

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)
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

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

Electronic constant current LED driver.

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Ordering Information

SPEQ-S-A17							LE/TE	
1	2	3	4	5	6	7	8	9

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

4	Mounting	5	Voltage	6	Beam Spreads
	TN1 Global GES /H-Style, 1 circuit, 120V		120		SP spot, 17°
	TEK Global TEK 2 circuit/ 2 neutral, 120V				NF narrow flood, 22°
	TN3 Global XTS 3 circuit, 120V				MFL medium flood, 25°
	CT J-Style 1 or 2 circuit, 120V				FL flood, 31°
	LOL L-Style 1 circuit, 120V				WF wide flood, 40°
	C canopy, 120V				VWF very wide flood, 71°
	CCL2-SCP C-clamp, black, with straight cord*, 6' 120V				LS linear spread lens, 63° x 22°
	CCL2-CCP C-clamp, black, with coil cord*, 5' 120V				For 10° super narrow spot distribution see SPEQ-S-SNSP spec sheet.
	Notes: * Black cord used for BT & ST finish. White cord used for WT finish.				

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



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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)
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
** 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



Small Cylinder Track Head

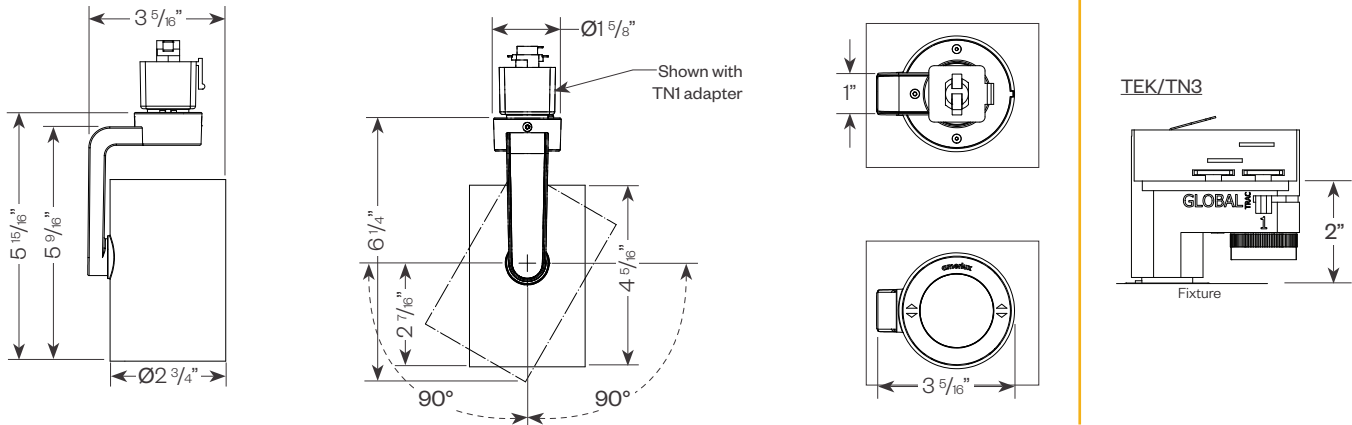


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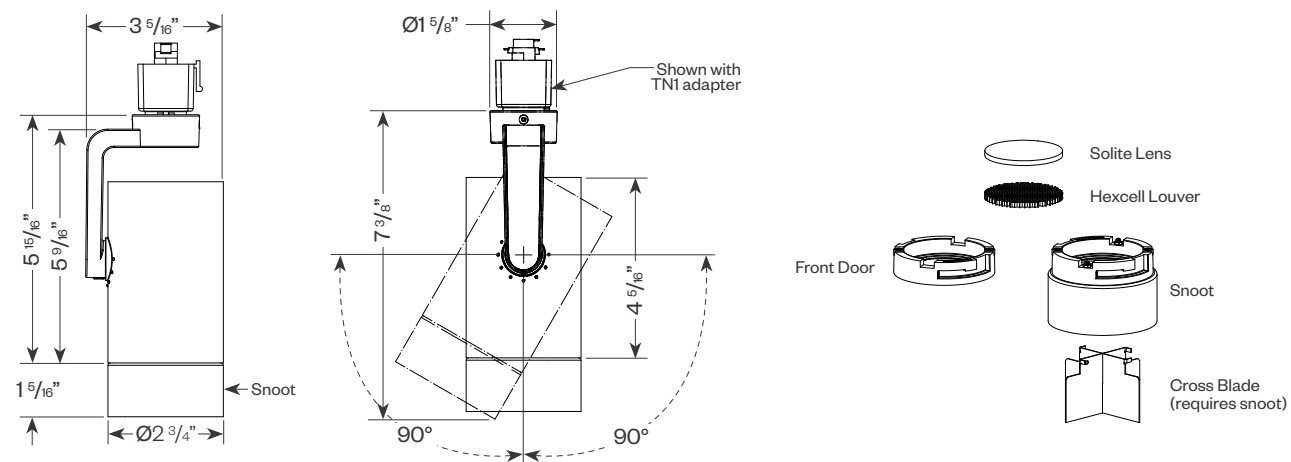
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Product Details

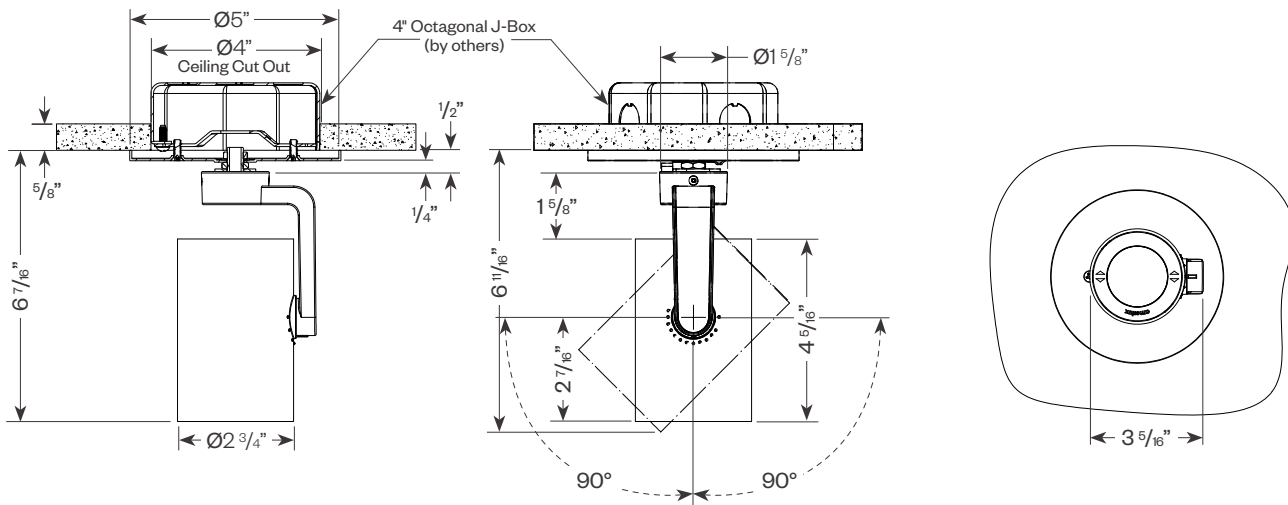
SPEQ-S



SPEQ-S Snoot & Accessories



SPEQ-S Canopy Mount



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Small Cylinder Track Head



PROJECT:

TYPE:

Performance Data

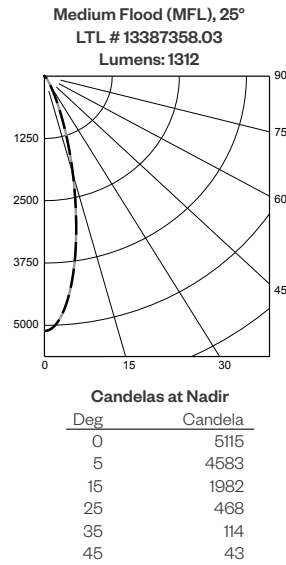
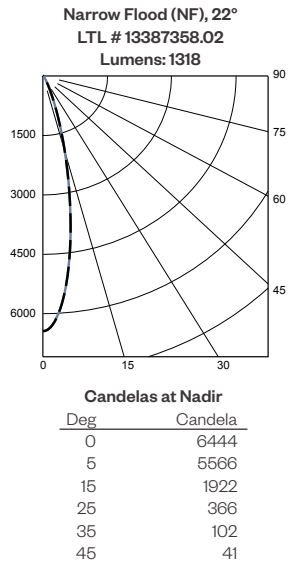
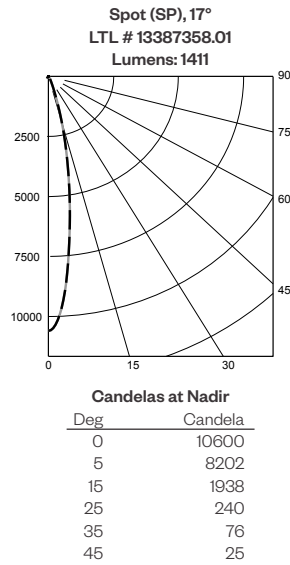
Multiplying Factors: (Multiplying Factor is based on 3000K-83 120V IES file on website)

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+	3CLA
Factor:	0.71	0.80	0.83	0.87	0.90	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).

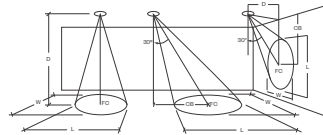
D=Distance to floor or wall.

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	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
	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
MEDIUM FLOOD	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
	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
	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

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Performance Data

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

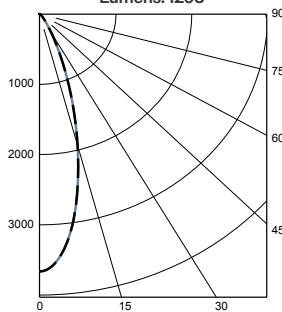
CCT:	2700K-83	3000K-83	3500K-83	4000K-83
Factor:	0.96	1.0	1.02	1.04

Wattage:	9W	15W
Factor:	0.60	1.0

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

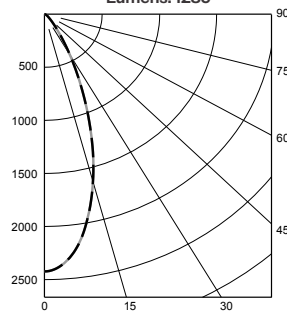
15W LED, 3000K (For SP, NF & MFL beam options see pg 5)

Flood (FL), 31°
LTL # 13387358.04
Lumens: 1293



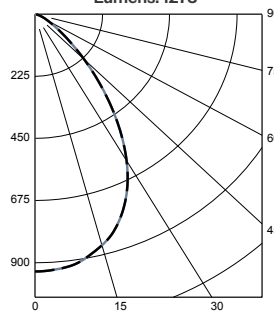
Candelas at Nadir	
Deg	Candela
0	3664
5	3406
15	1894
25	613
35	153
45	52

Wide Flood (WF), 40°
LTL # 13387358.05
Lumens: 1285



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

Very Wide Flood (VWF), 71°
LTL # 13387358.06
Lumens: 1273



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).

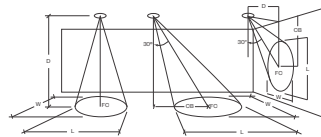
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	0° Aiming Angle Horizontal Footcandles					30° Aiming Angle Horizontal Footcandles						30° Aiming Angle Vertical Footcandles						60° Aiming Angle Vertical Footcandles				
	D	FC	L	W		D	FC	L	W	CB		D	FC	L	W	CB		D	FC	L	W	CB
FLOOD	5.0'	147	2.7	2.7	30°	5.0'	95	3.4	3.0	3.0	30°	3.0'	77	3.7	2.7	4.0	60°	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	30°	5.0'	69	3.8	3.4	2.0	30°	3.0'	65	3.6	2.8	3.0	60°	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	30°	5.0'	31	5.0	5.3	1.0	30°	3.0'	45	3.3	3.5	2.0	60°	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



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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

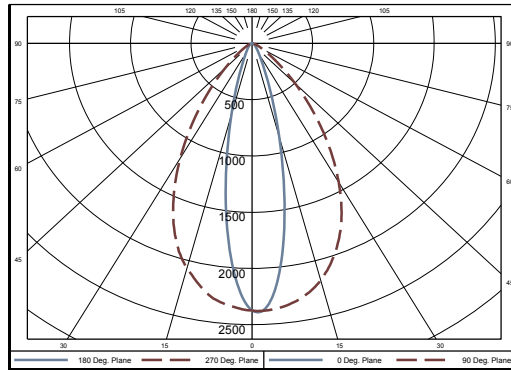
Wattage:	9W	15W
Factor:	0.60	1.0

CCT:	2200K-90+	2700K-90+	3000K-90+	3500K-90+	4000K-90+	3CLA
Factor:	0.71	0.80	0.83	0.87	0.90	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	2	2	2	2	2	1	1	1	1	1	1	1

Footcandles on Floor



0° Aiming Angle
Horizontal
Footcandles

[] = Approximate 50% visual beam

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	0

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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:

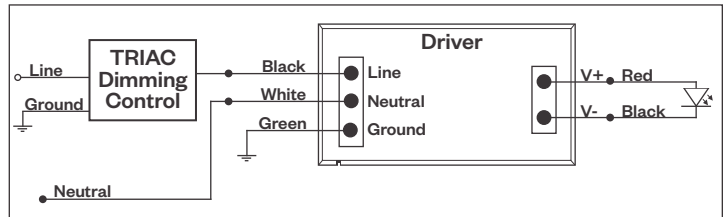
- 120VAC only
- Dims down to 5% light output (*most cases*)
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**
- Must meet dimmer Minimum Load Requirements per dimming manufacturer

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

ELV Wiring Diagram

