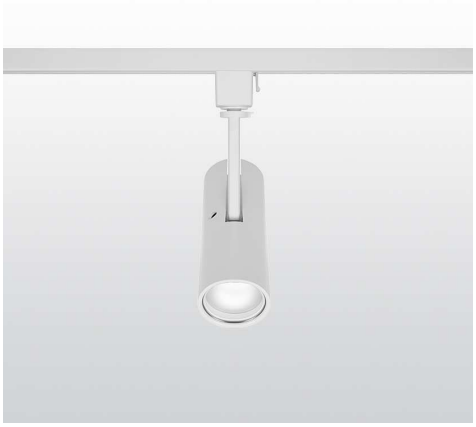
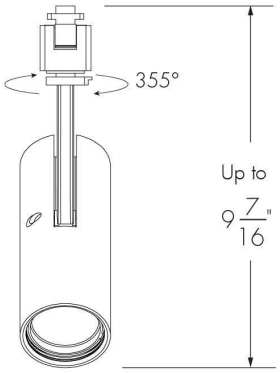
Lumencore Track
M2 Spot

LATSM2

Project Name _____ **Qty** _____

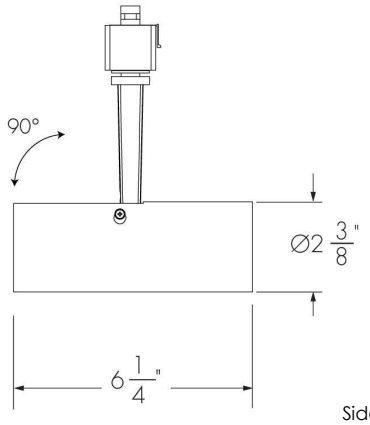
Type _____ **Catalog / Part Number** _____





One circuit model shown

Front view



Side view

Photometric Summary

Based on Narrow Optic (nominal 25°), 4000K, CRI 90+

Nominal output [lm]	Delivered output [lm] [1]	Power (120V) [W]	Efficacy [lm/W]
700	590	7	84
1000	1,192*	11	108
1300	1,375	13	106

[1] Consult website for latest IES files.
*Photometric performance is measured in compliance with IESNA LM-79-08.

Optics

XN - 5° **VN** - 10° **NS** - 15° **N** - 25°

M/MFR - 40° **W/WFR** - 60°

Color and color temperature

2200K 2700K 3000K 3500K 4000K

Control

ON/OFF Phase Dimming

Description

The Lumencore Track M2 Spot is a LED spotlight available in both 1-circuit and 2-circuit configurations. The Lumencore Track M2 Spot offers a wide range of outputs, field-changeable accessories, multiple finishes, and optics, including Extra Narrow Spot (XN 5°) and Very Narrow Spot (VN 10°).

Features

Output (Nominal Lumens)	700 lm, 1000 lm, 1300 lm, 2000 lm
Color and Color Temperature	2200K 2700K 3000K 3500K 4000K
Optics (Nominal Distribution)	Extra narrow spot 5°, Very narrow spot 10°, Narrow spot 15°, Narrow 25°, Medium/Medium faceted reflector 40°, Wide/Wide faceted reflector 60°
On/off switch	Integral on/off switch to simplify maintenance (two circuit track only)
Warranty	5-year limited warranty

Performance

Maximum Delivered Output	Up to 2,067 lm (wide faceted reflector optic 60°, 4000K, CRI 80)
Maximum Delivered Intensity	Up to 29,582 cd (extra narrow spot optic 5°, 4000K, CRI 80)
Efficacy	Up to 118 lm/W (wide faceted reflector optic 60°, 4000K, CRI 80)
Color Consistency	2 SDCM, 3 SDCM (XN optic only)
Color Rendering	CRI 80+ CRI 90+ CRI 95+

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www.lumenpulse.com **www.lumenpulse.com/products/3550**

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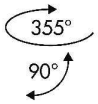
Finishes

CC-Custom color and finish
(Please specify RAL color)

Ajustability



+/- 90° tilt — 355° rotation

Certifications

Lumen Maintenance	L95 55,000 hrs L70 225,000 hrs

Physical

Housing Material	Aluminum
Weight	1.3 lbs
TIR Optics Material	Clear polycarbonate
Reflector Material	Aluminum
Track Adapter Type	One circuit track adapter standard, Two circuit track adapter standard
Track Adapter Color	White adapter, Black adapter
Adjustability	Lockable tilt and rotation, +/- 90° tilt — 355° rotation

Electrical and Control

Voltage	120 volts
Control	On/Off Control, Phase dimming

Environmental

Environment	Dry location (indoor applications only)
Operating Temperature	-4 °F to 104 °F
Ingress Protection Rating	IP20

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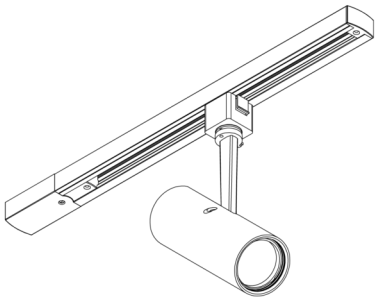
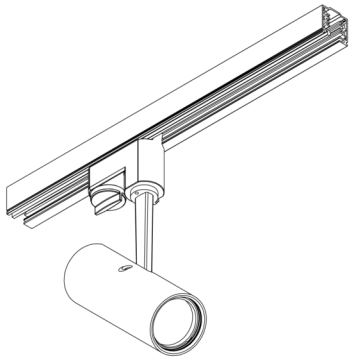
Mounting Options

One Circuit Track Adapter

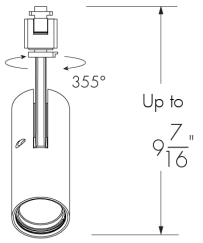


Two Circuit Track Adapter Standard

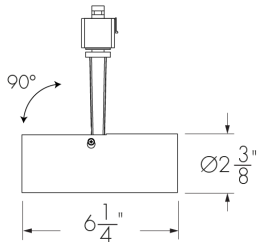


Fixture Dimensions

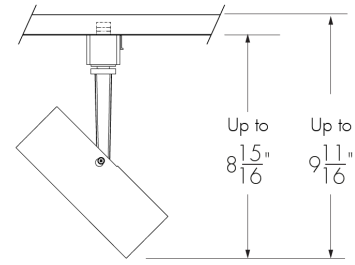
One Circuit Track



Front view

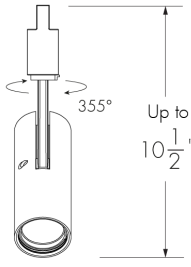


Side view

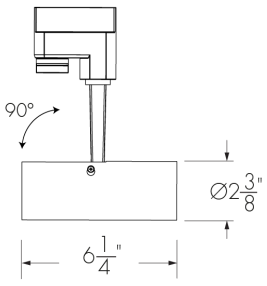


Side view with track

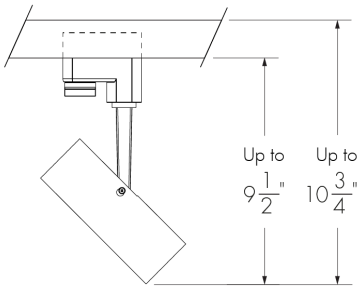
Two Circuit Track



Front view



Side view



Side view with track

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JC - R8

Photometric Information - Color Rendering Options Comparison, 3000K

Color sample	Ra	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
CRI 80+	84	82	90	97	83	82	88	86	63	15	77	83	68	84	98	75
CRI 90+	94	95	98	99	95	94	97	91	80	55	93	97	83	96	99	89
CRI 95+	97	96	97	99	96	96	95	96	97	97	96	95	86	96	98	97
Radiant CRI 80+	84	83	91	96	81	82	89	83	62	15	79	80	69	85	98	76
Radiant CRI 95+	95	95	94	95	98	94	90	94	96	96	89	95	80	94	98	96

Optics

TIR Optic
XN/VN/NS/N

Semi-Specular reflector
M/W

Faceted reflector
MFR/WFR

Control

Refer to website product configurator for exceptions

On/off control
NO - On/off control

Phase dimming
PH - Phase dimming

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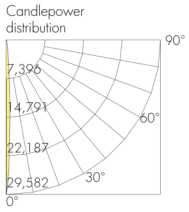
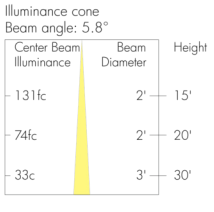
Photometric Information

XN - Extra Narrow Spot (Nominal 5°), 4000K

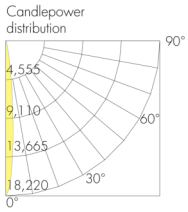
Nominal output [lm]	Power (120V) [W]†		Delivered output [lm]††	
	CR80	CR90	CR80	CR90
700	10.5	10.5	630	504

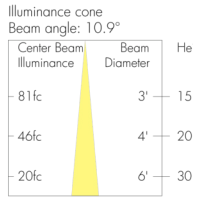




VN - Very Narrow Spot (Nominal 10°), 4000K

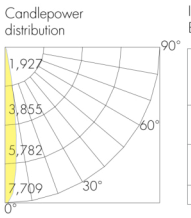
Nominal output [lm]	Power (120V) [W]†		Delivered output [lm]††	
	CR80	CR90	CR80	CR90
700	10.5	11.5	824	742
1000	15	16	1,094	875

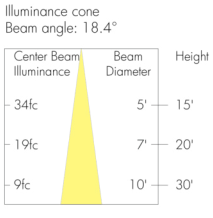




NS - Narrow Spot (Nominal 15°), 4000K

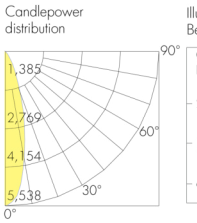
Nominal output [lm]	Power (120V) [W]†			Delivered output [lm]††		
	CR80	CR90	CR95	CR80	CR90	CR95
700	7	7	10	482	482	434
1000	11	11	13	973	973	876
1300	13	13	17	1,122	1,122	1,010

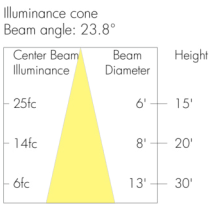




N - Narrow (Nominal 25°), 4000K

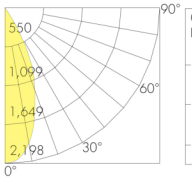
Nominal output [lm]	Power (120V) [W]†			Delivered output [lm]††		
	CR80	CR90	CR95	CR80	CR90	CR95
700	7	7	10	590	590	531
1000	11	11	13	1,192	1,192	1,073
1300	13	13	17	1,375	1,375	1,237

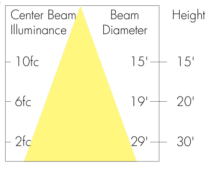




M - Medium (Nominal 40°), 4000K

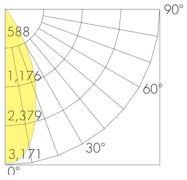
Nominal output [lm]	Power (120V) [W]†			Delivered output [lm]††		
	CR80	CR90	CR95	CR80	CR90	CR95
700	7	7	10	485	485	437
1000	10	10	12	980	980	882
1300	12	12	13	1,130	1,130	1,017
2000	17	17	23	1,650	1,650	1,485





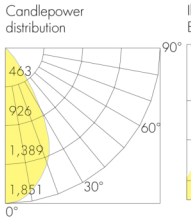
MFR - Medium Faceted Reflector (Nominal 40°), 4000K

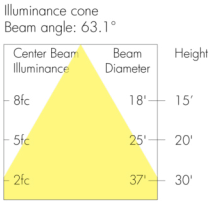
Nominal output [lm]	Power (120V) [W]†			Delivered output [lm]††		
	CR80	CR90	CR95	CR80	CR90	CR95
700	7	7	10	519	519	468
1000	10	10	12	1,049	1,049	944
1300	12	12	13	1,209	1,209	1,088
2000	17	17	23	1,766	1,766	1,589



W - Wide (Nominal 60°), 4000K

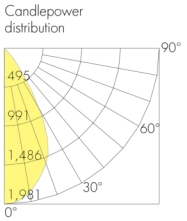
Nominal output [lm]	Power (120V) [W]†			Delivered output [lm]††		
	CR80	CR90	CR95	CR80	CR90	CR95
700	7	7	10	568	568	511
1000	10	10	12	1,148	1,148	1,033
1300	12	12	13	1,324	1,324	1,192
2000	17	17	23	1,932	1,932	1,739





WFR - Wide Faceted Reflector (Nominal 60°), 4000K

Nominal output [lm]	Power (120V) [W]†			Delivered output [lm]††		
	CR80	CR90	CR95	CR80	CR90	CR95
700	7	7	10	608	608	547
1000	10	10	12	1,228	1,228	1,106
1300	12	12	13	1,417	1,417	1,275
2000	17	17	23	2,067	2,067	1,861



†Add 3 watts per fixture when specifying Lumentalk™.
†Delivered wattage: +/- 10% tolerance.
††Consult website for latest IES files. Delivered output: +/- 10% tolerance.
Photometric performance is measured in compliance with IESNA LM-79-08.

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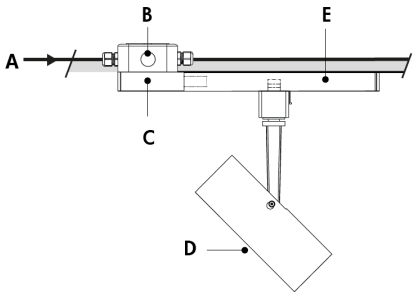
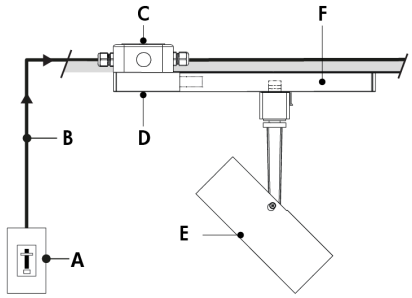
Typical Wiring Diagrams

On/Off Control (NO)



A - Power input to track (120V)
B - Junction box (by others)
C - Live End Feed Track accessory (left)
D - Lumencore Track M2 Spot
E - Lumencore Track Single Circuit System

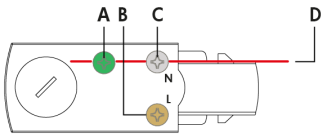
Phase Dimming (PH)



A - Third party Phase dimmer
B - Phase dimmed power circuit (120V)
C - Junction box (by others)
D - Live End Feed Track accessory (left)
E - Lumencore Track M2 Spot
F - Lumencore Track Single Circuit System

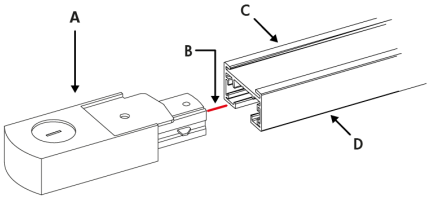
Typical Wiring Details

One Circuit Wiring Detail - Live End Feed (Left)



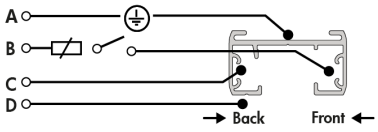
A - Ground
B - Line 1
C - Neutral 1
D - Polarity line

Lumencore Track Single Circuit System and Live End Feed (Left)



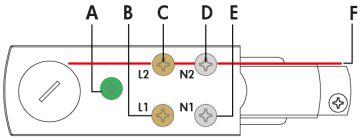
A - Top view live feed (Reflected ceilling plan view)
B - Polarity line
C - Back view
D - Front view

One Circuit Wiring Detail - Track



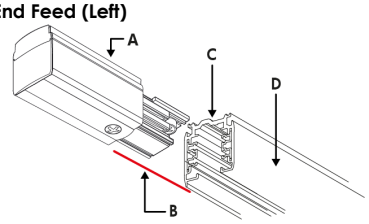
A - Ground
B - Line 1
C - Neutral 1
D - Polarity line

Double Circuit Wiring Detail - Live End Feed (Left)



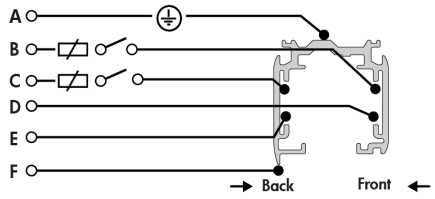
A - Ground
B - Line 1
C - Line 2
D - Neutral 2
E - Neutral 1
F - Polarity line

Lumencore Track Double Circuit System and Live End Feed (Left)



A - Top view live feed (Reflected ceilling plan view)
B - Polarity line
C - Back view
D - Front view

Double Circuit Wiring Detail - Track



A - Ground
B - Line 2
C - Line 1
D - Neutral 2
E - Neutral 1
F - Polarity line

* Line 1 and 2 are reversed for a live end right polarity. Max 2400W per circuit , 4800W total , Max 120V - 60HZ per circuit Max 20AMP per circuit.

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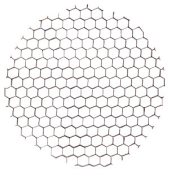
Optical Accessories

SL - Softening Glass Lens

LATSM2-SL

HL - Honeycomb Louver



LATSM2-HL

XLVR - Concentric Ring Louver

LATSM2-XLVR

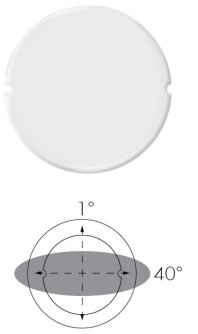
CL - Clear Glass Lens

LATSM2-CL

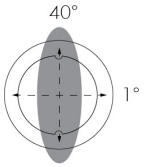
PD – Prismatic Diffuser

LATSM-PD

LSN - Linear Spread Lens Narrow (1° x 40°)



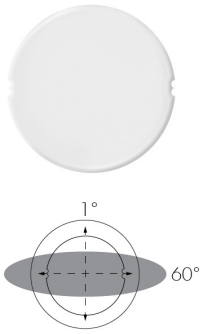
Horizontal Beam Distribution



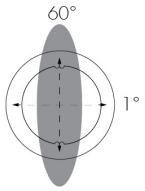
Vertical Beam Distribution

LATSM2-LSN

LSW - Linear Spread Lens Wide (1° x 60°)



Horizontal Beam Distribution



Vertical Beam Distribution

LATSM2-LSW

Maximum one accessory installed at a time.

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How to Order

Housing [1]	Certification	Voltage	Output (Nominal Lumens)	Color and Color Temperature	Color Rendering	Optics (Nominal Distribution)	Finish	Bezel	Interior Bezel Finish
LATSM2 Lumencore Track M2 Spot	**A** UL/cUL	**120** 120 volts	**L07** 700 lm **L10** 1000 lm **L13** 1300 lm **L20** 2000 lm [2]	**22K** 2200K [3] [4] **27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K	**CR80** CRI 80+ **CR90** CRI 90+ **CR95** CRI 95+ [5] **RCR80** Radiant CRI 80+ [4] [6] **RCR95** Radiant CRI 95+ [4] [5] [6]	**XN** Extra narrow spot 5° [7] **VN** Very narrow spot 10° [8] **NS** Narrow spot 15° [9] **N** Narrow 25° [9] **M** Medium 40° **MFR** Medium faceted reflector 40° **W** Wide 60° **WFR** Wide faceted reflector 60°	**MWH** Matte White **MBK** Matte Black **MBR** Matte Brown **MOR** Matte Orange **MGR** Matte Green **MBL** Matte Blue **MSI** Matte Silver **GWH** Glossy White **GBK** Glossy Black **GYL** Glossy Yellow **GLR** Glossy Red **GVI** Glossy Violet **GGR** Glossy Green **GIY** Glossy Ivory **CGY** Concrete Grey **MLG** Metalized Grey **IBR** Italian Brick Red **PWH** Parget White **CC** Custom Color & Finish [10]	**b** Bezel	**MWH** Matte White **MBK** Matte Black **MBR** Matte Brown **MOR** Matte Orange **MGR** Matte Green **MBL** Matte Blue **MSI** Matte Silver **GWH** Glossy White **GBK** Glossy Black **GYL** Glossy Yellow **GLR** Glossy Red **GVI** Glossy Violet **GGR** Glossy Green **GIY** Glossy Ivory **CGY** Concrete Grey **MLG** Metalized Grey **IBR** Italian Brick Red **PWH** Parget White **CC** Custom Color & Finish [10]

Notes:

1. Refer to website product configurator for all exceptions.
2. Available for M, MFR, W and WFR optics only.
3. Available for CR80 only.
4. Not available for XN and VN optics.
5. CR95 and RCR95 available up to 1300 lumens for NS and N optics, and up to 2000 lumens for M, MFR, W and WFR optics.
6. Radiant CRI options available for 3000K only.
7. Available for 700 lumens when combined with CR80 or CR90 color rendering options only.
8. Available for 700 and 1000 lumens when combined with CR80 or CR90 color rendering options only.
9. Available up to 1300 lumens.
10. Longer lead times can be expected for custom RAL color finishes.

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How to Order

Track Adapter Type	Track Adapter Color	Control	Accessories [13] [14]
1C One circuit track adapter standard [11] **2C** Two circuit track adapter standard	**AWH** White adapter **ABK** Black adapter	**NO** On/Off Control **PH** Phase dimming [12]	**NA** No accessory **SL** Softening Glass Lens **HL** Honeycomb Louver **XLVR** Concentric Ring Louver [15] **CL** Clear Glass Lens **PD** Prismatic Diffuser **LSN** Linear spread lens narrow (1° x 40°) [16] **LSW** Linear spread lens wide (1° x 60°) [16]

Notes:

11. Monopoint accessory available. Refer to Single Circuit Track specification sheet for details.
12. Phase dimming available for 700 lumens when combined with XN or VN optics and 1000 lumens when combined with VN optic. Phase dimming available for 1000, 1300 and 2000 lumens when combined with NS, N, M, MFR, W or WFR optics only.
13. Maximum one accessory per fixture.
14. Accessories specified in the fixture code are factory installed but can also be changed in the field. Refer to installation instructions for details. To order accessories separately, refer to the Optical Accessories section of the specification sheet.
15. Available for XN, VN and NS optics only.
16. Available for XN, VN, NS, N and MFR optics only.

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