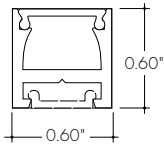# Bosca - Static White | Linear Illumination System

Features

- 24VDC Class 2 fixtures made to order up to 144". Fixtures can be linked up to 90' depending on output
- Suitable for undercabinet, millwork, direct view, grazer, vanity, architectural reveals, accent lighting and surface mount applications
- Approved for closet/storage space installation per NEC 410.16(A) (3) and 410.16(C)(5) on outputs 5.7 W/ft or less
- Dot free even illumination with frosted and raised lens

- Class 2 listed for damp locations
- Proprietary strong bond solder method handles up to 50 lbs of pull force on wire leads and connectors
- Vibrant Color options offer premium quality and vibrant colors with R9 values up to 98
- High Efficacy options offer best in class output and efficacy with over 810 lm/ft and up to 115 lm/W
- Average Life (L70): 50,000hrs
- 7 year warranty

Dimensions
0.60" × 0.60"

Finish Options (see page 3 for additional information)

Base	Silver Anodized
Powder Coat	Black, Bronze, White
Premium	Matte Black, Warm Nickel, Aged Brass, Polished Gold, Chrome

Declare. | RoHS | CE | MADE IN U.S.A | Single Bin +/- 30 CCT | c UL us LISTED | TITLE 24 JA8 COMPLIANT | DIM

Technical Information

TYPE	Vibrant Color VC72					
OUTPUT OPTIONS	VC72VLO	VC72LO	VC72SO	VC72MO	VC72HO	VC72VHO
Lumens Output (3000K) (with a Satin Ice Lens)	91 lm/ft	233 lm/ft	310 lm/ft	409 lm/ft	495 lm/ft	659 lm/ft
Average Power Consumption (for a 4' section)	1.1 W/ft	2.8 W/ft	3.7 W/ft	4.9 W/ft	5.9 W/ft	7.9 W/ft
Efficacy	83 lm/W	83 lm/W	84 lm/W	83 lm/W	84 lm/W	83 lm/W
Max Run Length (in series)	56.9 ft	32 ft	28 ft	24 ft	21 ft	18 ft
Ambient Operating Temperature Range*	-4°F – 122°F (-20°C – 50°C)					-4°F – 86°F (-20°C – 30°C)

*Ambient Operating Temperature Range to maintain L70 of 50k+ hours in normal mounting conditions for the fixture. Exceeding Ambient Operating Temperature Range may result in decreased life/output. Consult Technical Support for specific inquiries.

Vibrant Color (VC72)

CCT	Multiplier (ref. - 30K)	TM-30			
		CRI	R_f	R_g	R9
1800K	0.50	95	94	99	86
2200K	0.66	96	94	101	95
2400K	0.90	98	96	101	91
2700K	0.93	98	96	102	93
3000K	1.00	97	94	104	99
3500K	1.04	96	94	105	97
4100K	1.05	97	95	104	96

TYPE	High Efficacy HE64					
OUTPUT OPTIONS	HE64VLO	HE64LO	HE64SO	HE64MO	HE64HO	HE64VHO
Lumens Output (3000K) (with a Satin Ice Lens)	101 lm/ft	218 lm/ft	313 lm/ft	416 lm/ft	592 lm/ft	811 lm/ft
Average Power Consumption (for a 4' section)	1 W/ft	1.9 W/ft	2.9 W/ft	3.8 W/ft	5.6 W/ft	7.1 W/ft
Efficacy	101 lm/W	115 lm/W	108 lm/W	109 lm/W	106 lm/W	114 lm/W
Max Run Length (in series)	90 ft	54 ft	34.9 ft	26 ft	17 ft	13 ft
Ambient Operating Temperature Range*	-4°F – 122°F (-20°C – 50°C)					-4°F – 104°F (-20°C – 40°C)

*Ambient Operating Temperature Range to maintain L70 of 50k+ hours in normal mounting conditions for the fixture. Exceeding Ambient Operating Temperature Range may result in decreased life/output. Consult Technical Support for specific inquiries.

High Efficacy (HE64)

CCT	Multiplier (ref. - 30K)	TM-30			
		CRI	R_f	R_g	R9
2200K	0.74	94	91	96	65
2400K	0.87	94	92	97	56
2700K	0.97	94	92	100	57
3000K	1.00	93	91	99	54
3500K	1.01	95	91	99	62
4000K	1.04	95	91	99	68

Ordering Code

MODEL	LENGTH[1]	OUTPUT[2]	CCT	LENS[2]	MOUNTING	FINISH[3]	FEED POSITION LEFT[4]	FEED POSITION RIGHT[4]

MODEL
BOS - Bosca

LENGTH[1]
- 12"–144" 1" increments
- 12"–144" 2" increments

OUTPUT[2]
- VC72VLO - Very Low
- VC72LO - Low
- VC72SO - Standard
- VC72MO - Medium
- VC72HO - High
- VC72VHO - Very High

- HE64VLO - Very Low
- HE64LO - Low
- HE64SO - Standard
- HE64MO - Medium
- HE64HO - High
- HE64VHO - Very High

CCT
- 18K - 1800K
- 22K - 2200K
- 24K - 2400K
- 27K - 2700K
- 30K - 3000K
- 35K - 3500K
- 41K - 4100K

- 22K - 2200K
- 24K - 2400K
- 27K - 2700K
- 30K - 3000K
- 35K - 3500K
- 40K - 4000K

LENS[2]
- F - Frosted
- SI - Satin Ice
- G - Graze
- R - Raised

MOUNTING
- FC - Fixed Clip
- SC - Screw-in
- MAG - Magnetic
- A - Adjustable Hinge Mounting

FINISH[3]

BASE
- SA - Silver Anodized

POWDER COAT
- BK - Black
- BZ - Bronze
- WH - White

PREMIUM
- MBK - Matte Black
- WN - Warm Nickel
- AB - Aged Brass
- PG - Polished Gold[4]
- CH - Chrome[4]

FEED POSITION LEFT[4]

WIRE LEADS (72")
- LWE - Wire End Feed
- LWB - Wire Back Feed
- LWSA - Wire Side A Feed
- LWSB - Wire Side B Feed
- LNPF - No Power Feed

QUICK CONNECTS (4")
- LFE - Female Q/C, End Feed
- LFB - Female Q/C, Back Feed
- LFSA - Female Q/C, Side A Feed
- LFSB - Female Q/C, Side B Feed
- LNPF - No Power Feed

FEED POSITION RIGHT[4]

WIRE LEADS (72")
- RWE - Wire End Feed
- RWB - Wire Back Feed
- RWSA - Wire Side A Feed
- RWSB - Wire Side B Feed
- RNPF - No Power Feed

QUICK CONNECTS (4")
- RFE - Female Q/C, End Feed
- RFB - Female Q/C, Back Feed
- RFSA - Female Q/C, Side A Feed
- RFSB - Female Q/C, Side B Feed
- RNPF - No Power Feed

1 - Custom lengths and increments are available, please consult Inside Sales with specific request.
2 - Title 24 JA8 achievable depending on Output, CCT, and Lens selections. See multiplier charts to calculate specific efficacies.
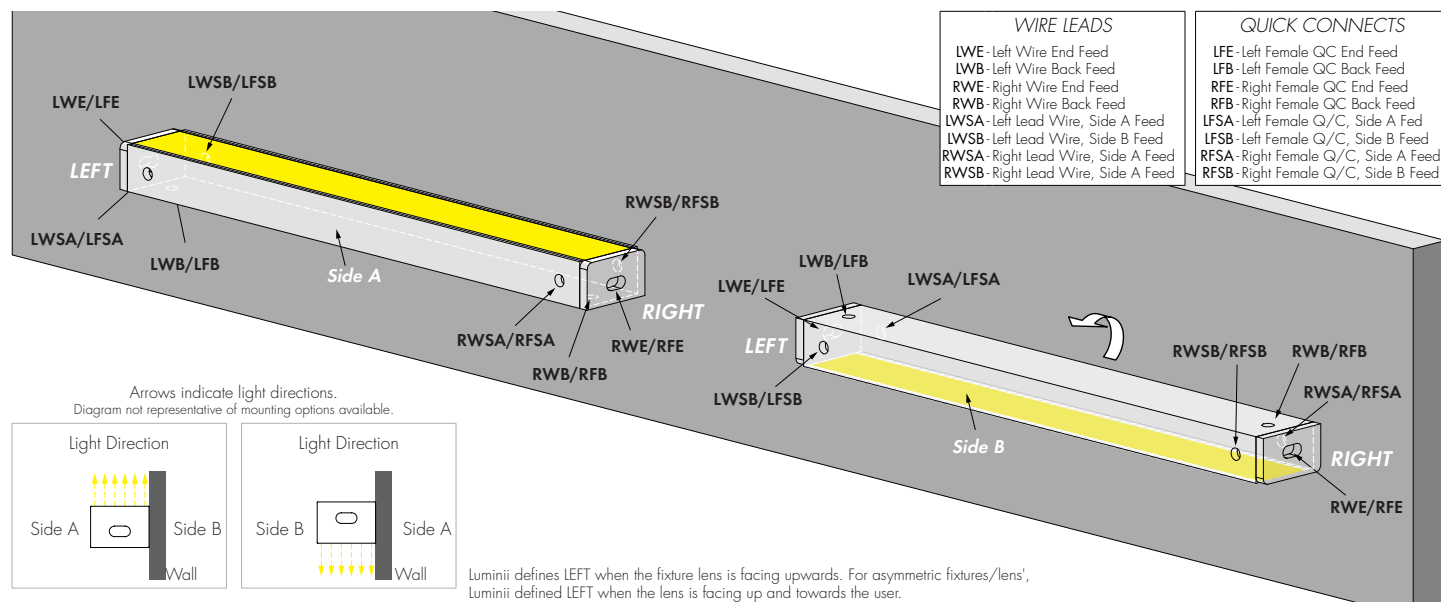3 - Non Base finishes may have extended lead times. Custom RALs are available, please consult Inside Sales with specific request.
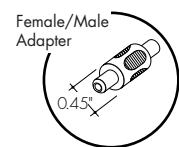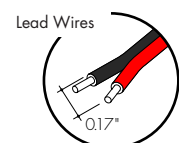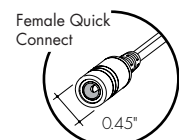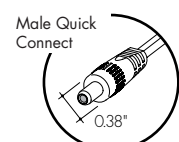4 - LNPF - RNPF is not a valid configuration option
5 - Polished Gold finishes and Chrome finishes have a maximum fixture length of 96".
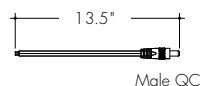
Powerfeeds and Connectors

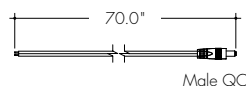### Power Feed Position Options and Orientation

WIRE LEADS	
LWE	Left Wire End Feed
LWB	Left Wire Back Feed
RWE	Right Wire End Feed
RWB	Right Wire Back Feed
LWSA	Left Lead Wire, Side A Feed
LWSB	Left Lead Wire, Side B Feed
RWSA	Right Lead Wire, Side A Feed
RWSB	Right Lead Wire, Side A Feed

QUICK CONNECTS	
LFE	Left Female QC End Feed
LFB	Left Female QC Back Feed
RFE	Right Female QC End Feed
RFB	Right Female QC Back Feed
LFSA	Left Female Q/C, Side A Feed
LFSB	Left Female Q/C, Side B Feed
RFSA	Right Female Q/C, Side A Feed
RFSB	Right Female Q/C, Side B Feed

Arrows indicate light directions.
Diagram not representative of mounting options available.

Luminii defines LEFT when the fixture lens is facing upwards. For asymmetric fixtures/lens', Luminii defined LEFT when the lens is facing up and towards the user.

Linking and Extension Cable Options

Male Quick Connect — 0.38"

Female Quick Connect — 0.45"

Lead Wires — 0.17"

Female/Male Adapter — 0.45"

LMC-12
Male quick-connect, 2 pin, 12"
13.5" — Male QC

LMC-70
Male quick-connect long, 2 pin, 70"
70.0" — Male QC

EC-12
Female to Female Extension Cable, 2 pin, 12"
12.0" — Female QC / Female QC
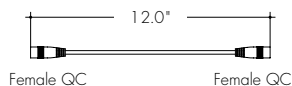
EC-48
Female to Female Extension Cable, 2 pin, 48"
48.0" — Female QC / Female QC
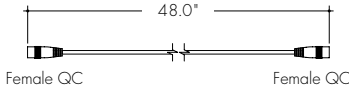
EC-120
Female to Female Extension Cable, 2 pin, 120"
120.0" — Female QC / Female QC
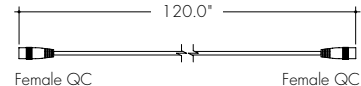
LYC
1 Female to 2 Male Splitter Cable, 2 pin, 12"
21.25" / 8.25" — Female QC / Male QC
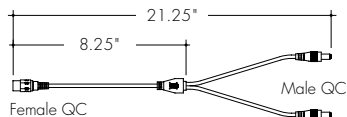
FMA
Female to male adapter
1.8" — Male QC / Male QC
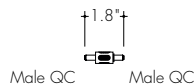
IS-DC
Male to Female Inline DC Switch, 2 pin, 12"
11.88" — Male QC / Female QC

Sample Layout

LMC-12/70   EC-12/48/120   FMA   Female QC   Female QC   FMA   EC-12/48/120   FMA   Female QC

LMC-12/70   EC-12/48/120   FMA   EC-12/48/120   FMA   Female QC   Female QC   FMA   Female QC

LMC-12/70   FMA   Female QC   Female QC   min 0.25"
End feed shown

LMC-12/70   FMA   Female QC   Female QC
Side and Back feed shown
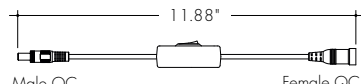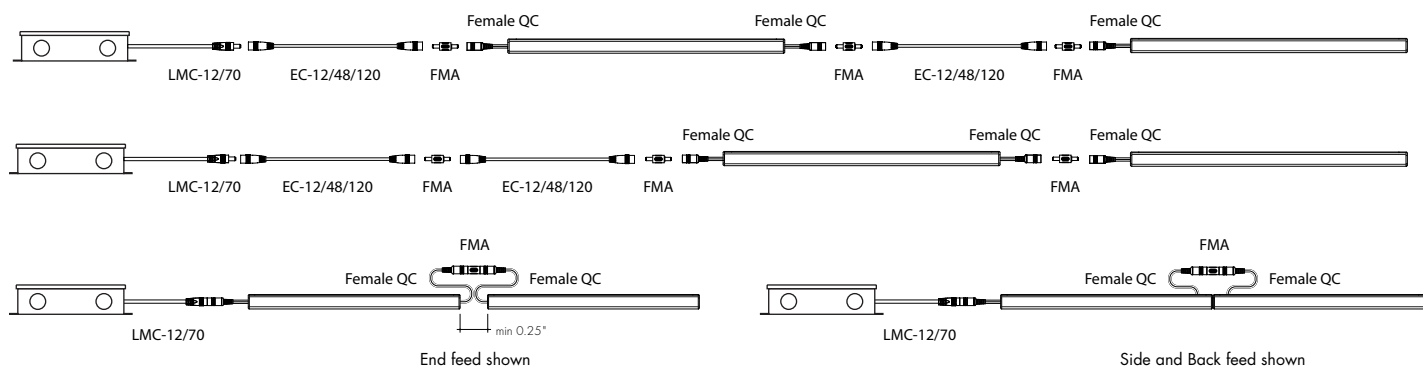
Product Dimensions

Fixture/Lens Profile

- Frosted or Satin Ice Lens — 0.60"
- Graze Lens — 0.65"
- Raised Lens — 1.00"

Fixture Side

- Endcap Thickness 0.060"
- UP TO 144"
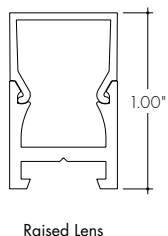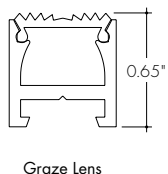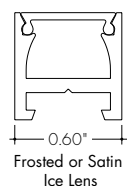
Fixture/Mounting Profile

- Frosted or Satin Ice Lens using the Clip-in Channel — 0.60" / 0.60"
- Frosted or Satin Ice Lens using the Screw-in Channel — 0.60" / 0.06" / 1.00"
- Frosted or Satin Ice Lens using the Magnetic Bracket — 0.60"
- Frosted or Satin Ice Lens the Adjustable Bracket, up to 90° — 0.88" / 0.91" / up to 90°
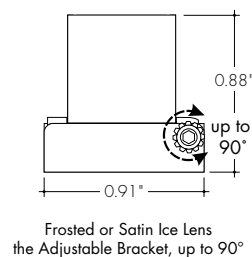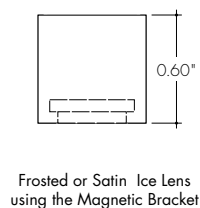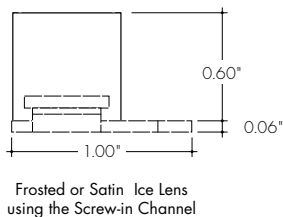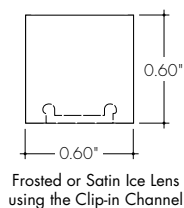
Finish Options

- Finish options are available in a wide variety, allowing for complete customization of style and aesthetic.
- Non Base finishes may have extended lead times and price adder.
- Polished Gold finishes and Chrome finishes have a maximum fixture length of 96".
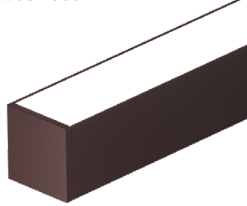- Custom RALs are available, please consult Inside Sales with specific request.

Silver Anodized
Base
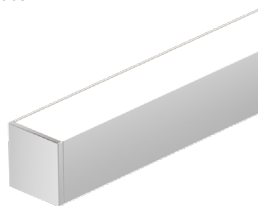
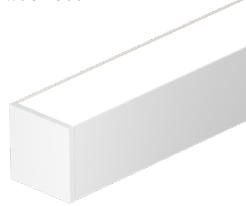Silver Anodized is a soft silver with a clear finish.

Black
Powder Coat
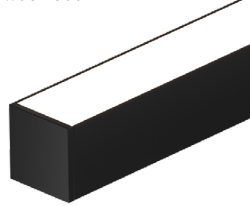
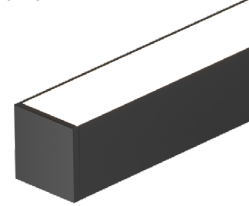Black is a true deep black with a glossy finish.

Bronze
Powder Coat

Bronze is a rich, dark brown with a satin finish.

White
Powder Coat

White is a polar bright white and field paintable.

Matte Black
Premium

Matte Black is a dark, pitch-black with a soft flat finish.

Warm Nickel
Premium
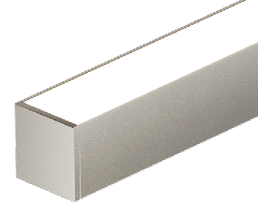
Warm Nickel is a soft, silvery smoke with warm tones and a satin finish.

Aged Brass
Premium

Aged Brass is a deep brown shade with slightly golden undertones.

Polished Gold
Premium

Polished Gold is bright and radiant for a brilliant finish.

Chrome
Premium

Chrome is a highly reflective silver polish.

Light Transmission and Dotting
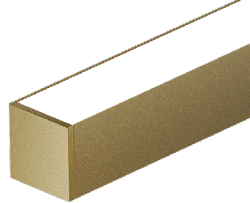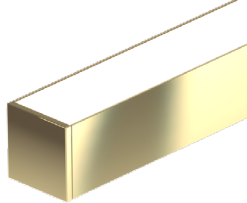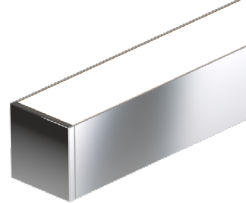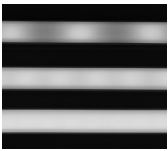
Output Options	Graze Lens				Satin Ice				Raised Lens				Frosted Lens			
Dimming Level	100%	50%	10%	1%	100%	50%	10%	1%	100%	50%	10%	1%	100%	50%	10%	1%
VC72VLO	CD	CD	CD	CD	SD	CD	CD	CD	ND	ND	ND	ND	ND	ND	ND	ND
VC72LO	CD	CD	CD	CD	SD	CD	CD	CD	ND	ND	ND	ND	ND	ND	ND	ND
VC72SO	CD	CD	CD	CD	SD	CD	CD	CD	ND	ND	ND	ND	ND	ND	ND	ND
VC72MO	CD	CD	CD	CD	SD	CD	CD	CD	ND	ND	ND	ND	ND	ND	ND	ND
VC72HO	CD	CD	CD	CD	SD	CD	CD	CD	ND	ND	ND	ND	ND	ND	ND	ND
VC72VHO	CD	CD	CD	CD	SD	CD	CD	CD	ND	ND	ND	ND	ND	ND	ND	ND
HE64VLO	CD	CD	CD	CD	CD	CD	CD	CD	ND	ND	ND	ND	ND	ND	ND	ND
HE64LO	CD	CD	CD	CD	CD	CD	CD	CD	ND	ND	ND	ND	ND	ND	ND	ND
HE64SO	CD	CD	CD	CD	CD	CD	CD	CD	ND	ND	ND	ND	ND	ND	ND	ND
HE64MO	CD	CD	CD	CD	CD	CD	CD	CD	ND	ND	ND	ND	ND	ND	ND	ND
HE64HO	CD	CD	CD	CD	CD	CD	CD	CD	ND	ND	ND	ND	ND	ND	ND	ND
HE64VHO	CD	CD	CD	CD	CD	CD	CD	CD	ND	ND	ND	ND	ND	ND	ND	ND
Transmission Percentage	106%				100%				80%				73%			

Use complete Dotting Chart Tool online for more dotting information
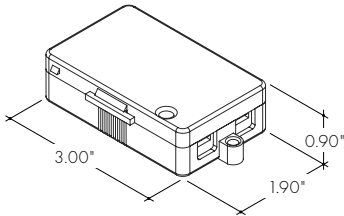
I'm also click-able

CD - Clear Dotting

SD - Slight Dotting

ND - No Dotting

Accessory Options

LVSP-4T-BK
Low Voltage, 4 Terminal Splice Box, Black, IP20

3.00"
0.90"
1.90"

OS-DC-F4-BK
Occupancy Sensor

0.25"
0.68"
1.13"
3.35"
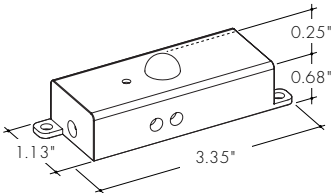
Male Quick Connect, FMA, LMC, LYC, or IS-DC are required for input and output.

DIM-DC-F4-BK
24VDC Low Voltage In-line Dimmer Module

0.20"
0.68"
3.35"
1.13"
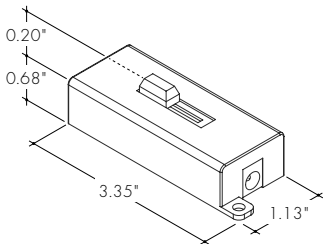
Male Quick Connect, FMA, LMC, LYC, or IS-DC are required for input and output.

NL.EX.D1.B & **NL.EX.D3.B**
Near Infrared Remote Door Sensor

NL.EX.D1.B - 1 IR Sensor

39.0"   3.70"   2.29"   3.70"

NL.EX.D3.B - 3 IR Sensor

39.5"   3.70"   2.15"   4.00"
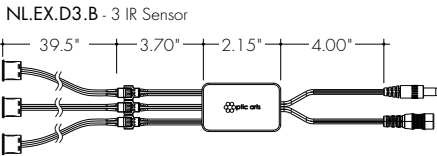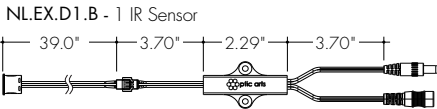
Male Quick Connect, FMA, LMC, LYC, or IS-DC are required for input and output. For more information visit Sensor Spec Sheet   (Link)

Photometry

BOS-48-VC72VHO-30K-F
Bosca, 4ft, VHO, 3000K, Frosted Lens

626
501
376
250
125
0

Zonal Lumen Summary 3000K
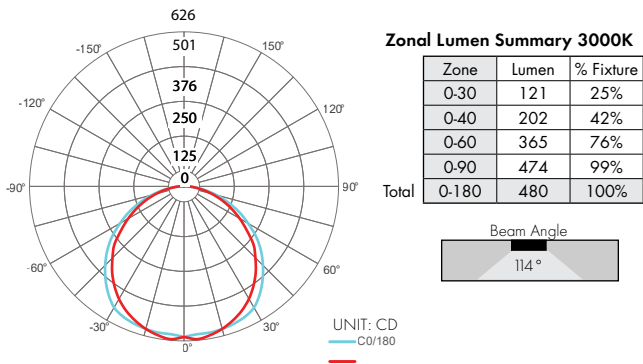
Zone	Lumen	% Fixture
0-30	121	25%
0-40	202	42%
0-60	365	76%
0-90	474	99%
Total 0-180	480	100%

Beam Angle
114°

UNIT: CD
C0/180

BOS-48-VC72VHO-30K-G
Bosca, 4ft, VHO, 3000K, Grazed Lens

2320
1856
1392
928
464
0

Zonal Lumen Summary 3000K

Zone	Lumen	% Fixture
0-30	255	36%
0-40	359	51%
0-60	529	75%
0-90	671	96%
Total 0-180	702	100%

Beam Angle
26°

UNIT: CD
C0/180
C90/270
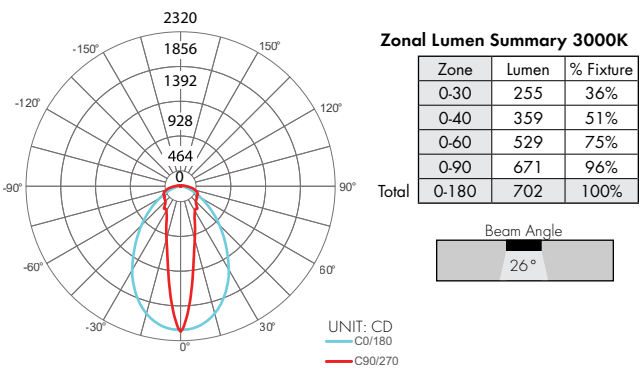
BOS-48-VC72VHO-30K-R
Bosca, 4ft, VHO, 3000K, Raised Lens

431
345
259
172
86
0

Zonal Lumen Summary 3000K

Zone	Lumen	% Fixture
0-30	85	16%
0-40	145	27%
0-60	280	53%
0-90	426	80%
Total 0-180	529	100%

Beam Angle
161°

UNIT: CD
C0/180
C90/270
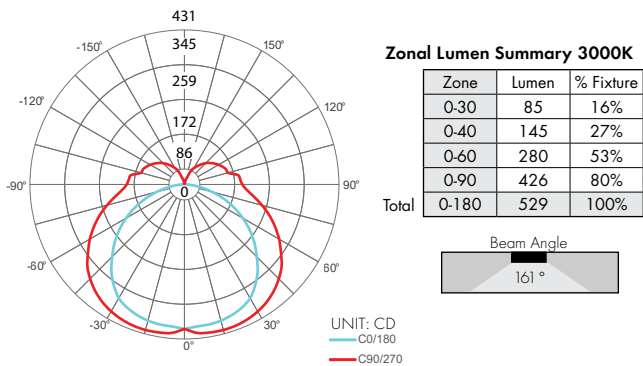
BOS-48-VC72VHO-30K-SI
Bosca, 4ft, VHO, 3000K, Satin Ice Lens

952
762
571
381
190
0

Zonal Lumen Summary 3000K

Zone	Lumen	% Fixture
0-30	179	27%
0-40	292	44%
0-60	509	77%
0-90	652	99%
Total 0-180	659	100%

Beam Angle
103°

UNIT: CD
C0/180
C90/270
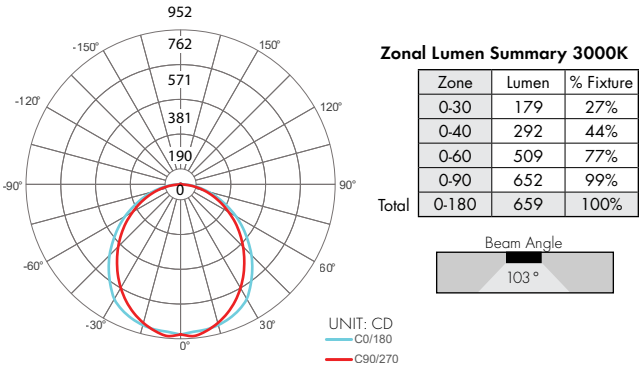
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Power Consumption

Please visit the link/QR code below to access the Luminii Power Consumption Chart tool on our website.

There you will be able to select your fixture, ouput, and desired power feed to get a full power consumption table.

I'm also click-able

Desired Nominal Length: _____

Desired Output: _____

Desired CCT: _____

Voltage Drop Calculator

The below chart assumes nominal voltage of 24 Volts and a Voltage Drop Allowance of 3% through the wire

Wattage [W]	Maximum Wire Length From Power Supply to Start of Run [ft]						
	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG
5	1088.2	684.4	430.3	270.6	170.2	107.1	67.3
10	544.1	342.2	215.1	135.3	85.1	53.5	33.7
15	362.7	228.1	143.4	90.2	56.7	35.7	22.4
20	272.0	171.1	107.6	67.7	42.6	26.8	16.8
25	217.6	136.9	86.1	54.1	34.0	21.4	13.5
30	181.4	114.1	71.7	45.1	28.4	17.8	11.2
35	155.5	97.8	61.5	38.7	24.3	15.3	9.6
40	136.0	85.5	53.8	33.8	21.3	13.4	8.4
45	120.9	76.0	47.8	30.1	18.9	11.9	7.5
50	108.8	68.4	43.0	27.1	17.0	10.7	6.7
55	98.9	62.2	39.1	24.6	15.5	9.7	6.1
60	90.7	57.0	35.9	22.6	14.2	8.9	5.6
65	83.7	52.6	33.1	20.8	13.1	8.2	5.2
70	77.7	48.9	30.7	19.3	12.2	7.6	4.8
75	72.5	45.6	28.7	18.0	11.3	7.1	4.5
80	68.0	42.8	26.9	16.9	10.6	6.7	4.2
85	64.0	40.3	25.3	15.9	10.0	6.3	4.0
90	60.5	38.0	23.9	15.0	9.5	5.9	3.7
96	56.7	35.6	22.4	14.1	8.9	5.6	3.5

Power Supplies

See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.
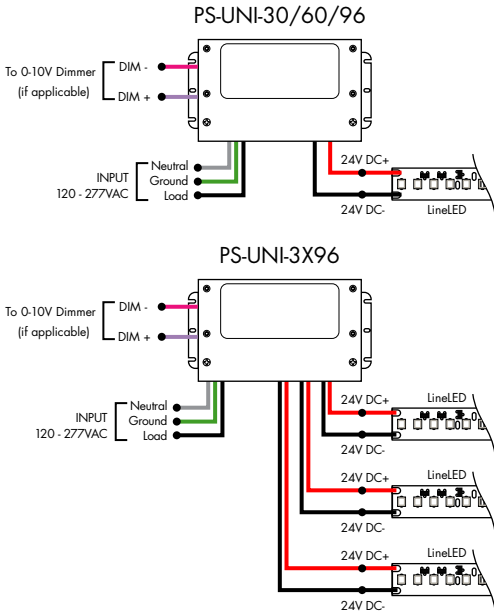
For use with Static White

Ordering Code - Universal Dimming Power Supplies 0.1% 120VAC - 277VAC

MODEL	INPUT CONTROL	WATTAGE	OUTPUT
PS - Power Supply, 120-277VAC	**UNI** - 0-10V Dimming (0.1%), Phase Dimming (0.1%)	**30** - 30 Watts **60** - 60 Watts **96** - 96 Watts **3x96** - 3x96 Watts	**24** - 24 VDC

Compatibility: View a complete list of compatible dimmers on the PS-UNI product page.

0-10V - 0.1% dimming
MLV/ELV/TRIAC - 0.1% dimming, consult dimming compatibility chart

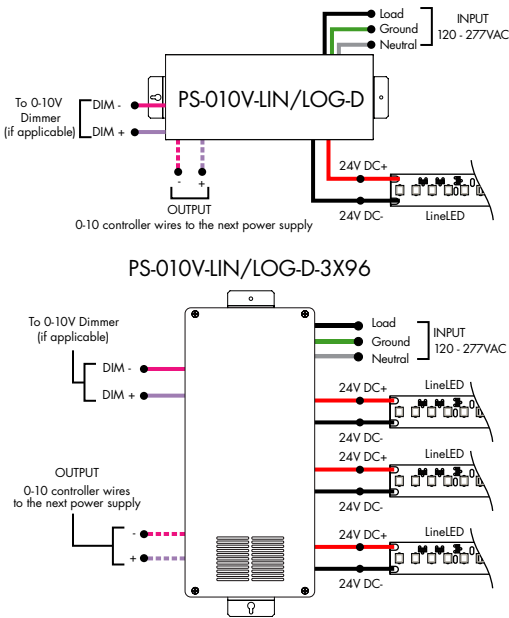| MODELS	PS-UNI-30W	PS-UNI-60W	PS-UNI-96W	PS-UNI-3X96W
Length	6.50"	7.40"	8.66"	11.85"
Width	3.73"	3.73"	3.73"	4.32"
Depth	1.61"	1.61"	1.61"	1.81"

PS-UNI-30/60/96

PS-UNI-3X96

For use with Static White

Ordering Code - 0-10V Dimming Power Supplies 0.1% 120VAC - 277VAC

MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT
PS - Power Supply, 120-277VAC	**010V-LIN** - 0-10V Dimming (0.1%), Linear **010V-LOG** - 0-10V Dimming (0.1%), Logarithmic	**D** - Dry	**96** - 96 Watts **3x96** - 3x96 Watts	**24** - 24 VDC

MODELS	96W	3X96
Length	14.40"	15.00"
Width	5.20"	6.62"
Depth	2.60"	4.45"

PS-010V-LIN/LOG-D

PS-010V-LIN/LOG-D-3X96

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Power Supplies

See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

For use with Static White

Ordering Code - Athena 0-10V LED Driver

MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT	FEATURE
	-	-	-	-	

- **PS** - Power Supply, 120-277VAC
- **010V-LIN** - 0-10V Dimming (0.1%), Linear
- **010V-LOG** - 0-10V Dimming (0.1%), Logarithmic
- **D** - Dry
- **96** - 96 Watts
- **24** - 24 VDC
- **AWNR** - Athena

MODELS	96W
Length	14.40"
Width	5.20"
Depth	2.60"

ATHENA
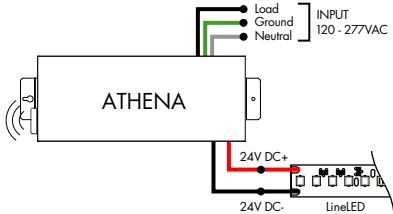
For use with Static White

Ordering Code - DALI 2 Dimming Power Supplies 0.1% 120VAC - 277VAC

MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT
	-	-	-	

- **PS** - Power Supply, 120-277VAC
- **DALI2-DT6** - DALI2 DT6 (0.1%)
- **D** - Dry
- **96** - 96 Watts
- **24** - 24 VDC
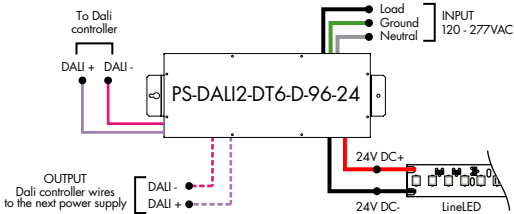
Model	96W
Length	14.40"
Width	5.20"
Depth	2.60"

PS-DALI2-DT6-D-96-24
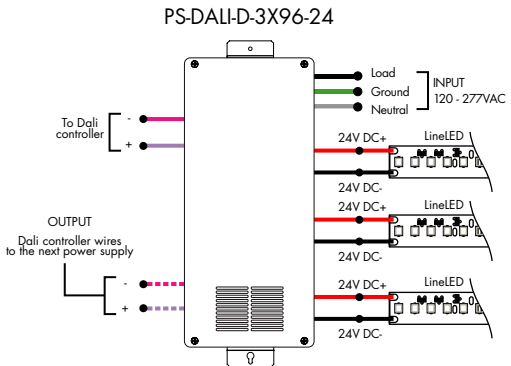
For use with Static White

Ordering Code - DALI Dimming Power Supplies 0.1% 120VAC - 277VAC

MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT
	-	-	-	

- **PS** - Power Supply, 120-277VAC
- **DALI** - DALI (0.1%)
- **D** - Dry
- **96** - 96 Watts
- **3x96** - 3x96 Watts
- **24** - 24 VDC
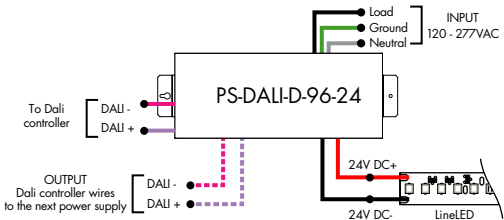
Model	96W	3X96
Length	14.40"	15.00"
Width	5.20"	6.62"
Depth	2.60"	4.56"

PS-DALI-D-96-24

PS-DALI-D-3X96-24

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Power Supplies

See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.
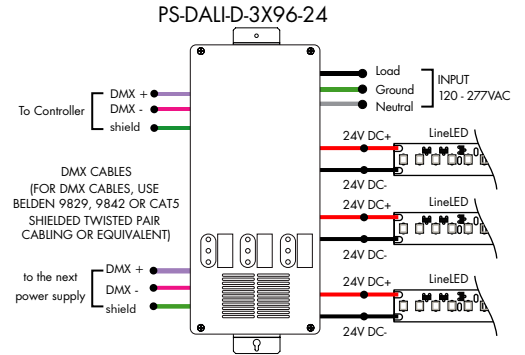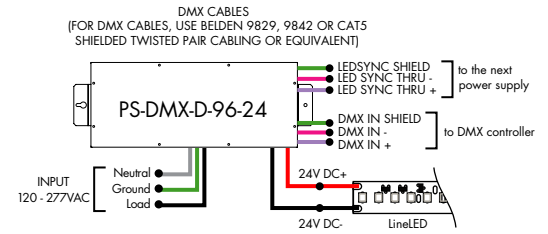
For use with Static White

Ordering Code - DMX Dimming Power Supplies 0.1% 120VAC - 277VAC

MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT
PS - Power Supply, 120-277VAC	DMX - DMX (0.1%)	D - Dry	96 - 96 Watts 3x96 - 3x96 Watts	24 - 24 VDC

MODELS	96W	3X96
Length	14.40"	15.00"
Width	5.20"	6.62"
Depth	2.60"	4.56"

ZONAL CONTROL POWER SUPPLIES.
CONTROL MULTIPLE TAPES/ZONES USING DMX CHANNELS.

PS-DMX-D-96-24

DMX CABLES
(FOR DMX CABLES, USE BELDEN 9829, 9842 OR CAT5 SHIELDED TWISTED PAIR CABLING OR EQUIVALENT)
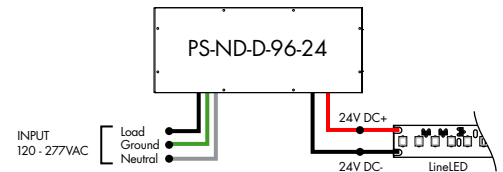

PS-DALI-D-3X96-24

For use with Static White

Ordering Code - Non-Dimming Power Supply, 120VAC - 277VAC

MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT
PS - Power Supply, 120-277VAC	ND - Non Dimming	D - Dry	96 - 96 Watts	24 - 24 VDC

MODELS	96W
Length	14.40"
Width	5.20"
Depth	2.60"

PS-ND-D-96-24

For use with Static White

Ordering Code - In-Ground Power Supplies

MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT
PS120 - Power Supply, 120VAC PS240 - Power Supply, 240VAC PS277 - Power Supply, 277VAC	ELV - ELV Dimming (1%)	IG - In Ground	2X96 - 2X96 Watts	24 - 24 VDC

MODELS	2X96W
Length	8.40"
Width	8.30"
Depth	8.10"
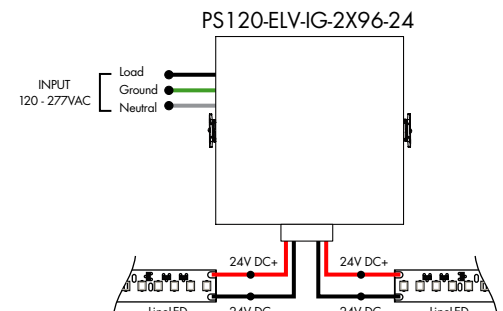
PS120-ELV-IG-2X96-24

Power Supplies

See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.
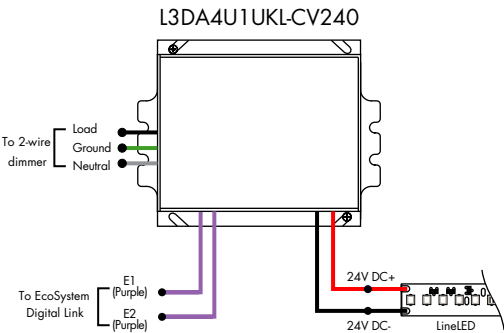
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Lutron Power Supplies 1%

MODEL

L3DA4U1UKL-CV240

Hi-lume™ 1% EcoSystem Voltage LED driver 40W max

MODELS	L3DA4U1UKL-CV240
Length	4.98"
Width	4.00"
Depth	2.62"

L3DA4U1UKL-CV240

⚙ **LUTRON**®

Luminii is a Lutron OEM Advantage Partner
Lutron Power Supplies 0.1%

MODEL

L3D0-96W24V-U

Hi-lume™ 0.1% EcoSystem Voltage LED Driver with Soft-On, Fade-to-Black™ 96W max

MODELS	L3D0
Length	10.50"
Width	5.50"
Depth	2.00"