

SPEQ-M

Medium 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-M

Product Overview

Type: Track Accent & Display
Wattage: 18W, 21W, 26W
Color Temp: 2700K, 3000K, 3500K, 4000K
CRI: 83 typ. or 90+ typ.
CrispWhite & 3K Class A LED's available
Dimming: TRIAC & ELV, 5% Dim, 120VAC
Weight: 2.5 lbs (without accessories)

Certifications



Fixture Summary

Performance Data

Watts	Delivered Lumens	LPW	CBCP	Color Temp-CRI
18*	1215	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 120V IES files available on website.
Data is based on Spot optic, except for 18W. *18W is VNSP only.
See pg 5-7 for other beam spreads.

Electrical Data

Voltage	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.

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PROJECT:	TYPE:
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Ordering Information



1	Model	2	Wattage	3	Finish
	SPEQ-M-A17		18 (VNSP only) 21 26		WT white texture BT black texture ST silver texture <i>Other finishes, consult factory</i>
4	Mounting			5	Voltage
	TN1 Global GES 1cir/H-Style, 120V TEK Global TEK 2cir/2neut, 120V TN3 Global XTS 3cir, 120V TN2 Global HTEK 2cir/2neut, 277V CT J-Style 1 or 2 cir, 120V LOL L-Style 1cir, 120V CPR Capri 1cir, 120V C canopy, 120V or 277V CCL2-SCP C-clamp, black, with straight cord*, 6' 120V CCL2-CCP C-clamp, black, with coil cord*, 5' 120V <i>Notes: * Black cord used for BT & ST finish. White cord used for WT finish.</i>				120 277 (not available for 18W & not available with LE/TE dimming driver)
6	Beam Spreads				
	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)				
7	Color Temp			8	Driver
	83 CRI 90+ CRI 27 2700K-83 229* 2200K-90+ CRISP* CrispWhite <i>(not available for VNSP)</i> 30 3000K-83 279 2700K-90+ 35 3500K-83 309 3000K-90+ 40 4000K-83 359 3500K-90+ 3CLA 3K Class A 409 4000K-90+ <i>* Not available for use with 18W VNSP</i>				SPEQ-M 18W LE/TE TRIAC/ELV dimming, 120V only SPEQ-M 21W & 26W LE/TE TRIAC/ELV dimming, 120V only ND non-dimming, 277V only
9	Options/Accessories				
	<i>(standard front door accepts up to 2 accessories)</i> SN snoot (accepts up to 2 accessories or cross blade + 1 accessory) HEX hexcell louver SOL solite beam softening lens CB cross blade (requires snoot)				

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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

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 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: 18W, 21W, 26W
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 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

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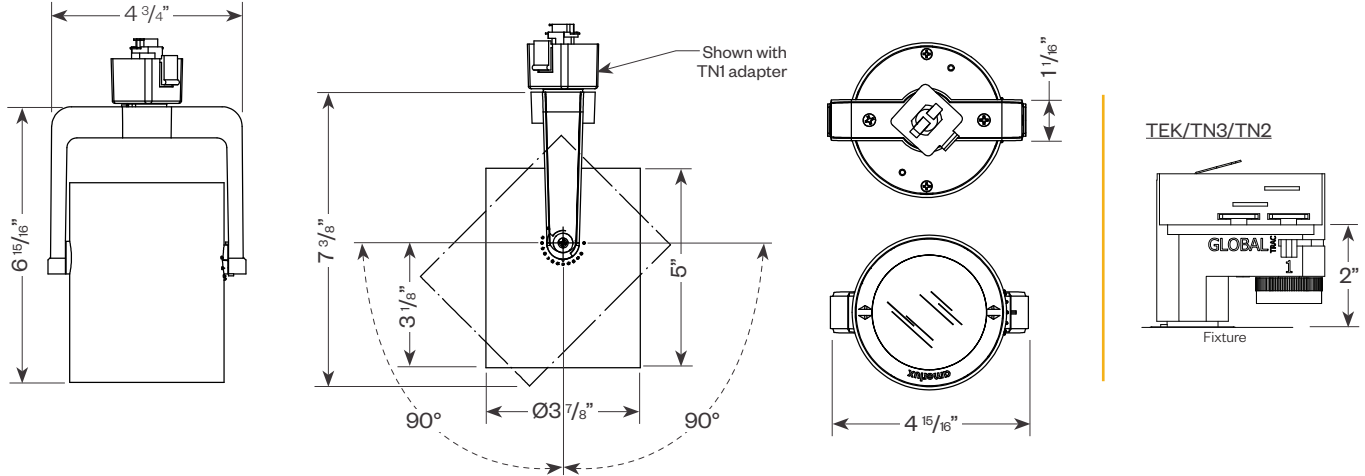


PROJECT:

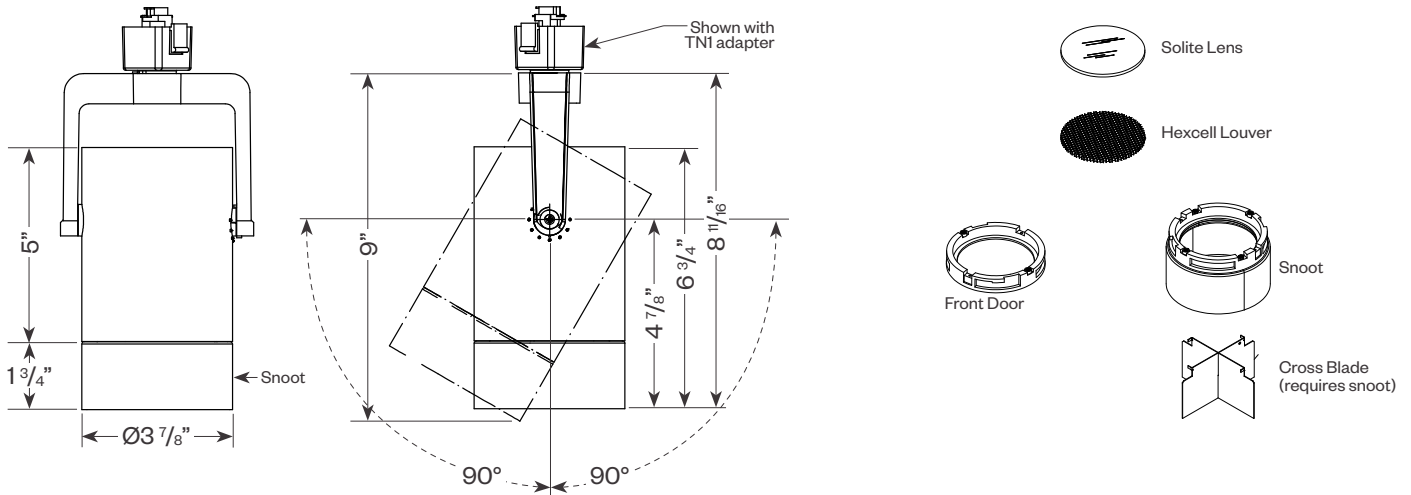
TYPE:

Product Details

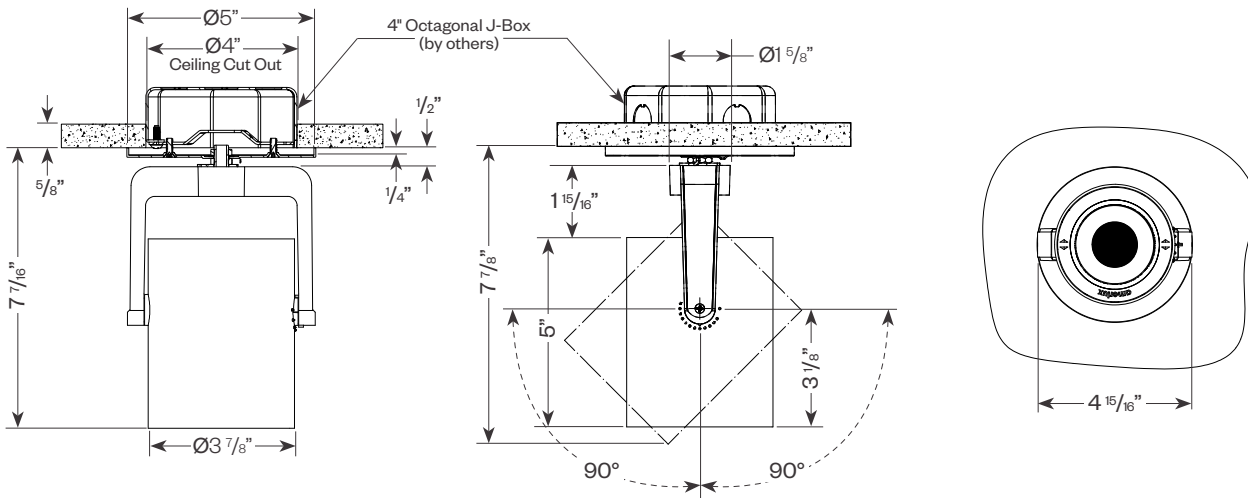
SPEQ-M



SPEQ-M Snoot & Accessories



SPEQ-M Canopy Mount



SPEQ-M

Medium 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

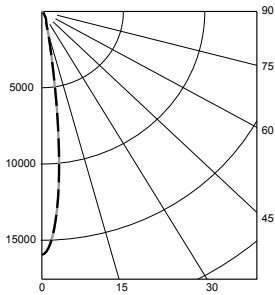
Wattage:	21W	26W
Factor:	1.0	1.24

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)

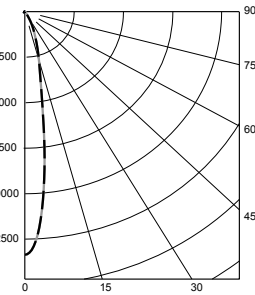
Spot (SP), 14°
LTL # 13387358.08
Lumens: 2029 lm



Candelas at Nadir

Deg	Candela
0	15960
5	11600
15	1444
25	605
35	261
45	124

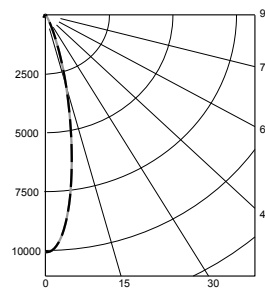
Very Narrow Flood (VNF), 16°
LTL # 13387358.09
Lumens: 2180 lm



Candelas at Nadir

Deg	Candela
0	13360
5	10410
15	2722
25	922
35	132
45	39

Narrow Flood (NF), 22°
LTL # 13387358.10
Lumens: 2050 lm



Candelas at Nadir

Deg	Candela
0	10080
5	8902
15	3062
25	512
35	112
45	52

Application Data

Notes and Definitions:

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

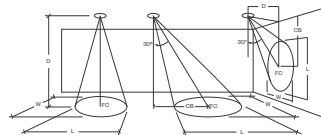
D=Distance to floor or wall.

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

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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

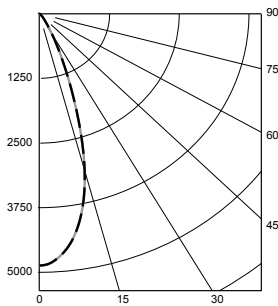
Wattage:	21W	26W
Factor:	1.0	1.24

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

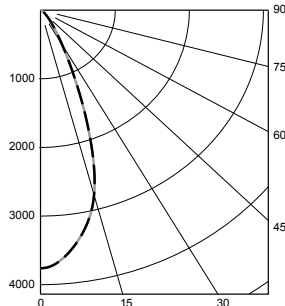
21W LED, 3000K (For SP, VNF & NF beam options see pg 5)

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



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

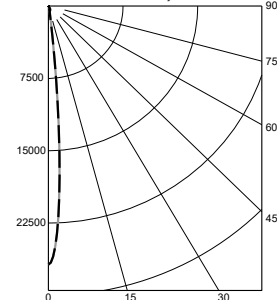
Wide Flood (WF), 40°
LTL # 13387358.12
Lumens: 1991 lm



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



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).

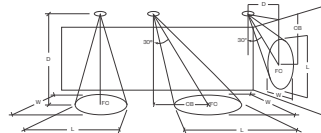
D=Distance to floor or wall.

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

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Performance Data

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

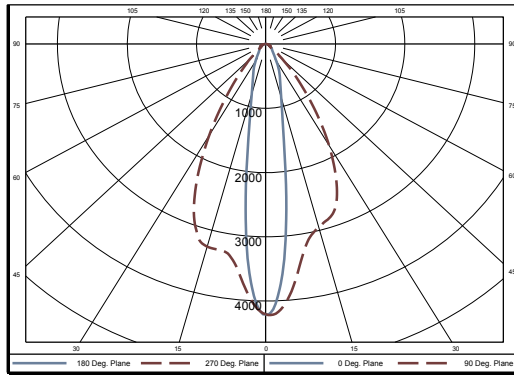
CCT:	2700K-83	3000K-83	3500K-83	4000K-83
Factor:	0.96	1.0	1.02	1.04

Wattage:	21W	26W
Factor:	1.0	1.24

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

1	2	2	2	3	3	3	3	3	2	2	2	2	1		
2	2	3	3	4	4	4	4	4	3	3	2	2	2		
2	3	3	4	5	5	6	6	6	5	5	4	3	2		
3	4	5	6	8	9	10	11	10	9	9	7	6	5	3	3
5	6	8	11	13	16	19	20	19	17	15	13	10	7	5	4
6	8	12	15	19	23	27	31	29	26	23	19	15	10	7	5
6	8	11	15	19	22	27	31	30	27	23	20	15	11	7	5
5	6	8	10	13	15	18	20	20	18	16	14	11	8	6	4
3	4	5	6	8	9	10	11	10	10	9	8	6	5	4	3
2	3	3	4	5	5	6	6	6	6	5	4	4	3	3	2
2	2	2	3	3	4	4	4	4	4	4	3	3	2	2	2
1	2	2	2	2	3	3	3	3	3	2	2	2	2	2	1

Footcandles on Floor



0° Aiming Angle
Horizontal
Footcandles

[] = Approximate 50% visual beam

8' Mounting Height

1	1	2	2	2	2	3	3	3	3	2	2	2	2	1	1
1	2	2	3	3	4	4	4	4	4	3	3	2	2	1	1
2	2	3	4	5	5	6	7	6	6	5	4	3	3	2	1
2	3	4	6	8	9	11	12	11	10	9	7	5	4	2	2
3	5	7	11	15	19	23	25	24	21	17	13	9	5	3	3
4	6	10	16	22	29	37	42	40	34	28	21	14	8	5	3
4	6	9	15	21	28	35	42	42	36	30	22	15	9	5	3
3	4	6	9	13	18	21	25	25	22	19	15	10	6	4	2
2	3	4	5	7	9	10	11	11	10	9	7	5	4	3	2
2	2	3	3	4	5	6	6	6	6	5	4	3	3	2	1
1	2	2	2	3	3	4	4	4	4	3	3	2	2	2	1
1	1	2	2	2	2	3	3	3	3	2	2	2	2	1	1

6' Mounting Height

1	1	1	1	2	2	2	2	2	2	2	2	1	1	1	1
1	1	2	2	3	3	4	4	4	3	3	2	2	1	1	1
1	1	2	3	4	5	6	7	6	5	4	3	2	2	1	1
1	2	3	4	7	9	12	13	12	11	8	6	4	2	1	1
1	3	5	9	15	22	30	34	31	25	18	11	6	3	2	1
2	3	6	13	23	36	51	62	59	48	38	19	10	5	2	1
2	3	6	11	21	34	48	60	61	51	37	22	11	5	2	1
1	2	4	7	12	18	26	32	33	29	22	14	8	4	2	1
1	2	3	4	6	8	11	12	12	11	9	6	4	3	2	1
1	1	2	3	4	5	6	6	6	6	5	4	3	2	1	1
1	1	1	2	2	3	3	4	4	3	3	2	2	1	1	1
1	1	1	1	2	2	2	2	2	2	2	2	1	1	1	1

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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 ---

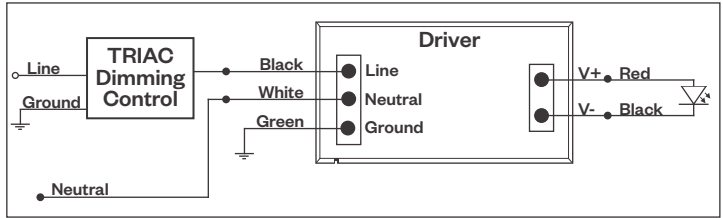
TRIAC (Forward Phase) Dimming (Standard)

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

TRIAC Wiring Diagram



Compatible Dimmers*:

Wall Box (TRIAC 120VAC)

Lutron "Diva"

Lutron "Nova-T"

Lutron "Maestro"

Lutron "Skylark"

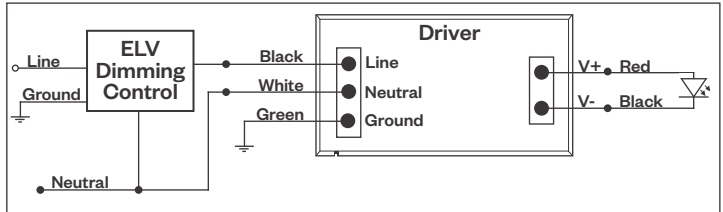
ELV - Electronic Low Voltage (Reverse Phase) Dimming (Standard)

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"