

SPEQ-M

Medium Cylinder Track Head



Features

The SPEQ Series fixtures are built to last with replaceable LED drivers and LEDs, making them durable and **sustainable choices** for your lighting needs. Designed to let the interior design and not the lighting take center stage, the SPEQ track head from Amerlux balances clean, minimal aesthetic design with industry leading optical performance. The fixture has no visible heat sink or venting and has snoot perfectly matched to provide excellent glare control while maintaining the clean fixture lines. The integral driver is fully featured with low end dimming and full 2.5 KV surge protection (not a lamp driver!) Perfect for Galleries, Retail and Commercial interiors SPEQ uses high end optical designs to ensure your space is lit perfectly and efficiently.

Product Overview

Type:	Track Accent & Display
Wattage:	18W, 21W, 26W
Lumen Output:	2,516 (26W, Spot optic); 96.8 lm/W
CBCP:	19,790 (26W, Spot optic)
Color Temp:	2700K, 3000K, 3500K, 4000K
CRI:	83 typ. & 90+ typ. CrispWhite & 3K Class A LED's available
Dimming:	TRIAC & ELV (120V) - 5% Dim
Weight:	2.5 lbs (without accessories)

PROJECT:

TYPE:

Fixture Summary *(see following pages for more information)*

Performance Chart

Nominal Watts	Delivered Lumens	LPW	CBCP	Color Temp
18*	1,215	68.6	26,813	3000K-83
21	2029	96.6	15,960	3000K-83
26	2516	96.8	19,790	3000K-83

Data is based on 3000K-83 IES files available on website.

*Data is based on Spot optic, except for 18W. *18W is VNSP only.*

For other beam spreads performance see pages 5-7.

Electrical Data

	18W		21W		26W	
	System Watts	Amps	System Watts	Amps	System Watts	Amps
120V	18	0.15	21.4	0.18	26	0.22
277V	N/A	N/A	21.8	0.08	26	0.09

Electronic constant current LED driver



SPEQ-M

Medium Cylinder Track Head



PROJECT:

TYPE:

Ordering Information

SPEQ-M-A17



- | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1 <u>Model</u>
SPEQ-M-A17†</p> <p>2 <u>Wattage</u>
18 (VNSP only)
21
26</p> <p>3 <u>Finish</u>
WT - white texture
BT - black texture
ST - silver texture
<i>Other finishes, consult factory</i></p> <p>4 <u>Mounting</u>
TN1 - Global GES/H-Style, 1 circuit, 120V
TEK - Global TEK 2 circuit/2 neutral, 120V
TN3 - Global XTS 3 circuit, 120V
TN2 - Global HTEK 2 circuit/2 neutral, 277V
CT - J-Style, 1 or 2 circuit, 120V
LOL - L-Style, 1 circuit, 120V
B* - busway, 120V/277V
C - canopy, 120V/277V
CCL2-SCP - C-clamp, black, with straight cord**, 6', 120V
CCL2-CCP - C-clamp, black, with coil cord**, 5', 120V
Notes: *Black busway adapter used for ST finish
**Black cord used for BT & ST finish
White cord used for WT finish</p> <p>5 <u>Voltage</u>
120
277 (not available for 18W) (not available with LE/TE dimming driver)</p> | <p>6 <u>Beam Spreads</u>
VNSP - very narrow spot 8° (18W only)
SP - spot 14°
VNF - very narrow flood 16°
NF - narrow flood 22°
FL - flood 35°
WF - wide flood 40°
LS - linear spread lens, 54° x 16° (reduces # of accessories by 1, if applicable)</p> <p>7 <u>Color Temp</u>
83 CRI: 90+ CRI:
27 - 2700K-83 229 - 2200K-90+ CRISP - CrispWhite
30 - 3000K-83 279 - 2700K-90+ (not available for
35 - 3500K-83 309 - 3000K-90+ VNSP)
40 - 4000K-83 359 - 3500K-90+ 3CLA - 3K Class A
409 - 4000K-90+</p> <p>8 <u>Driver</u>
<u>SPEQ-M 18W:</u>
LE/TE - TRIAC/ELV dimming 120V only

<u>SPEQ-M 21W & 26W:</u>
LE/TE - TRIAC/ELV dimming, 120V only
ND - non-dimming, 277V only</p> <p>9 <u>Options/Accessories</u>
(standard front door accepts 2 accessories)
SN - snoot (accepts 2 accessories or cross blade + 1 accessory)
HEX - hexcell louver
SOL - solite beam softening lens
CB - cross blade (requires snoot)</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



Note: See page 8 for Energy Star approved model numbers.

† The "A" refers to the sequential revision in a year and "XX" refers to the year of update. Updates coincide with improved performance while not changing the overall fixture aesthetic and are reflected in the published performance data. Please contact your Amerlux representative for explanations of changes.

SPEQ-M

Medium Cylinder Track Head



PROJECT:

TYPE:

Specifications

Application

Retail, Museum, Gallery, Hospitality and Commercial accent and display lighting

Construction

Complete die-cast aluminum construction
No exposed wiring
Unique magnetic dual lock front door

Optical

Patented Amerlux designed TIR optical system.
0-90° lockable tilt, 360° rotation
Tilt indicating marks for common tilt positioning
Beam Spreads: Very Narrow Spot 8°, Spot 14°
Very Narrow Flood 16°, Narrow Flood 22°, Flood 35°
Wide Flood 40°; Linear Spread Lens 54° x 16°

LED

Color Temp Options:

2200K, 2700K, 3000K, 3500K, 4000K

CRI: 83 typ. (2700K, 3000K, 3500K, 4000K)

90+ typ. (2200K, 2700K, 3000K, 3500K, 4000K)

CrispWhite* and Class A** 3000K LEDs available

R9 Values: 11 (83 CRI), 55 (90+ CRI)

Binning: 3-step MacAdam ellipse (SDCM)

Life: 50,000+ hrs, > 70% of initial lumens at 50,000 hrs

**CrispWhite: CrispWhite Technology delivers the warmth of colors expected from a high 90 CRI solution but also creates the natural crisp white color similar to CMH sources. It creates impactful lighting by revealing the richest whites and vibrant colors that pop.*

***Class A LED: Class A LED's have a CRI > 80 and a GAI > 80. CRI defines color "Naturalness" and GAI defines color "Saturation." Both being high delivers rich colors and pure whites.*

Electrical

Wattage: 18, 21, 26

Electronic constant current LED driver, 120VAC input only

Non-dimming driver, 277VAC only

This product complies with IEEE C62.41 for surge endurance up to 2.5KV. Amerlux® recommends using additional surge protection with this unit (supplied by others), surge and over voltage damage is not covered under warranty.

Driver

LE/TE - Leading Edge (Triac, Forward Phase) or Trailing Edge (ELV, Reverse Phase) autosensing driver dims down to 5% on most dimming systems. 120V only

ND - non-dimming, 277V only (21W & 26W only)

All drivers rated for A/C voltage input +/- 10%

See dimming pages for more information.

Finish

Powder coat paint.

Standard colors: White Texture, Black Texture, Silver Texture

Consult factory for custom RAL powder coat finishes

Mounting

Track, canopy, c-clamp and busway.

Note: Recommend track fixture mounting to horizontal surface mounted/pendant mounted track only

Certifications

Approved to UL standards as tested by CSA.

Intended for indoor use only.

Warranty

5 year limited warranty

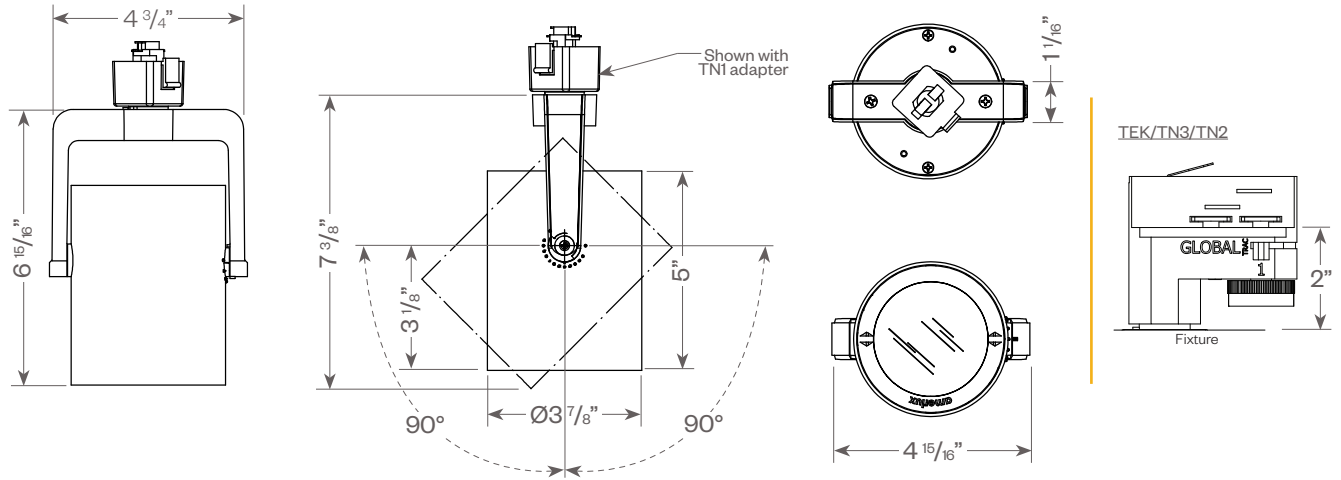
SPEQ-M

Medium Cylinder Track Head

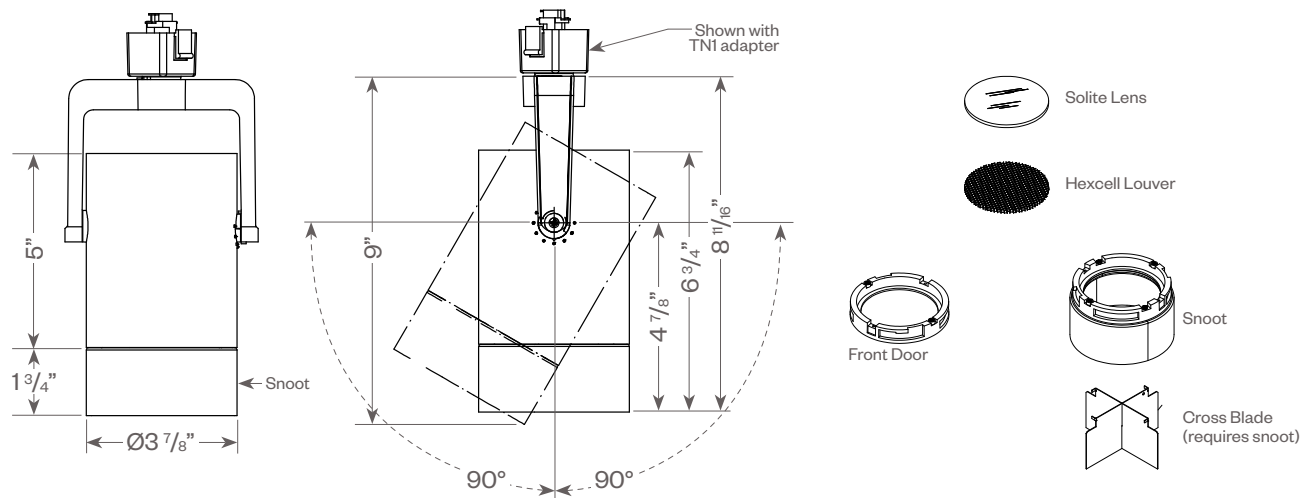
PROJECT:

TYPE:

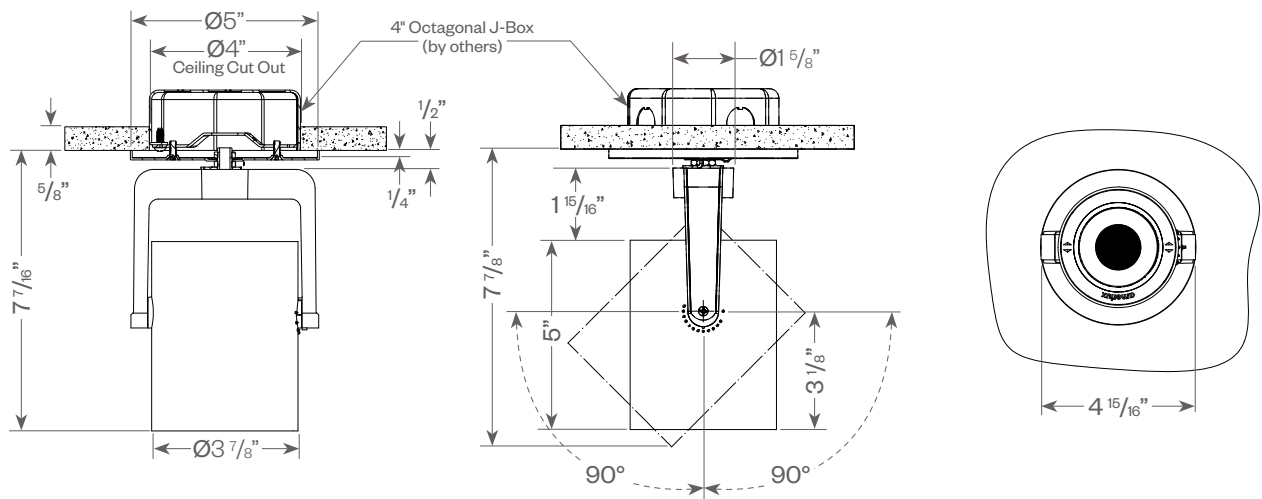
SPEQ-M



SPEQ-M SNOOT & ACCESSORIES



SPEQ-M CANOPY MOUNT



SPEQ-M

Medium Cylinder Track Head



PROJECT:

TYPE:

FIXTURE DATA: (Complete photometric data (.ies format) available upon request)

MULTIPLYING FACTORS: (Multiplying Factor is based on 3000K-83 120V IES file on website)

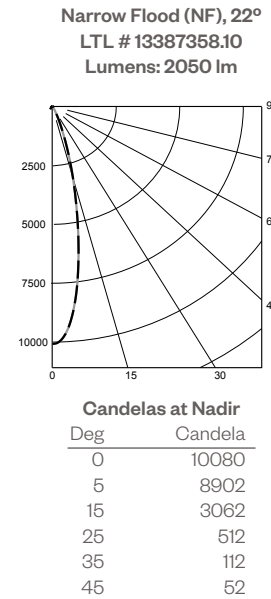
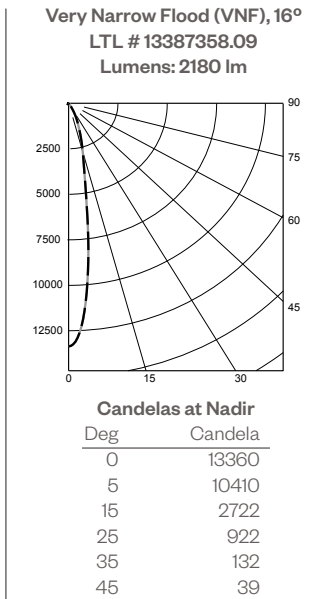
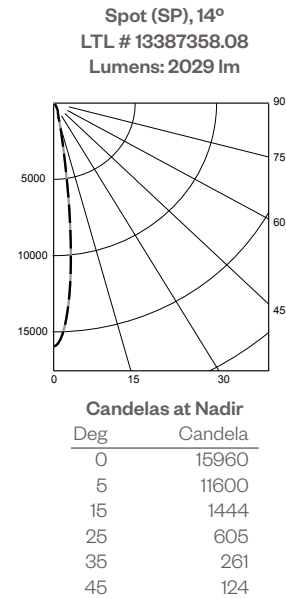
Wattage:	21W	26W
Factor:	1.0	1.24

CCT:	2700K-83	3000K-83	3500K-83	4000K-83
Factor:	0.96	1.0	1.02	1.04

CCT:	2200K-90+*	2700K-90+	3000K-90+	3500K-90+	4000K-90+	CRISP*	3CLA
Factor:	0.71	0.80	0.83	0.87	0.90	0.65	0.75

* Not available for use with 18W

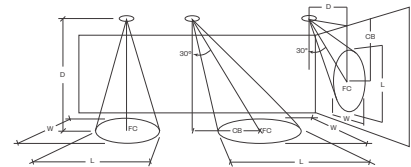
21W LED, 3000K (For FL & WF beam options see pg 6; For VNSP (18W only) beam option see pg 6)



APPLICATION DATA:

Notes and Definitions:

- Beam spread is to 50% center beam candlepower (CBCP).
- D=Distance to floor or wall.
- FC=Footcandles on floor or wall at center beam aiming location.
- L=Effective Visual Beam length in feet (50% of maximum footcandle level).
- W=Effective Visual Beam width in feet (50% of maximum footcandle level).
- CB=Distance across or down to center beam location.



	0° Aiming Angle Horizontal Footcandles				30° Aiming Angle Horizontal Footcandles					30° Aiming Angle Vertical Footcandles					60° Aiming Angle Vertical Footcandles				
	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
SPOT	5.0'	638	1.2	1.2	5.0'	411	1.5	1.3	3.0	3.0'	240	2.8	1.3	5.0	3.0'	865	1.2	1.1	2.0
	7.5'	284	1.8	1.8	7.5'	184	2.4	2.1	4.0	4.0'	144	3.4	1.6	6.0	4.0'	616	1.5	1.1	2.0
	10.0'	160	2.6	2.6	10.0'	102	3.3	2.9	6.0	5.0'	91	4.2	2.5	8.0	5.0'	399	1.7	1.4	3.0
	12.5'	103	3.1	3.1	12.5'	68	4.0	3.5	7.0	6.0'	64	5.1	2.8	9.0	6.0'	274	2.1	1.5	3.0
VERY NARROW FLOOD	5.0'	535	1.4	1.4	5.0'	345	2.0	1.6	3.0	3.0'	202	3.4	1.6	5.0	3.0'	753	1.6	1.2	2.0
	7.5'	238	2.2	2.2	7.5'	157	2.9	2.6	4.0	4.0'	125	4.1	2.1	6.0	4.0'	534	1.7	1.3	2.0
	10.0'	134	3.0	3.0	10.0'	85	4.0	3.4	6.0	5.0'	77	5.3	2.9	7.0	5.0'	336	2.1	1.6	3.0
	12.5'	86	3.6	3.6	12.5'	57	4.7	4.0	7.0	6.0'	56	6.3	3.2	9.0	6.0'	238	2.4	1.9	3.0
NARROW FLOOD	5.0'	404	1.9	1.9	5.0'	261	2.6	2.3	3.0	3.0'	190	3.3	1.9	4.0	3.0'	608	2.0	1.4	2.0
	7.5'	180	3.0	3.0	7.5'	122	3.6	3.3	4.0	4.0'	103	4.5	2.9	5.0	4.0'	428	2.0	1.6	2.0
	10.0'	101	3.9	3.9	10.0'	68	4.9	4.3	5.0	5.0'	68	5.5	3.4	7.0	5.0'	255	2.6	2.3	3.0
	12.5'	65	4.9	4.9	12.5'	44	6.2	5.5	7.0	6.0'	48	6.7	4.0	8.0	6.0'	191	3.0	2.7	3.0

SPEQ-M

Medium Cylinder Track Head



PROJECT:

TYPE:

FIXTURE DATA: (Complete photometric data (.ies format) available upon request)

MULTIPLYING FACTORS: (Multiplying Factor is based on 3000K-83 120V IES file on website)

Wattage:	21W	26W
Factor:	1.0	1.24

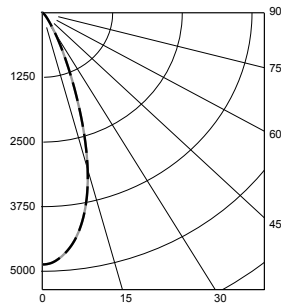
CCT:	2700K-83	3000K-83	3500K-83	4000K-83
Factor:	0.96	1.0	1.02	1.04

CCT:	2200K-90+*	2700K-90+	3000K-90+	3500K-90+	4000K-90+	CRISP*	3CLA
Factor:	0.71	0.80	0.83	0.87	0.90	0.65	0.75

* Not available for use with 18W

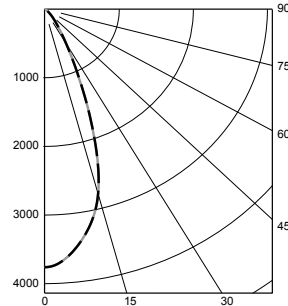
21W LED, 3000K (For SP, VNF & NF beam options see pg 5)

Flood (FL), 35°
LTL # 13387358.11
Lumens: 2014 lm



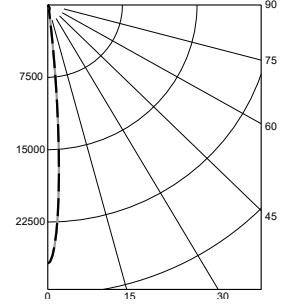
Candelas at Nadir	
Deg	Candela
0	4869
5	4670
15	3130
25	962
35	228
45	78

Wide Flood (WF), 40°
LTL # 13387358.12
Lumens: 1991 lm



Candelas at Nadir	
Deg	Candela
0	3761
5	3617
15	2780
25	1078
35	331
45	123

~ ~18W ONLY ~ ~
Very Narrow Spot (VNSP), 8°
LTL # 11756217.13
Lumens: 1,215 lm

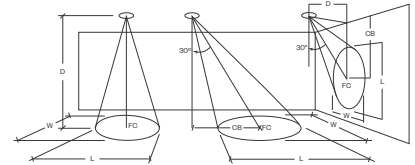


Candelas at Nadir	
Deg	Candela
0	26810
5	10210
15	536
25	406
35	152
45	64

APPLICATION DATA:

Notes and Definitions:

- Beam spread is to 50% center beam candlepower (CBCP).
- D=Distance to floor or wall.
- FC=Footcandles on floor or wall at center beam aiming location.
- L=Effective Visual Beam length in feet (50% of maximum footcandle level).
- W=Effective Visual Beam width in feet (50% of maximum footcandle level).
- CB=Distance across or down to center beam location.



	0° Aiming Angle Horizontal Footcandles				30° Aiming Angle Horizontal Footcandles					30° Aiming Angle Vertical Footcandles					60° Aiming Angle Vertical Footcandles				
	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
FLOOD	5.0'	195	3.0	3.0	5.0'	139	3.5	3.2	2.0	3.0'	124	3.3	2.7	3.0	3.0'	368	2.2	1.8	1.0
	7.5'	87	4.5	4.5	7.5'	62	5.2	4.9	3.0	4.0'	70	4.5	3.4	4.0	4.0'	216	2.9	2.7	2.0
	10.0'	49	5.9	5.9	10.0'	35	7.0	6.5	4.0	5.0'	45	5.6	4.4	5.0	5.0'	141	3.6	3.1	2.0
	12.5'	32	7.4	7.4	12.5'	23	8.8	8.1	5.0	6.0'	31	6.8	5.3	6.0	6.0'	96	4.3	4.0	3.0
WIDE FLOOD	5.0'	151	3.3	3.3	5.0'	110	3.8	3.5	2.0	3.0'	110	3.2	2.7	3.0	3.0'	303	2.3	2.0	1.0
	7.5'	67	5.0	5.0	7.5'	49	5.6	5.4	3.0	4.0'	62	4.3	3.6	4.0	4.0'	167	3.2	3.0	2.0
	10.0'	38	6.7	6.7	10.0'	28	7.6	7.4	4.0	5.0'	40	5.4	4.7	5.0	5.0'	111	3.9	3.5	2.0
	12.5'	24	8.4	8.4	12.5'	18	9.6	9.2	5.0	6.0'	28	6.6	5.5	6.0	6.0'	76	4.7	4.5	2.0
18W ONLY VERY NARROW SPOT	5.0'	1065	1.0	1.0	5.0'	764	1.0	1.0	3.0	3.0'	437	1.5	1.0	5.0	3.0'	1155	1.0	1.0	2.0
	7.5'	475	1.1	1.1	7.5'	289	1.8	1.3	4.0	4.0'	220	2.4	1.1	7.0	4.0'	856	1.1	1.0	2.0
	10.0'	267	1.4	1.4	10.0'	177	2.1	1.6	6.0	5.0'	149	2.7	1.2	8.0	5.0'	729	1.0	1.0	3.0
	12.5'	171	1.8	1.8	12.5'	116	2.4	2.2	7.0	6.0'	104	3.3	1.6	10.0	6.0'	372	1.8	1.1	3.0

SPEQ-M

Medium Cylinder Track Head



SPEQ Medium Cylinder Track Head

PROJECT:

TYPE:

FIXTURE DATA: (Complete photometric data (.ies format) available upon request)

MULTIPLYING FACTORS: (Multiplying Factor is based on 3000K-83 120V IES file on website)

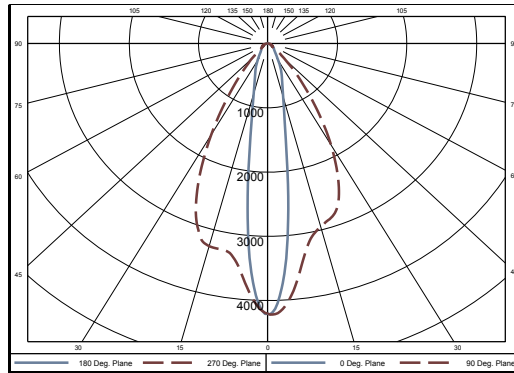
Wattage:	21W	26W
Factor:	1.0	1.24

CCT:	2700K-83	3000K-83	3500K-83	4000K-83
Factor:	0.96	1.0	1.02	1.04

CCT:	2200K-90+*	2700K-90+	3000K-90+	3500K-90+	4000K-90+	CRISP*	3CLA
Factor:	0.71	0.80	0.83	0.87	0.90	0.65	0.75

* Not available for use with 18W

Linear Spread (LS), 54° x 16°
LTL # 13387358.13
Lumens: 1614 lm



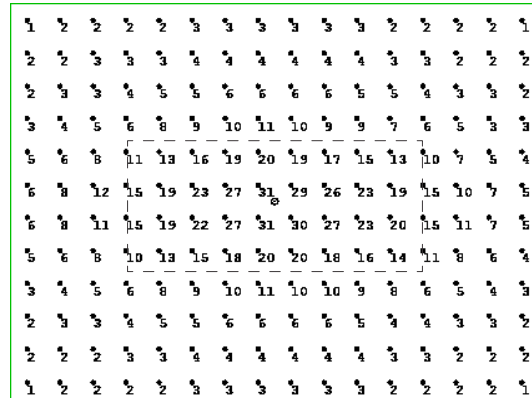
ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	1335	82.7
0-60	1538	95.3
0-90	1614	100.0
90-180	0	0.0

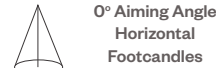
Luminaire Efficacy = 77.9 lm/W

APPLICATION DATA:

10' mounting height

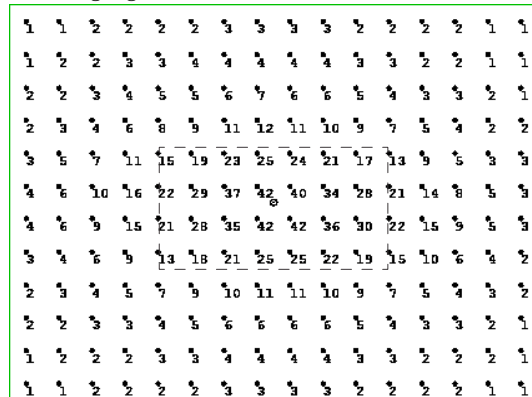


Footcandles on Floor

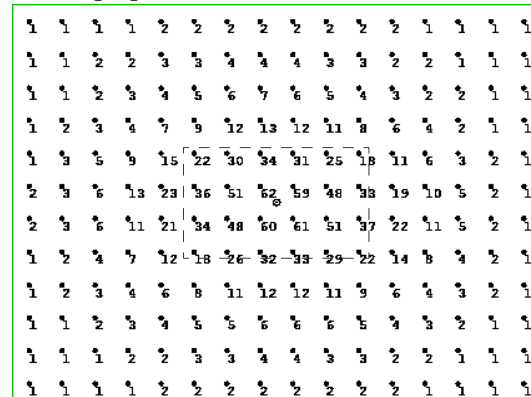


[- - -] = Approximate 50% visual beam

8' mounting height



6' mounting height



SPEQ-M

Medium Cylinder Track Head



PROJECT:

TYPE:

DIMMING COMPATIBILITY:

Amerlux® Speq fixtures are compatible with all major dimming protocols prevalent in the United States. Please see below for general compatibilities and wiring diagrams. Amerlux recommends testing your unique dimming configuration as the exact full configuration (Dimmer, Fixture Quantity, Voltage, etc) may affect dimming performance.

--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---

TRIAC (Forward Phase) DIMMING (Standard)

Utilizes standard TRIAC dimmers that are in wide use in installations across the US.

Notes:

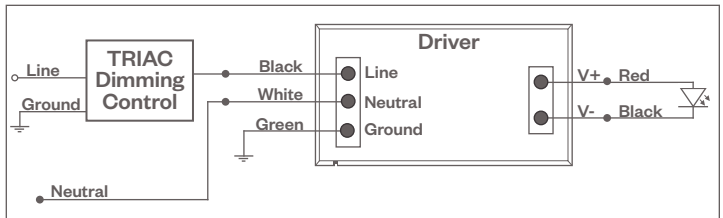
- 120VAC only
- Dims down to 5% light output (most cases)
- Consult Dimming manufacturer for installation instructions - DO NOT SHARE NEUTRALS!
- Must meet dimmer Minimum Load Requirements per dimming manufacturer

Compatible Dimmers:

Wall Box (TRIAC 120VAC)

- Lutron "Diva"
- Lutron "Nova-T"
- Lutron "Maestro"
- Lutron "Skylark"

TRIAC Wiring Diagram



ELV - Electronic Low Voltage (Reverse Phase) DIMMING (Standard)

Utilizes specialized "ELV" dimmers.

Notes:

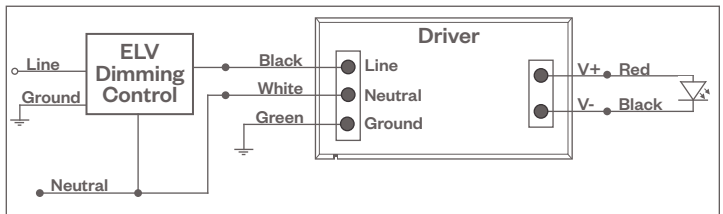
- 120VAC only
- Dims down to 5% light output (most cases)
- Consult Dimming manufacturer for installation instructions - DO NOT SHARE NEUTRALS!
- Must meet dimmer Minimum Load Requirements per dimming manufacturer

Compatible Dimmers:

Wall Box (ELV 120VAC)

- | | |
|------------------|--------------------|
| Lutron "Diva" | Leviton "Surslide" |
| Lutron "Nova-T" | Leviton "Vizio" |
| Lutron "Maestro" | |
| Lutron "Skylark" | |

ELV Wiring Diagram



PROJECT:

TYPE:

ENERGY STAR APPROVED MODEL NUMBERS:



Certificate of Conformance

Energy Efficiency Certification

UL conducted an independent evaluation on behalf of:

Amerlux Global Lighting Solutions
178 Bauer Dr., Oakland, NJ 07436

for the following products: This product meets all of the necessary qualifications pursuant to:

Directional Luminaires ENERGY STAR®: Program Requirements For Luminaires, Version 2.0

Brand: Amerlux

Model: See Appendix A

2018-02-05

Certification Date

N/A

Certification Revision Date

David P. [Signature]

Issued by

11948772

UL Product Number

00-VS-F0419, Version 6.0. This is to certify that representative samples of the Certified Product(s) listed above have been investigated by UL to the Standard(s) indicated on this certificate, in accordance with the UL Global Services Agreement and the EEC Terms & Conditions ("Agreement"). The Certificate Holder is entitled to use the UL Energy Verified Mark for the Certified Product(s) listed on the certificate and manufactured at the production site(s) covered by the UL Test Report, in accordance with the terms of the Agreement. This Certificate shall remain valid unless a Standard Identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.

Appendix A

Model Name	Model Number	Family Model(s) - Additional Model Number
SPEQ-M	SPEQ-M-A17-26-**-***-120-***-309-LE/TE	SPEQ-M-A17-26-**-***-120-***-359-LE/TE
		SPEQ-M-A17-26-**-***-120-***-409-LE/TE
		SPEQ-M-A17-26-**-***-120-***-27-LE/TE
		SPEQ-M-A17-26-**-***-120-***-30-LE/TE
		SPEQ-M-A17-26-**-***-120-***-35-LE/TE
		SPEQ-M-A17-26-**-***-120-***-40-LE/TE
		SPEQ-M-A17-26-**-***-120-***-CRISP-LE/TE
SPEQ-M	SPEQ-M-A17-21-**-***-120-***-309-LE/TE	SPEQ-M-A17-21-**-***-120-***-359-LE/TE
		SPEQ-M-A17-21-**-***-120-***-409-LE/TE
		SPEQ-M-A17-21-**-***-120-***-27-LE/TE
		SPEQ-M-A17-21-**-***-120-***-30-LE/TE
		SPEQ-M-A17-21-**-***-120-***-35-LE/TE
		SPEQ-M-A17-21-**-***-120-***-40-LE/TE
		SPEQ-M-A17-21-**-***-120-***-359-LE/TE