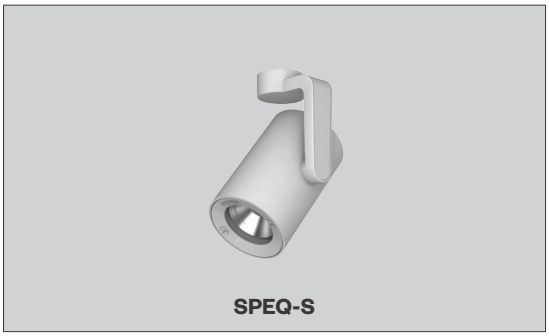
SPEQ-S

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

5 year limited warranty AMERLUX LED

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.

SPEQ-S

Small Cylinder Track Head

amerlux

PROJECT:	TYPE:

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

SPEQ-S

Small 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

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

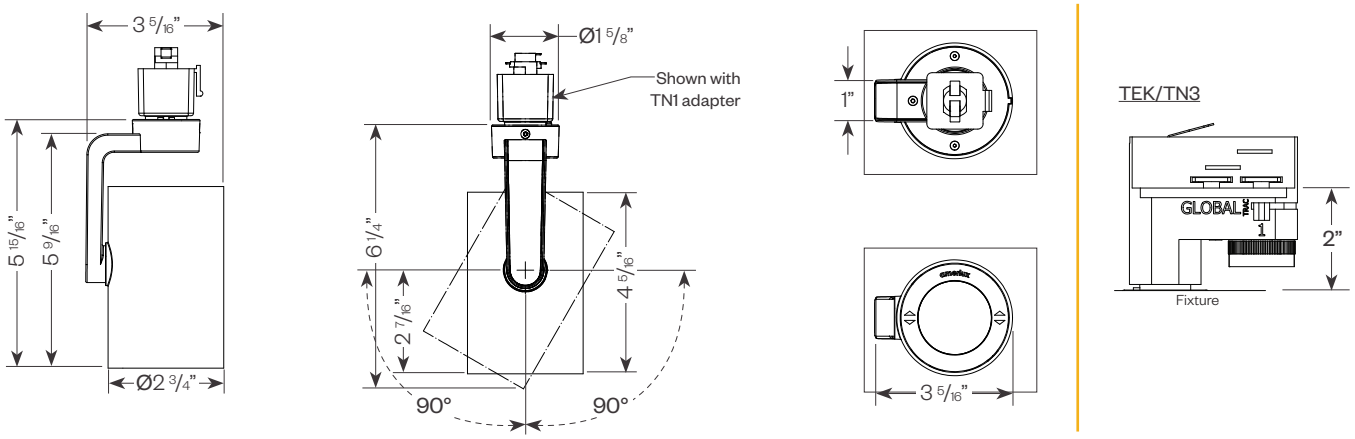
SPEQ-S

Small Cylinder Track Head

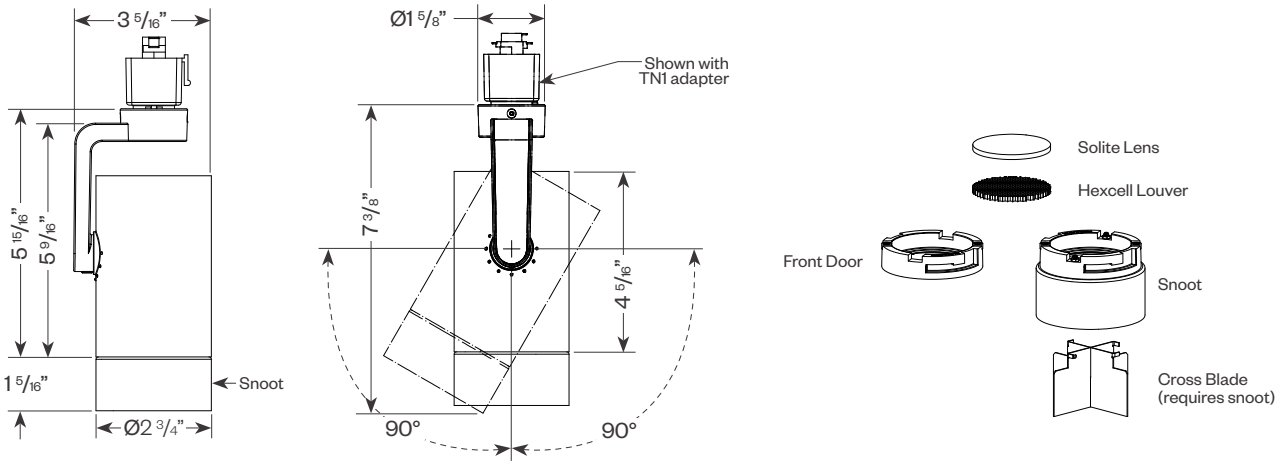
PROJECT:	TYPE:

Product Details

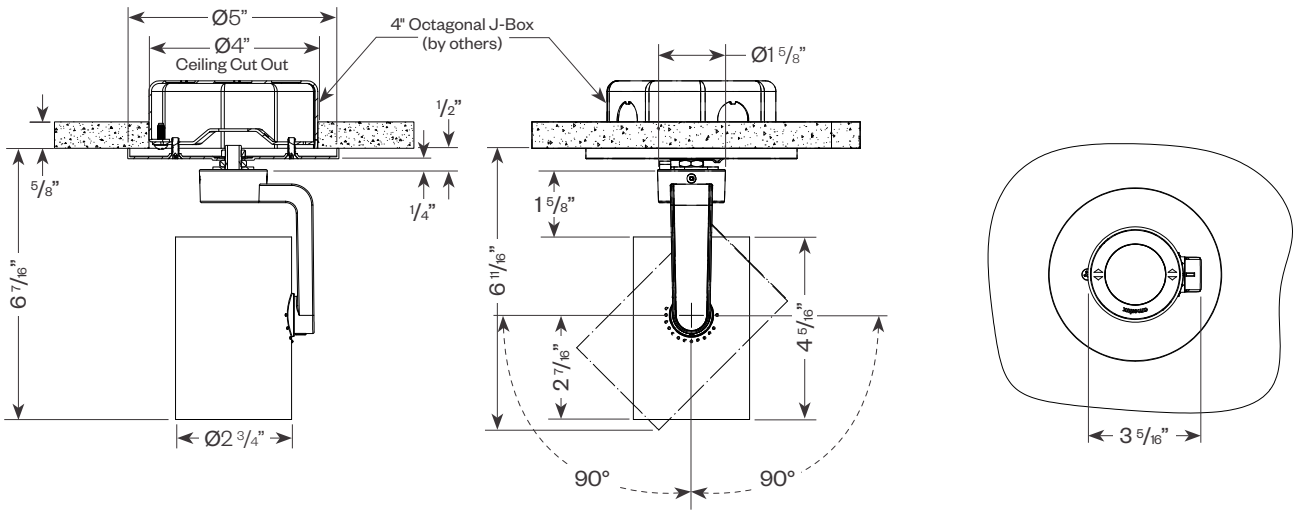
SPEQ-S



SPEQ-S Snoot & Accessories



SPEQ-S Canopy Mount



SPEQ-S

Small Cylinder Track Head

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PROJECT:	TYPE:

Performance Data

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

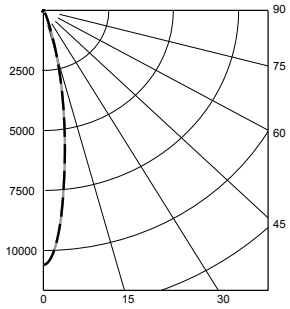
CCT:	2700K-83	3000K-83	3500K-83	4000K-83
Factor:	0.96	1.0	1.02	1.04

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)*

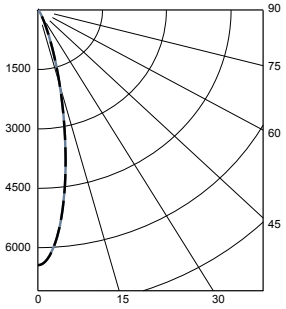
Spot (SP), 17°
LTL # 13387358.01
Lumens: 1411



Candelas at Nadir

Deg	Candela
0	10600
5	8202
15	1938
25	240
35	76
45	25

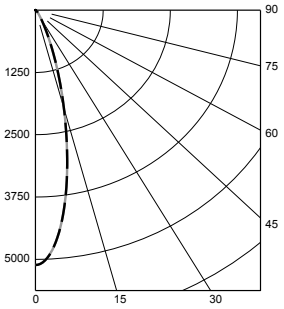
Narrow Flood (NF), 22°
LTL # 13387358.02
Lumens: 1318



Candelas at Nadir

Deg	Candela
0	6444
5	5566
15	1922
25	366
35	102
45	41

Medium Flood (MFL), 25°
LTL # 13387358.03
Lumens: 1312

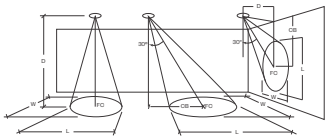


Candelas at Nadir

Deg	Candela
0	5115
5	4583
15	1982
25	468
35	114
45	43

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
	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
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
	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
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)*

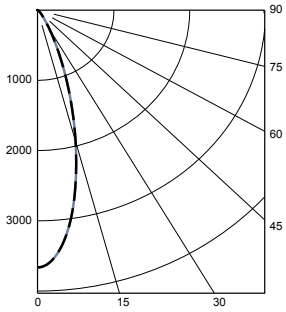
CCT:	2700K-83	3000K-83	3500K-83	4000K-83
Factor:	0.96	1.0	1.02	1.04

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)***

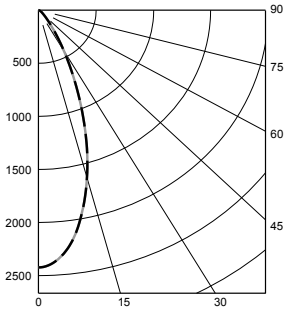
Flood (FL), 31°
LTL # 13387358.04
Lumens: 1293



Candelas at Nadir

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

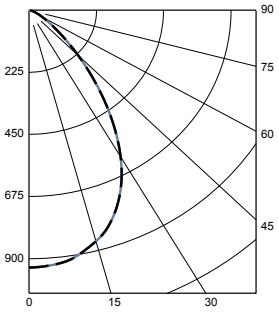
Wide Flood (WF), 40°
LTL # 13387358.05
Lumens: 1285



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

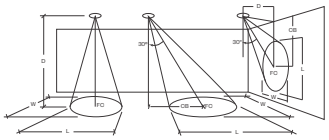


Candelas at Nadir

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)*.
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'	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
	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
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
	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
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

amerlux

PROJECT:	TYPE:

Performance Data

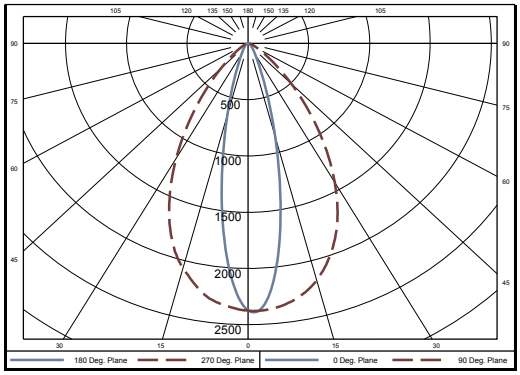
Multiplying Factors: *(Multiplying Factor is based on 3000K-83 120V IES file on website)*

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

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



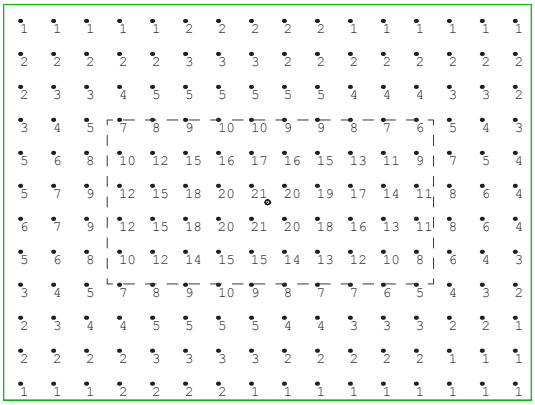
ZONAL LUMEN SUMMARY

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

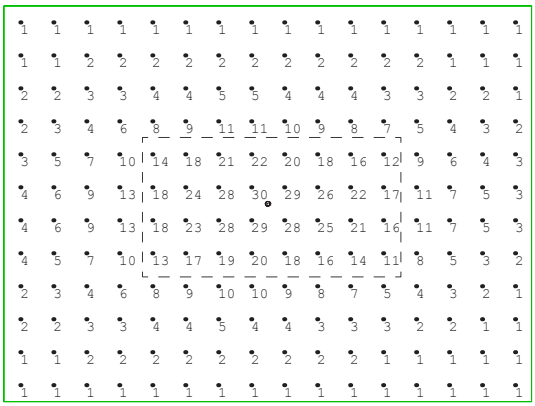


Footcandles on Floor

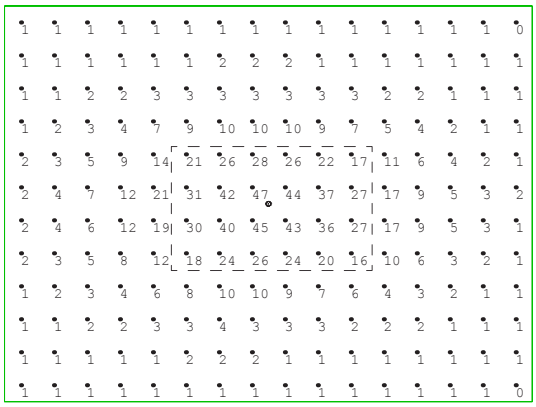
0° Aiming Angle
Horizontal
Footcandles

= Approximate 50% visual beam

8' Mounting Height



6' Mounting Height



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)*

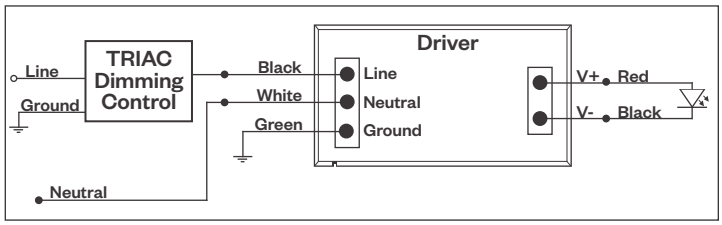
Utilizes standard TRIAC dimmers that are in wide use in installations across the US. Best for retrofit applications where TRIAC dimmers are installed.

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

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)*

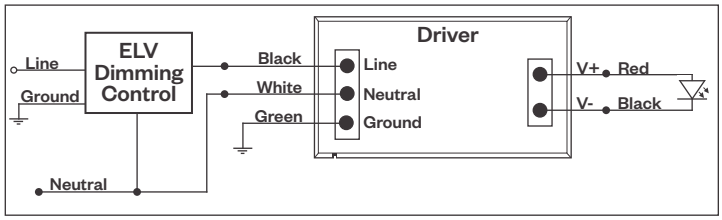
Utilizes specialized “ELV” dimmers.

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



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