28	18.0	6.3



### 2300lm Very Wide

#### 3DTHL RWF 3.0 930 2300lm

CCT<sup>1</sup>: 3000K  
Output lumens: 2493 lms  
Input watts<sup>2</sup>: 19.6 W  
Efficacy: 127.2 lm/w  
CRI: 90 min  
CBCP: 2,415 cd

Beam Angle: 59°  
Cat No: 2300 VWB

#### 30° Aiming Angle Horizontal Illuminance on floor

D	C	F.C.	L	W
6	3.5	44	10.1	7.8
8	4.6	25	13.5	10.5
10	5.8	16	16.9	13.1
12	6.9	11	20.3	15.7

#### 30° Aiming Angle Vertical Illuminance on floor

D	C	F.C.	L	W
2	3.5	75	228.0	4.5
3	5.2	34	342.0	6.8
4	6.9	19	456.0	9.1
5	8.7	12	570.0	11.3

1. Correlated Color Temperature within specs as defined in ANSI\_NEMA\_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.

2. Wattage controlled to within +/- 5%.

Note: Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.