



## Parks, Recreation, & Culture

### Invitation to Tender No. 2023-PRC-06

### Arts and Heritage Hub

### ADDENDUM #8

**For further information:**

Contact: Chris Barfoot

[cbarfoot@ladysmith.ca](mailto:cbarfoot@ladysmith.ca)

250.245.6421

<b>Tender Issue Date:</b>	Thursday, June 29, 2023
<b>Addendum #1:</b>	Thursday, July 6, 2023
<b>Addendum #2:</b>	Thursday, July 31, 2023
<b>Addendum #3:</b>	Thursday, August 10, 2023
<b>Addendum #4:</b>	Monday, August 14, 2023
<b>Addendum #5:</b>	Wednesday, August 16, 2023
<b>Addendum #6:</b>	Tuesday, August 22, 2023
<b>Addendum #7:</b>	Wednesday, August 23, 2023
<b>Addendum #8:</b>	Monday, August 28, 2023
<b>Site Visit:</b>	10:00 a.m., Friday, August 11, 2023
<b>Tender Closing:</b>	2:00 p.m., Thursday, September 7, 2023
<b>Tender Opening:</b>	2:15 p.m., Thursday, September 7, 2023 Ladysmith City Hall



## **Addendum #8: Invitation to Tender (ITT) No. 2023-PRC-06**

### **Arts and Heritage Hub**

This Addendum includes an Electrical Addendum.

**Issued:** August 28, 2023

This Addendum shall be read in conjunction with and considered as an integral part of the Invitation to Tender (ITT). Revisions supersede the information contained in the original ITT or previously issued Addendum. No consideration will be allowed for any extras due to any Proponents not being familiar with the contents of this Addendum. All other terms and conditions remain the same.

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#### **ADDENDUM**

*/INCLUDE attached 'Electrical Addendum – TA0010' document.*

*End of Addendum #8*

# Tender Addendum TA010

Contractor Reference: None

Date 2023.08.28

Project 2032 LAHH

Client Town of Ladysmith

The following addendum supersedes information contained in drawings, specifications and any previous addenda for the project to the extent referenced. This Addendum forms part of the tender documents and is subject to all of the conditions set out in the contract conditions.

## Electrical Addendum 02

1. Please refer to attached Electrical Addendum 02

*Reason for Change:*

## Distribution List

Per Hector Alcala, Architect AIBC

THE FOLLOWING ADDENDUM SUPERCEDES INFORMATION CONTAINED IN DRAWINGS AND SPECIFICATIONS ISSUED FOR THE PROJECT TO THE EXTENT REFERENCED. THIS ADDENDUM FORMS PART OF THE TENDER DOCUMENTS AND IS SUBJECT TO ALL OF THE CONDITIONS SET OUT IN CONTRACT CONDITIONS.

This electrical addendum contains one (1) page.

**PART 1            ALTERNATE SUBMITTALS**

**1.1            LIGHTING ALTERNATES BY SYMMETRY**

- .1            Please see the attachment for review comments.
- .2            The attachment contains 47 pages.

**END OF ELECTRICAL ADDENDUM NO. 02**



SYMMETRY LIGHTING LTD  
1955 EAST HASTINGS STREET  
VANCOUVER, BC V5L 1T5  
Phone: 778-373-3377  
Fax:  
Contact: Goulding, Bruce

## LADYSMITH Arts & Heritage Hub

23-28655-0

8/15/2023



Project 23-28655-0  
LADYSMITH Arts & Heritage Hub

Submitted By  
SYMMETRY LIGHTING LTD

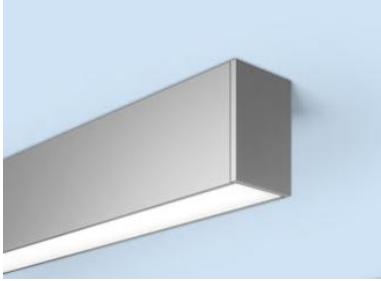
Type	Manufacturer/Brand	Catalog Number
A	Acuity Brands Lighting	<a href="#"><u>S2SD LLP 24FT MSL8 90CRI 35K</u></a> <a href="#"><u>SCT MIN1 XXXX MVOLT XXXX ZT</u></a>
B		<a href="#"><u>9000-UL8/W-R2-120</u></a>
B		<a href="#"><u>9003 WH / 9001WH</u></a>
B		<a href="#"><u>C2Z L16 35 ST3 Z 1 A P</u></a>
D	ABL-Mark Lighting	<a href="#"><u>WHSPR 2X4 90CRI 35K 3000LM</u></a> <a href="#"><u>MIN1 MVOLT SWC ZT</u></a>
L		<a href="#"><u>GS-NEOT-1212-14 A 35K 50FT D</u></a>
L		<a href="#"><u>M300L</u></a>
H		<a href="#"><u>ENCO 249 D 9L 35K 120 SP INT</u></a> <a href="#"><u>DIM BT</u></a>
M	ABL-Lithonia Lighting	<a href="#"><u>ZL1D L48 5000LM FST MVOLT 35K</u></a> <a href="#"><u>80CRI WH</u></a>
N	ABL-Luminis	<a href="#"><u>BVA11B L1L24-TYPE3 K35 120V</u></a> <a href="#"><u>BKT</u></a>

**MARK** ARCHITECTURAL  
LIGHTING

## SPECIFICATIONS

TYPE:

PROJECT:



## SLOT 2

SURFACE DIRECT

### HIGHLIGHTS

- 300 to 1500 lumens per foot Direct
- Up to 117 Lumens per Watt
- 5 direct distributions: Lambertian, Batwing, Wall Wash, Wall Gaze or Asymmetric
- Multiple lens treatment options include Continuous, Drop, in 1/2", 1" or 1 1/2" and Edge View
- Shielding provided by optional deep cell baffle
- Integrated control with optional nLight or nLight Air for system networking
- Driver options for Dim to Dark, 1% or 10% minimum dimming
- White, black or silver paint with satin finish
- Declare listed
- UGR data available on page 3



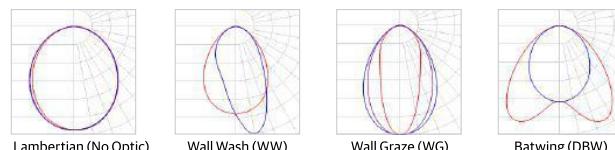
### Fixture Performance

Nominal Lumens/Foot	Direct							
	300LMF	400LMF	600LMF	800LMF	1000LMF	1200LMF	1400LMF	1500LMF
Delivered Lumens/Foot	271	367	547	702	908	1060	1248	1368
Input Watts/Foot	2.38	3.14	4.68	6.27	7.98	9.85	11.93	13.07
Lumens/Watt	114	117	117	112	114	108	105	105

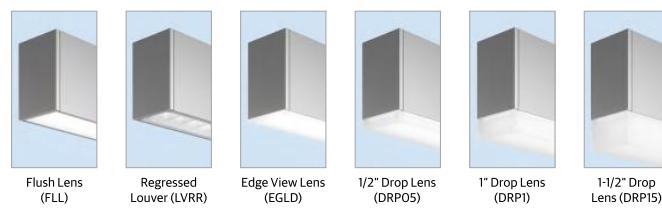
Based on a 4ft 35k fixture with standard lambertian distribution

BAA Declare.

### DIRECT DISTRIBUTION

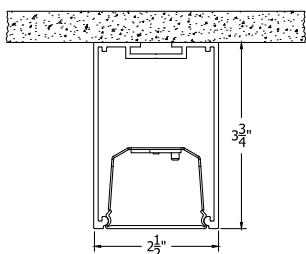


### DIFFUSERS/SHIELDING



### DIMENSIONS

See page 5 for additional details.



**AES ENGINEERING LTD.**  
FOR BIDDING PURPOSES ONLY

ACCEPTABLE	ACCEPTABLE AS NOTED <input checked="" type="checkbox"/>	NOT ACCEPTABLE
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Project Number: 0121.0081  
Per: GS Date: 2023-08-26  
Reviewed only as to general conformity with the design concept.



Project 23-28655-0  
LADYSMITH Arts & Heritage Hub

Submitted By  
SYMMETRY LIGHTING LTD

Catalog Number: S2SD LLP 24FT MSL8 90CRI 35K SCT  
MIN1 XXXX MVOLT XXXX ZT

Type

A

# MARK ARCHITECTURAL LIGHTING™

## Slot 2 Surface Direct

### ORDERING

Example: S2SD LLP 32FT MSL8 90CRI 35K 800LMF MIN1 FLL SCT MVOLT WHTT ZT

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Series	Linear Plan	Total Run Length	Max Section Length	Direct Light Source Color Rendering	Direct LED Color Temp	Direct Lumen Output	Direct Distribution (Optics)
S2SD	Slot 2 Surface Direct (Formerly S2LS)	LLP Linear Longest Possible	24FT Specify Continuous Run Length (in 1" increments, 2' minimum)	MSL2 2FT Length	80CRI 80 CRI	27K 2700K	300LMF 300 Lumens per Foot
	LCB Linear Center Balanced	LCB Linear Center Balanced	MSL3 3FT Length	90CRI 90 CRI	30K 3000K	400LMF 400 Lumens per Foot	
	LSL Longest Same Length	LSL Longest Same Length	MSL4 4FT Length	35K 3500K	600LMF 600 Lumens per Foot		
		For runs longer than 8FT: ALWAYS order the run by the TOTAL RUN LENGTH. Ordering the sections individually will not provide the correct joining hardware to allow connection in the field.	MSL5 5FT Length	40K 4000K	800LMF 800 Lumens per Foot		
			MSL6 6FT Length	50K 5000K	1000LMF 1000 Lumens per Foot		
			MSL7 7FT Length		1200LMF 1200 Lumens per Foot		
			MSL8 8FT Length		1400LMF 1400 Lumens per Foot		
					1500LMF 1500 Lumens per Foot		
					_LMF Specify Lumens between 300LMF - 1500LMF in 50LMF increments		

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Switching	Minimum Dimming Level	Direct Shielding	Voltage	Finish	Emergency Options
SCT	Single Circuit	NODIM <sup>1</sup> Non Dimming	FLL Flush Lens (Default)	MVOLT Multi-Volt, 120-277	(blank) No Emergency Options
		MINI Constant Current, Dimming To 1%	LVR <sup>1</sup> Regressed Louver	120 120V	_E10WLCP <sup>1</sup> # of 10W Battery Packs, Constant Power, Self Diagnostics, T20 Compliant
		MIN10 <sup>2</sup> Constant Current, Dimming To 10%	LVRRA <sup>1</sup> Regressed Louver, Natural Aluminum	277 277V	WEC <sup>2</sup> Emergency Circuit for Entire Run
		DARK Constant Current, Dimming To 0.1%	EGLD <sup>2</sup> Edge Glow, Direct	347 <sup>1</sup> 347V	EC <sup>3</sup> # of Emergency Circuits
		1. Not available with Control Input options. 2. MIN10 is not available with DALI, ECOD or ECOD2.	DRPOS <sup>3</sup> Drop Lens, 1/2"	1.347 is only available with ZT. 347 is not available with emergency options or sensors.	GTD <sup>4</sup> Generator Transfer Device (Remote mounted)
			DRP1 <sup>1</sup> Drop Lens, 1"	RALTBD <sup>1</sup> RAL Paint Finish	1. E10WLCP is not available in units under 6". E10WLCP with NLTAIR2 is only available in units 7"-8". It's not available with EGLD, DRPOS, DRP1, DRP15 or sensors. 2. WEC is not available with sensors. 3. EC powers entire unit. 4. GTD is remote mounted. (See more information on page 9.) GTD is not available with MVOLT, 347, EGLD, DRPOS, DRP1 or DRP15.
			DRP15 <sup>3</sup> Drop Lens, 1-1/2"	RALTBD is for pricing only. Replace with applicable RAL number & finish when placing order.	
			CLL <sup>4</sup> Continuous Flush Lens		
			1. Not available with NLTAIR2. Only available in whole foot increments. 2. EGLD is not available with E10WLCP, GTD, NLTAIR2 or sensors. Only available in whole foot increments. 3. Drop lenses are only available in whole foot increments. They are not available with E10WLCP or GTD. 4. CLL is not available with WW, WG, or DBW.		

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Control Input	Primary Sensor	Secondary Zone	Tertiary Zone	Options
(blank) Non-Dimming	(blank) No sensors	(blank) No Sensors or Secondary Zone	(blank) No Tertiary Zone	BAA Manufactured in US
ZT 0-10V	NS_ Primary Zone with No Sensor (Specify length in feet)	SNS_ Secondary Zone with No Sensor (Specify length in feet)	TNS_ Tertiary Zone (Specify length in feet)	
NLIGHT nLight Wired	ADC <sup>1</sup> Daylight Dimming Sensor	SADC <sup>1</sup> Daylight Dimming Sensor, Secondary Zone		
NLTAIR2 <sup>1</sup> nLight Air 2 Wireless Enabled	PDT <sup>1</sup> Dual Technology Occupancy Sensor, PIR and Microphonics Sensor	SPDT <sup>1</sup> Dual Technology Occupancy Sensor, PIR and Microphonics Sensor, Secondary Zone		
DALI <sup>2</sup> DALI	APIR <sup>2</sup> Passive Infrared Occupancy and Daylight Dimming Sensor	SAPIR <sup>2</sup> Passive Infrared Occupancy and Daylight Dimming Sensor, Secondary Zone		
ECOD <sup>3</sup> Lutron EcoSystem Digital Driver	APDT <sup>2</sup> Dual Technology Occupancy and Daylight Dimming Sensor	SAPDT <sup>2</sup> Dual Technology Occupancy and Daylight Dimming Sensor, Secondary Zone		
1. NLTAIR2 can be used as a normal power sensing device for Light Air devices and luminaires with EM emergency options. It is not available with NODIM or WL. NLTAIR2 with DCT fixtures cannot be less than 4". 2. DALI is only available with DARK. DALI is not available with sensors. 3. ECOD is only available with MINI. It is not available with E10WLCP & sensors. It is only available with 300LMF, 600LMF, 1000LMF or 1500LMF.	Sensors are only available with FLL and fixtures 4' and above. Please see page 8 for more details. 1. ADC & PDT are available with ZT or NLIGHT. 2. APIR & APDT are available with ZT, NLIGHT or NLTAIR2.	Sensors are only available with FLL and fixtures 4' and above. Please see page 8 for more details. 1. ADC & PDT are available with ZT or NLIGHT/ 2. APIR & APDT are available with ZT, NLIGHT or NLTAIR2.		

**NOTE:** Unit length and lumen outputs may affect available options.



Project 23-28655-0  
LADYSMITH Arts & Heritage Hub  
Submitted By  
SYMMETRY LIGHTING LTD

Catalog Number: S2SD LLP 24FT MSL8 90CRI 35K SCT  
MIN1 XXXX MVOLT XXXX ZT

Type  
**A**

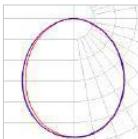
# **MARK**

## ARCHITECTURAL LIGHTING™

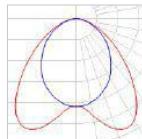
### **Slot 2**

#### Surface Direct

#### PHOTOMETRICS



Test Report: ISF 23168P741  
IES LM79-08  
S2SD U4 80CRI 35K 1000LMF  
Lumens: 3631  
Wattage: 31.91  
Efficacy: 113.78



Test Report: ISF 23168P741  
IES LM79-08  
S2SD U4 80CRI 35K 1000LMF DBW FLLC  
Lumens: 2298  
Wattage: 31.91  
Efficacy: 72.02

**EXPECTED LIFE: L90 @ 60,000 HOURS**  
**CALCULATED LIFE: L80 @ 120,000 HOURS**

#### CCT SCALING CHART

CCT	CRI	MULTIPLIER
27K	80CRI	0.94
30K	80CRI	0.97
35K	80CRI	1.00
40K	80CRI	1.02
50K	80CRI	1.03
27K	90CRI	0.79
30K	90CRI	0.81
35K	90CRI	0.83
40K	90CRI	0.84
50K	90CRI	0.89

Lumen scaling charts can be used to approximate the lumen values at different Kelvin temperatures, color rendering indices, optics or shielding.

Example: Find base lumen value x multiplier value = new lumen value

#### OPTICAL SCALING CHARTS

DOWNLIGHT	
DISTRIBUTIONS	MULTIPLIER
WW	0.76
WG	0.85
DBW	0.71

\*Base fixture with Lambertian distribution and flush lens

#### UGR CHART

<b>COMING SOON</b>		

UGR varies based on luminaire options and is affected by application dependent parameters. Numbers depicted here are considered "Luminaire-UGR" and/or "Point-UGR" values. To determine a more precise maximum UGR value ("Application-UGR"), a full lighting design layout should be completed with the selected luminaire configuration for each application.

# MARK

## ARCHITECTURAL LIGHTING™

### Slot 2 Surface Direct

#### LINEAR PLAN

Mark Lighting offers the ability to provide a continuous run plan to suit your requirements by optionally offering three different methods of configuration.

##### LLP- Linear Longest Possible

In this configuration, the longest length available is optimized, resulting in the fewest segments and mounting locations. Caution should be used where balanced appearance is a concern. Example: 20 FT run would have 2, 8 FT segments and 1, 4 FT segment at the end of the run.

LLP	8 FT	8 FT	4FT
-----	------	------	-----

##### LCB- Linear Center Balanced:

This configuration incorporates the longest center segment(s) along with any additional lengths required to fill the run length, added to the run ends. Example: 16 FT run would have 2, 4 FT segments (one at each end) and 1, 8 FT segment in the center.

LCB	4 FT	8 FT	4FT
-----	------	------	-----

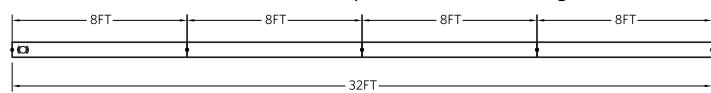
##### LSL- Linear Same Length:

In this configuration, each segment is the same length and is standardized based on the longest length available and is the only option provided. Because it is dependent on one segment length and there are mathematical limitations on what overall row lengths can be achieved. Example: 20 FT row would be achieved with 5, 4 FT long segments equaling 20 FT (nominal).

LSL	4FT	4FT	4FT	4FT	4FT
-----	-----	-----	-----	-----	-----

#### Total Run Length

This system is not modular. Runs longer than 8FT will be automatically configured with left, intermediate and right sections, based on how you specify the TOTAL RUN LENGTH and MAXIMUM SECTION LENGTH parameters in the ordering information. Always order the total run length, not the individual sections.



Example: This run must be ordered as 1pc "S2SD LLP 32FT MSL8..."



Example: If you order as 4pcs "S2SD LLP 8FT MSL8..." you will receive these INDIVIDUAL sections that cannot be joined together

#### Maximum Section Length

The run will be broken out using as many sections at the chosen maximum section length as possible. Shorter sections will then complete the desired run length.

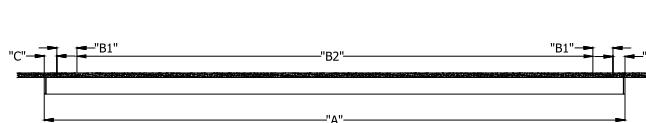
##### Examples:

S2SD LLP 21FT MSL5... = 5FT / 4FT / 4FT / 4FT

S2SD LLP 21FT MSL6... = 6FT / 6FT / 5FT / 4FT

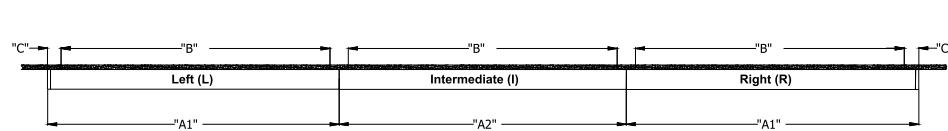
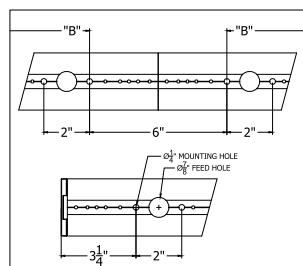
S2SD LLP 21FT MSL7... = 7FT / 7FT / 7FT

S2SD LLP 21FT MSL8... = 8FT / 8FT / 5FT

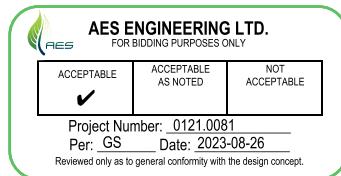


INDIVIDUAL FIXTURES					
ORDERED LENGTH	"A" O.A.L.	"B1" O.C.	"B2" O.C.	"C" FROM END	APPROX. WEIGHT
2FT	2'- 0 9/16"	2"	1'- 2"	3 1/4"	1.6 LBS
3FT	3'- 0 9/16"	2"	1'- 2"	3 1/4"	2.4 LBS
4FT	4'- 0 9/16"	2"	1'- 2"	3 1/4"	3.2 LBS
5FT	5'- 0 9/16"	2"	1'- 2"	3 1/4"	4 LBS
6FT	6'- 0 9/16"	2"	1'- 2"	3 1/4"	4.8 LBS
7FT	7'- 0 9/16"	2"	1'- 2"	3 1/4"	5.6 LBS
8FT	8'- 0 9/16"	2"	1'- 2"	3 1/4"	6.4 LBS

#### Mounting



RUN LAYOUT					
ORDERED LENGTH	"A1" O.A.L.	"A2" O.A.L.	"B" O.C.	"C" FROM END	APPROX. WEIGHT
4FT	4'- 0 1/4"	4'-0"	3'-6"	3 1/4"	3.2 LBS
5FT	5'- 0 1/4"	5'-0"	4'-6"	3 1/4"	4 LBS
6FT	6'- 0 1/4"	6'-0"	5'-6"	3 1/4"	4.8 LBS
7FT	7'- 0 1/4"	7'-0"	6'-6"	3 1/4"	5.6 LBS
8FT	8'- 0 1/4"	8'-0"	7'-6"	3 1/4"	6.4 LBS



**A.A.G. STUCCHI s.r.l. u.s.**  
Via IV Novembre 30/32  
23854 Olginate (Le) - ITALY  
Ph. +39-0341-653111  
Fax +39-0341-653250  
[info@aagstucchi.it](mailto:info@aagstucchi.it)  
[www.aagstucchi.it](http://www.aagstucchi.it)

**9000-UL4/B-R2-120****9000-UL4/W-R2-120**

### BINARIO A 6 CONDUTTORI EUROSTANDARD PLUS® PER CONTROSOFFITTO EUROSTANDARD PLUS® 6 CONNECTORS RECESSED TRACK

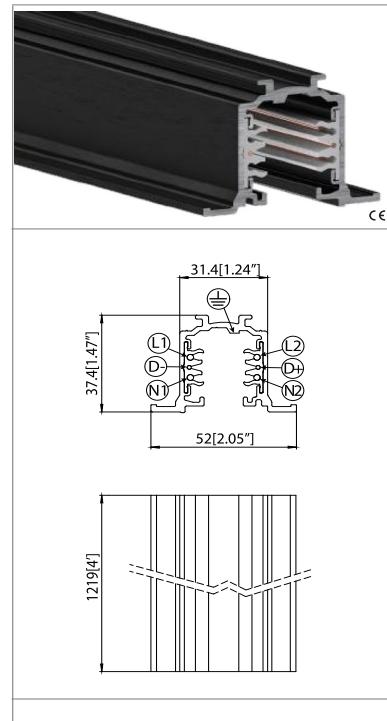
**Dati tecnici***Technical data*

- Frequenza	60Hz
- Frequency	
- Corrente e tensione nominales	120V-20A 1A-50Vac FELV
- Rated current and voltage	
- Carico sul circuito	2,4kVA
- Circuit power	

**Caratteristiche***Characteristics*

L1/L2/N1/N2/terra 2x120V/20A + D+/D- 2x1A/50V FELV AC (DALI)  
L1/L2/N1/N2/ground 2x120V/20A + D+/D- 2x1A/50V FELV AC (DALI)

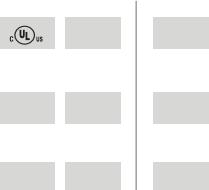
- Lunghezza: 4 ft
- Length: 4 ft
- Estruso esterno in alluminio. Colori disponibili: nero (B) e bianco (W)
- External extruded body in aluminium. Available colours: black (B) and white (W)
- Estruso isolante in PVC
- Insulated extruded body in PVC
- Conduttori in rame
- Copper conductors

fissaggio a plafone  
ceiling mountingfissaggio a sospensione  
suspension mounting

S-9000/H...



9004-R...


**Marchi di qualità**  
*Quality marks*

**Direttive Europee**  
*European directives*

Conforme "RoHS"  
"RoHS" compliant

**Pesi e confezioni**  
*Weights and packaging*

Art. Codice prodotti Product references	g Peso netto Net weight	n° pz per sacco per bag	n° pz per scatola per box	n° pz per cartone per carton
9000-UL4/B-R2-120				
9000-UL4/W-R2-120				

**Note**

Notes



**A.A.G.**  
**S T U C C H I**  
Follow your illumination

**A.A.G. STUCCHI s.r.l. u.s.**  
Via IV Novembre 30/32  
23854 Olginate (Le) - ITALY  
Ph. +39-0341-653111  
Fax +39-0341-653250  
[info@aagstucchi.it](mailto:info@aagstucchi.it)  
[www.aagstucchi.it](http://www.aagstucchi.it)

**9000-UL8/B-R2-120****9000-UL8/W-R2-120**

### BINARIO A 6 CONDUTTORI EUROSTANDARD PLUS® PER CONTROSOFFITTO EUROSTANDARD PLUS® 6 CONNECTORS RECESSED TRACK

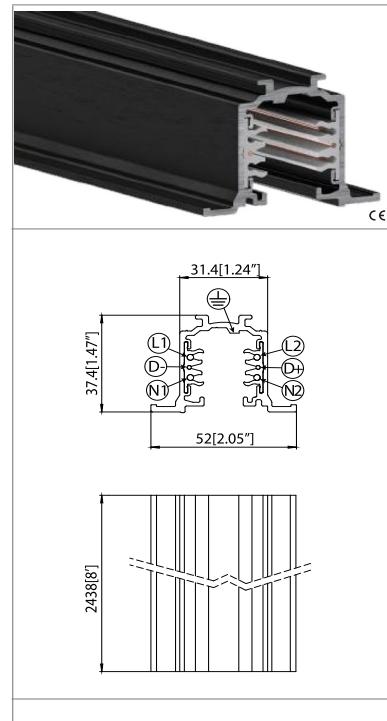
**Dati tecnici***Technical data*

- Frequenza	60Hz
- Frequency	
- Corrente e tensione nominales	120V-20A 1A-50Vac FELV
- Rated current and voltage	
- Carico sul circuito	2,4kVA
- Circuit power	

**Caratteristiche***Characteristics*

L1/L2/N1/N2/terra 2x120V/20A + D+/D- 2x1A/50V FELV AC (DALI)  
L1/L2/N1/N2/ground 2x120V/20A + D+/D- 2x1A/50V FELV AC (DALI)

- Lunghezza: 8 ft  
— Length: 8 ft
- Estruso esterno in alluminio. Colori disponibili: nero (B) e bianco (W)  
— External extruded body in aluminium. Available colours: black (B) and white (W)
- Estruso isolante in PVC  
— Insulated extruded body in PVC
- Conduttori in rame  
— Copper conductors

fissaggio a plafone  
ceiling mountingfissaggio a sospensione  
suspension mounting

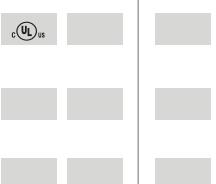
S-9000/TP...



9000-R...



9004-R...


**Marchi di qualità**  
Quality marks

**Direttive Europee**  
European directives

Conforme "RoHS"  
"RoHS" compliant

**Pesi e confezioni**  
Weights and packaging

Art. Codice prodotti Product references	g Peso netto Net weight	n° pz per sacco per bag	n° pz per scatola per box	n° pz per cartone per carton
9000-UL8/B-R2-120				
9000-UL8/W-R2-120				

**Note**

Notes

Submitted By  
SYMMETRY LIGHTING LTD

Note:



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Il collegamento elettrico alla rete può essere effettuato soltanto tramite gli art. 9001/... e 9002/...

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Il profilo del binario ha una chiave meccanica per rispettare il giusto collegamento tra gli spezzoni di binario.

Anche le testate ed i giunti di collegamento presentano una chiave meccanica (presenza vite - vedi figura sotto) che deve essere tenuta in considerazione per la scelta del giusto componente.

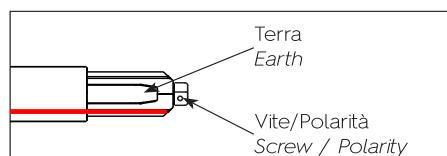
Nei disegni di catalogo di questi accessori il posizionamento della chiave meccanica è evidenziato da una linea rossa.

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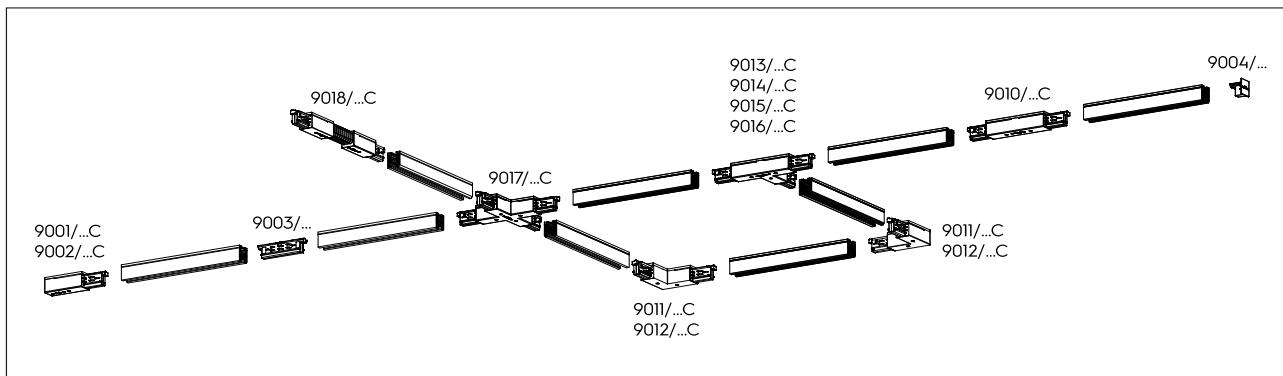
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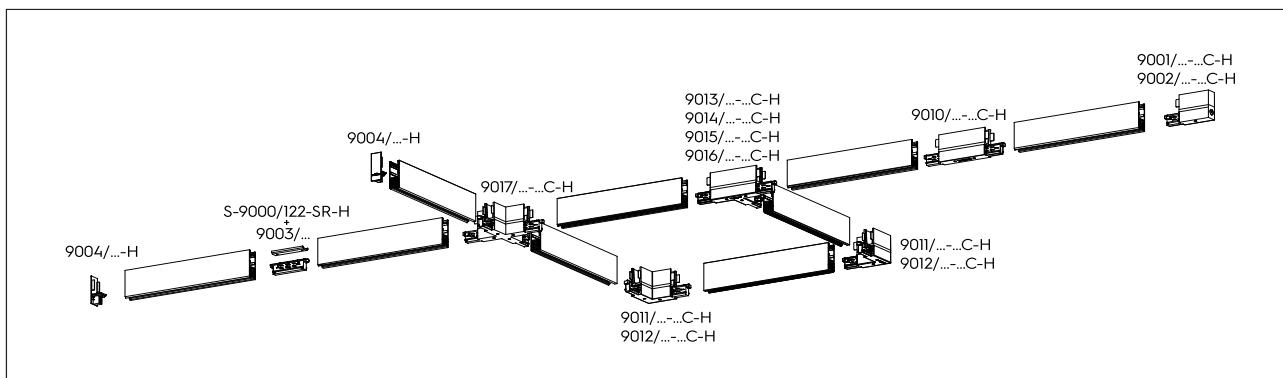


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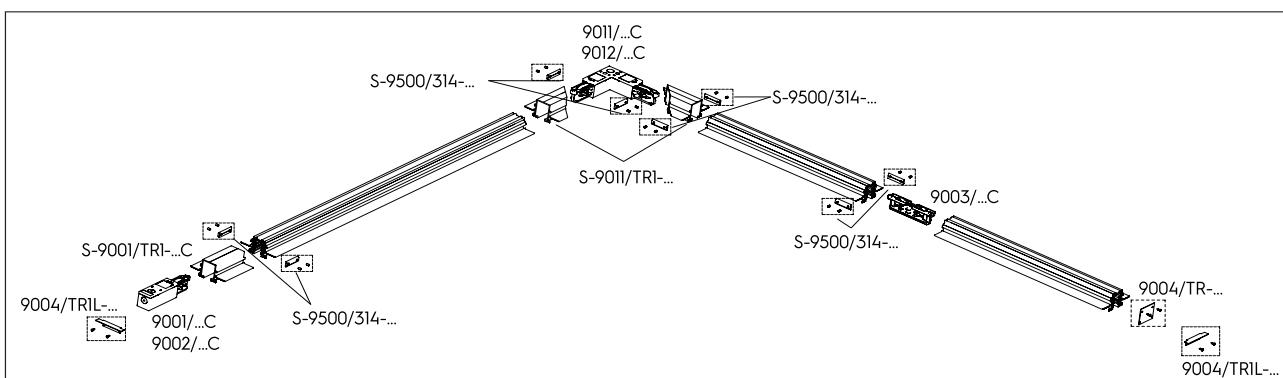
Binario standard / recessed  
Standard / recessed track



Binario H  
H track



Binario trimless  
Trimless track





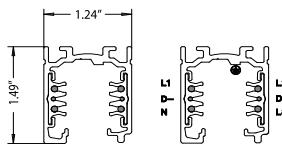
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Il sistema binario OneTrack® è un sistema misto trifase con due conduttori aggiuntivi per la gestione di un qualsiasi segnale (per esempio dali, dmx, lon, eib, ecc). Il sistema è in fase di certificazione secondo la norma EN 60570 e la sua installazione deve essere eseguita da personale qualificato senza superare i carichi massimi (vedi fig). Durante il cablaggio elettrico bisogna rispettare lo schema elettrico indicato.

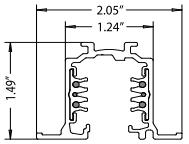
**BINARIO TRIFASE + SEGNALE DI CONTROLLO:  
9000-.../...-ST e 9000-.../...-R**

A.A.G. Stucchi OneTrack® system is a 3 phase mixed system with two additional conductors intended to manage a general data signal (for example dali, dmx, lon, eib, etc.). The system is in the process to be EN 60570 certified and its installation must be accomplished by highly qualified person without exceeding the maximum loads (see pics). During the wiring the electrical scheme must be followed.

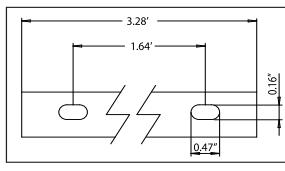
**THREE-PHASE TRACK + CONTROL SYSTEM:  
9000-.../...-ST AND 9000-.../...-R**



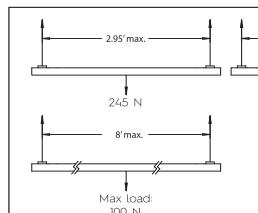
Versione standard (...-ST)  
Standard version (...-ST)



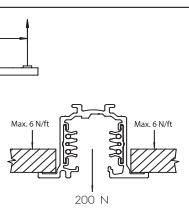
Versione recessed (...-R)  
Recessed version (...-R)



Posizione asole  
Mounting holes position



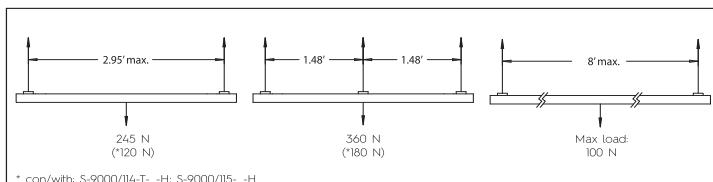
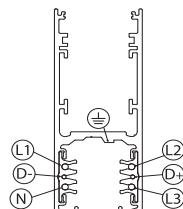
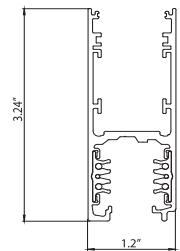
Schema di carico  
Load scheme



Schema elettrico  
Electrical scheme

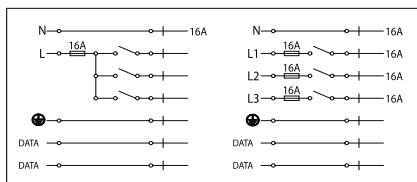
**BINARIO TRIFASE + SEGNALE DI CONTROLLO:  
9000-.../...-H**

**THREE-PHASE TRACK + CONTROL SYSTEM:  
9000-.../...-H**



\* cor/with: S-9000/114-T-...-H; S-9000/115-...-H

Schema di carico  
Load scheme



Schema elettrico  
Electrical scheme

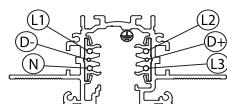
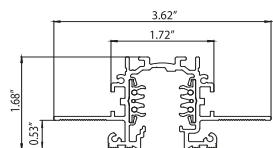


**A.A.G.  
STUCCHI**  
Follow your illumination

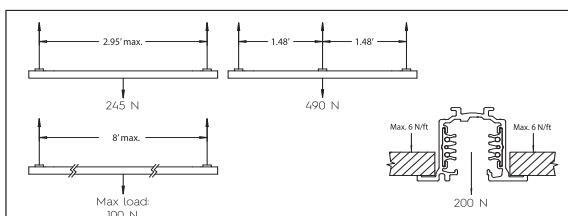
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**BINARIO TRIFASE + SEGNALE DI CONTROLLO:  
9000-.../...-TR**

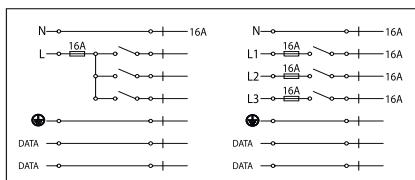
**THREE-PHASE TRACK + CONTROL SYSTEM:  
9000-.../...-TR**



Versione trimless (...-TR)  
Standard trimless (...-TR)



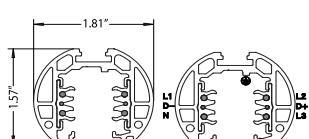
Schema di carico  
Load scheme



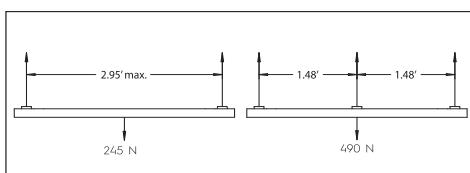
Schema elettrico  
Electrical scheme

**BINARIO TRIFASE + SEGNALE DI CONTROLLO:  
9000-.../...-ST15**

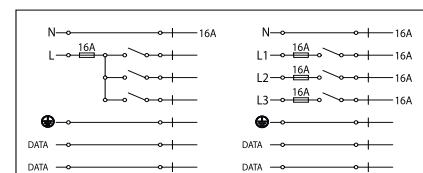
**THREE-PHASE TRACK + CONTROL SYSTEM:  
9000-.../...-ST15**



Versione round (...-ST15)  
Round version (...-ST15)



Schema di carico  
Load scheme



Schema elettrico  
Electrical scheme

Le barre di binario di lunghezza 4-8-12 ft vengono fornite con i conduttori di rame già incassati come prescritto dalla norma di sicurezza. Nel caso in cui si abbia la necessità di accorciare la lunghezza del binario in fase di installazione, dopo il taglio utilizzare la pinza speciale (S-9000/T per ...ST, ...R, ...H - S-9000/T-TR per ...TR) avendo cura di intestare i 4 conduttori (L1-L2-L3-N) di almeno 0,20" per garantire le corrette distanze elettriche in aria e superficiali (fig. 4 e 5).

The track bars with lenght 4-8-12 ft are provided with the copper conductors already recessed, in compliance with the relevant safety standard. If it is necessary to shorten the track during installation, after the cut it is necessary to use the special cutting tool (S-9000/T with ...ST, ...R, ...H - S-9000/T-TR with ...TR) to recess the 4 conductors (L1-L2-L3-N) at least of 0,20" so that the correct air, surface and electrical distances are respected (pic. 4 and 5).

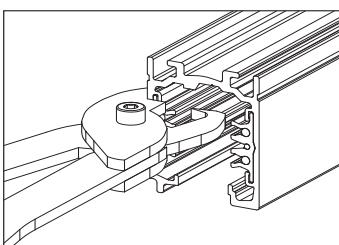


Fig. 4 Intestazione conduttori del binario  
Pic. 4 Recessing track conductors

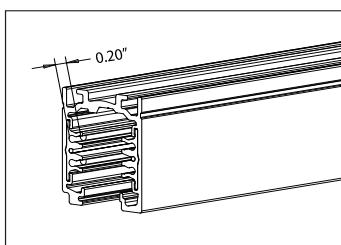


Fig. 5 Intestazione minima  
Pic. 5 Minimum recessing



**A.A.G.**  
**S T U C C H I**  
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**9000-UL4/B-R2-120****9000-UL4/W-R2-120**

### BINARIO A 6 CONDUTTORI EUROSTANDARD PLUS® PER CONTROSOFFITTO EUROSTANDARD PLUS® 6 CONNECTORS RECESSED TRACK

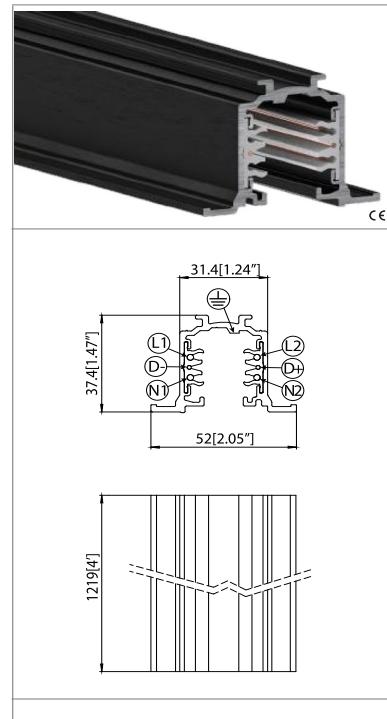
**Dati tecnici***Technical data*

- Frequenza	60Hz
- Frequency	
- Corrente e tensione nominales	120V-20A 1A-50Vac FELV
- Rated current and voltage	
- Carico sul circuito	2,4kVA
- Circuit power	

**Caratteristiche***Characteristics*

L1/L2/N1/N2/terra 2x120V/20A + D+/D- 2x1A/50V FELV AC (DALI)  
L1/L2/N1/N2/ground 2x120V/20A + D+/D- 2x1A/50V FELV AC (DALI)

- Lunghezza: 4 ft
- Length: 4 ft
- Estruso esterno in alluminio. Colori disponibili: nero (B) e bianco (W)
- External extruded body in aluminium. Available colours: black (B) and white (W)
- Estruso isolante in PVC
- Insulated extruded body in PVC
- Conduttori in rame
- Copper conductors



fissaggio a plafone

ceiling mounting

fissaggio a sospensione  
suspension mounting

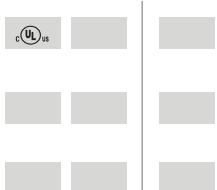
S-9000/TP...



S-9000/H...



9004-R...


**Marchi di qualità**  
*Quality marks*

**Direttive Europee**  
*European directives*

Conforme "RoHS"  
"RoHS" compliant

**Pesi e confezioni**  
*Weights and packaging*

Art. Codice prodotti Product references	g Peso netto Net weight	n° pz per sacco per bag	n° pz per scatola per box	n° pz per cartone per carton
9000-UL4/B-R2-120				
9000-UL4/W-R2-120				

**Note**

Notes



**S T U C C H I**  
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**9000-UL8/B-R2-120****9000-UL8/W-R2-120**

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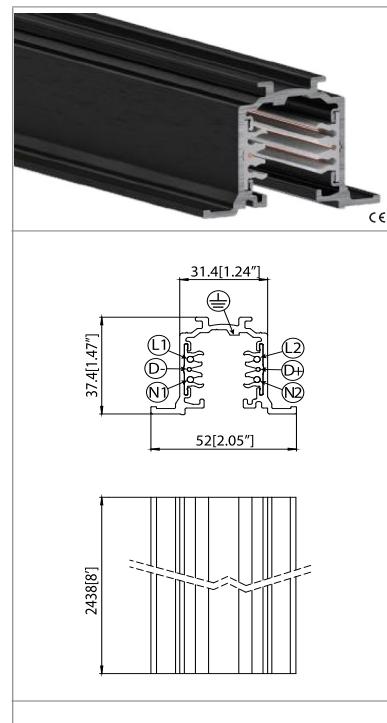
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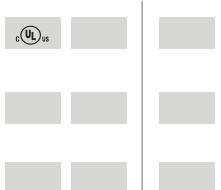
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fissaggio a plafone  
ceiling mountingfissaggio a sospensione  
suspension mounting

S-9000/H...



9004-R...


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*Quality marks*

**Direttive Europee**  
*European directives*
Conforme "RoHS"  
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**Pesi e confezioni**  
*Weights and packaging*

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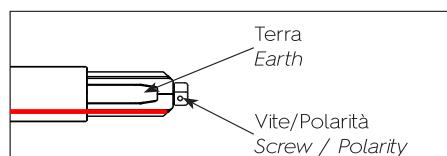
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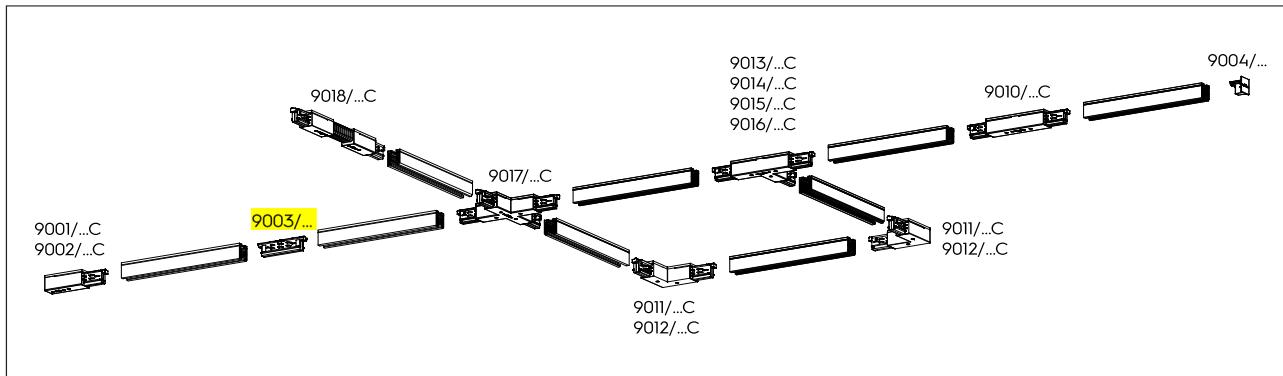
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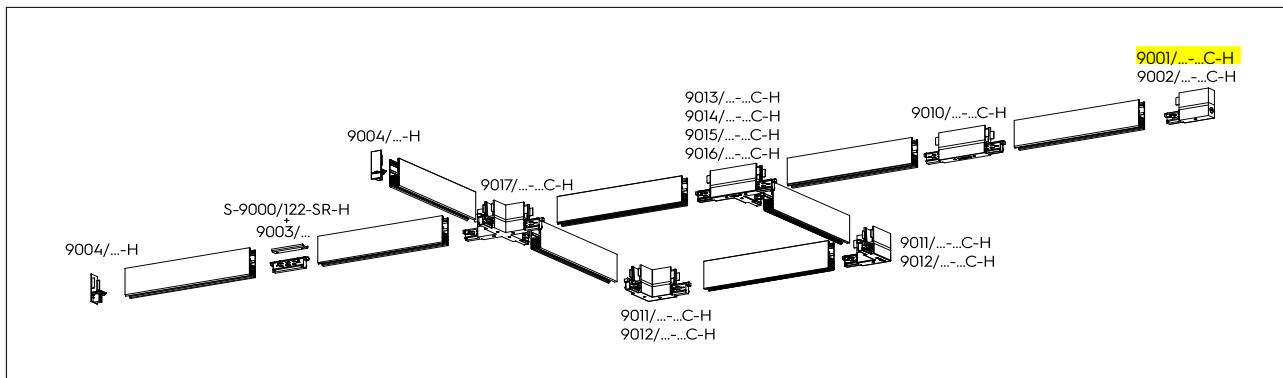


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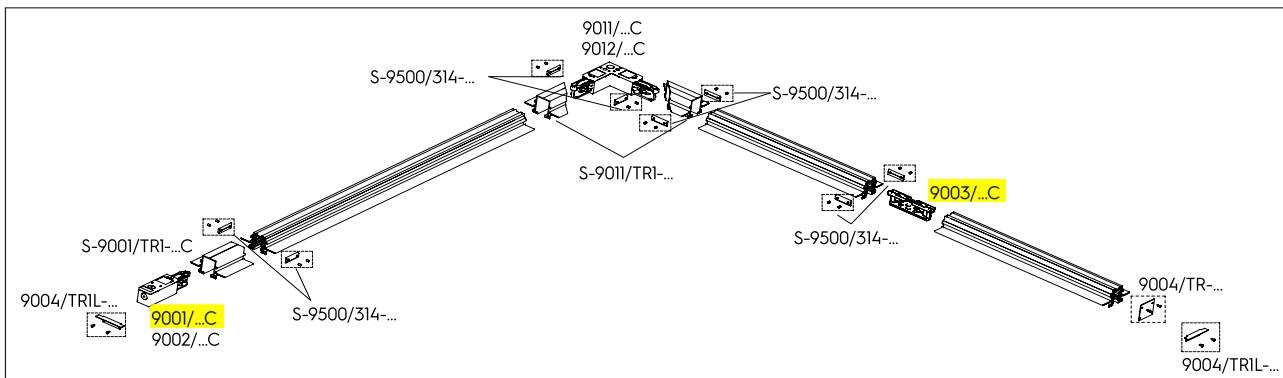
Binario standard / recessed  
Standard / recessed track



Binario H  
H track



Binario trimless  
Trimless track





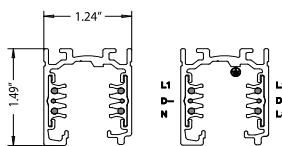
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[www.aagstucchi.it](http://www.aagstucchi.it)

Il sistema binario OneTrack® è un sistema misto trifase con due conduttori aggiuntivi per la gestione di un qualsiasi segnale (per esempio dali, dmx, lon, eib, ecc). Il sistema è in fase di certificazione secondo la norma EN 60570 e la sua installazione deve essere eseguita da personale qualificato senza superare i carichi massimi (vedi fig). Durante il cablaggio elettrico bisogna rispettare lo schema elettrico indicato.

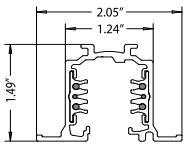
**BINARIO TRIFASE + SEGNALE DI CONTROLLO:  
9000-.../...-ST e 9000-.../...-R**

A.A.G. Stucchi OneTrack® system is a 3 phase mixed system with two additional conductors intended to manage a general data signal (for example dali, dmx, lon, eib, etc.). The system is in the process to be EN 60570 certified and its installation must be accomplished by highly qualified person without exceeding the maximum loads (see pics). During the wiring the electrical scheme must be followed.

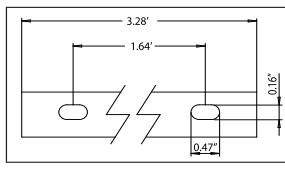
**THREE-PHASE TRACK + CONTROL SYSTEM:  
9000-.../...-ST AND 9000-.../...-R**



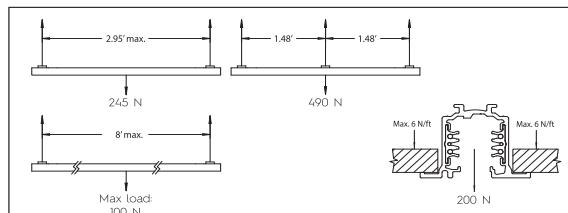
Versione standard (...-ST)  
Standard version (...-ST)



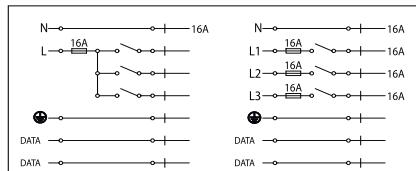
Versione recessed (...-R)  
Recessed version (...-R)



Posizione asole  
Mounting holes position



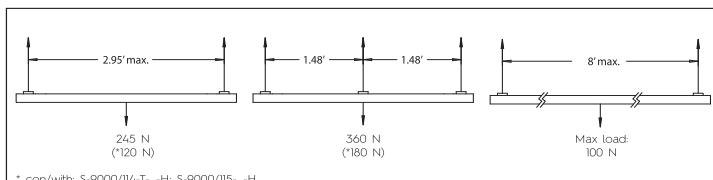
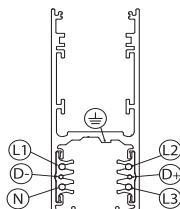
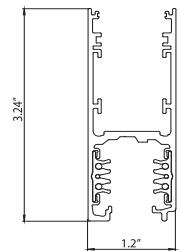
Schema di carico  
Load scheme



Schema elettrico  
Electrical scheme

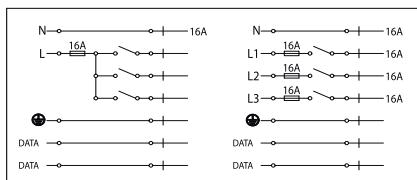
**BINARIO TRIFASE + SEGNALE DI CONTROLLO:  
9000-.../...-H**

**THREE-PHASE TRACK + CONTROL SYSTEM:  
9000-.../...-H**



\* cor/with: S-9000/114-T-...-H; S-9000/115-...-H

Schema di carico  
Load scheme



Schema elettrico  
Electrical scheme

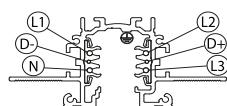
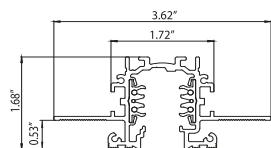


**A.A.G.  
STUCCHI**  
Follow your illumination

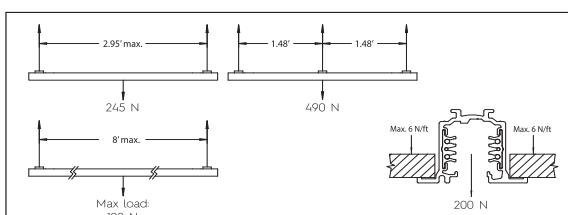
**A.A.G. STUCCHI s.r.l. u.s.**  
Via IV Novembre 30/32  
23854 Olginate (LC) - ITALY  
Ph. +39-0341-653111  
Fax +39-0341-653250  
info@aagstucchi.it  
www.aagstucchi.it

**BINARIO TRIFASE + SEGNALE DI CONTROLLO:  
9000-.../...-TR**

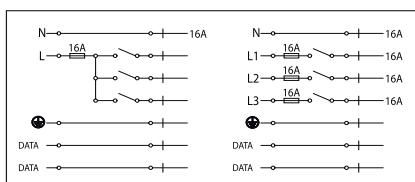
**THREE-PHASE TRACK + CONTROL SYSTEM:  
9000-.../...-TR**



Versione trimless (...-TR)  
Standard trimless (...-TR)



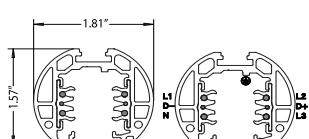
Schema di carico  
Load scheme



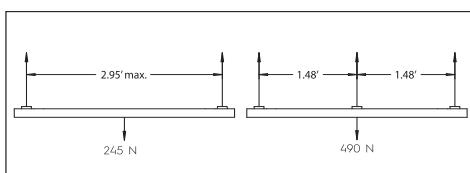
Schema elettrico  
Electrical scheme

**BINARIO TRIFASE + SEGNALE DI CONTROLLO:  
9000-.../...-ST15**

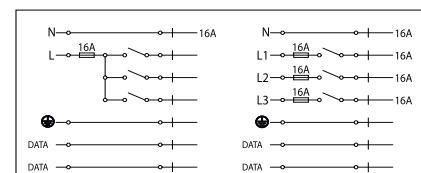
**THREE-PHASE TRACK + CONTROL SYSTEM:  
9000-.../...-ST15**



Versione round (...-ST15)  
Round version (...-ST15)



Schema di carico  
Load scheme



Schema elettrico  
Electrical scheme

Le barre di binario di lunghezza 4-8-12 ft vengono fornite con i conduttori di rame già incassati come prescritto dalla norma di sicurezza. Nel caso in cui si abbia la necessità di accorciare la lunghezza del binario in fase di installazione, dopo il taglio utilizzare la pinza speciale (S-9000/T per ...ST, ...R, ...H - S-9000/T-TR per ...TR) avendo cura di intestare i 4 conduttori (L1-L2-L3-N) di almeno 0,20" per garantire le corrette distanze elettriche in aria e superficiali (fig. 4 e 5).

The track bars with lenght 4-8-12 ft are provided with the copper conductors already recessed, in compliance with the relevant safety standard. If it is necessary to shorten the track during installation, after the cut it is necessary to use the special cutting tool (S-9000/T with ...ST, ...R, ...H - S-9000/T-TR with ...TR) to recess the 4 conductors (L1-L2-L3-N) at least of 0,20" so that the correct air, surface and electrical distances are respected (pic. 4 and 5).

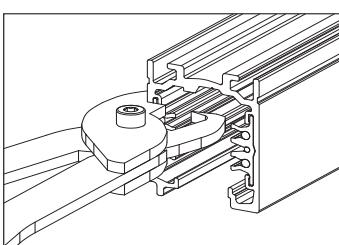


Fig. 4 Intestazione conduttori del binario  
Pic. 4 Recessing track conductors

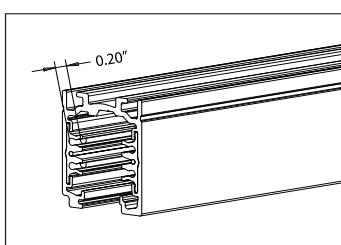


Fig. 5 Intestazione minima  
Pic. 5 Minimum recessing

**C2Z**Static White  
15° - 35° Zoom**Input Requirements**

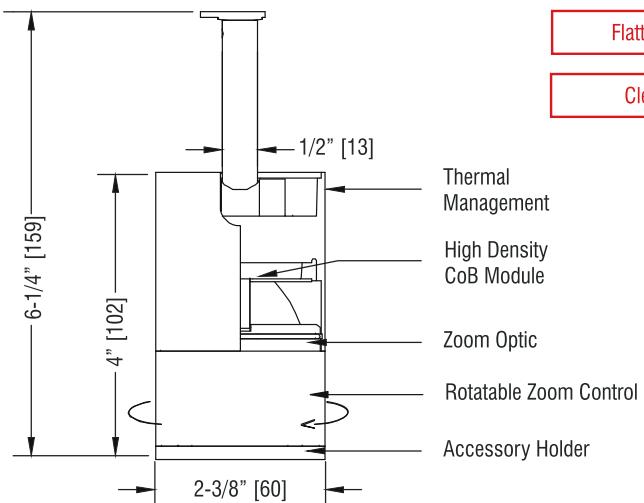
1600/1450 Lumens 120VAC/0.2A/23W  
240VAC/0.2A/23W  
277VAC/0.1A/23W

**Project Name****Type**



Flatten &amp; Save

Clear Form



Enter Catalog Number Sequentially from Left to Right

<b>C2Z</b>	Lumens	CRI	CCT	- Adaptor	Dimming	Level	Options	Voltage	- Finish
------------	--------	-----	-----	-----------	---------	-------	---------	---------	----------

Model	Lumens/CRI	CCT	Adaptor	Dimming	Level	Options	Voltage	Finish	
C2Z	L16 1600/92	27	2700	9TC	BusRun Clipless	E	ELV 1	1%	P* Potentiometer R** Rotation Lock SP* Switch w/ Potentiometer SR** Switch w/ Rotation Lock
	L14 1450/98	30	3000	9TD	BusRun Deep				A 120 D 240 F* 240 (2-Circuit)
		35	3500	9TS	BusRun Shallow				C 277
		40	4000	9HC	BusRun Clipless w/ Driverbox	E	ELV 0	10%	* Potentiometers are available on ELV dimmable or non-dimming circuits only.
				9HD	BusRun Deep w/ Driverbox	W	Wireless	C Casambi	** Rotation Lock and type "F" voltage are exclusive to 9T fitters. Rotation Lock is not available with Potentiometer.
				9HS	BusRun Shallow w/ Driverbox	Z	Avi-On Zigbee T Athena RF		
				ST2	2-Circuit Stucchi	E	ELV 0	10%	
				ST3	3-Circuit Stucchi	Z	0-10	1	1%
				3L	5" Canopy	M	DMX	D	Dark
				5L	3.5" QC Canopy	D	DALI		
				7L	2" QC Canopy (Remote Driver Only)				

**AES ENGINEERING LTD.**  
FOR BIDDING PURPOSES ONLY

ACCEPTABLE	ACCEPTABLE AS NOTED	NOT ACCEPTABLE X
------------	---------------------	------------------

Project Number: 0121.0081  
Per: GS Date: 2023-08-26  
Reviewed only as to general conformity with the design concept.

**AES: CONFIRM THAT FIXTURE  
IS ADJUSTABLE.**

**Flush Fit BusRun Adaptor**

Litelab's flush fit BusRun adaptor recesses entirely inside BusRun to provide a clean aesthetic. It is available with a Switch and Rotation Lock or On-Board Potentiometer for individual fixture dimming. BusRun fitters are available dimmable to 1% and can be dimmed proportionally using an ELV dimming system.

**Dimming Note**

This fixture is provided with LED Drivers suitable for the dimming protocol specified. Dimming performance may vary based on dimmer model or system being used. If exact dimming performance is required, Litelab recommends testing the Litelab fixture with the specified dimmer.

**Accessories: See Page 5**

- OL-DF-a Beam Softening Film
- OL-TD-a Beam Softening Lens
- OL-10x40-a near Spread Lens
- OL-10x60-a Linear Spread Lens
- OL-30x60-a Universal Spread Lens
- LVH/a Hexell Louver

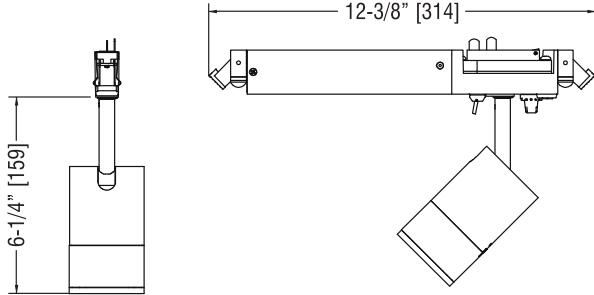
**C2Z**Static White  
15° - 35° Zoom

Project Name

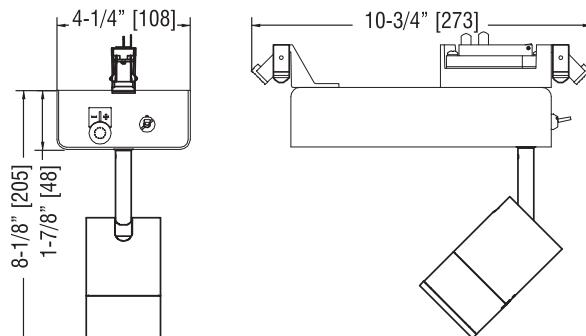
Type

## Fitter Guide

## 9TC\* - 120/240/277v Recessed BusRun Fitter - ELV Dimmable Only - 1%



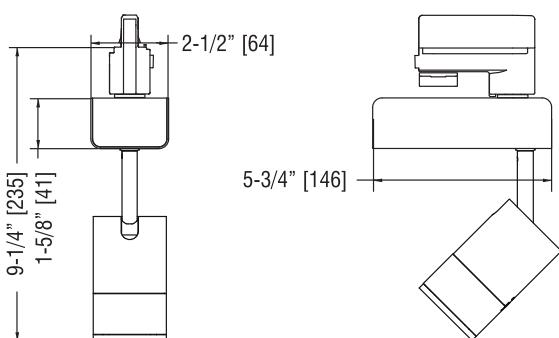
## 9H - Wireless Control Fitter for BusRun



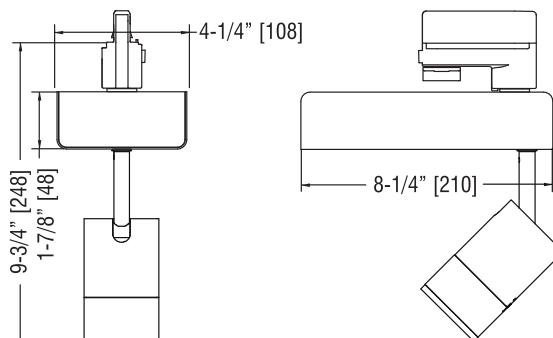
Universal Voltage Fitter, Available with an optional Switch and Rotation Lock or Potentiometer - Dimmable to 1%.

Switch not available for 277 V.

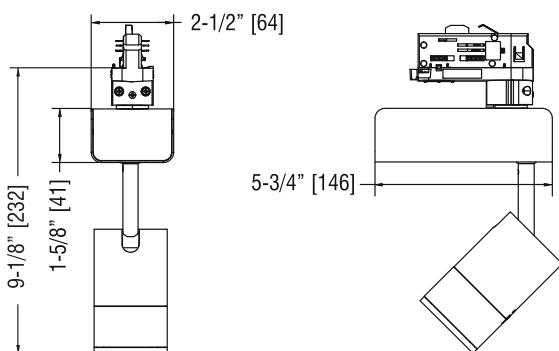
## Stucchi - 2-Circuit ELV Dimmable Fitter



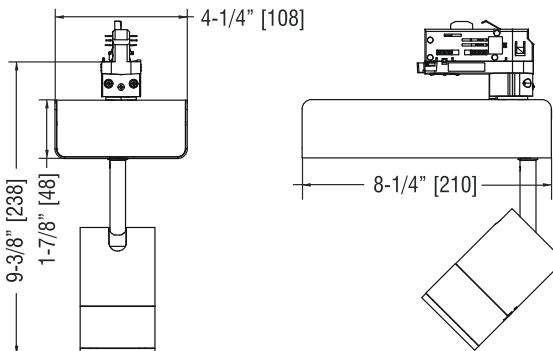
## Stucchi - 2-Circuit 0-10V, DMX and Dali Dimmable Fitter



## Stucchi - 3-Circuit ELV Dimmable Fitter



## Stucchi - 3-Circuit 0-10V, DMX and Dali Dimmable Fitter

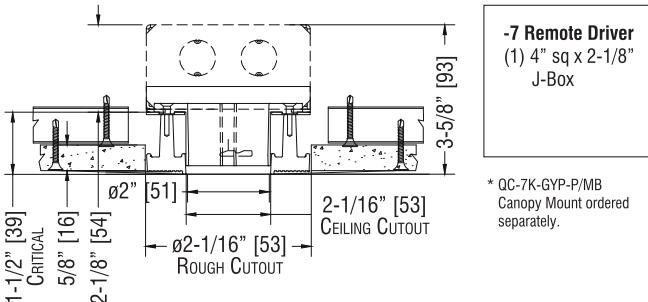
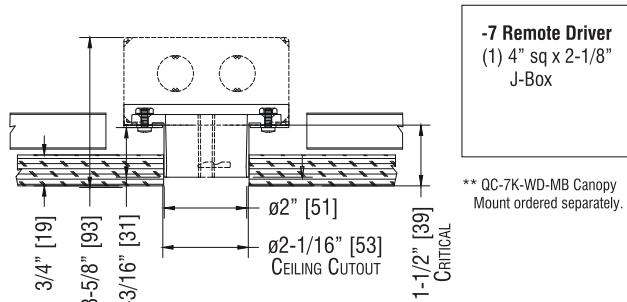
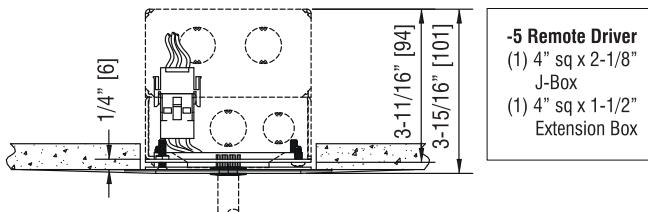
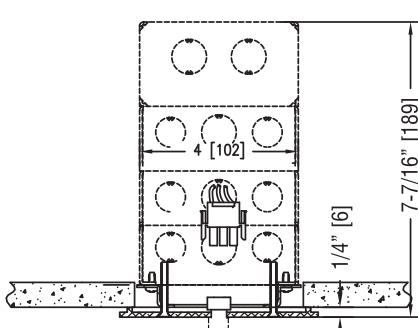
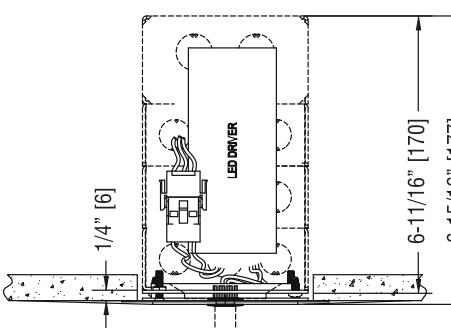
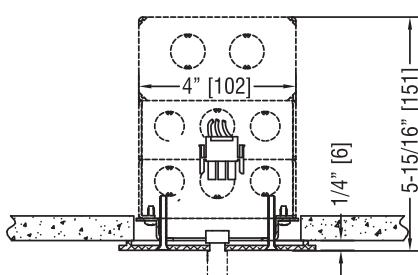
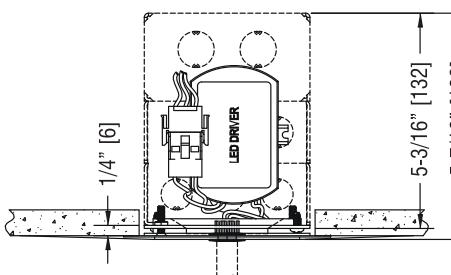
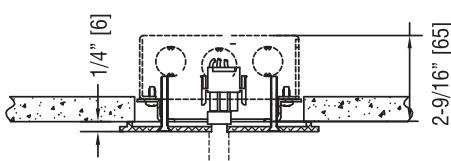


**C2Z**Static White  
15° - 35° Zoom

Project Name

Type

## Fitter Guide

**-7L - 2" Dia. Quick Connect Canopy - Gypsum\*****-7L - 2" Dia. Quick Connect Canopy - Wood\*\*****-5L - 3-1/2" Dia. Quick Connect Canopy****-3L - 5" Dia. x 1/4" H. Machined Canopy**  
QC-5K-P/MB Canopy Mounted Ordered Separately

3

**C2Z**Static White  
15° - 35° Zoom

Project Name

Type

## Photometrics

## C2Z-L16 15° Setting

Mounting Height in feet / meters	FC / Lux	Beam Diameter in feet / meters
6.0' / 1.8m	196.2 f.c. / 2,111.9 lux	1.7' / 0.5m
8.0' / 2.4m	110.4 f.c. / 1,188.3 lux	2.2' / 0.7m
10.0' / 3.0m	70.6 f.c. / 759.9 lux	2.8' / 0.9m
12.0' / 3.7m	49.1 f.c. / 528.5 lux	3.4' / 1.0m
14.0' / 4.3m	36.0 f.c. / 387.5 lux	3.9' / 1.2m
16.0' / 4.9m	27.6 f.c. / 297.1 lux	4.5' / 1.4m

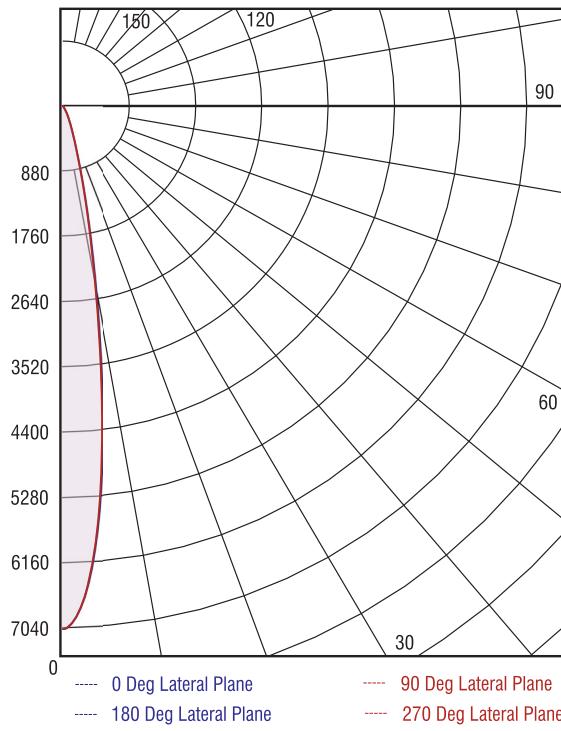
## C2Z-L16 35° Setting

Mounting Height in feet / meters	FC / Lux	Beam Diameter in feet / meters
6.0' / 1.8m	44.5 f.c. / 479.0 lux	3.9' / 1.2m
8.0' / 2.4m	25.0 f.c. / 269.1 lux	5.1' / 1.6m
10.0' / 3.0m	16.0 f.c. / 172.2 lux	6.4' / 2.0m
12.0' / 3.7m	11.1 f.c. / 119.5 lux	7.7' / 2.3m
14.0' / 4.3m	8.2 f.c. / 88.3 lux	9.0' / 2.7m
16.0' / 4.9m	6.3 f.c. / 67.8 lux	10.3' / 3.1m

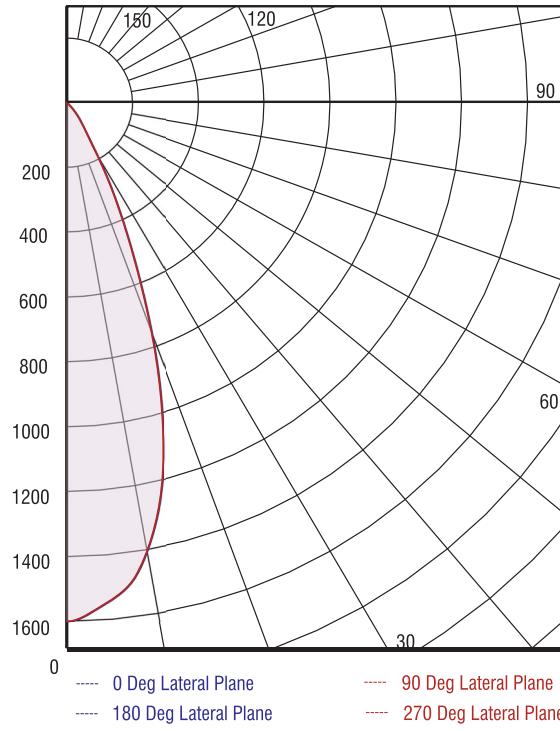
CBCP: 7,063 Cd  
Efficacy: 42.5 lm/w  
Delivered Lumens: 820.9 lm

CBCP: 1,602 Cd  
Efficacy: 37.8 lm/w  
Delivered Lumens: 727.5 lm

## C2Z-L16 15° Setting - Polar Plot of Candela



## C2Z-L16 35° Setting - Polar Plot of Candela



**C2Z**Static White  
15° - 35° Zoom

Project Name

Type

## Accessories

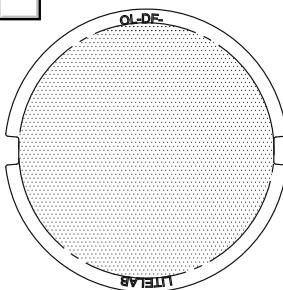
Clear Form

**Fixture Size Code (A): Ø1.95" [50mm]**

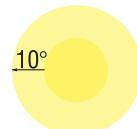
CUSTOM DISTRIBUTION FILMS AVAILABLE ON REQUEST.

**OL-DF-A (Diffusion Film)**

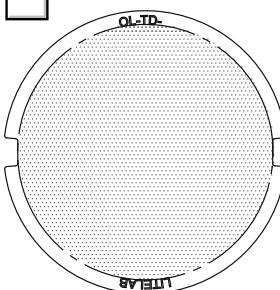
Diffusion Film: 0.25MM (0.01") Film softens beam edges (for use with multiple media)



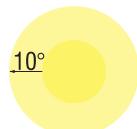
DISTRIBUTION DIAGRAM

**OL-TD-A (Polycarbonate Diffusion Lens)**

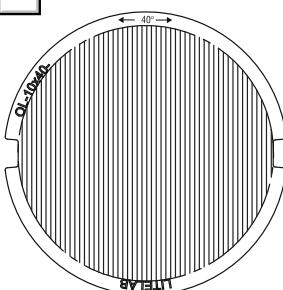
Diffusion Film: 3MM (0.1") Textured lens softens beam edges (for standalone use)



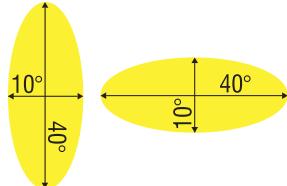
DISTRIBUTION DIAGRAM

**OL-10x40-A (Linear Spread Lens)**

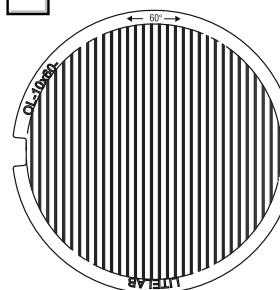
40° Linear Spread Lens: 3MM (0.1") Elliptical spread for long / linear objects



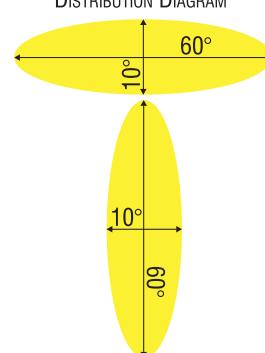
DISTRIBUTION DIAGRAM

**OL-10x60-A (Linear Spread Lens)**

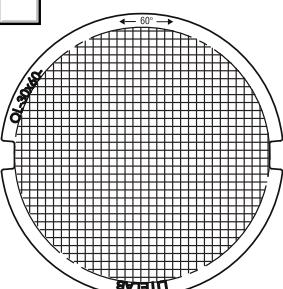
60° Linear Spread Lens: 3MM (0.1") Elliptical spread for long / linear objects



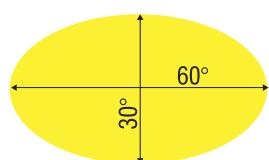
DISTRIBUTION DIAGRAM

**OL-30x60-A (Universal Spread Lens - Included)**

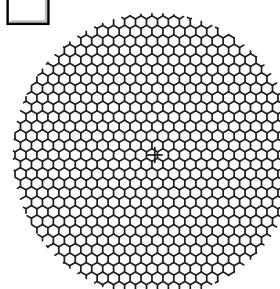
Universal Spread Lens: 3MM (0.1") Lens spreads light universally for wider distribution



DISTRIBUTION DIAGRAM

**LVH/A (Hexcell Louver)**

Hexcell Louver: 3MM (0.1") Matte back finish, 45° Glare cutoff for visual comfort



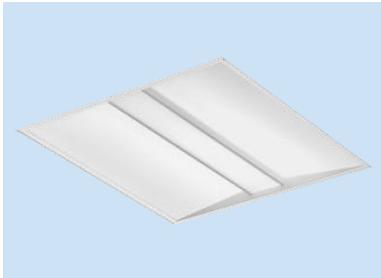
5

**MARK** ARCHITECTURAL  
LIGHTING

## SPECIFICATIONS

TYPE:

PROJECT:



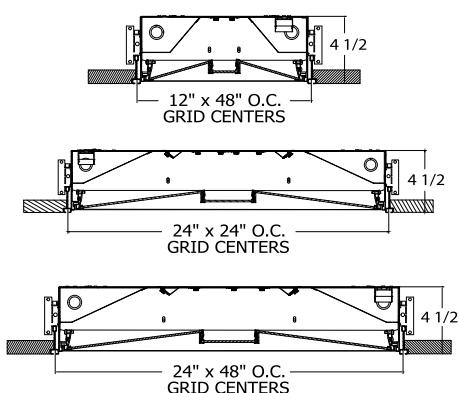
# WHISPER

LED TROFFER

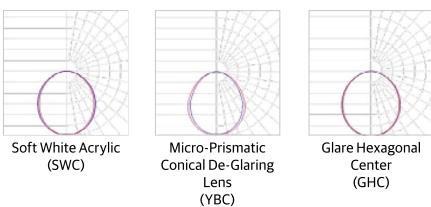
## HIGHLIGHTS

- Clean, simple design with sloping side panels
- 2000 to 9000 lumen packages available
- From 114 to 143 lumens per watt (LPW), depending on size, lens, lumen combination
- 1x4, 2x2, and 2x4 sizes available
- Three center shielding options
- UGR data on page 4

## DIMENSIONS



## DISTRIBUTION



## Fixture Performance

Size	Nominal Lumens	Delivered Lumens	Input Watts	Lumens/Watt
1x4	2000LM	1946	16	122
	2500LM	2516	21	123
	3000LM	3039	25	120
	3300LM	3327	28	119
	3500LM	3526	30	118
	4000LM	3903	33	117
	4500LM	4529	38	120
	4800LM	4812	41	119
	5000LM	5035	41	122
	5500LM	5546	46	121
	6000LM	6051	51	119
	6500LM	6550	56	118
	7000LM	7042	61	116
	7200LM	7232	63	116
	7500LM	7546	62	121
	8000LM	7808	65	120
	2000LM	2013	16	129
	2500LM	2494	20	127
	3000LM	2969	24	125
2x2	3300LM	3264	27	123
	3500LM	3468	28	123
	4000LM	3960	32	123
	4500LM	4473	38	118
	4800LM	4755	40	118
	5000LM	4951	42	119
	5500LM	5422	46	117
	6000LM	5913	52	114
	6500LM	6433	52	124
	7000LM	6912	56	123
	7200LM	7107	58	122
	7500LM	7412	61	122
	8000LM	7880	66	120
	8200LM	8098	68	120
	3000LM	3014	21	143
	3300LM	3310	24	137
	3500LM	3554	26	137
2x4	4000LM	4326	31	140
	4500LM	4546	34	132
	4800LM	4838	37	131
	5000LM	5012	38	131
	5500LM	5527	42	131
	6000LM	6033	47	129
	6500LM	6529	51	127
	7000LM	7052	56	127
	7200LM	7214	57	126
	7500LM	7535	60	125
	8000LM	8032	65	123
	8200LM	8238	67	123
	8500LM	8542	70	122
	9000LM	10106	77	131

\*Based on 35K 80CRI with SWC center shielding



AcuityBrands.



Project 23-28655-0  
LADYSMITH Arts & Heritage Hub  
Submitted By  
SYMMETRY LIGHTING LTD

Catalog Number: WHSPR 2X4 90CRI 35K 3000LM MIN1  
MVOLT SWC ZT

Type  
**D**

# MARK WHISPER ARCHITECTURAL LED Troffer LIGHTING™

Design Select options indicated by this color background.

## Ordering

Example: WHSPR 2X4 80CRI 35K 4000LM MIN1 MVOLT SWC ZT

	<b>2X2</b>			
--	------------	--	--	--

Series	Size	LED Color Rendering	LED Color Temp	LED Output <sup>1</sup>
<b>WHSPR</b> WhisperLED	<b>2X2</b> 2'x2'	<b>80CRI</b> >80CRI	<b>27K</b> 2700K	<b>2000LM<sup>2</sup></b> 2000 Lumens
	<b>2X4</b> 2'x4'	<b>90CRI</b> >90CRI	<b>30K</b> 3000K	<b>2500LM<sup>2</sup></b> 2500 Lumens
	<b>1x4</b> 1'x4'		<b>35K</b> 3500K	<b>3000LM<sup>2</sup></b> 3000 Lumens
			<b>40K</b> 4000K	<b>3300LM<sup>2</sup></b> 3300 Lumens
			<b>50K</b> 5000K	<b>3500LM<sup>2</sup></b> 3500 Lumens
				<b>4000LM<sup>2</sup></b> 4000 Lumens
				<b>4500LM<sup>2</sup></b> 4500 Lumens
				<b>4800LM</b> 4800 Lumens
				<b>5000LM</b> 5000 Lumens
				<b>5500LM</b> 5500 Lumens
				<b>6000LM</b> 6000 Lumens
				<b>6500LM</b> 6500 Lumens
				<b>7000LM</b> 7000 Lumens
				<b>7200LM</b> 7200 Lumens
				<b>7500LM</b> 75000 Lumens
				<b>8000LM</b> 8000 Lumens
				<b>8200LM<sup>3</sup></b> 8200 Lumens
				<b>8500LM<sup>4</sup></b> 8500 Lumens
				<b>9000LM<sup>4</sup></b> 9000 Lumens

1. Nominal values. Consult Fixture Performance table for actual delivered lumens.

2. Not available with 2X4

3. Not available with 1X4

4. Not available with 1X4 or 2X2

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<b>Minimum Dimming Level</b>	<b>Voltage</b>	<b>Center Shielding</b>	<b>Finish</b>	<b>Emergency Options</b>	<b>Trim</b>
------------------------------	----------------	-------------------------	---------------	--------------------------	-------------

<b>NODIM<sup>1</sup></b> Non Dimming	<b>MVOLT</b> 120-277 Volt	<b>SWC</b> Soft White Acrylic	<b>(blank)</b> Standard White paint	<b>(blank)</b> No Emergency Required	<b>(blank)</b> No Trim
<b>MINI</b> Constant Current, Dimming to 1%	<b>120</b> 120 Volt	<b>YBC</b> Microprismatic Conical Deglaring Lens	<b>AMF</b> Anti-Microbial White	<b>E10WLCP<sup>1,4,5,6</sup></b> 10 Watt Battery Pack, Constant Power with Self Diagnostics, T20 Compliant	<b>AR<sup>1</sup></b> Air Return
<b>MINIO<sup>2</sup></b> Constant Current, Dimming to 10%	<b>277</b> 277 Volt	<b>RALTBD<sup>1</sup></b> <a href="#">RAL Paint Finishes</a>	<b>RALTBD<sup>1</sup></b> <a href="#">RAL Paint Finishes</a>	<b>EMG<sup>2</sup></b> Emergency nLight Device for Use with EM Power Circuit	<b>(blank)</b> Not available with 1X4, NLIGHT, DMX, CP, or AMF
<b>DARK</b> Constant Current, Dimming to 0.1%	<b>347</b> 347 Volt	<b>GHC</b> Glare Hexagonal	<b>BGT<sup>3</sup></b> Generator Transfer Device		

- If NODIM is selected, do not select a value from the Control Input category.
- Only available with 2T

1. If NODIM is selected, do not select a value from the Control Input category.  
2. Only available with 2T

--	--	--	--	--

<b>Control Input</b>	<b>Primary Sensors<sup>1,2,5</sup></b>	<b>Pre-Wire Whips</b>	<b>Options</b>
----------------------	--	-----------------------	----------------

<b>(blank)</b> Use with NODIM Option	<b>(blank)</b> No Sensor	<b>(blank)</b> No Pre-Wire	<b>(blank)</b> No Options
<b>ZT</b> 0-10V	<b>PIR<sup>4</sup></b> Occupancy Sensor- Passive Infrared	<b>PWS1836</b> 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit	<b>CP<sup>1</sup></b> Chicago Plenum
<b>NLIGHT<sup>1</sup></b> nLight Wired	<b>PDT<sup>4</sup></b> Occupancy Sensor- Dual Technology (Passive Infrared & Microphonics)	<b>PWS1846</b> 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuit	<b>GLR<sup>2</sup></b> Fast-Blow Fuse
<b>NLTAIR2<sup>4,5</sup></b> nLight Air (wireless) Enabled	<b>API<sup>3</sup></b> PIR Occupancy Sensor & Photocell	<b>PWS1846PWSLV<sup>2</sup></b> Two cables: one 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuits; one 6' pre-wire, 3/8" diameter, 18 gauge, purple and gray	<b>GMP<sup>2</sup></b> Slow-Blow Fuse
<b>DALI<sup>2</sup></b> DALI	<b>APD<sup>3</sup></b> PDT Occupancy Sensor & Photocell	<b>PWS1856LV<sup>1,2</sup></b> 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit w/low voltage purple and grey wires	<b>LATC</b> Earthquake Clips

1. Not available with NODIM or MINI.  
2. Only available with ECOD, DMX, or DALI.  
3. Only available with MINI  
4. If sensor required, must select API or APD.  
5. Not available with 7000LM, 7200LM, 7500LM, 8000LM, 8500LM, or 9000LM.  
6. Not available in 2X4 with 6500LM.

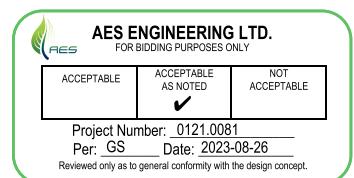
For additional ordering assistance consult 'Intelligent Luminaire Technology Guide'.  
1. Only available with MINI or DARK.  
2. Only available with DARK.  
3. Only available with MINI  
4. If sensor required, must select API or APD.  
5. Not available with 7000LM, 7200LM, 7500LM, 8000LM, 8500LM, or 9000LM.  
6. Not available in 2X4 with 6500LM.  
For additional ordering assistance consult 'Intelligent Luminaire Technology Guide'.

<b>ds</b> design select		
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Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit [www.acuitybrands.com/designselect](http://www.acuitybrands.com/designselect).

\*See ordering tree for details

Maximum order quantity for Design Select lead times is 250 luminaires.





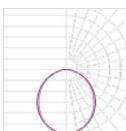
Project 23-28655-0  
LADYSMITH Arts & Heritage Hub  
Submitted By  
SYMMETRY LIGHTING LTD

Catalog Number: WHSPR 2X4 90CRI 35K 3000LM MIN1  
MVOLT SWC ZT

Type  
**D**

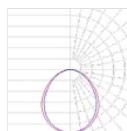
# MARK WHISPER ARCHITECTURAL LED Troffer LIGHTING™

## PHOTOMETRICS



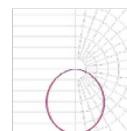
**SWC**  
Test Report: ISF 231930P82  
IES LM79-08  
Catalog #: WHSPR 2X4 35K 80CRI 8000LM SWC  
Lumens: 8032  
Wattage: 65.1  
Efficacy: 123

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	2,309.50	28.80%
0-40	3,729.60	46.40%
0-60	6,425.10	80.00%
60-90	1,606.90	20.00%
70-100	665.6	8.30%
90-120	0	0%
0-90	8,032.00	100%
90-180	0	0%
0-180	8,032.00	100%



**YBC**  
Test Report: ISF 231931P82  
IES LM79-08  
Catalog #: WHSPR 2X4 35K 80CRI 8000LM YBC  
Lumens: 7829.7  
Wattage: 65.1  
Efficacy: 120

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	2,377.90	30.40%
0-40	3,831.90	48.90%
0-60	6,392.30	81.60%
60-90	1,437.30	18.40%
70-100	601.6	7.70%
90-120	0	0%
0-90	7,829.70	100%
90-180	0	0%
0-180	7,829.70	100%



**GHC**  
Test Report: ISF 231929P82  
IES LM79-08  
Catalog #: WHSPR 2X4 35K 80CRI 8000LM GHC  
Lumens: 7887.2  
Wattage: 65.1  
Efficacy: 121

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	2,267.50	28.70%
0-40	3,663.60	46.50%
0-60	6,314.80	80.10%
60-90	1,572.30	19.90%
70-100	649.2	8.20%
90-120	0	0%
0-90	7,887.20	100%
90-180	0	0%
0-180	7,887.20	100%

## PROJECTED LED LUMEN MAINTENANCE

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	10,000	60,000	100,000
Lumen Maintenance Factor	1	0.98	0.91	0.86

## CCT/CRI SCALING CHART

CCT	CRI	MULTIPLIER	
27K	80CRI	0.94	
30K	80CRI	0.97	
35K	80CRI	1.00	
40K	80CRI	1.02	
50K	80CRI	1.04	<b>R9</b>
27K	90CRI	0.79	57.35
30K	90CRI	0.81	52.70
35K	90CRI	0.83	56.18
40K	90CRI	0.84	58.38
50K	90CRI	0.89	55.60

Lumen scaling charts can be used to approximate the lumen values at different Kelvin temperatures, color rendering indices, optics, or shielding.

Example: Calculating the lumen change from 80CRI 35K to 80CRI 40K = Lumen output for WHSPR 2X4 35K 80CRI 8000LM SWC (8032) x 1.02 multiplier = 8193 lumens

## SHIELDING SCALING CHART

Shielding	Multiplier
SWC	1.000
YBC	0.999
GHC	0.989

\* Based upon Soft White Acrylic (SWC) shielding



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Type  
**D**

# MARK WHISPER ARCHITECTURAL LED Troffer LIGHTING™

## UGR CHART

		UGR (70% 50% 20% reflectance using a 4H x 8H room size)					
		Crosswise			Endwise		
SIZE	LUMEN PACKAGE	SWC	YBC	GHC	SWC	YBC	GHC
1x4	2000LM	18.0	17.3	18.0	16.8	16.3	16.9
	2500LM	18.9	18.2	18.9	17.7	17.2	17.8
	3000LM	19.6	18.8	19.5	18.3	17.8	18.5
	3300LM	19.9	19.1	19.9	18.7	18.2	18.8
	3500LM	20.1	19.3	20.1	18.9	18.4	19.0
	4000LM	20.4	19.7	20.4	19.2	18.7	19.4
	4500LM	21.0	20.2	20.9	19.7	19.2	19.9
	4800LM	21.2	20.4	21.1	19.9	19.4	20.1
	5000LM	21.3	20.6	21.3	20.1	19.6	20.2
	5500LM	21.7	20.9	21.6	20.4	19.9	20.6
	6000LM	22.0	21.2	21.9	20.7	20.2	20.9
	6500LM	22.2	21.5	22.2	21.0	20.5	21.2
	7000LM	22.5	21.7	22.5	21.3	20.8	21.4
	7200LM	22.6	21.8	22.6	21.4	20.9	21.5
	7500LM	22.7	22.0	22.7	21.5	21.0	21.7
2x2	8000LM	22.9	22.1	22.8	21.6	21.1	21.8
	2000LM	17.6	16.6	17.6	17.5	17.5	17.6
	2500LM	18.3	17.4	18.3	18.2	18.2	18.3
	3000LM	18.9	18.0	18.9	18.8	18.8	18.9
	3300LM	19.2	18.3	19.2	19.1	19.1	19.3
	3500LM	19.4	18.5	19.5	19.4	19.3	19.5
	4000LM	19.9	19.0	19.9	19.8	19.8	19.9
	4500LM	20.3	19.4	20.3	20.2	20.2	20.4
	4800LM	20.5	19.6	20.6	20.4	20.4	20.6
	5000LM	20.7	19.8	20.7	20.6	20.6	20.7
	5500LM	21.0	20.1	21.0	20.9	20.9	21.0
	6000LM	21.3	20.4	21.3	21.2	21.2	21.3
	6500LM	21.6	20.7	21.6	21.5	21.5	21.6
	7000LM	21.8	20.9	21.9	21.7	21.7	21.9
	7200LM	21.9	21.0	22.0	21.8	21.8	22.0
2x4	7500LM	22.1	21.2	22.1	22.0	22.0	22.1
	8000LM	22.3	21.4	22.3	22.2	22.2	22.3
	8200LM	22.4	21.5	22.4	22.3	22.3	22.4
	3000LM	17.3	15.9	17.0	16.6	16.6	16.6
	3300LM	17.6	16.2	17.3	16.9	17.0	16.9
	3500LM	17.8	16.4	17.6	17.1	17.2	17.1
	4000LM	18.5	17.1	18.3	17.8	17.9	17.8
	4500LM	18.7	17.3	18.4	18.0	18.1	18.0
	4800LM	18.9	17.5	18.6	18.2	18.3	18.2
	5000LM	19.0	17.6	18.8	18.3	18.4	18.3
	5500LM	19.4	18.0	19.1	18.7	18.8	18.7
	6000LM	19.7	18.3	19.4	19.0	19.1	19.0
	6500LM	20.0	18.5	19.7	19.2	19.3	19.2
	7000LM	20.2	18.8	20.0	19.5	19.6	19.5
	7200LM	20.3	18.9	20.0	19.6	19.7	19.6
	7500LM	20.5	19.0	20.2	19.7	19.8	19.7
	8000LM	20.7	19.3	20.4	20.0	20.1	20.0
	8200LM	20.8	19.3	20.5	20.0	20.1	20.0
	8500LM	20.9	19.5	20.6	20.2	20.3	20.2
	9000LM	21.5	20.1	21.2	20.8	20.8	20.8

\*UGR varies based on luminaire options and is affected by application dependent parameters. Numbers depicted here are considered "Luminaire-UGR" and/or "Point-UGR" values. To determine a more precise maximum UGR value ("Application-UGR"), a full lighting design layout should be completed with the selected luminaire configuration for each application.

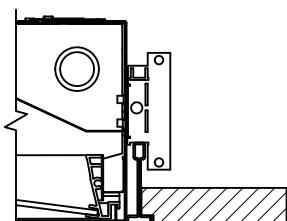
For more information on UGR see [UGR FAQ](#)

# MARK ARCHITECTURAL LIGHTING™

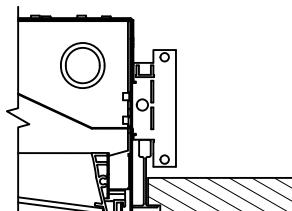
# WHISPER LED Troffer

## MOUNTING

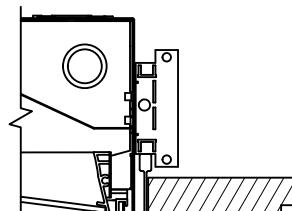
Recessed, lay-in formed steel trim. Universal trim accommodates 9/16" slot grid or 15/16" inverted tee, or 9/16" inverted tee.



UNIV  
(9/16" Slot Grid)



UNIV  
(9/16" Grid)

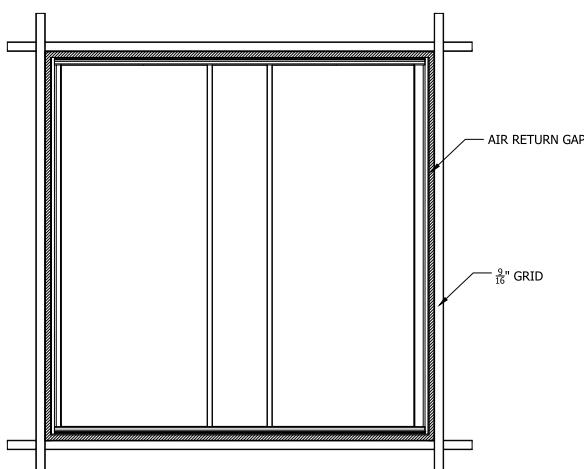


UNIV  
(15/16" Grid)

For recessed mounting in hard ceiling applications, use one of the following drywall grid adapters (ordered separately).

Fixture	Drywall Grid Adapter (DGA)
WHSPR 2X2	DGA22
WHSPR 2X4	<b>DGA24</b>
WHSPR 1X4	DGA14WHS

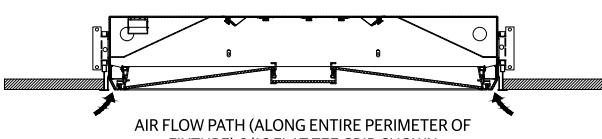
## AIR RETURN



Use total area of the air returns shown below in conjunction with the pressure differential between the plenum and room space to calculate your flow rate.

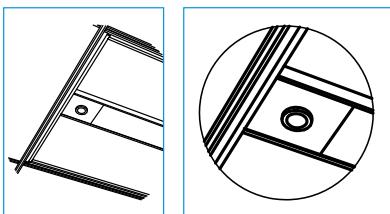
<b>WHSPR 2X2</b>	
Grid Type	Air Return Area (in²)
Flat 9/16	29.5
Flat 15/16	12.2
Slotted 9/16	29.5

<b>WHSPR 2X4</b>	
Grid Type	Air Return Area (in²)
Flat 9/16	44.9
Flat 15/16	18.5
Slotted 9/16	44.9



# MARK WHISPER ARCHITECTURAL LED Troffer LIGHTING™

## INTEGRATED SENSORS

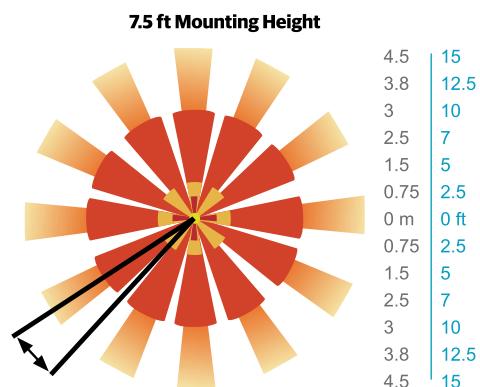


Pictured with Occupancy Sensor and Photocell

## COVERAGE PATTERN

### MICRO 360° Lens

- At the 7.5 ft (2.29 m) hanging height of a typical pendant mount fixture the sensor provides 10 ft (3.05 m) radial detection of small motion. At a 9 ft (2.74 m) hanging height the radius is 12 ft (3.66 m) for small motion.
- Adequate for walking motion detection from mounting heights between 7.5 ft (2.29 m) and 20 ft (6.10 m).
- Initial detection will occur earlier when walking across sensor's field of view than when walking directly at sensor.
- Initial detection of walking motion into long coverage segment will occur at distances of 2x the mounting height up to 15 ft (4.57 m) and 1.75x up to 20 ft (6.10 m). Lens assembly rotates 15° to enable adjustment in order to line up long segments.



## EMERGENCY OPTION

### How to Estimate Delivered Lumens in Emergency Mode

Use the formula below to estimate the delivered lumens in emergency mode

$$\text{Delivered Lumens} = 1.25 \times P \times LPW$$

P = 10 watts for PS1055LCP

LPW - Lumens per watt rating of the luminaire. This information is available on page 1 of this spec sheet or appropriate IES file.

### UL924 Sequence of Operation

The below information applies to all nLight AIR devices with an EM option.

- EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds.
- Using the CLAIRITY+mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts.
- Only non-emergency rPP20, rLSXR, rSBOR, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.

## CONTROL ACCESSORIES

nLight® Wired Control Accessories Order as separate catalog number	
Wall Switches	Model Number
On/Off single pole	nPODMA (color)
On/Off two pole	nPODMA 2P (color)
On/Off single pole, dimming	nPODMA DX (color)
On/Off two pole, dimming	nPODMA 2P DX (color)
On/Off, two level	nPODMA 2L (color)
Graphic touchscreen	nPOD TOUCH (color)

For more information see [nPOD](#) and [nPOD TOUCH](#) spec sheets

nLight AIR® Control Accessories Order as separate catalog number	
Wall Switches	Model Number
On/Off single pole	rPODBA (color)
On/Off two pole	rPODBA 2P (color)
On/Off single pole, dimming	rPODBA DX (color)
On/Off two pole, dimming	rPODBA 2P DX (color)
On/Off, 4 scene control	rPODBA 4S (color)

For more information see [rPOD](#) spec sheets



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MVOLT SWC ZT

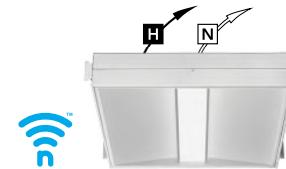
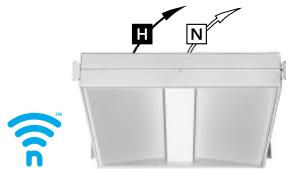
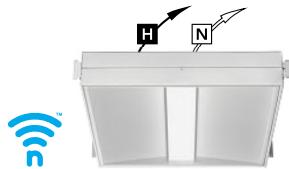
Note:

Type  
**D**

**MARK**  
ARCHITECTURAL  
LIGHTING™

**WHISPER**  
LED Troffer

#### nLIGHT AIR WIRELESS



#### Simple as 1,2,3

1. Install the nLight® AIR fixtures with embedded smart sensor
2. Install the wireless battery-powered wall switch
3. With our CLAIRITY app, pair the fixtures with the wall switch and if desired, customize the sensor settings for the intended outcome



rPODB 2P DX WH G2



Mobile Device



Project 23-28655-0  
LADYSMITH Arts & Heritage Hub  
Submitted By  
SYMMETRY LIGHTING LTD

Catalog Number: WHSPR 2X4 90CRI 35K 3000LM MIN1  
MVOLT SWC ZT

Type  
**D**

# MARK WHISPER

## ARCHITECTURAL LED Troffer

### LIGHTING™

#### INTELLIGENT LUMINAIRE TECHNOLOGY GUIDE

Choose nomenclature from these columns				
Driver Configuration (MVOLT)	Minimum Dimming Level	Control Input	Dimming Range	Notes
	NODIM	+	(blank)	-
	MIN10	+	ZT	100% to 10%
	MIN1	+	ZT	100% to 1%
	MIN1	+	NLIGHT	100% to 1%
	MIN1	+	NLTAIR2	100% to 1%
	MIN1	+	ECOD	100% to 1%
	DARK	+	ZT	100% to 0.1%
	DARK	+	NLIGHT	100% to 0.1%
	DARK	+	NLTAIR2	100% to 0.1%
	DARK	+	DALI	100% to 0.1%
	DARK	+	DMX	100% to 0.1%

Choose nomenclature from these columns				
Control/Sensor Configurations	Control Input	Sensor	Emergency	Integral Component Description
	ZT	+	(blank)	Sensor Switch MSD 7 EZ ADC
	ZT	+	(blank)	Sensor Switch MSD PDT 7 EZ ADC
	NLIGHT	+	PIR	(blank)
	NLIGHT	+	PIR	EMG
	NLIGHT	+	PDT	(blank)
	NLIGHT	+	PDT	EMG
	NLIGHT	+	API	(blank)
	NLIGHT	+	API	EMG
	NLIGHT	+	APD	(blank)
	NLIGHT	+	APD	EMG
	NLIGHT	+	(blank)	(blank)
	NLIGHT	+	(blank)	EMG
	NLTAIR2	+	API	(blank)
	NLTAIR2	+	API	EMG
	NLTAIR2	+	APD	(blank)
	NLTAIR2	+	APD	EMG
	NLTAIR2	+	(blank)	(blank)
	NLTAIR2	+	(blank)	EMG

For more information, please consult our technical guides for [nLight](#) or [nLight Air](#).



Project 23-28655-0  
LADYSMITH Arts & Heritage Hub  
  
Submitted By  
SYMMETRY LIGHTING LTD

Catalog Number: WHSPR 2X4 90CRI 35K 3000LM MIN1  
MVOLT SWC ZT

Type  
**D**

# MARK WHISPER ARCHITECTURAL LED Troffer LIGHTING™

## SPECIFICATIONS

### Housing

Nominal 1'x4', 2'x2' or 2'x4' housings fabricated from 22-gauge, cold-rolled steel. Air return option available.

### Door Frame

The hinged door frame is constructed of extruded aluminum center and side rails with cold-rolled steel end caps capturing three individual optical panels to form a single unit. The hinged door frame can be positioned on either side of the fixture housing to provide easy room side access for maintenance.

### Finish

Matte white polyester powder paint standard for trim. Consult factory for custom colors or specify RAL colors from Architectural brochure.

### Inner Housing Reflector

Formed steel with highly reflective white polyester powder paint.

### Lenses/Shielding

Center Panel: Soft-white acrylic (SWC) or o micro-prismatic conical de-glaring acrylic lens (YBC) or glare hexagonal pattern acrylic lens (GHC) options available.

Side Panels: Soft-white acrylic only.

### Mounting

Recessed ceiling for grid or inaccessible sheetrock ceiling.

Grid: Accommodates 9/16" slot grid or 15/16" inverted tee or 9/16" inverted tee.

Sheetrock: Use a Drywall Grid Adapter (DGA22, DGA24, or DGA14WHS).

Ordered separately.

### LED Components

Multiple lumen packages available with 2700K, 3000K, 3500K, 4000K and 5000K CCT in either 80CRI or 90CRI. The Acuity Brands circuit boards use a precise binning algorithm which creates a consistent color temperature from board to board. The color a variation of no greater than a 2.5 Step MacAdam (2.55DECM) along the black body locus from board to board.

### Electrical

Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 90% LED lumen maintenance at 60,000 hours (L90/60,000).

### Dimming Drivers

Factory tuned constant current electronic dimming driver is standard. Flicker free dimming available down to <1%. LED drivers perform within the recommended operating areas for flicker as a function of frequency and modulation (%) IEEE Standard 1789-2015 (IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers), in typical operating conditions at representative dimming levels. Electrical specifications at maximum driver load: PF > 0.9 and THD <20%. Meets FCC Title 47 Class A or Class B. Other available drivers include Lutron, DALI, and DMX protocol drivers. All drivers are RoHS compliant.

### Controls and System Networking Options

Optional integrated nLight® controls make each fixture addressable - allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors, and photocontrols. Connection to nLight is simple. It can be accomplished with remote nLight AIR wireless or through standard Cat-5 cabling. (cabling "by others") nLight offers unique plug-and-play convenience as devices and luminaires automatically discover each other, while nLight AIR is commissioned easily through an intuitive mobile app.

### Emergency Battery (Optional)

Integral emergency battery (E10WLCP) for 90 minutes of operation. Emergency battery pack, 10W, Linear Constant Power. Certified in CA Title 20 MAEDBS.

Remote generator transfer device (BGTD) works in conjunction with an auxiliary generator or a central inverter system to power fixtures for safe egress lighting.

### Voltage

120 thru 277v/50-60Hz: 347v/50-60Hz (optional)

### Ambient Operating Temperature

-20°C (-4°F) to +25°C (+77°F).

### Ambient Operating Humidity

90% relative humidity non-condensing maximum.

### Environment

Suitable for damp locations. Indoor use only.

### Certification

CSA certified to meet U.S. and Canadian standards (UL1598 and UL8750). This product is IC rated. Chicago plenum rating (option) available.

### Fixture Weight (Without emergency or packaging)

1x4: 22lbs.

2x2: 28lbs.

2x4: 38lbs.

### Buy American Act

Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to [www.acuitybrands.com/buy-american](http://www.acuitybrands.com/buy-american) for additional information.

### Warranty

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

Submitted By  
SYMMETRY LIGHTING LTD

Note:



# GS-NeoT-1212

TYPE:

PROJECT:

CATALOG#:

LED NEON STRIP LIGHT

## Product Features

GS-NeoT-1212 is sideview and plain shaped LED neon strip light with IP 67 rated for wet location & maximum 20 meters with one driver. For the RGB feature in this product it requires RGB decoder and controller.



End Cap A



Installing Aluminum Profile



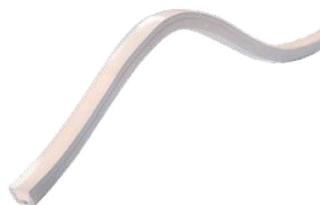
Middle usage non-soldering connector with power wire



End usage non-soldering connector without power wire



Head usage non-soldering connector with power wire at one side



UL LISTED

WARRANTY

CE

IESNA

LM-79

IESNA

LM-80

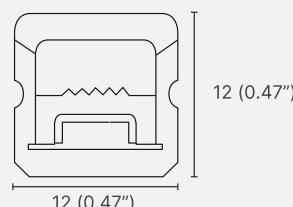
IP67

5 YEARS  
LIMITED WARRANTY  
INCLUDES

## Product Specifications

Model	GS-NeoT-1212-7	GS-NeoT-1212-9	GS-NeoT-1212-14
Lumen Output	30 lm/W	30 lm/W	30 lm/W
Power Consumption (W)	7.2 W/m	9.6 W/m	14.4 W/m
Colour Temperature (CCT)	2700K,3000K,3500K, 4000K, 5000K	2700K,3000K,3500K, 4000K, 5000K, RGB	2700K,3000K,3500K, 4000K, 5000K
Input Voltage	24V DC	24V DC	24V DC
CRI	Ra 80	Ra 80	Ra 80
IP Rating	IP67	IP67	IP67
Minimum Cuttable	50 mm	50 mm	50 mm
Max Run/ One Drive	20 m	5 m	5 m
Dimension	12 x 12 mm	6 x 12 mm	6 x 12 mm
Working Temperature	-20°C~50°C	-20°C~50°C	-20°C~50°C

## Technical Drawing



GS-NeoT-1212

Units in Metric

## Order Form

GS	-	NeoT-1212	-		-		-		-		-		-	
Series	-	Model	-	3	-	4	-	5	-	6	-	7	-	
<b>3. WATTAGE</b>	<b>4. VOLTAGE</b>	<b>5. CCT</b>		<b>6. LENGTH</b>		<b>7. ACCESSORIES</b>								
7 7.2 W/m	A 24V DC	27 2700K 40 4000K G Green	5M 5 meters	A End Cap	D Connector D									
9 9.6 W/m		30 3000K 50 5000K B Blue	50ft Custom	B Profile	E Connector E									
14 14.4 W/m		35 3500K R Red RGB RGB		C Connector C										

\*RGB is only available on 9.6 W



# GS-NeoT-1212

TYPE:

PROJECT:

CATALOG#:

LED NEON STRIP LIGHT

## Hardwire Power Supplies and Accessories

Part Name

Description

DR-CV-12W

12W Triac Dimming driver

DR-CV-20W

20W Triac Dimming driver

DR-CV-30W

30W Triac Dimming driver

DR-CV-40W

40W Triac Dimming driver

DR-CV-60W

60W Triac Dimming driver

DR-CV-80W

80W Triac Dimming driver

E40L

40W Triac Dimming driver

E60L

60W Triac Dimming driver

E96L

100W Triac Dimming driver

M150L

150W Triac Dimming driver

M200L

200W Triac Dimming driver

M300L

300W Triac Dimming driver



Dimmable Power Supply (DR-CV-XXW)



Dimmable Power Supply (M\_XX)



Dimmable Power Supply (E\_XXL)

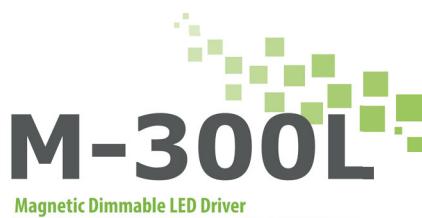
AES ENGINEERING LTD. FOR BIDDING PURPOSES ONLY		
ACCEPTABLE	ACCEPTABLE AS NOTED	NOT ACCEPTABLE X
Project Number: 0121.0081 Per: GS Date: 2023-08-26		
Reviewed only as to general conformity with the design concept.		

## Dimmable Drivers

Please see our driver catalog for more options.

AES: LUMEN OUTPUT NOT AS PER THE SPECIFIED FIXTURE.

Catalog



TYPE:

PROJECT:

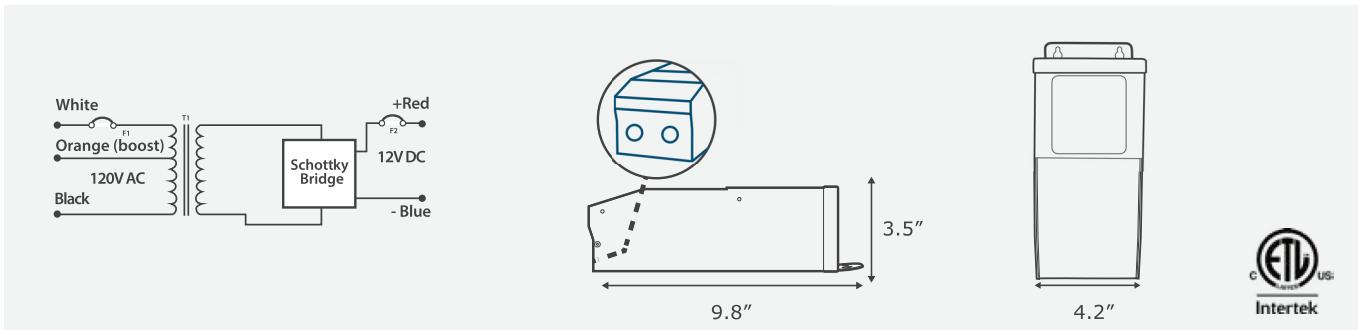
CATALOG#:

## Product Features

- Dimmable with standard MLV TRIAC dimmer.
- Dual protection - two manual push-to-reset circuit breakers on the primary & secondary sides.
- Optional 10% voltage boost to compensate for voltage drop
- Two bottom knock-outs.



## Technical Drawing

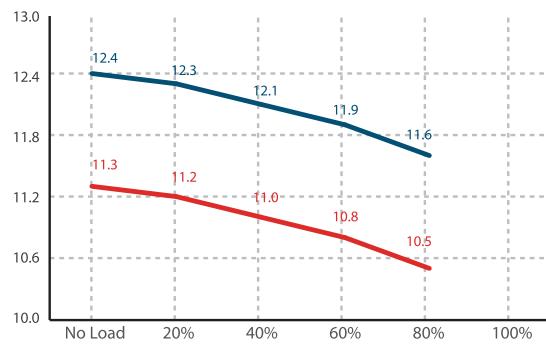


## Product Specifications

### Model **M-300L**

Max Load	300W
Input Voltage	120V AC
Input Current Full Load	2.86 A
Output Voltage Full Load	11V DC
Max Output Current Full Load	20.8 A
Open Circuit Output Voltage	11.8V DC
Efficiency on I	90%
Power Factor on I	0.93
Coil Former	Double Section Bobbin
Thermal Class	B130°C
Leads Primary	PVC 600V #18
Leads Secondary	PVC 300V #12
Circuit Breaker	Secondary Manual Push-to-Reset
Dimensions (in)	9.8 in. x 3.5 in. x 4.2 in.
Weight	140 Oz

— **Output Voltage vs. Load**  
— **Output Voltage With a Typical Dimmer**



## Order Form

M \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 Series Model 3

**2. MODEL**  
300L 300L

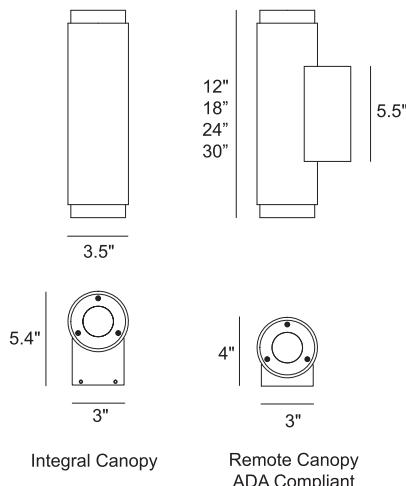
**3. OUTPUT VOLTAGE**  
A 12V DC  
B 24V DC



Note:

# REBELLE

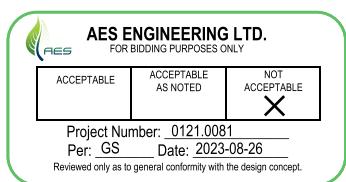
ARCHITECTURAL  
LIGHTING



## Encore ENCO Wall Mount

INTERIOR/EXTERIOR

MODEL	LENGTH	MODULES	WATTS	COLOR TEMPERATURE	VOLT	OPTIC - UP (U)	OPTIC - DOWN (D)	DRIVER LOCATION	OPTIONS	COLOR
ENCO	12"	D double	13L 13 watts <sup>1</sup> 1535 lumens <sup>2</sup>	40*	4000K	120*	SP 20° spot	SP 20° spot	REM remote	DIM 0 - 10 volt dimming
	18"	S single <sup>3</sup>	9L 9 watts <sup>1</sup> 1123 lumens <sup>2</sup>	35	3500K	208	NF 30° narrow	NF 30° narrow	INT integral	WT white texture
	24"			30	3000K	240	FL 50° flood	FL 50° flood		BT black texture
	30"			27	2700K	277	WF 80° wide	WF 80° wide	WP wall plate	SM silver metallic



AES; FIXTURE WITH  
1000LM DIRECT AND  
1000LM INDIRECT IS  
REQUIRED.

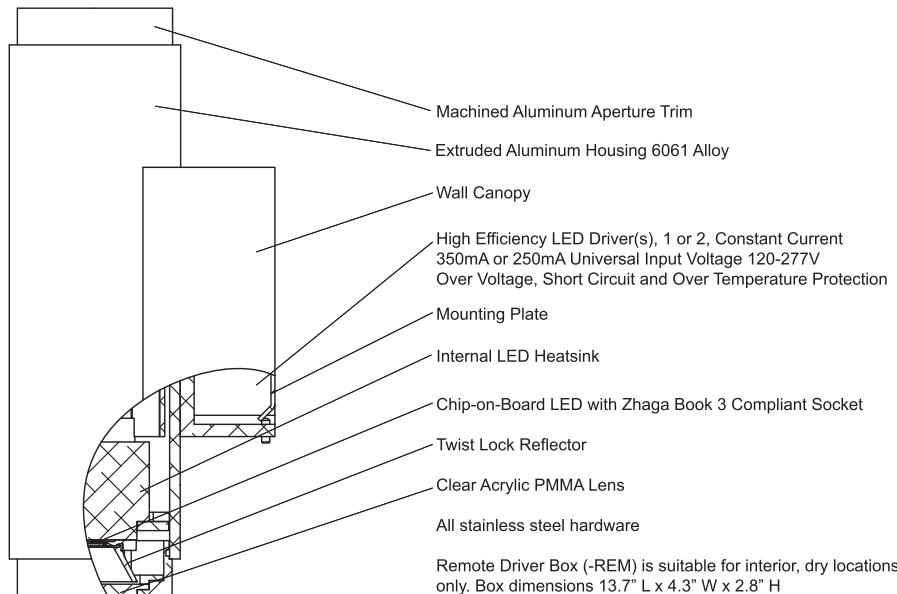
\*Standard configuration unless otherwise specified

<sup>1</sup>Nominal LED Power <sup>2</sup>Delivered (4000K, 80CRI), lumens per module +Remote driver only<sup>3</sup>For single module specify whether up (U) or down (D) orientation is required

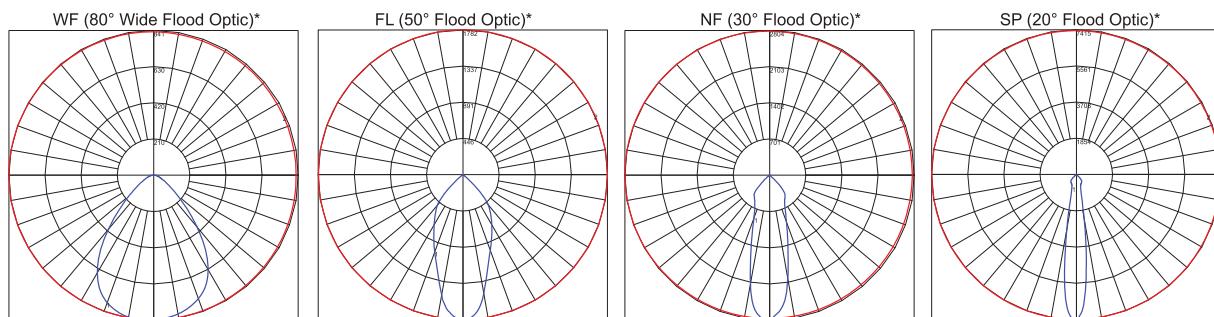
SAMPLE CATALOG NUMBER: ENCO - 12" - S - 13L - 40 - 120 - SP(D) - INT - WT

Using this catalog number would order 1 model ENCO 12" wall mount luminaire with a single 13 watt LED module with a spot optic, downlight orientation, a color temperature of 4000K wired to 120 volts, integral driver, painted white texture polyester powder coat.

CONSTRUCTION	MOUNTING	OPTICAL	PROTECTION
Materials All aluminum construction, stainless steel tamper resistant hardware, acrylic lens.	The ENCO series is designed for wall mounting over a recessed standard 2"x4" rectangular device/utility box (by others) which is located parallel to the luminaire. The mounting plate is secured directly to the rectangular device/switch box and the luminaire is hooked on the plate and secured with set screws. For mounting over a 4" octagon junction box the wall plate option should be ordered.	The ENCO luminaire uses Chip-on-Board technology with Zhaga Book 3 compliant socket and high efficiency twist lock optics with clear acrylic lens.	The ENCO series is listed for use in wet locations to UL and CSA Standards. Reported L70 > 50,000 hours. IP65 rated.
Electrical Components Constant current driver 350mA or 250mA, COB with Zhaga compliant socket, 80 CRI standard. Optional dimming driver compatible with IEC60929:2006 0-10V ballast controls.			

**REBELLE**  
ARCHITECTURAL  
LIGHTING


## Encore ENCO



\*Based on ENC0-13L

Product	CCT	CRI	Delivered Lumens	Nominal LED Power	System Power	Lumens per Watt*
ENC0-13L	4000	80	1535	13 watts	12.9 watts	118.9
ENC0-9L	4000	80	1123	9 watts	10.7 watts	104.9

\*Based on system power



## FEATURES & SPECIFICATIONS

**INTENDED USE** — Built on the compact, low-profile Z strip channel, this LED strip offers long maintenance-free life, several color temperatures, lumen outputs and lengths. Ideal for new construction and retrofit applications in T8 lengths. Ideal for use in commercial, retail, manufacturing, warehouse, and display applications. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate.** [Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.](#)

**CONSTRUCTION** — Compact-design channel and cover are formed from code-gauge cold-rolled steel. Easy to install six-point row aligner included for continuous row mounting.

**Finish:** Paint options include high-gloss, baked white enamel (WH), or matte black (MB). After fabrication, five-stage iron phosphate pre-treatment ensures superior paint adhesion and rust resistance.

**OPTICS** — Standard diffuse snap on/snap off lens eliminates pixels, improves uniformity and minimizes glare.

**ELECTRICAL** — Utilizes high-output LEDs integrated on a two-layer circuit board, ensuring cool-running operation. Optional internal pluggable wiring harness for reduced labor cost in row mounting applications (see PLR\_ordering information on page 3). Electronic LED driver is rated for 75 input watts maximum (see Operational Data on page two for actual wattage consumption), **multi-volt input and 0-10V dimming standard.** This fixture is designed to withstand a maximum line surge of 2.5kV at 0.75kA combination wave for indoor locations, for applications requiring higher level of protection additional surge protection must be provided.

LEDs provide 80CRI or 90 CRI at 3000 K, 3500 K, 4000 K or 5000 K.

Lumen output up to 1,500 lumens per foot. Luminaire should be installed in applications where ambient temperatures do not exceed 86 °F (30 °C).

**INSTALLATION** — Fixture may be surface mounted (with or without ZSPRG hanger), pendant or stem mounted with appropriate mounting options. Six-point aligner locks in place for easy continuous row mounting.

**LISTINGS** — CSA certified to US and Canadian safety standards. For use in damp locations between -40 °F (-40 °C) and 86 °F (30 °C).

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

**WARRANTY** — 5-year limited warranty. Complete warranty terms located at:  
[www.acuitybrands.com/support/customer-support/terms-and-conditions](http://www.acuitybrands.com/support/customer-support/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

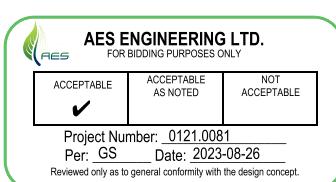
Specifications subject to change without notice.

Catalog Number
Notes
Type

LED Striplight

**ZL1D**

24", 48" and 96" Lengths



### A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® or XPoint™ Wireless control networks marked by a shaded background\*

To learn more about A+, visit [www.acuitybrands.comaplus](http://www.acuitybrands.comaplus).

\*See ordering tree for details

Submitted By  
SYMMETRY LIGHTING LTD

Note:

## ZL1D LED Striplight

A+ Capable options indicated  
by this color background.**ORDERING INFORMATION**

Lead times will vary depending on options selected. Consult with your sales representative.

**Example:** ZL1D L48 3000LM FST MVOLT 40K 80CRI WH

<b>Series</b>	<b>Length</b>	<b>Reflectors<sup>2</sup></b>	<b>Nominal lumens<sup>3</sup></b>	<b>Diffuser</b>	<b>Voltage</b>	<b>Color temperature</b>	<b>Color rendering index</b>
ZL1D LED striplight	L24 24" <sup>1</sup>	(blank) Less reflector SMR Symmetric	1500LM 1,500 lumens 2500LM 2,500 lumens 3500LM 3,500 lumens	FST Drop lens	MVOLT 120-277V 120 120V 208 208V 240 240V 277 277V 347 347V <sup>4</sup> 480 480V <sup>4</sup>	30K 3000 K 35K 3500 K 40K 4000 K 50K 5000 K	80CRI 80 CRI 90CRI 90 CRI
	L48 48"	(blank) Less reflector ASR Asymmetric SMR Symmetric	3000LM 3,000 lumens 5000LM 5,000 lumens 7000LM 7,000 lumens				
TZL1D LED striplight	L96 96"	(blank) Less reflector SMR Symmetric	6000LM 6,000 lumens 10000LM 10,000 lumens 14000LM 14,000 lumens				

<b>Options</b>	<b>Paint finish</b>
PLR__ Plug-in wiring <sup>5,6</sup>	WH White
PLR1LVG Plug-in wiring-low voltage <sup>5,6</sup>	MB Matte black
E7W Emergency battery pack, <sup>7,8</sup> CA Title 20 Noncompliant <sup>9</sup>	GALVB Galvanized fixture with black plastic lens endcaps
2E7W Two Emergency battery packs, <sup>7,8</sup> CA Title 20 Noncompliant <sup>9,10</sup>	GALVW Galvanized fixture with white plastic lens endcaps
E10WLCP Emergency battery pack, <sup>10W</sup> Linear Constant Power, Certified in CA Title 20 MAEDBS <sup>7</sup>	
2E10WLCP Two Emergency battery packs, <sup>10W</sup> Linear Constant Power, Certified in CA Title 20 MAEDBS <sup>7,8</sup>	
E15WLCP Emergency battery pack, <sup>15W</sup> Linear Constant Power, Certified in CA Title 20 MAEDBS <sup>7,8</sup>	
OUTEND Cord set to exit endplate of fixture	
<b>Wireless Controls<sup>5</sup></b>	
NLTAIR2 RLSXR10 nLight Air Generation 2 Fixture mount, LSXR sensor low mount 360°	
NLTAIR2 RLSXR10EM nLight Air Generation 2 Fixture mount, LSXR sensor low mount 360°, UL924 Emergency operation <sup>9</sup>	
<b>Individual Controls<sup>5</sup></b>	
LBOZU 360° low mount motion sensor, pre-wired <sup>10</sup>	
LBHOSZU 360° low mount motion sensor with dimming, pre-wired <sup>10</sup>	
LBPZU 360° low mount motion sensor with photocell, pre-wired <sup>10</sup>	
LBMOSZU 360° low mount motion sensor, dimming & switching photocell, pre-wired <sup>10</sup>	
<b>Cord sets:<sup>11</sup></b>	
CS1W Straight plug, 120V	
CS3W Twist-lock, 120V	
CS7W Straight plug, 277V	
CS11W Twist-lock, 277V	
CS25W Twist-lock, 347V	
CS97W Twist-lock, 480V	
CS93W 600V SEOW white cord, no plug (no voltage required)	

<b>Accessories: Order as separate catalog number.</b>	
HC36 Hanger chain, 36"	ZLR L24 SYM WH 24" symmetric reflector, white finish
ZACVH Aircraft cable 10' (one pair)	ZLR L46 SYM UPL WH 46" symmetric reflector with uplight, white finish
ZLANGBKT Luma-tilt™ angle bracket for shelf or ledge mounting only	ZLR L46 SYM WH 46" symmetric reflector, white finish
SQ_ Stem kit, 2" increments up to 48"	ZLR L48 ASY WH 48" asymmetric reflector, white finish
NPP16D nLight® switching/dimming module	ZLR L48 SYM UPL WH 48" symmetric reflector with uplight, white finish
rPP20D nLight® Air switching/dimming module	ZLR L48 SYM WH 48" symmetric reflector, white finish
LSXR Sensor Switch® LSXR occupancy sensor <sup>4</sup>	ZLR L92 SYM UPL WH 92" symmetric reflector with uplight, white finish
ZSPRG For 15/16" T-grid only	ZLR L92 SYM WH 92" symmetric reflector, white finish
WGZ24 24" wireguard, white <sup>12</sup>	ZLR L96 SYM UPL WH 96" symmetric reflector with uplight, white finish
WGZ48 48" wireguard, white <sup>12,13</sup>	ZLR L96 SYM WH 96" symmetric reflector, white finish
ZLR L24 SYM UPL WH 24" symmetric reflector with uplight, white finish	UNIVERSAL REFL ALIGNER Universal reflector aligners, quantity 1

**Notes**

- Not available with 347V, 480V or Batteries
- Optional. Reflectors ship separately.
- See Operational Data on page 2 for actual lumens.
- Utilizes step down transformer.
- See ordering information on pages 4 and 5 and [LSXR specification sheet](#) for more configurations. When choosing Sensor and PLR for same fixture, consult the factory.
- Not available with cord sets.
- MVOLT only. Not available with cord sets with plugs. Battery Spec sheet linked for more information.
- Only available with 10,000LM and 14,000LM packages.
- MVOLT only.
- Available with MVOLT, 347V and 480V only. This sensor configuration is suitable for minimum ambient temperature of 14°F (-10°C). See page 6 for low temperature option providing -4°F (-20°C) minimum ambient Sensors come prewired, they must be snapped into place at time of installation.
- Cordsets exit back of fixture unless OUTEND option is specified. Must specify voltage (not required when ordering CS93W).
- Not compatible with reflector
- Order 2 for tandem double length fixtures (TZL1N).

Submitted By  
SYMMETRY LIGHTING LTD

Note:

**ZL1D LED Striplight**

OPERATIONAL DATA												
	Nominal lumen package	Length (inches)	Delivered Lumens 3000 K CCT @ 77°F (25°C) ambient temperature		Delivered Lumens 3500 K CCT @ 77°F (25°C) ambient temperature		Delivered Lumens 4000 K CCT @ 77°F (25°C) ambient temperature		Delivered Lumens 5000 K CCT @ 77°F (25°C) ambient temperature		Wattage @ 120V/277V	Comparable Light Source
			80 CRI	90 CRI								
Lensed	1500LM	24	1985	1619	2030	1675	2061	1707	2137	1745	17	1-lamp 17W T8
	2500LM	24	2682	2187	2742	2264	2785	2307	2887	2358	22	1-lamp 17W T8
	3500LM	24	4099	3341	4190	3459	4255	3524	4412	3603	36	1-lamp 32W T8, 1-lamp 54W T5H0, 50W HID
	3000LM	48	3880	3163	3966	3274	4028	3336	4176	3410	30	1-lamp 32W T8, 1-lamp 54W T5H0, 50W HID
	5000LM	48	5337	4351	5456	4504	5541	4589	5745	4691	41	2-lamp 32W T8, 1-lamp 54W T5H0, 70W HID
	7000LM	48	7317	5965	7480	6175	7596	6291	7876	6431	59	3-lamp 32W T8, 2-lamp 54W T5H0, 100W HID
	6000LM	96	8077	6585	8257	6816	8386	6945	8694	7099	60	3-lamp 32W T8, 2-lamp 54W T5H0, 100W HID
	10000LM	96	11021	8985	11267	9301	11442	9477	11864	9687	81	4-lamp 32W T8, 2-lamp 54W T5H0, 100W HID
	14000LM	96	15397	12553	15741	12995	15986	13240	16574	13534	121	4-lamp 32W T8, 3-lamp 54W T5H0, 150W HID

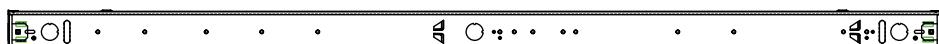
**DIMENSIONS**

All dimensions are shown in inches (centimeters) unless otherwise noted.

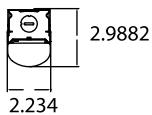
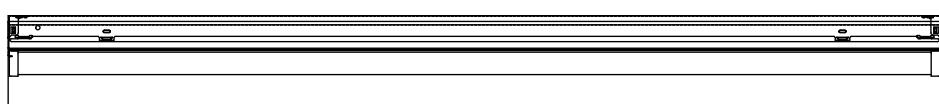
Specifications subject to change without notice.

**PALLET DIMENSIONS**

Length	Approximate weight	Fixtures per pallet	Approximate pallet dimensions (L x W x H)
L24	7 lbs.	176	46" X 51" X 31 5/8"
L48	13 lbs.	176	46" X 51" X 31 5/8"
L96	26 lbs.	63	46" X 98 1/2" X 31 3/8"



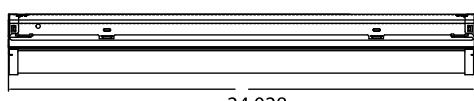
48.028



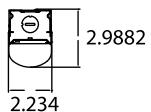
ZL1D L48



Knockout hole is .86in in diameter.

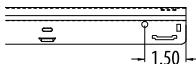


24.028



ZL1D L24

## Mounting Hole Location - All Lengths

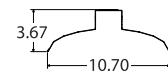
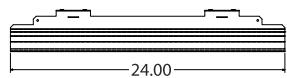
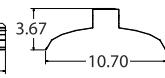
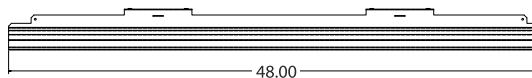
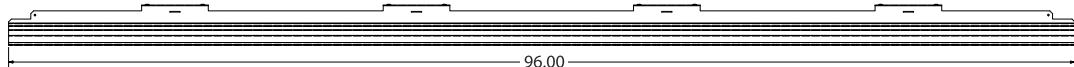


Submitted By  
SYMMETRY LIGHTING LTD

Note:

## ZL1D LED Striplight

### REFLECTORS (Optional)

**L24 Reflector****L48 Reflector****L96 Reflector**

### PHOTOMETRICS

Please see [www.lithonia.com](http://www.lithonia.com)

### PRODUCT INFORMATION

Advanced plug-in system with two-circuit capability. Available on industrial and strip products and a variety of architectural products mounted in continuous rows. 1, 2, 3 and 4-lamp fixtures. PLR22 (2-circuit) and crossover harness switches hot circuit serving next fixture in row. Reduces fixture types on job for alternating circuit applications (see example below.)

Easy one-step installation, saves up to 35% on labor costs. Expanded switching flexibility helps save energy.

Rows can be 50% longer with two-circuit systems. Polarized, lock-together nylon connectors prevent miswiring in the field. #12 THHN conductor, rated 600V, 90°C. White neutral wire included. Grounding accomplished by fixture in-row connectors.

CSA certified systems available with up to 2 circuits. G ground required.

Note: Specifications subject to change without notice.



Wiring

**PLR**

Advanced 1 or 2-Circuit Plug-In

**ORDERING INFORMATION** Lead times will vary depending on options selected. Consult with your sales representative.

Series	Number of hot wires	Branch circuits	Dimming	Ground
PLR	(blank) Not required for 22	Circuits to which ballast is connected	Emergency circuit connected	LV Low-voltage dimming
PLR22	1 Black	(blank) Not required for 22 or PLR1	(blank) No emergency circuit	G Ground, required
	2 Black and red	A Black wire	ELA Emergency circuit wired to black wire	
		B Red wire	ELB Emergency circuit wired to red wire	

**Typical Applications**

- Multiple-circuit and single-circuit for longer continuous rows
- Multiple-circuit with alternating fixtures on separate circuits and 2-circuit (PLR 22)
- Multiple circuit with night-lights located along row as desired



Project 23-28655-0  
LADYSMITH Arts & Heritage Hub  
Submitted By  
SYMMETRY LIGHTING LTD

Catalog Number: ZL1D L48 5000LM FST MVOLT 35K 80CRI

WH  
Note:

Type  
**M**

## ZL1D LED Striplight

### LSXR – Fixture Mount Occupancy Sensor (see [www.AcuityControls.com](http://www.AcuityControls.com) for additional information)

- Three interchangeable lens options to satisfy multiple mounting heights and coverage pattern requirements.
- Integrated mounting bracket drops lens down 3" from chase nipple.
- Single or dual relay versions—designed with robust protection from the harsh switching requirements of T5 and LED loads.
- Photocell and 0-10VDC dimming options.
- No PIR field calibration or sensitivity adjustments required.
- Sensor ambient temperature rating of 14°F (-10°C) to 131°F (55°C).

LSXR configuration	Comparable CMRB sensor	Old style sensor nomenclature
For shortest lead times use one of the following LSXR configurations		
LCOZU	CMRB 50	MSI
LCHOSZU	CMRB 50 D	MSID
LCPZU	CMRB 50 P	MSIPED
LAOZU	CMRB 6	MSI360
LAHOSZU	CMRB 6 D	MSI360D
LAPZU	CMRB 6 P	MSI360PED

**SELECTIONS BELOW WILL EXTEND ORDER LEAD TIME. CONSULT YOUR SALES REPRESENTATIVE FOR DETAILS.**

#### SINGLE RELAY

##### ORDERING INFORMATION

**Example: LAHOSZU**

Series	Lens option	Dimming/Photocell	Max. dim level	Min. dim level	Temp/Humidity	Default occupancy time delay
L LSXR passive infrared indoor occupancy sensor	A High mount, 360° B Low mount, 360° C High mount aisleway	O None <sup>1</sup> H High/low occupancy operation P Switching photocell (on/off) M Dimming and switching photocell G Dimming and switching photocell with high/low occupancy operation	0 10 VDC 9 9 VDC 8 8 VDC 7 7 VDC	5 Minimum dim level of ballast 1 1 VDC 2 2 VDC 3 3 VDC 4 4 VDC 5 5 VDC 6 6 VDC	Z None T Low temperature <sup>2</sup>	I 30 sec D 2.5 min X 5.0 min R 7.5 min U 10.0 min (with minimum 15 minute on time) V 15.0 min W 20.0 min Y 30.0 min

##### Notes

1 Max and min dim levels not applicable with this option.

2 Ambient temperature rating of -4°F (-20°C) to 131°F (55°C).

#### DUAL RELAY (Available with 120, 277, and 347V only)

##### ORDERING INFORMATION

**Example: LA2KZU**

Series	Lens option	Poles	Operating mode	Temp/Humidity	Default occupancy time delay
L LSXR passive infrared indoor occupancy sensor	A High mount, 360° B Low mount, 360° C High mount aisleway	2 Dual relay	J None K Alternating off relays (promotes even lamp wear) O Alternating off relays w/photocell P Switching photocell(on/off) E Photocell on/off (pole 1 only) F Photocell on/off - both poles (dual set-point)	Z None T Low temperature <sup>1</sup>	I 30 sec D 2.5 min X 5.0 min R 7.5 min U 10.0 min (with minimum 15 minute on time) V 15.0 min W 20.0 min Y 30.0 min

**Example: LENS 50 J100**

Replacement lenses: Order as separate catalog number.		
Series	Lens type	Package quantity
LENS	6 High mount 360° 10 Low mount 360° 50 High mount aisleway	[blank] Single Lens J10 10-pack J100 100-pack

##### Notes

1 Ambient temperature rating of -4°F (-20°C) to 131°F (55°C).

## ZL1D LED Striplight

### OPTIONS AND ACCESSORIES

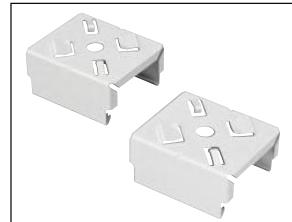
The Z Series fixture offers numerous options for almost every electrical and optical component, including a long list of field-installable accessories.

**HANGER CHAIN**

36" chain with Y hanger.

Order as:

HC36

**Z SPRING HANGER**

Snap 'n' lock design requires no fasteners and can be used on T-grid ceiling or universal mounting systems.

Order as:

ZSPRG

**ZACVH HANGER**

10' Aircraft cable with Y hanger.

Order as:

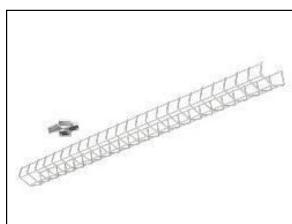
ZACVH

**ANGLE MOUNTING BRACKET**

Luma-tilt™ angle bracket ships as a pair

Order as:

ZLANGBKT

**WIRE GUARD**

Order as:

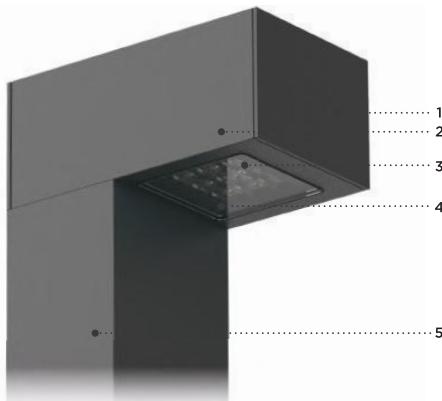
WGZ24

WGZ48



## BVA11B/BVA12B SERIES Bellevue - LED BOLLARD

TYPE: _____	QUANTITY: _____	PROJECT: _____						
CATALOG NUMBER: _____	MODEL	LED LIGHT SELECTION	CCT	VOLTAGE	FINISH	OPTION	OPTION	OPTION



- 1- Front cover constructed of corrosion resistant aluminum.
- 2- 4.5" (114mm) x 6" (152mm) Extruded aluminum optical chamber.
- 3- Available in configurations of 9 LEDs or 18 LEDs
- 4- Clear tempered glass.
- 5- 4.5" (114mm) x 6" (152mm) 6063-T6 aluminum pole. 0.125" wall thickness. All stainless steel hardware.

**MATERIALS**

Bellevue bollard is made of 6063-T6 extruded aluminum alloy. LED board is assembled on a thick extruded aluminum profile and protected by a clear tempered glass. The acrylic optics provide a wide range of IES type distribution. The driver is mounted inside the fixture which is accessible from the back of the fixture head for ease of maintenance.

**ELECTRICAL**

**DRIVER** Standard driver is 120-277V multi-volt compatibility (50-60Hz), 0-10V dimming-ready (dims to 10%). Optional 347/480V, operating temperatures of -40°C/-40°F to 55°C/131°F, output over voltage protection, output over current protection, output short circuit protection with auto-recovery.

**LED** Type I, II, III, IV light distribution via high performance optical lenses. Offered in 2700K, 3000K, 3500K, 4000K / 80 CRI. Optional true amber LED for turtle sensitive areas. Wavelengths: 584.5nm to 597nm.

**LIFETIME**

60,000hrs L70B50 (based on LM-80 report for lumen maintenance).

**FINISH**

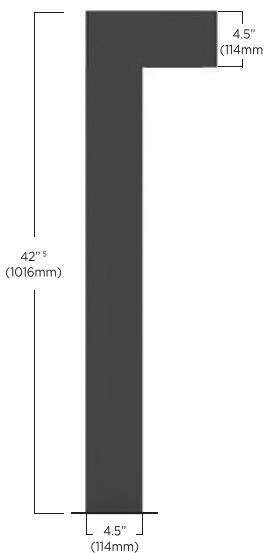
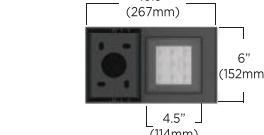
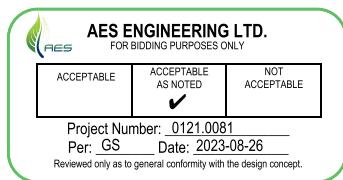
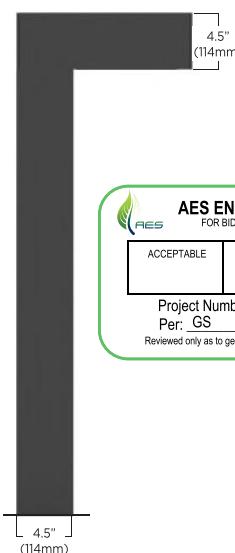
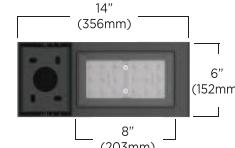
Polyester powder coating is applied through an electrostatic process, and oven cured for long term finish.

**CERTIFICATION**

Tested to UL1598 and CSA 22.2 #250, cULus listed wet location. Photometric testing performed by an independent laboratory in accordance with IES LM-79-08 standards at 25°C. Lumen depreciation in accordance with IESNA LM80 standards. Rated IP65. Rated IK10.

**MOUNTING**

Maximum weight: 25 lbs (11.3 kg)  
Bellevue is designed for ease of access and installation.  
The head is secured on a mounting bracket that is accessible from the inside. The base plate is secured with a set of (4) 3/8"-16 x 10" lg. galvanized hook anchor bolts.

**BVA11B****BVA12B**



Project 23-28655-0  
LADYSMITH Arts & Heritage Hub

Submitted By  
SYMMETRY LIGHTING LTD

Catalog Number: BVA11B L1L24-TYPE3 K35 120V BKT

Note:

Type  
**N**

## BVA11B/BVA12B SERIES Bellevue - LED

### LUMINAIRE SELECTION - BVA11B/BVA12B

<b>1 MODEL</b>	<b>2 LED LIGHT SELECTION</b>	<b>3 CCT °K LED</b>	<b>4 VOLTAGE <sup>1</sup></b>	<b>5 FINISH</b>																																																		
 <input type="checkbox"/> <b>BVA11B</b>	<b>WHITE LED SELECTION</b> <table border="1"> <thead> <tr> <th>TYPE</th><th>SUFFIX</th><th>DELIVERED LUMENS*</th><th>INPUT WATTS</th></tr> </thead> <tbody> <tr> <td><b>TYPE I</b></td><td><input type="checkbox"/> L1L10-TYP1 <input type="checkbox"/> L1L16-TYP1 <input type="checkbox"/> L1L24-TYP1</td><td>1205 1846 2635</td><td>11 19 30</td></tr> <tr> <td><b>TYPE II</b></td><td><input type="checkbox"/> L1L10-TYP2 <input type="checkbox"/> L1L16-TYP2 <input type="checkbox"/> L1L24-TYP2</td><td>1072 1643 2345</td><td>11 19 30</td></tr> <tr> <td><b>TYPE III</b></td><td><input type="checkbox"/> L1L10-TYP3 <input type="checkbox"/> L1L16-TYP3 <input checked="" type="checkbox"/> L1L24-TYP3</td><td>977 1497 2137</td><td>11 19 30</td></tr> <tr> <td><b>TYPE IV</b></td><td><input type="checkbox"/> L1L10-TYP4 <input type="checkbox"/> L1L16-TYP4 <input type="checkbox"/> L1L24-TYP4</td><td>904 1384 1976</td><td>11 19 30</td></tr> </tbody> </table> <p>*4000K / 80CRI</p>	TYPE	SUFFIX	DELIVERED LUMENS*	INPUT WATTS	<b>TYPE I</b>	<input type="checkbox"/> L1L10-TYP1 <input type="checkbox"/> L1L16-TYP1 <input type="checkbox"/> L1L24-TYP1	1205 1846 2635	11 19 30	<b>TYPE II</b>	<input type="checkbox"/> L1L10-TYP2 <input type="checkbox"/> L1L16-TYP2 <input type="checkbox"/> L1L24-TYP2	1072 1643 2345	11 19 30	<b>TYPE III</b>	<input type="checkbox"/> L1L10-TYP3 <input type="checkbox"/> L1L16-TYP3 <input checked="" type="checkbox"/> L1L24-TYP3	977 1497 2137	11 19 30	<b>TYPE IV</b>	<input type="checkbox"/> L1L10-TYP4 <input type="checkbox"/> L1L16-TYP4 <input type="checkbox"/> L1L24-TYP4	904 1384 1976	11 19 30	<b>TEMPERATURE*</b> <table border="1"> <tr> <td><input type="checkbox"/> K27</td><td>2700K</td></tr> <tr> <td><input type="checkbox"/> K30</td><td>3000K</td></tr> <tr> <td><input checked="" type="checkbox"/> K35</td><td>3500K</td></tr> <tr> <td><input type="checkbox"/> K40</td><td>4000K</td></tr> </table>	<input type="checkbox"/> K27	2700K	<input type="checkbox"/> K30	3000K	<input checked="" type="checkbox"/> K35	3500K	<input type="checkbox"/> K40	4000K	<b>STANDARD</b> <table border="1"> <tr> <td><input type="checkbox"/> 120V</td></tr> <tr> <td><input type="checkbox"/> 208V</td></tr> <tr> <td><input type="checkbox"/> 240V</td></tr> <tr> <td><input type="checkbox"/> 277V</td></tr> </table>	<input type="checkbox"/> 120V	<input type="checkbox"/> 208V	<input type="checkbox"/> 240V	<input type="checkbox"/> 277V	<b>STANDARD COLORS</b> <table border="1"> <tr> <td><input type="checkbox"/> WHT</td><td>Snow white</td></tr> <tr> <td><input checked="" type="checkbox"/> BKT</td><td>Jet black</td></tr> <tr> <td><input type="checkbox"/> BZT</td><td>Bronze</td></tr> <tr> <td><input type="checkbox"/> MST</td><td>Matte silver</td></tr> <tr> <td><input type="checkbox"/> GRT</td><td>Titanium gray</td></tr> <tr> <td><input type="checkbox"/> DGT</td><td>Gun metal</td></tr> <tr> <td><input type="checkbox"/> CHT</td><td>Champagne</td></tr> <tr> <td><input type="checkbox"/> SGT</td><td>Steel gray</td></tr> <tr> <td><input type="checkbox"/> BGT</td><td>English cream</td></tr> </table>	<input type="checkbox"/> WHT	Snow white	<input checked="" type="checkbox"/> BKT	Jet black	<input type="checkbox"/> BZT	Bronze	<input type="checkbox"/> MST	Matte silver	<input type="checkbox"/> GRT	Titanium gray	<input type="checkbox"/> DGT	Gun metal	<input type="checkbox"/> CHT	Champagne	<input type="checkbox"/> SGT	Steel gray	<input type="checkbox"/> BGT	English cream
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<b>TYPE II</b>	<input type="checkbox"/> L2L26-TYP2 <input type="checkbox"/> L2L34-TYP2 <input type="checkbox"/> L2L40-TYP2	2632 3285 3780	29 38 46																																																			
<b>TYPE III</b>	<input type="checkbox"/> L2L26-TYP3 <input type="checkbox"/> L2L34-TYP3 <input type="checkbox"/> L2L40-TYP3	2398 2994 3445	29 38 46																																																			
<b>TYPE IV</b>	<input type="checkbox"/> L2L26-TYP4 <input type="checkbox"/> L2L34-TYP4 <input type="checkbox"/> L2L40-TYP4	2218 2769 3186	29 38 46																																																			
	<b>AMBER LED SELECTION - TURTLE FRIENDLY</b> <table border="1"> <thead> <tr> <th>TYPE</th><th>SUFFIX</th><th>DELIVERED LUMENS</th><th>INPUT WATTS</th></tr> </thead> <tbody> <tr> <td><b>TYPE I</b></td><td><input type="checkbox"/> L2LK2A-TYP1</td><td>698</td><td>16</td></tr> <tr> <td><b>TYPE II</b></td><td><input type="checkbox"/> L2LK2A-TYP2</td><td>621</td><td>16</td></tr> <tr> <td><b>TYPE III</b></td><td><input type="checkbox"/> L2LK2A-TYP3</td><td>566</td><td>16</td></tr> <tr> <td><b>TYPE IV</b></td><td><input type="checkbox"/> L2LK2A-TYP4</td><td>524</td><td>16</td></tr> </tbody> </table>	TYPE	SUFFIX	DELIVERED LUMENS	INPUT WATTS	<b>TYPE I</b>	<input type="checkbox"/> L2LK2A-TYP1	698	16	<b>TYPE II</b>	<input type="checkbox"/> L2LK2A-TYP2	621	16	<b>TYPE III</b>	<input type="checkbox"/> L2LK2A-TYP3	566	16	<b>TYPE IV</b>	<input type="checkbox"/> L2LK2A-TYP4	524	16	*80CRI		*Refer to color chart																														
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**LUMINIS.**

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260 Labrosse, Pointe-Claire (QC) Canada H9R 5L5

Luminaires may be altered for design improvement without prior notice.

**LUMINIS.COM**

## BVA11B/BVA12B SERIES

### Bellevue - LED

#### OPTIONS

**PHOTOCELL**

- PH** Thermal button photocell mounted on top casted housing (as shown on image). Instant turn-on, standard 5-10 second turn-off time delay.

**FUSE SAFETY**

- FS** Fuse

**SURGE PROTECTOR**

- SP** 10kV surge protector

**FAUX WOOD COLORS<sup>4</sup>**

- |                                     |                  |                                     |          |
|-------------------------------------|------------------|-------------------------------------|----------|
| <input type="checkbox"/> <b>ADG</b> | American douglas | <input type="checkbox"/> <b>MPL</b> | Maple    |
| <input type="checkbox"/> <b>BRC</b> | Birch            | <input type="checkbox"/> <b>OFL</b> | Oak      |
| <input type="checkbox"/> <b>CHN</b> | Chestnut         | <input type="checkbox"/> <b>RSW</b> | Rosewood |
| <input type="checkbox"/> <b>CRY</b> | Cherry           | <input type="checkbox"/> <b>TEK</b> | Teak     |
| <input type="checkbox"/> <b>KNP</b> | Knotty pine      | <input type="checkbox"/> <b>WLN</b> | Walnut   |

**GROUND FAULT CIRCUIT INTERRUPTION<sup>3</sup>**

- GFI** Ground fault circuit interruption flush receptacle. Access door secured with torx screws.

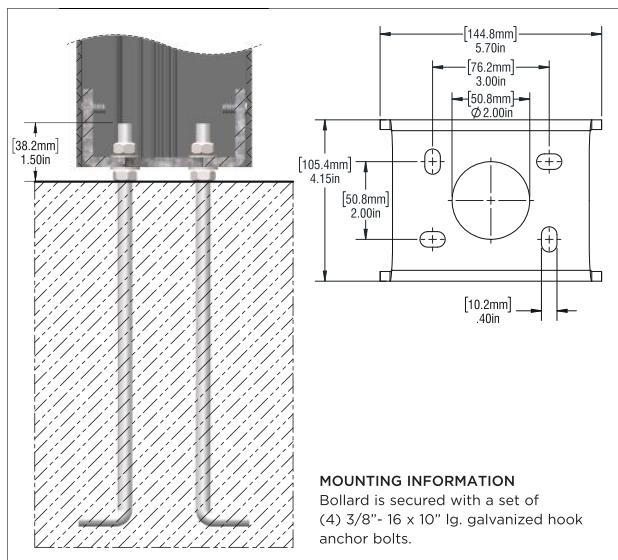
**ENVIRONMENT**

- MG** Marine grade paint<sup>2</sup>  
 **NT** Natatorium (only available in WHT and BKT)

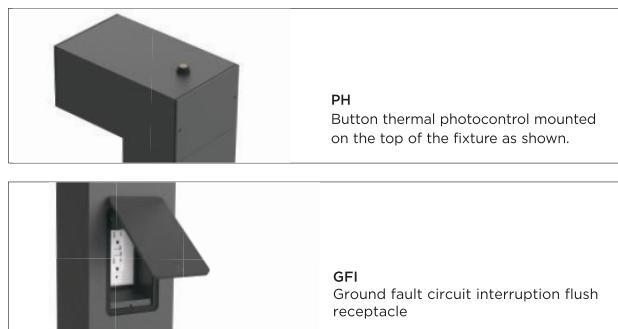
**NOTES**

- 1-** If no voltage is specified, luminaires are factory prewired by default for 120V. For other voltages, please specify with catalog number, or consult factory.
- 2-** Marine grade paint for harsh, coastal environment and exposure to salt water. Longer lead time may apply please contact factory for info.
- 3-** GFI option are installed 27" above grade . GFI flush cover. GFI receptacle by others. 120V required for GFI.
- 4-** Faux wood finish not applied to the fixture head.
- 5-** For additional height, contact factory. Longer lead time may apply.

#### MOUNTING INFORMATION



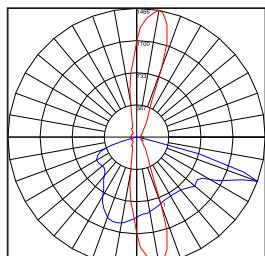
#### OPTIONS DETAILS



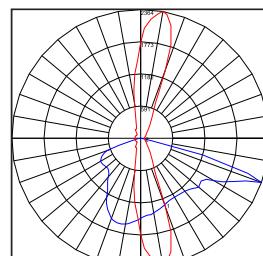
## BVA11B/BVA12B SERIES

### Bellevue - LED

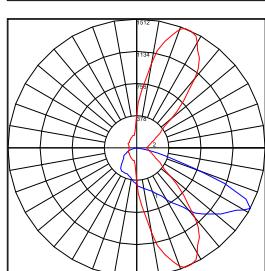
#### TYPICAL PHOTOMETRY SUMMARY

**BVA11B-L1L24-TYP1**

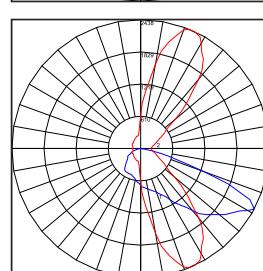
Delivered lumens : 2635 lumens  
Power consumption 30.5W  
Efficacy : 87 Lumens/Watt  
Maximum Candela : 1466 @ 80°H/70°V  
BUG : B1-U0-G1

**BVA12B-L2L40-TYP1**

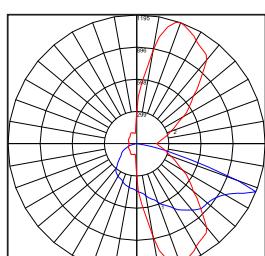
Delivered lumens : 4274 lumens  
Power consumption 46.3W  
Efficacy : 92 Lumens/Watt  
Maximum Candela : 2364 @ 80°H/70°V  
BUG : B2-U0-G1

**BVA11B-L1L24-TYP2**

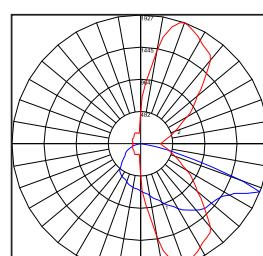
Delivered lumens : 2345 lumens  
Power consumption 30.5W  
Efficacy : 77 Lumens/Watt  
Maximum Candela : 1195 @ 68°H/62°V  
BUG : B1-U0-G0

**BVA12B-L2L40-TYP2**

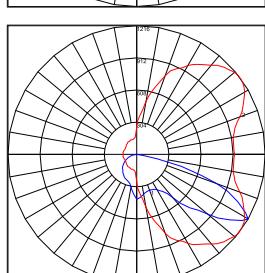
Delivered lumens : 3780 lumens  
Power consumption 46.3W  
Efficacy : 81 Lumens/Watt  
Maximum Candela : 2438 @ 68°H/62°V  
BUG : B1-U0-G1

**BVA11B-L1L24-TYP3**

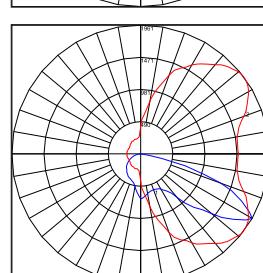
Delivered lumens : 2145 lumens  
Power consumption 30.5W  
Efficacy : 70 Lumens/Watt  
Maximum Candela : 1195 @ 70°H/68°V  
BUG : B1-U0-G0

**BVA12B-L2L40-TYP3**

Delivered lumens : 3445 lumens  
Power consumption 46.3W  
Efficacy : 75 Lumens/Watt  
Maximum Candela : 1937 @ 70°H/68°V  
BUG : B1-U0-G1

**BVA11B-L1L24-TYP4**

Delivered lumens : 1976 lumens  
Power consumption 30.5W  
Efficacy : 65 Lumens/Watt  
Maximum Candela : 1216 @ 38°H/60°V  
BUG : B1-U0-G1

**BVA12B-L2L40-TYP4**

Delivered lumens : 3186 lumens  
Power consumption 46.3W  
Efficacy : 69 Lumens/Watt  
Maximum Candela : 1961 @ 38°H/60°V  
BUG : B1-U0-G1

#### LUMEN CONVERSION FACTOR (LCF)

CCT	LCF	CRI
2700K	0.91	80
3000K	0.94	80
3500K	0.98	80
4000K	1.00	80

All Photometry shown use the Standard 80CRI 4000K LEDs.  
Please visit our web site [www.luminis.com](http://www.luminis.com) for complete I.E.S. formatted download data

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