

# SPEQ-S

## Small Cylinder Track Head



PROJECT:

TYPE:

### 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.



SPEQ-S

### Product Overview

Type: Track Accent & Display  
Wattage: 9W, 15W  
Color Temp: 2200K, 2700K, 3000K, 3500K, 4000K  
CRI: 83 typ. (2700K, 3000K, 3500K, 4000K)  
90+ typ. (2200K, 2700K, 3000K, 3500K, 4000K)  
CrispWhite & 3K Class A LED's available  
Dimming: TRIAC & ELV, 5% Dim, 120VAC  
Weight: 1.5 lbs (without accessories)

### Certifications



### Fixture Summary

#### Performance Data

Watts	Delivered Lumens	LPW	CBCP	Color Temp-CRI
9	847	94.1	6360	3000K-83
15	1411	98.1	10,600	3000K-83

Data is based on 3000K-83 120V IES files available on website.  
Data is based on Spot optic. See pg 5-7 for other beam spreads.

#### Electrical Data

Voltage	9W		15W	
	System Watts	Amps	System Watts	Amps
120V	9	0.08	15	0.13

Electronic constant current LED driver.

# SPEQ-S

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<b>PROJECT:</b>	<b>TYPE:</b>
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### Ordering Information



1	Model	2	Wattage	3	Finish
	SPEQ-S-A17		9 15		<b>WT</b> white texture <b>BT</b> black texture <b>ST</b> silver texture <i>Other finishes, consult factory</i>

4	Mounting	5	Voltage	6	Beam Spreads
	<b>TN1</b> Global GES /H-Style, 1 circuit, 120V <b>TEK</b> Global TEK 2 circuit/ 2 neutral, 120V <b>TN3</b> Global XTS 3 circuit, 120V <b>CT</b> J-Style 1 or 2 circuit, 120V <b>LOL</b> L-Style 1 circuit, 120V <b>C</b> canopy, 120V <b>CCL2-SCP</b> C-clamp, black, with straight cord*, 6' 120V <b>CCL2-CCP</b> C-clamp, black, with coil cord*, 5' 120V <i>Notes: * Black cord used for BT &amp; ST finish. White cord used for WT finish.</i>		120		<b>SP</b> spot, 17° <b>NF</b> narrow flood, 22° <b>MFL</b> medium flood, 25° <b>FL</b> flood, 31° <b>WF</b> wide flood, 40° <b>VWF</b> very wide flood, 71° <b>LS</b> linear spread lens, 63° x 22°

7	Color Temp	8	Driver	9	Options/Accessories
	<u>83 CRI</u> <u>90+ CRI</u> <b>27</b> 2700K-83 <b>229</b> 2200K-90+ <b>CRISP</b> CrispWhite <b>30</b> 3000K-83 <b>279</b> 2700K-90+ <b>3CLA</b> 3K Class A <b>35</b> 3500K-83 <b>309</b> 3000K-90+ <b>40</b> 4000K-83 <b>359</b> 3500K-90+ <b>409</b> 4000K-90+		LE/TE TRIAC/ELV dimming, 120V only		<i>(standard front door accepts up to 2 accessories)</i> <b>SN</b> snoot <i>(accepts up to 2 accessories)</i> <b>HEX</b> hexcell louver <b>SOL</b> solite beam softening lens <b>CB</b> cross blade <i>(requires snoot)</i>

# SPEQ-S

## Small Cylinder Track Head



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### 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

Amerlux Designed TIR optical system  
0-90° tilt, 360° rotation  
Tilt indicating marks for common tilt positioning  
**Beam Spreads:** Spot 17°, Narrow Flood 22°, Medium Flood 25°, Flood 31°, Wide Flood 40°, Very Wide Flood 71°, Linear Spread Lens 63° x 22°

#### 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 that is pleasing to the eye. It creates the most impactful lighting ever available, 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:** 9W, 15W

Electronic constant current LED driver, 120VAC input

***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.

Driver rated for A/C voltage input +/- 10%

See dimming page 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 and c-clamp.

**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-S

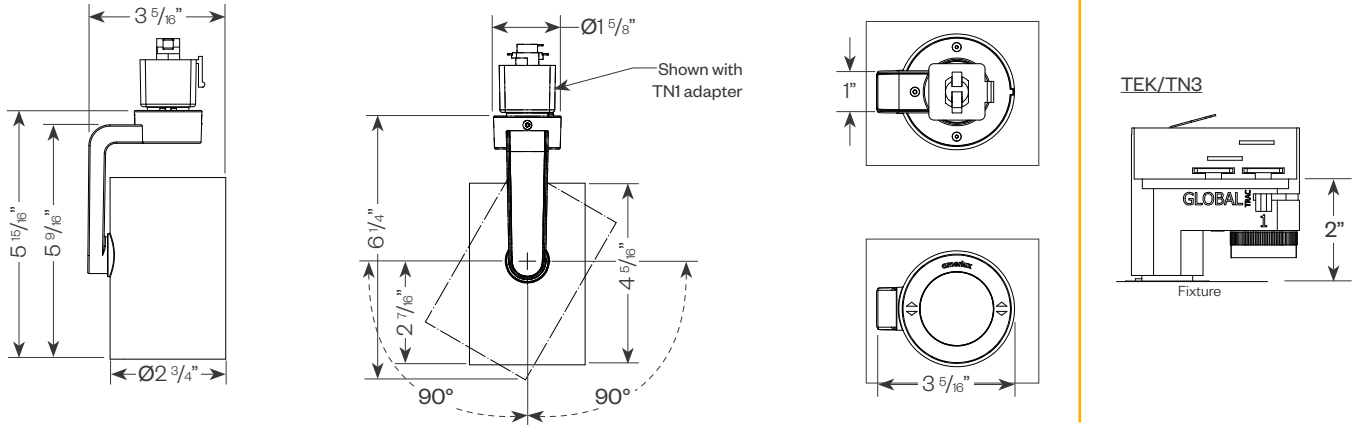
Small Cylinder Track Head



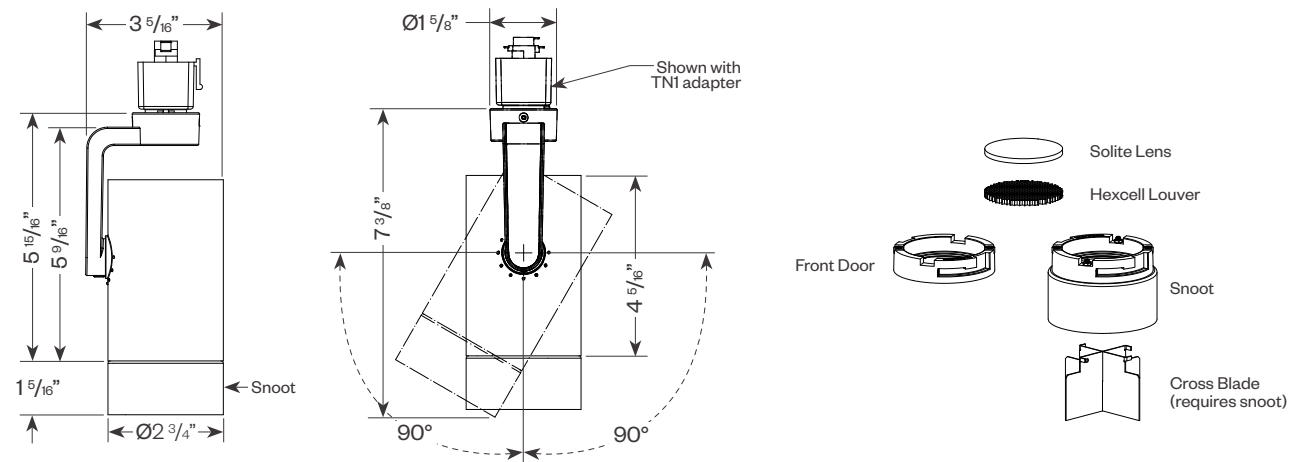
PROJECT: \_\_\_\_\_ TYPE: \_\_\_\_\_

## Product Details

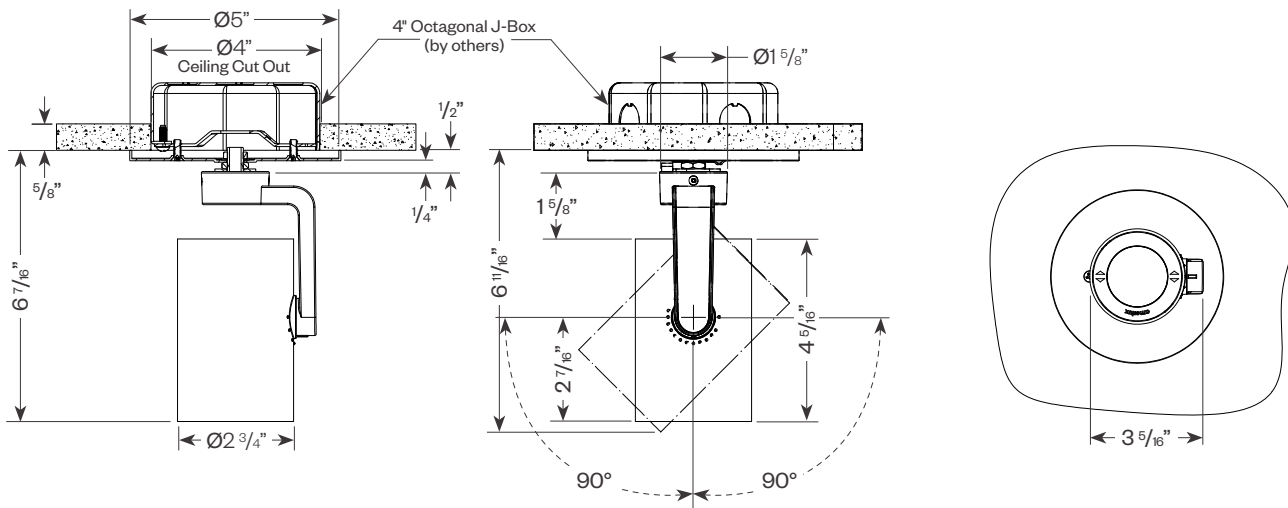
### SPEQ-S



### SPEQ-S Snoot & Accessories



### SPEQ-S Canopy Mount



# SPEQ-S

## Small Cylinder Track Head



PROJECT:

TYPE:

### Performance Data

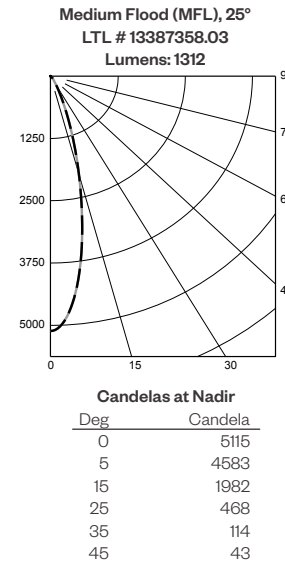
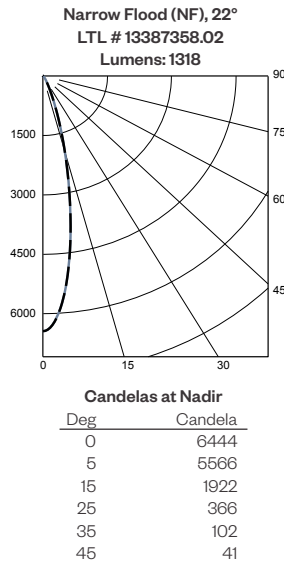
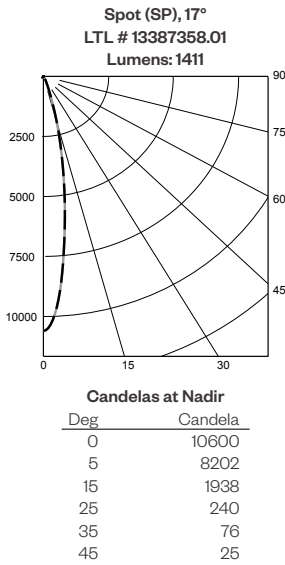
Multiplying Factors: (Multiplying Factor is based on 3000K-83 120V IES file on website)

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

Wattage:	9W	15W
Factor:	0.60	1.0

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

15W LED, 3000K (For FL, WF & VWF beam options see pg 6)



### Application Data

**Notes and Definitions:**

Beam spread is to 50% center beam candlepower (CBCP).

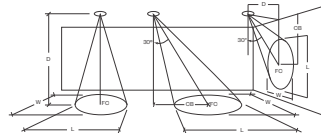
D=Distance to floor or wall.

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'	424	1.5	1.5		5.0'	273	2.0	1.7	3.0	3.0'	161	3.3	1.7	4.0	3.0'	591	1.7	1.2	2.0
	7.5'	189	2.4	2.4		7.5'	123	3.0	2.7	4.0	4.0'	98	4.0	2.3	6.0	4.0'	419	1.7	1.4	2.0
	10.0'	106	3.1	3.1		10.0'	67	4.1	3.6	6.0	5.0'	61	5.1	3.0	7.0	5.0'	266	2.2	1.7	3.0
	12.5'	68	3.8	3.8		12.5'	45	5.0	4.3	7.0	6.0'	44	6.2	3.4	9.0	6.0'	187	2.5	2.1	3.0
NARROW FLOOD	5.0'	258	1.9	1.9		5.0'	166	2.5	2.2	3.0	3.0'	118	3.3	1.9	4.0	3.0'	383	2.0	1.3	2.0
	7.5'	115	2.9	2.9		7.5'	77	3.6	3.3	4.0	4.0'	64	4.6	2.8	6.0	4.0'	270	1.9	1.6	2.0
	10.0'	65	3.8	3.8		10.0'	43	4.9	4.3	5.0	5.0'	43	5.5	3.3	7.0	5.0'	163	2.5	2.3	3.0
	12.5'	42	4.8	4.8		12.5'	28	6.2	5.5	7.0	6.0'	30	6.8	4.0	8.0	6.0'	120	3.0	2.7	3.0
MEDIUM FLOOD	5.0'	205	2.6	2.6		5.0'	132	2.9	2.6	3.0	3.0'	100	3.5	2.3	4.0	3.0'	310	2.1	1.5	2.0
	7.5'	91	3.3	3.3		7.5'	62	4.1	3.7	4.0	4.0'	57	4.6	3.0	5.0	4.0'	218	2.2	1.9	2.0
	10.0'	51	4.4	4.4		10.0'	35	5.5	4.9	5.0	5.0'	36	5.9	3.7	6.0	5.0'	129	2.9	2.6	3.0
	12.5'	33	5.4	5.4		12.5'	22	6.9	6.2	6.0	6.0'	25	7.1	4.4	8.0	6.0'	97	3.3	3.0	3.0

# SPEQ-S

## Small Cylinder Track Head



PROJECT:

TYPE:

### Performance Data

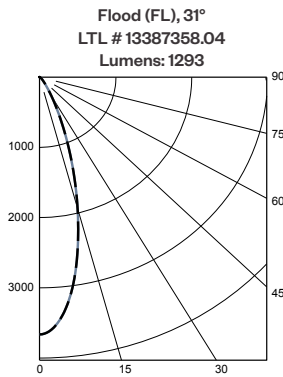
Multiplying Factors: (Multiplying Factor is based on 3000K-83 120V IES file on website)

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

Wattage:	9W	15W
Factor:	0.60	1.0

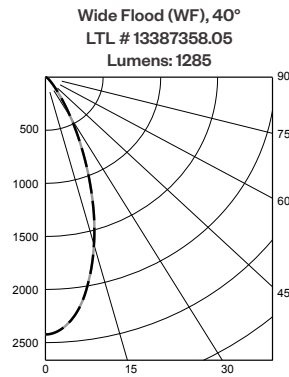
CCT:	2200K-90+	2700K-90+	3000K-90+	3500K-90+	4000K-90+	CRISP	3CLA
Factor:	0.71	0.80	0.83	0.87	0.90	0.65	0.75

15W LED, 3000K (For SP, NF & MFL beam options see pg 5)



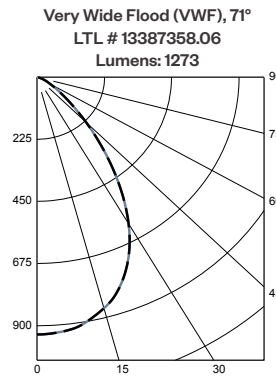
**Candelas at Nadir**

Deg	Candela
0	3664
5	3406
15	1894
25	613
35	153
45	52



**Candelas at Nadir**

Deg	Candela
0	2425
5	2323
15	1631
25	760
35	241
45	77



**Candelas at Nadir**

Deg	Candela
0	932
5	926
15	866
25	723
35	482
45	234

### Application Data

**Notes and Definitions:**

Beam spread is to 50% center beam candlepower (CBCP).

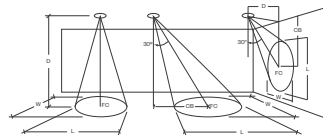
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CB=Distance across or down to center beam location.



	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'	147	2.7	2.7	5.0'	95	3.4	3.0	3.0	3.0'	77	3.7	2.7	4.0	3.0'	236	2.3	1.7	1.0
	7.5'	65	3.8	3.8	7.5'	45	4.8	4.3	4.0	4.0'	45	4.8	3.3	5.0	4.0'	160	2.6	2.4	2.0
	10.0'	37	5.1	5.1	10.0'	26	6.4	5.7	5.0	5.0'	29	6.1	4.1	6.0	5.0'	98	3.3	3.0	2.0
	12.5'	24	6.4	6.4	12.5'	17	7.9	7.2	6.0	6.0'	21	7.4	5.0	7.0	6.0'	71	3.8	3.5	3.0
WIDE FLOOD	5.0'	97	3.2	3.2	5.0'	69	3.8	3.4	2.0	3.0'	65	3.6	2.8	3.0	3.0'	184	2.4	2.0	1.0
	7.5'	43	4.8	4.8	7.5'	31	5.7	5.3	3.0	4.0'	36	4.8	3.7	4.0	4.0'	108	3.1	2.9	2.0
	10.0'	25	6.4	6.4	10.0'	18	7.5	7.1	4.0	5.0'	23	6.1	4.7	5.0	5.0'	70	3.9	3.4	2.0
	12.5'	16	8.0	8.0	12.5'	11	9.6	8.9	5.0	6.0'	16	7.4	5.6	6.0	6.0'	48	4.7	4.3	3.0
VERY WIDE FLOOD	5.0'	38	5.2	5.2	5.0'	31	5.0	5.3	1.0	3.0'	45	3.3	3.5	2.0	3.0'	85	3.2	3.2	1.0
	7.5'	17	7.9	7.9	7.5'	14	7.6	7.9	2.0	4.0'	25	4.5	4.8	3.0	4.0'	50	4.1	4.2	1.0
	10.0'	10	10.6	10.6	10.0'	8	10.3	10.9	2.0	5.0'	16	5.5	6.0	3.0	5.0'	32	5.1	5.3	1.0
	12.5'	6	13.6	13.6	12.5'	5	13.4	13.9	3.0	6.0'	12	6.7	7.2	4.0	6.0'	22	6.2	6.5	1.0

# SPEQ-S

## Small Cylinder Track Head



<b>PROJECT:</b>	<b>TYPE:</b>
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### Performance Data

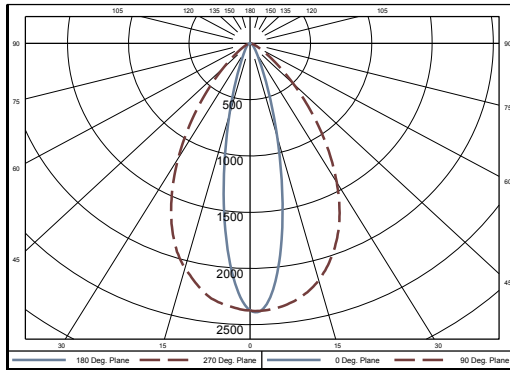
**Multiplying Factors:** (Multiplying Factor is based on 3000K-83 120V IES file on website)

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

Wattage:	9W	15W
Factor:	0.60	1.0

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

**Linear Spread (LS), 63° x 22°**  
**LTL # 13387358.07**  
**Lumens: 1269 lm**



#### ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	1077	84.9
0-60	1232	97.1
0-90	1269	100.0
90-180	0	0.0

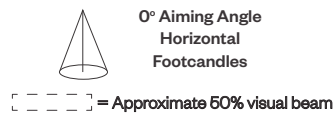
**Luminaire Efficacy = 88.2 lm/W**

### Application Data

#### 10' Mounting Height

1	1	1	1	1	2	2	2	2	2	1	1	1	1	1
2	2	2	2	2	3	3	3	2	2	2	2	2	2	2
2	3	3	4	5	5	5	5	5	5	4	4	4	3	3
3	4	5	7	8	9	10	10	9	9	8	7	6	5	4
5	6	8	10	12	15	16	17	16	15	13	11	9	7	5
5	7	9	12	15	18	20	21	20	19	17	14	11	8	6
6	7	9	12	15	18	20	21	20	18	16	13	11	8	6
5	6	8	10	12	14	15	15	14	13	12	10	8	6	4
3	4	5	7	8	9	10	9	8	7	7	6	5	4	3
2	3	4	4	5	5	5	5	4	4	3	3	3	2	2
2	2	2	2	3	3	3	3	2	2	2	2	2	1	1
1	1	1	1	2	2	2	2	1	1	1	1	1	1	1

#### Footcandles on Floor



#### 8' Mounting Height

1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	2	2	2	2	2	2	2	2	2	1	1	1	1
2	2	3	3	4	4	5	5	4	4	4	3	3	2	2
2	3	4	6	8	9	11	11	10	9	8	7	5	4	3
3	5	7	10	14	18	21	22	20	18	16	12	9	6	4
4	6	9	13	18	24	28	30	29	26	22	17	11	7	5
4	6	9	13	18	23	28	29	28	25	21	16	11	7	5
4	5	7	10	13	17	19	20	18	16	14	11	8	5	3
2	3	4	6	8	9	10	10	9	8	7	5	4	3	2
2	2	3	3	4	4	5	4	4	3	3	3	2	2	1
1	1	2	2	2	2	2	2	2	2	2	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

#### 6' Mounting Height

1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	2	2	2	1	1	1	1	1	1
1	1	2	2	3	3	3	3	3	3	2	2	1	1	1
1	2	3	4	7	9	10	10	10	9	7	5	4	2	1
2	3	5	9	14	21	26	28	26	22	17	11	6	4	2
2	4	7	12	21	31	42	47	44	37	27	17	9	5	3
2	4	6	12	19	30	40	45	43	36	27	17	9	5	3
2	3	5	8	12	18	24	26	24	20	16	10	6	3	2
1	2	3	4	6	8	10	10	9	7	6	4	3	2	1
1	1	2	2	3	3	4	3	3	3	2	2	2	1	1
1	1	1	1	1	2	2	2	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

# SPEQ-S

## Small 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 ---

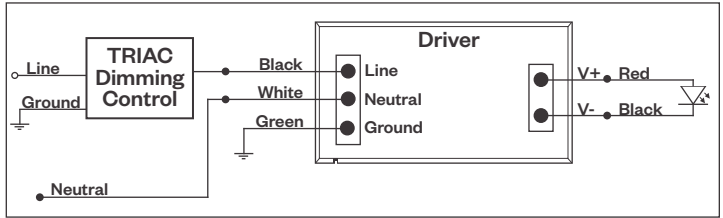
#### TRIAC (Forward Phase) Dimming (Standard)

Utilizes standard TRIAC dimmers that are in wide use in installations across the US. Best for retrofit applications where TRIAC dimmers are installed.

##### 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

#### TRIAC Wiring Diagram



##### Compatible Dimmers\*:

###### Wall Box (TRIAC 120VAC)

Lutron "Diva"

Lutron "Nova-T"

Lutron "Maestro"

Lutron "Skylark"

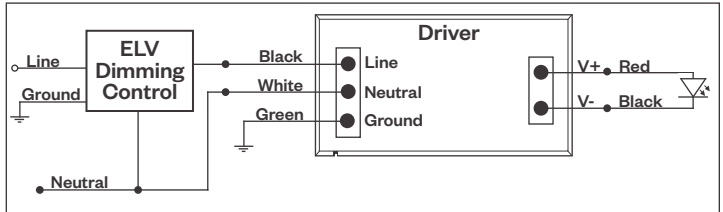
#### ELV - Electronic Low Voltage (Reverse Phase) Dimming (Standard)

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

#### ELV Wiring Diagram



##### Compatible Dimmers\*:

###### Wall Box (ELV 120VAC)

Lutron "Diva"

Lutron "Nova-T"

Lutron "Maestro"

Lutron "Skylark"

Leviton "Surslide"

Leviton "Vizio"