

SPECIFICATION SHEET

Ardito LED - A4SWW

4" Series

Ultra-Thin Profile Square Wall Wash Trim

Project _____

Notes _____

Fixture Type _____

Date _____



WITH FLANGE

A3SWW-1111 - XXX (illustrated)



FLANGELESS TRIM

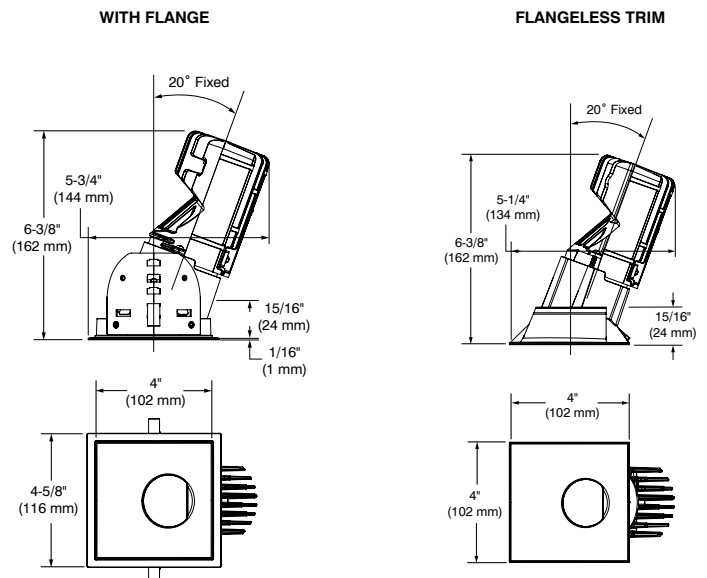
A4SWW-TR11 - XXX (illustrated)

Aluminum Square, 4" high efficiency wall wash dimmable LED. May be installed with a low profile ultra-thin flange or flangeless trim in configuration for insulated, non-insulated and remodel (non-IC) ceilings.



SPECIFICATIONS

TRIM DETAILS	<p>Requires a 6-1/2" (165 mm) clearance beyond the ceiling level for standard using and 7" (178 mm) for Lumenetix option using.</p> <p>Perfect fit into ceiling</p> <p>Each part of the housing should be at LEAST 3" (76 mm) from insulation (non-IC configurations)</p> <p>Can fit in ceilings up to 1-1/2" (38 mm) thick</p> <p>Junction box is accessible from below the ceiling for ease of maintenance</p>
HEAT SINK	<p>High quality injection molded aluminum heat sink ensuring maximum heat dissipation for optimal performance.</p>
CEILING CUTOUT	<p>4-1/4" (108 mm) x 4-1/4" (108 mm)</p> <p>Included: Cardboard cutout template</p> <p>Optional: Reusable steel cutout template for square trim (TEMP-SQ)</p>
CERTIFICATION	<ul style="list-style-type: none"> cULus E343977 for damp locations Certified Air Tight ASTM E283
WARRANTY	<p>1 year on components against manufacturing defects</p> <p>5 years on LED arrays and drivers</p>



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SPECIFICATIONS (CONT'D)

LIGHT ENGINE

Options in red may generate a longer production lead time

STANDARD (SOLID WHITE)

Lumileds Luxeon CoB 1205 GEN3 for Narrow Flood and Flood beams. Lumileds Luxeon CoB 1203 GEN3 for Spot beam.

L₇₀ @ 50,000 hours of operation. 3-Step MacAdam ellipse (3 SDCM)

Color Temperatures: 2,700K - 3,000K - 3,500K - 4,000K

CRI: 90+ (93 typical)

R9: >50

Delivered Lumens: Performance 1 (14W) - 442.8 lumens @ 3,000K, 32.5 lm/W
Performance 2 (23W) - 629.3 lumens @ 3,000K, 46.2 lm/W

Power Supply: 120V / 277V (universal input)

One driver available in 2 performances (14W and 23W) and offering 2 dimming options within the same unit:

ELV: 120V only 0-10V: 120V / 277V

Consult housing specification sheet for more details.

WARM DIMMING (WD)

Lumenetix Araya DDM1 Dynamic Dimming Module. Delivers dimmable (100% - 1%) white light that warms as it dims, reproducing dimming conditions of a halogen lamp. It allows the user to change the color temperature from 3,050K to 1,800K at minimum intensity all this while ensuring a 90+ CRI over the full dimming range.

L₇₀ @ 50,000 hours of operation. 2-Step MacAdam ellipse (2 SDCM)

Color Temperatures: 3,050K to 1,800K

CRI: 90+ (over the entire dimming range)

Delivered Lumens: Performance L (12.5W) - up to 700 lumens

Power Supply: 120V - 277V (universal input)

One driver available in one performance (12.5W) and offering one dimming option:

0-10V: 120V / 277V

Consult Lumenetix Website (www.lumenetix.com) and refer to the documentation for the DDM119 module for more information.

COLOR TUNING (CT)

Lumenetix Araya CTM1 Color Tuning Module. Delivers tunable and dimmable (100% - 1%) white light from 1,650K to 4,000K as well as millions of colors.

L₇₀ @ 50,000 hours of operation. 2-Step MacAdam ellipse (2 SDCM)

Color Temperatures: 1,650K to 4,000K (adjustable)

CRI: 90+ (for all solid white)

Delivered Lumens: Performance L (12.5W) - up to 700 lumens

Power Supply: 120V - 277V (universal input)

One driver available in one performance (12.5W) and offering different control options:

DMX512-A: 4 channels - DIM (dim level) - CCT (correlated color temperature)
- SAT (saturation level) - HUE (color)

0-10V: One dimmer per channel (ex.: DIM and CCT)

"Araya 5" iOS App. (free): Allows programation of up to 5 scenes. The App. can be used to override the cabled system.

Consult Lumenetix Website (www.lumenetix.com) and refer to the documentation for the CTM119 module for more information.

SPECIFICATION SHEET

Ardito LED - A4SWW

4" Series

Ultra-Thin Profile Square Wall Wash Trim

SPECIFICATIONS (CONT'D)

COMPATIBLE HOUSINGS

	Remodel Housing	New Construction Housing	Insulated Housing	Insulated Air Tight Housing (Title 24)	Ceiling thickness suggested for insulated housing as a using standard and Lumenetix option
Performance 1 (14W)	REA4V1	NWA4SV1	*ISA4SV1	*ICAT6S4-ARV1	* Ceiling thickness must be at least 1/2" (13 mm) for insulated housing as a using standard.
Performance 2 (23W)	REA4V2	NWA4SV2	*ISA4SV2	*ICAT6S4-ARV2	
Lumenetix (12.5W)	REA4VL	NWA4SVL	**ISA4SVL		** Ceiling thickness must be at least 1" (25 mm) for insulated housing with Lumenetix option.

For dimming, please visit our Web site frequently to find our suggested compatible dimmers: www.contrastlighting.com

OPTIC SYSTEM

Choice of available lense:**Frosted/Frosted (F)****Standard**

Flood (L)	54°
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* Average beam shown. Consult .ies files on our Website for more details.

FLANGE FINISHES

Options in red may generate a longer production lead time

Powder coat painted or plated die formed steel.

Different finishes available:

24K Gold Plated (-03), Chrome (-04), Brushed Chrome (-04BR), Matte White (-11), Brushed Nickel (-12BR), Satin Nickel (-13), Matte Black (-22) and Polar Grey (-25)

REFLECTOR FINISHES

Painted

Matte White (11)
*Matte black (22)

Natural Anodized Aluminum (AN)

* **Recommended for optimum Wall Wash result**

FLANGELESS TRIMS

Perforated aluminum plate for borderless product, allowing you to plaster up to the edge of the opening of the Ardito luminaire.

Mud-in-plate sold separately.

Ordering code: MIPA4S

Consult housing specification sheet for more details.

CONTRASTE2020-09
Revision 2

PRINTED IN CANADA

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SPECIFICATION SHEET

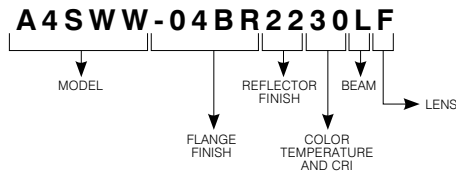
Ardito LED - A4SWW

4" Series

Ultra-Thin Profile Square Wall Wash Trim



TRIM WITH FLANGE CODIFICATION EXAMPLE

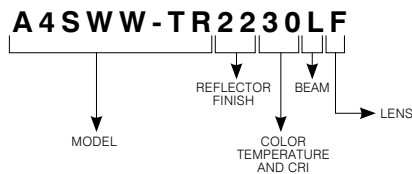


Options in red may generate a longer production lead time.

TRIM WITH FLANGE ORDERING CODES **A4SWW**

MODEL	FLANGE FINISHES	REFLECTOR FINISHES	COLOR TEMPERATURES AND CRI	BEAM	LENS
A4SWW				L	F
A4SWW	-04BR Brushed Chrome	PAINTED	27 2,700K (90+ CRI)	L Flood (54°)	F Frosted/Frosted
	-11 Matte White	11 Matte White	30 3,000K (90+ CRI)		
	-12BR Brushed Nickel	22* Matte Black	35 3,500K (90+ CRI)		
	-22 Matte Black	AN Natural Anodized Aluminum	40 4,000K (90+ CRI)		
	-25 Polar Grey		CT 1,650K to 4,000K (90+ CRI)		
	-03 24K Gold Plated	*(Recommended for optimum Wall Wash results)	WD 3,050K to 1,800K (90+ CRI)		
	-04 Chrome				
	-13 Satin Nickel				

FLANGELESS TRIM CODIFICATION EXAMPLE



Mud-in-plate required for use of flangeless trim (see ordering code below)

Options in red may generate a longer production lead time.

FLANGELESS TRIM ORDERING CODES **A4SWW-TR**

MODEL	REFLECTOR FINISHES	COLOR TEMPERATURES AND CRI	BEAM	LENS
A4SWW-TR			L	F
A4SWW-TR	PAINTED	27 2,700K (90+ CRI)	L Flood (54°)	F Frosted/Frosted
	11 Matte White	30 3,000K (90+ CRI)		
	22* Matte Black	35 3,500K (90+ CRI)		
	AN Natural Anodized Aluminum	40 4,000K (90+ CRI)		
		CT 1,650K to 4,000K (90+ CRI)		
	*(Recommended for optimum Wall Wash results)	WD 3,050K to 1,800K (90+ CRI)		

Ardito LED - A4SWW

4" Series

Ultra-Thin Profile Square Wall Wash Trim

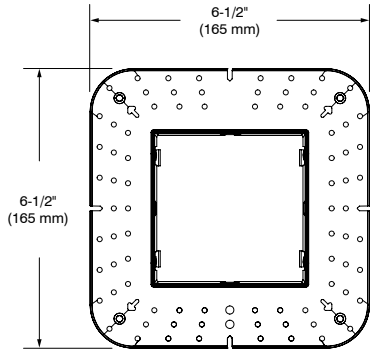


MUD-IN-PLATE

Required with the use of flangeless trims.
Consult housing specification sheet for more details.



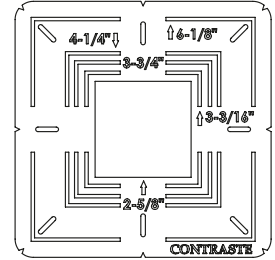
Code: MIPA4S



REUSABLE TEMPLATE OPTION

Reusable steel cutout template
for square trim.

Code: TEMP-SQ



ORDERING CODES for replacement lenses

Frosted/ Frosted (F): 317285

Ardito LED - A4SWW

4" Series

Ultra-Thin Profile Square Wall Wash Trim

PHOTOMETRIC DATA



In order to obtain the accurate photometric data, multiply the lumens relative to your product selection by the applicable factor(s). Take note these factors also need to be implemented in the .ies files available on our website.

WITH PERFORMANCE 1 HOUSING (14W)

	Flood (54°)	
2,700K with 90+ CRI	455 lm	32.5 lm/W
3,000K with 90+ CRI	471 lm	33.6 lm/W
3,500K with 90+ CRI	493 lm	35.2 lm/W
4,000K with 90+ CRI	506 lm	36.1 lm/W

WITH PERFORMANCE 2 HOUSING (23W)

	Flood (54°)	
2,700K with 90+ CRI	648 lm	28.2 lm/W
3,000K with 90+ CRI	671 lm	29.2 lm/W
3,500K with 90+ CRI	701 lm	30.5 lm/W
4,000K with 90+ CRI	719 lm	31.3 lm/W

WITH PERFORMANCE L HOUSING (12.5W)

	Flood (54°)	
Warm Dimming (WD) with 90+ CRI	234 lm	18.7 lm/W
Color Tuning (CT) with 90+ CRI	245 lm	19.6 lm/W

CONTRASTE

2020-09
Revision 2

PRINTED IN CANADA

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Ardito LED - A4SWW

4" Series

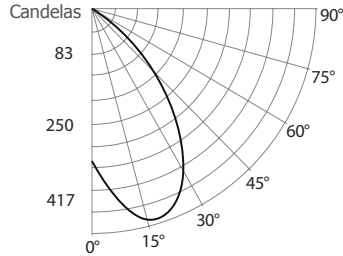
Ultra-Thin Profile Square Wall Wash Trim

PHOTOMETRIC DATA



3,000K, 90+ CRI, Flood, Performance 1

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
04'	21.5	4.0'
08'	5.4	8.1'
12'	2.4	12.1'
16'	1.3	16.2'

Beam: 54°
Beam Edge defined as 50% of Maximum Nadir Candle-power.

LUMINAIRE

Performance 1 LED	3,000K Flood	
CBCP / Lumens	343	/ 442.8
Watts	120V	277V
	14W	14.5W
Operating AMPS	0.12A	0,052A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	31.6	
Spacing Criteria	0,91	

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80		50		30		
Wall Reflect %	50	30	50	30	50	30	
RCR	0	112	112	105	105	100	100
	2	94	90	89	86	86	84
	4	79	73	76	71	74	70
	6	67	61	65	59	63	59
	8	58	51	56	51	55	50
	10	50	44	49	44	48	43

Zonal Cavity Method
Effective Floor Cavity Reflectance 20%

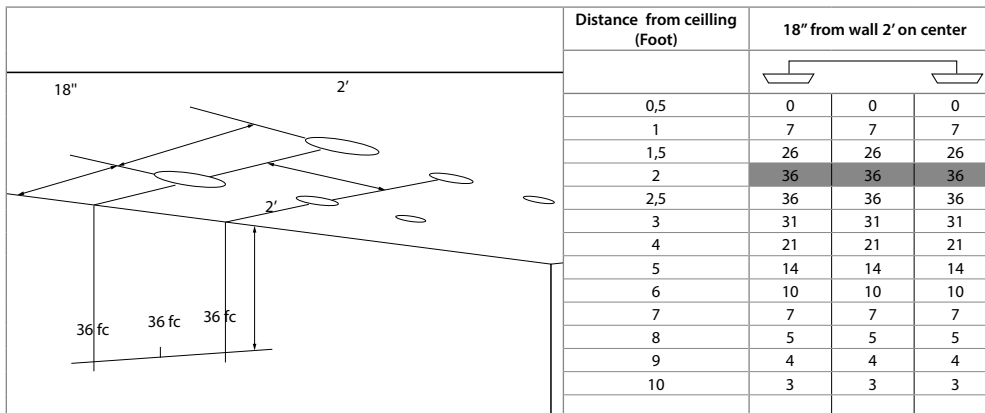
ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	230.1	52%
0-40	333.2	75.2%
0-60	434.8	98.2%
60-90	8.0	1.8%
0-180	442.8	100%

CANDELAS DISTRIBUTION

DEGREES/ VERTICAL	CANDELAS	DEGREES/ VERTICAL	CANDELAS
0	343	40	278
5	404	50	125
10	458	60	46
15	487	70	3
20	486	80	0
25	461	90	0
30	413		

Footcandles On Wall - Performance 1



Note: Footcandles Data

Ardito LED - A4SWW

4" Series

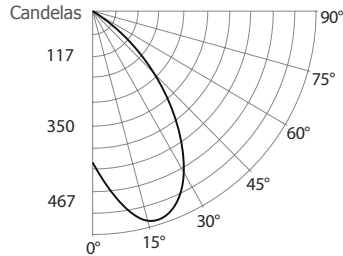
Ultra-Thin Profile Square Wall Wash Trim

PHOTOMETRIC DATA



3,000K, 90+ CRI, Flood, Performance 2

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
04'	29.4	4.10'
08'	7.4	8.2'
12'	3.3	12.3'
16'	1.8	16.3'

Beam: 54"
Beam Edge defined as 50% of Maximum Nadir Candle-power.

LUMINAIRE

Performance 2 LED	3,000K Flood	
CBCP / Lumens	471	/ 629.9
Watts	120V	277V
	23W	23,5W
Operating AMPS	0.19A	0.085A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	27.4	
Spacing Criteria	0.91	

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80		50		30		
Wall Reflect %	50	30	50	30	50	30	
RCR	0	112	112	104	104	100	100
	2	94	89	89	86	86	83
	4	79	72	75	70	73	69
	6	67	60	64	59	63	58
	8	57	51	55	50	54	49
	10	50	44	49	43	48	43

Zonal Cavity Method
Effective Floor Cavity Reflectance 20%

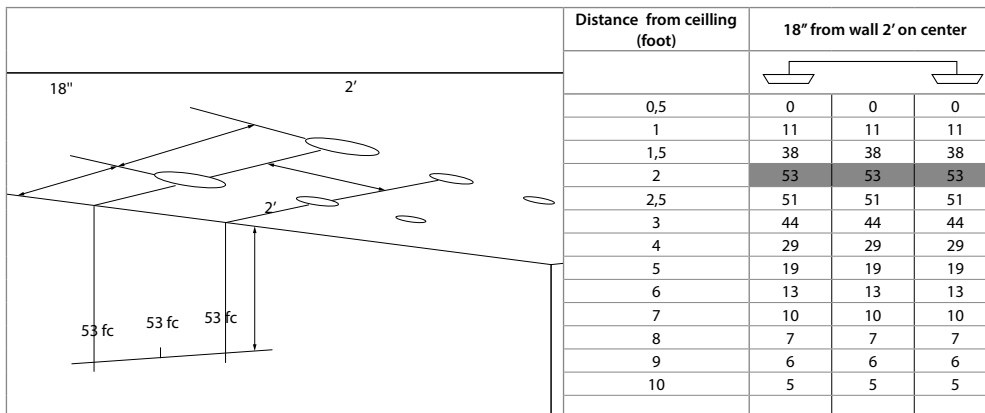
ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	319.9	50.8%
0-40	468	74.3%
0-60	618.1	98.1%
60-90	11.8	1.9%
0-90	629.9	100%

CANDELAS DISTRIBUTION

DEGREES/ VERTICAL	CANDELAS	DEGREES/ VERTICAL	CANDELAS
0	471	40	398
5	555	50	188
10	633	60	68
15	679	70	3
20	683	80	0
25	651	90	0
30	584		

Footcandles On Wall - Performance 2



Note: Footcandles Data