LIGHTOLIER

3D printed lighting

Track Heads

LumaShine Series

Project:

Location:

Cat.No:

Type:

Qty:

Notes:

Lightolier 3D LumaShine Series Track Head offers specification grade beam performance with Signify optics. AccuRender technology provides the highest color quality at the highest efficacy. With a sleek, integrated hinge and internal driver for a contemporary appearance, LumaShine 3D Printed Track Heads are positioned closer to the ceiling for a cleaner look and design. Made with renewable materials, the LumaShine Series offers a range of color, beam, lumen, and temperature options, and is ideal in retail, hospitality, and office environments.

Fixture

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

example: 3DTHSN M L WHST LF 15L RF 30K

Series	Size	Adapters	Housing Colors	Textures	Lumens	Reflector / Beam Spreads	CRI / CCT
3DTHSN	M			LF			
3DTHSN LumaShine Series	**M** Meduim	**L** Lightolier **J** Juno **H** Halo	Satin Essentials **BKST** Black **GYST** Grey **WHST** White	**LF** Layered Fine	**10L** 1000lm **15L** 1500lm **23L** 2300lm	**RS** Spot (17°) **RNF** Narrow Flood (22°) **RF** Flood (34°) **RWF** Wide Flood (60°)	**27K** 90 CRI / 2700K **30K** 90 CRI / 3000K **35K** 90 CRI / 3500K **40K** 90 CRI / 4000K

Note:

Features

1. **Customizable:** choose from a wide variety of configurations,
2. **Sustainable:** 3D Printed products produce less carbon emissions when compared to traditional, conventional luminaires.
3. **Local production:** Printed and assembled in Littlestown, PA.
4. **Quick delivery:** Created on demand and shipped in weeks.
5. **Lifetime:** L90/B50 Lumen Maintenance at 66,000 hours and L70/B50 >110,000 hours.

Dimming Compatibility

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

Electrical

Efficacy: Up to 120 lm/W
Track Mount: Standard Lightolier track adapter
Input Voltage: 120V
Frequency: 50/60Hz
Power Factor: 0.9
Control: ELV dimming

Mounting

Track Adapters: Lightolier, Juno or Halo mounting track options
Horizontal rotation: 350°
Vertical tilt: 90°

Labels

cULus listed, 5 year warranty, IP20, RoHS & DLC Premium rated Declare. LBC Red List Approved.

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 to view a current list of BAA-compliant products to confirm this product's current compliance.

Unleash your inner creator

Learn more about this product, scan the QR Code with your smartphone or visit us at:
www.signify.com/en-us/brands/lightolier/3d-printed-lighting/products/crown-series

Declare. DLC LISTED cULus LISTED RoHS COMPLIANT interact ready.

LumaShine 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 redered 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[1]
- Helps you meet Title 24 requirements

Enjoy design flexibility

Full range of products and options:

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

Bolster wellbeing

High MDER:

- AccuRender has a Melanopic Daylight Efficacy Ratio up to 0.80
- Helps support Circadian Rhythm[2]
- Earns points towards WELL Building Standard

Contribute to productivity

High MDER:

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

Show your true colors

High color rendering:

- **CRI:** R_a up to 94, R_9 up to 67, G_a up to 99, C_9 up to 94
- **TM-30:** R_f up to 92, $R_{f,h1}$ up to 91, R_g up to 100, $R_{cs,h1}$ 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

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.

2. Czeisler, 1999; Dijk &Archer, 2009; Lucas 2012, 2019
3. Partonen 2000
4. Viola 2008, Smolders 2012; Geerdink 2017
5. Fernandez 2018; Rupp, 2019

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

LumaShine Series

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

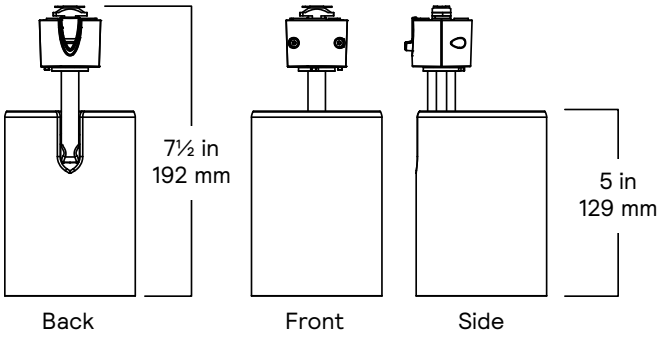
Colors

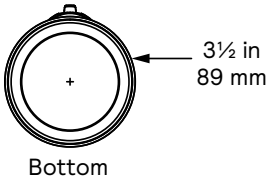
Housing Color
BKST Black

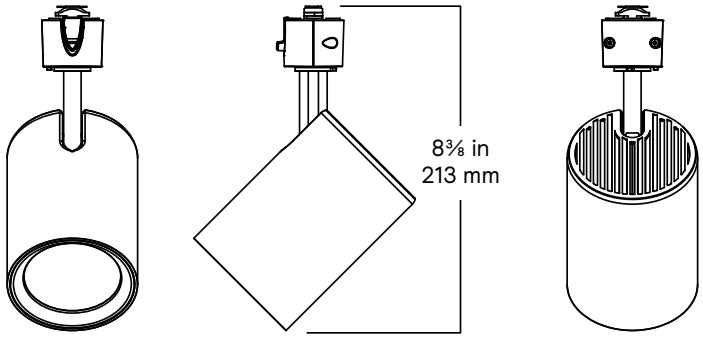
Housing Color
GYST Grey

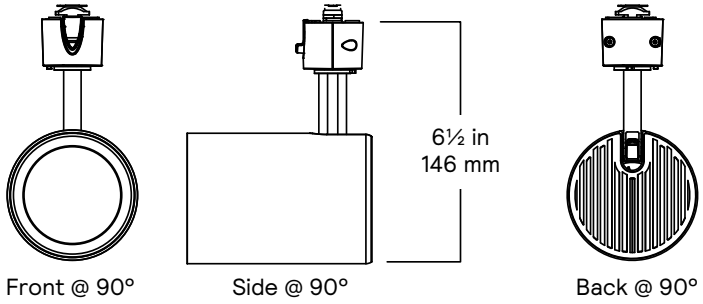
Housing Color
WHST White

Dimensions









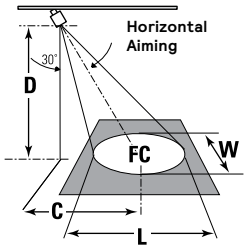
LumaShine Series

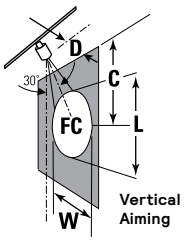
3D Track Heads (1000lm)

Aiming Angles

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.

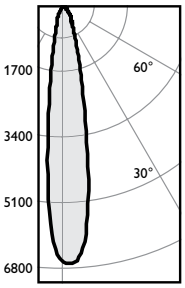
D Distance
L Beam length
W Beam Width
A Aiming Angle
C Distance to center beam
FC Footcandles
CBCP Center Beam Candlepower





Adjustment factors

CCT (90CRI)
4000K = 108%
3500K = 106%
3000K = 100%
2700K = 96%



Spot (RS)

3DTHSN M L WHST LF 10L RS 30K

CCT[1]:	3000K
Output lumens:	1055 lms
Input watts[2]:	8.8 W
Efficacy:	119.9 lm/w
CRI:	90 min
CBCP:	6,764 cd
Beam Angle:	17°

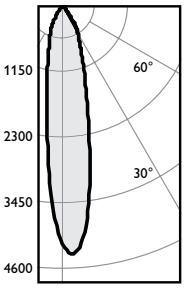
CERTIFIED TEST REPORT NO. ES 3DTHL RS 3.0 930 1000lm

30° Aiming Angle
Horizontal Illuminance on floor

D	C	F.C.	L	W
6	3.5	122	2.4	2.1
8	4.6	69	3.2	2.8
10	5.8	44	4.0	3.5
12	6.9	31	4.8	4.1

30° Aiming Angle
Vertical Illuminance on floor

D	C	F.C.	L	W
2	3.5	211	2.6	1.2
3	5.2	94	3.8	1.8
4	6.9	53	5.1	2.4
5	8.7	34	6.4	3.0



Narrow Flood (RNF)

3DTHSN M L WHST LF 10L RNF 30K

CCT[1]:	3000K
Output lumens:	1040 lms
Input watts[2]:	8.8 W
Efficacy:	118.2 lm/w
CRI:	90 min
CBCP:	4,546 cd
Beam Angle:	22°

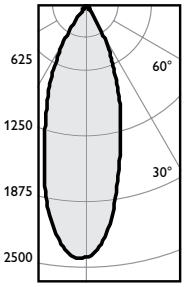
CERTIFIED TEST REPORT NO.IES 3DTHL RNF 3.0 930 1000lm

30° Aiming Angle
Horizontal Illuminance on floor

D	C	F.C.	L	W
6	3.5	82	3.1	2.7
8	4.6	46	4.2	3.6
10	5.8	30	5.2	4.5
12	6.9	21	6.3	5.4

30° Aiming Angle
Vertical Illuminance on floor

D	C	F.C.	L	W
2	3.5	142	3.5	1.6
3	5.2	63	5.3	2.3
4	6.9	36	7.0	3.1
5	8.7	23	8.8	3.9



Medium Flood (RMF)

3DTHSN M L WHST LF 10L RMF 30K

CCT[1]:	3000K
Output lumens:	1017 lms
Input watts[2]:	8.8 W
Efficacy:	115.6 lm/w
CRI:	90 min
CBCP:	2,446 cd
Beam Angle:	34°

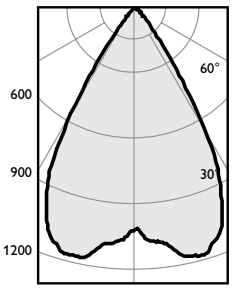
CERTIFIED TEST REPORT NO.3DTHL RF 3.0 930 1000lm

30° Aiming Angle
Horizontal Illuminance on floor

D	C	F.C.	L	W
6	3.5	44	5.0	4.2
8	4.6	25	6.7	5.6
10	5.8	16	8.4	7.1
12	6.9	11	10.1	8.5

30° Aiming Angle
Vertical Illuminance on floor

D	C	F.C.	L	W
2	3.5	76	6.8	2.4
3	5.2	34	10.2	3.7
4	6.9	19	13.6	4.9
5	8.7	12	17.0	6.1



Flood (RWF)

3DTHSN M L WHST LF 10L RWF 30K

CCT[1]:	3000K
Output lumens:	1048 lms
Input watts[2]:	8.8 W
Efficacy:	119.1 lm/w
CRI:	90 min
CBCP:	1,181 cd
Beam Angle:	59°

CERTIFIED TEST REPORT NO.3DTHL RWF 3.0 930 1000lm

30° Aiming Angle
Horizontal Illuminance on floor

D	C	F.C.	L	W
6	3.5	21	10.1	7.8
8	4.6	12	13.5	10.5
10	5.8	8	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	37	228.0	4.5
3	5.2	16	342.0	6.8
4	6.9	9	456.0	9.1
5	8.7	6	570.0	11.3

1. Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSLG 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.

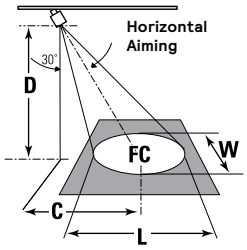
LumaShine Series

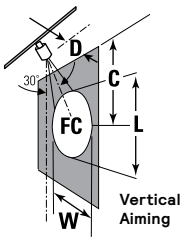
3D Track Heads (1500lm)

Aiming Angles

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.

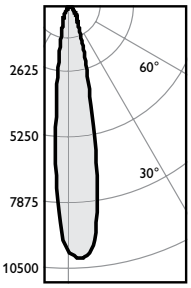
D Distance
L Beam length
W Beam Width
A Aiming Angle
C Distance to center beam
FC Footcandles
CBCP Center Beam Candlepower





Adjustment factors

CCT (90CRI)
4000K = 108%
3500K = 106%
3000K = 100%
2700K = 96%



Spot (RS)

3DTHSN M L WHST LF 15L RS 30K

CCT[1]:	3000K
Output lumens:	1571 lms
Input watts[2]:	13.4 W
Efficacy:	117.2 lm/w
CRI:	90 min
CBCP:	10,070 cd
Beam Angle:	17°

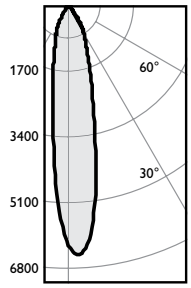
CERTIFIED TEST REPORT NO. ES 3DTHL RS 3.0 930 1500lm

30° Aiming Angle
Horizontal Illuminance on floor

D	C	F.C.	L	W
6	3.5	182	2.4	2.1
8	4.6	102	3.2	2.8
10	5.8	65	4.0	3.5
12	6.9	45	4.8	4.1

30° Aiming Angle
Vertical Illuminance on floor

D	C	F.C.	L	W
2	3.5	315	2.6	1.2
3	5.2	140	3.8	1.8
4	6.9	79	5.1	2.4
5	8.7	50	6.4	3.0



Narrow Flood (RNF)

3DTHSN M L WHST LF 15L RNF 30K

CCT[1]:	3000K
Output lumens:	1548 lms
Input watts[2]:	13.4 W
Efficacy:	115.5 lm/w
CRI:	90 min
CBCP:	6,768 cd
Beam Angle:	22°

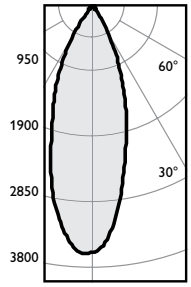
CERTIFIED TEST REPORT NO.IES 3DTHL RNF 3.0 930 1500lm

30° Aiming Angle
Horizontal Illuminance on floor

D	C	F.C.	L	W
6	3.5	122	3.1	2.7
8	4.6	69	4.2	3.6
10	5.8	44	5.2	4.5
12	6.9	31	6.3	5.4

30° Aiming Angle
Vertical Illuminance on floor

D	C	F.C.	L	W
2	3.5	212	3.5	1.6
3	5.2	94	5.3	2.3
4	6.9	53	7.0	3.1
5	8.7	34	8.8	3.9



Medium Flood (RMF)

3DTHSN M L WHST LF 15L RMF 30K

CCT[1]:	3000K
Output lumens:	1515 lms
Input watts[2]:	13.4 W
Efficacy:	113.1 lm/w
CRI:	90 min
CBCP:	3,642 cd
Beam Angle:	34°

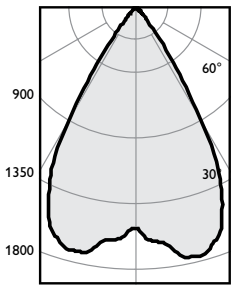
CERTIFIED TEST REPORT NO.3DTHL RF 3.0 930 1500lm

30° Aiming Angle
Horizontal Illuminance on floor

D	C	F.C.	L	W
6	3.5	66	5.0	4.2
8	4.6	37	6.7	5.6
10	5.8	24	8.4	7.1
12	6.9	16	10.1	8.5

30° Aiming Angle
Vertical Illuminance on floor

D	C	F.C.	L	W
2	3.5	114	6.8	2.4
3	5.2	51	10.2	3.7
4	6.9	28	13.6	4.9
5	8.7	18	17.0	6.1



Flood (RWF)

3DTHSN M L WHST LF 15L RWF 30K

CCT[1]:	3000K
Output lumens:	1561 lms
Input watts[2]:	13.4 W
Efficacy:	116.5 lm/w
CRI:	90 min
CBCP:	1,759 cd
Beam Angle:	59°

CERTIFIED TEST REPORT NO.3DTHL RWF 3.0 930 1500lm

30° Aiming Angle
Horizontal Illuminance on floor

D	C	F.C.	L	W
6	3.5	32	10.1	7.8
8	4.6	18	13.5	10.5
10	5.8	11	16.9	13.1
12	6.9	8	20.3	15.7

30° Aiming Angle
Vertical Illuminance on floor

D	C	F.C.	L	W
2	3.5	55	228.0	4.5
3	5.2	24	342.0	6.8
4	6.9	14	456.0	9.1
5	8.7	9	570.0	11.3

1. Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSLG 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.

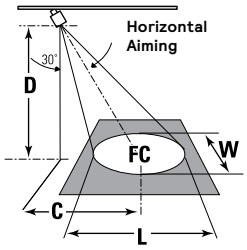
LumaShine Series

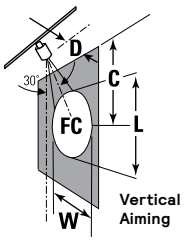
3D Track Heads (2300lm)

Aiming Angles

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.

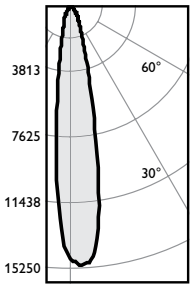
D Distance
L Beam length
W Beam Width
A Aiming Angle
C Distance to center beam
FC Footcandles
CBCP Center Beam Candlepower





Adjustment factors

CCT (90CRI)
4000K = 108%
3500K = 106%
3000K = 100%
2700K = 96%



Spot (RS)

3DTHSN M L WHST LF 23L RS 30K

CCT[1]:	3000K
Output lumens:	2344 lms
Input watts[2]:	19.6 W
Efficacy:	119.6 lm/w
CRI:	90 min
CBCP:	15,030 cd
Beam Angle:	17°

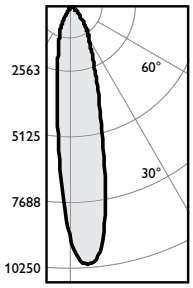
CERTIFIED TEST REPORT NO. ES 3DTHL RS 3.0 930 2300lm

30° Aiming Angle
Horizontal Illuminance on floor

D	C	F.C.	L	W
6	3.5	271	2.4	2.1
8	4.6	153	3.2	2.8
10	5.8	98	4.0	3.5
12	6.9	68	4.8	4.1

30° Aiming Angle
Vertical Illuminance on floor

D	C	F.C.	L	W
2	3.5	470	2.6	1.2
3	5.2	209	3.8	1.8
4	6.9	117	5.1	2.4
5	8.7	75	6.4	3.0



Narrow Flood (RNF)

3DTHSN M L WHST LF 23L RNF 30K

CCT[1]:	3000K
Output lumens:	2311 lms
Input watts[2]:	19.6 W
Efficacy:	117.9 lm/w
CRI:	90 min
CBCP:	10,102 cd
Beam Angle:	22°

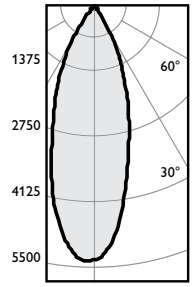
CERTIFIED TEST REPORT NO.IES 3DTHL RNF 3.0 930 2300lm

30° Aiming Angle
Horizontal Illuminance on floor

D	C	F.C.	L	W
6	3.5	182	3.1	2.7
8	4.6	103	4.2	3.6
10	5.8	66	5.2	4.5
12	6.9	46	6.3	5.4

30° Aiming Angle
Vertical Illuminance on floor

D	C	F.C.	L	W
2	3.5	316	3.5	1.6
3	5.2	140	5.3	2.3
4	6.9	79	7.0	3.1
5	8.7	51	8.8	3.9



Medium Flood (RMF)

3DTHSN M L WHST LF 23L RMF 30K

CCT[1]:	3000K
Output lumens:	2261 lms
Input watts[2]:	19.6 W
Efficacy:	115.4 lm/w
CRI:	90 min
CBCP:	5,436 cd
Beam Angle:	34°

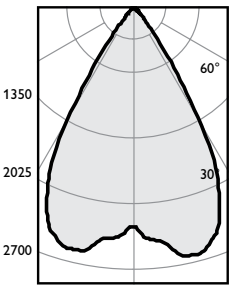
CERTIFIED TEST REPORT NO.3DTHL RF 3.0 930 2300lm

30° Aiming Angle
Horizontal Illuminance on floor

D	C	F.C.	L	W
6	3.5	98	5.0	4.2
8	4.6	55	6.7	5.6
10	5.8	35	8.4	7.1
12	6.9	25	10.1	8.5

30° Aiming Angle
Vertical Illuminance on floor

D	C	F.C.	L	W
2	3.5	170	6.8	2.4
3	5.2	76	10.2	3.7
4	6.9	42	13.6	4.9
5	8.7	27	17.0	6.1



Flood (RWF)

3DTHSN M L WHST LF 23L RWF 30K

CCT[1]:	3000K
Output lumens:	2330 lms
Input watts[2]:	19.6 W
Efficacy:	118.9 lm/w
CRI:	90 min
CBCP:	2,625 cd
Beam Angle:	59°

CERTIFIED TEST REPORT NO.3DTHL RWF 3.0 930 2300lm

30° Aiming Angle
Horizontal Illuminance on floor

D	C	F.C.	L	W
6	3.5	47	10.1	7.8
8	4.6	27	13.5	10.5
10	5.8	17	16.9	13.1
12	6.9	12	20.3	15.7

30° Aiming Angle
Vertical Illuminance on floor

D	C	F.C.	L	W
2	3.5	82	228.0	4.5
3	5.2	36	342.0	6.8
4	6.9	21	456.0	9.1
5	8.7	13	570.0	11.3

1. Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSLG 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.

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