prescolite

A2LED

2" LED ADJUSTABLE
120/277V

DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #:

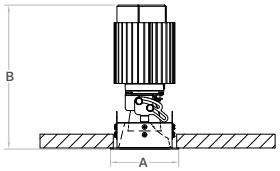


FEATURES

- 2" architectural adjustable LED luminaire delivering 700–1200 lm
- Available in 2700K, 3000K, 3500K, 4000K, and 5000K
- TriGain® technology is standard and delivers 90+ CRI (50+ R9) color rendition without efficacy compromise
- Smooth 35° optical pattern with up to 30° vertical tilt
- 360° horizontal aiming during installation using spring-loaded retention
- Compact J-Tube architecture for simplified installation and service from below the ceiling
- Standard 0–10V dimming with optional dimming below 1%
- Suitable for damp location applications

C SA US

TriGain® technology



Typical Dimensions and Weights				
Distribution	Aperture Inches (mm)	"A" Diameter Inches (mm)	"B" Height Inches (mm)	Weight Lbs (kg)
FL35	Ø 2.25" (57.2mm)	Ø 3.125" (79.4mm)	Ø 6.75" (171.5mm)	2.5 (1.1)

See DIMENSIONS section for complete details.

SPECIFICATIONS

CONSTRUCTION

- Compact J-Tube assembly integrates junction box and driver electronics
- Extruded aluminum heat sink for thermal management
- Ships as a single unit that can be wired, installed, removed, or serviced from below the ceiling plane
- Precision spun aluminum self-flanged reflector construction

OPTICS

- High-purity spun aluminum reflector with anodized and painted finish options
- Smooth 35° optical pattern
- Adjustable up to 30° from vertical
- Spring-loaded retention allows 360° horizontal aiming during installation
- Upper reflector is always specular

ELECTRICAL

- Chip-on-board LED with 2 SDCM
- TriGain® technology provides improved color rendition without compromise to LED efficacy
- 2700K, 3000K, 3500K, 4000K, 5000K CCTs, 90+ CRI
- Long LED life: L70 / >66,000 hours (TM-21)
- Universal voltage 120–277V driver
- UL Class 2, inherent short circuit and overload protection
- 0–10V, phase dimming and Lutron driver options

INSTALLATION

- J-Tube assembly can be accessed from below the ceiling plane
- Vertical aiming must be adjusted and locked before installation
- Accommodates ceiling thickness from 0.50" to 1.25"
- Through-branch wiring supported with appropriate connector

CERTIFICATIONS

- CSA C/US certified to UL1598
- Suitable for damp locations, covered ceiling
- Non–IC rated and 2IN/2OUT through branch wiring
- Suitable for operation in environments -20°C to 25°C ambient

WARRANTY

- 5 Year Warranty

KEY DATA	
Lumen Range	700–1200
Wattage Range	7.7–14.4
Efficacy Range (LPW)	81–86
Reported Life (Hours)	L70 / >66,000
Input Current (mA)	68–121 (120V)

*Based on Specular, 35K, 90+ CRI

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ORDERING GUIDE

Example: A2LED-2A9LED9L30K9FL35WCWT

CATALOG # _____

J-TUBE ASSEMBLY

A2LED		–	
J-Tube Assembly		**Voltage**	**Options**
A2LED	J-Tube Assembly with Standard 0–10V, 1% Dimming	*Standard 120/277V*	*Standard 0–10V, 1% Dimming* DM01 eldoLED 0–10V Dimming to 0.1% EDM Lutron Hi-Lume EcoSystem Dimming to 0.1%

LIGHT ENGINE ASSEMBLY

2A9LED				9			
Light Engine		**Lumen Output**		**CCT**		**CRI**	**Distribution**
2A9LED	2" Open Reflector/ Light Engine Assembly	7L 9L 12L	700 Lumens 900 Lumens 1200 Lumens	27K 30K 35K 40K 50K	2700K 3000K 3500K 4000K 5000K	9 90+ CRI	FL35 Nominal 35° cutoff

LIGHT ENGINE ASSEMBLY (CONTINUED)

			–
Lower Reflector Finish [4]	**Lower Reflector Color**	**Flange Options [5]**	
Standard Specular	*Standard Clear*	*Standard Matches Reflector Color*	
SS Semi-Specular	LW Light Wheat [1]	WT White Trim Flange [2]	
MFC American Matte	PW Pewter [1]	BT Flat Black Trim Flange [2]	
VS Softglow	BC Painted Flat Black Cone	CT Clear Trim Flange [6]	
VSS SoftSheen	WC Painted White Cone		

Accessories	
☐ FMR2	2" Flush Mount Ring
☐ D2FRM	Mounting Frame
☐ LiteGear	Inverter, single phase central lighting, 125VA–250VA [3]
☐ LPS Series	LitePower micro-inverter, 20VA–55VA [3]

Notes:

1 Only available with SS finish.
2 WT not needed for WC, BT not needed for BC.
3 See Central Inverter compatibility note and web links on page 6.
4 Upper reflector is always Specular.
5 With colors, flange will match reflector finish/color by default, unless WT or BT is specified. With WC or BC painted cones, WT, BT, or CT must be specified.
6 CT is only applicable for painted cones (WC or BC).

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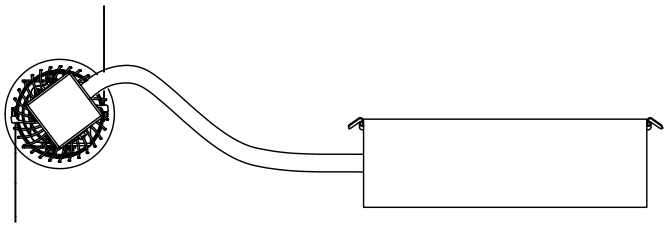
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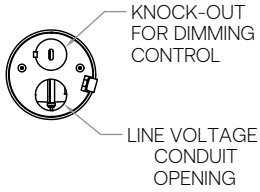
PERFORMANCE DATA TABLE

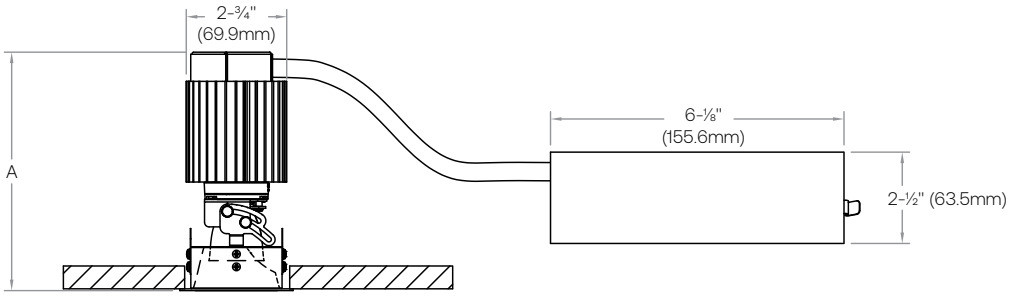
Performance data provided below is for 3500K, 90+ CRI with Specular Clear reflector finish/color

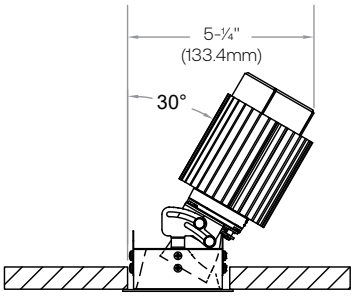
Lumen Package	Nominal Lumens	Lens	Delivered Lumens	Watts	LPW
7L	700	FL35	667	7.7	87
9L	900	FL35	910	10.8	84
12L	1200	FL35	1169	14.4	81

DIMENSIONS









Dimensional Data	
Aperture	ø 2.25" (57.2mm)
Flange	ø 3.125" (79.4mm)
Ceiling Cutout	ø 2.875" (73.0mm)
Ceiling Thickness	0.5" to 1.25" (12.7mm to 31.88mm)

Distribution	Dim "A"
FL35	ø 6.75" (171.5mm)

For installation hints, see page 6

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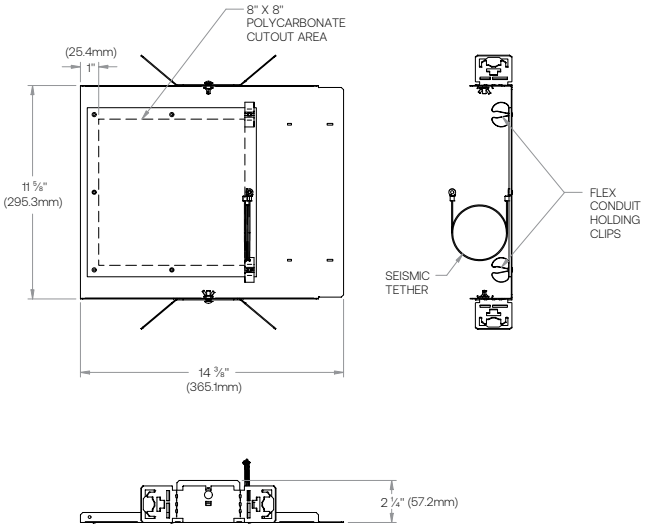
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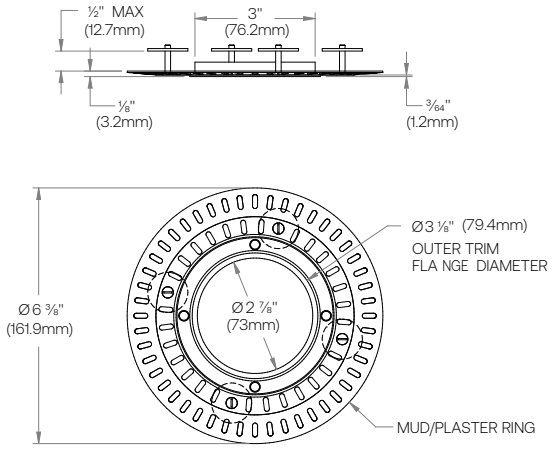
DATE:	LOCATION:
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CATALOG #:	

DIMENSIONS (CONTINUED)

Accessories



D2FRM



FMR2

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PHOTOMETRY

A2LED-2A9LED12L35K9FL35

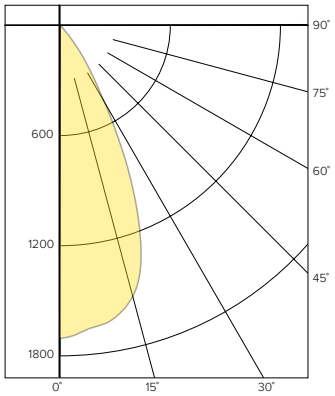
LUMINAIRE DATA

Test No.	**26.00329**
Description	**1200 L, FL35, 3500K, 90 CRI**
Delivered Lumens	**1169**
Watts	**14.4W**
Efficacy	**81.3**
Mounting	**Recessed**
Spacing Criterion	**0.76**
Beam Angle	**51**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1141	97.6
0–60	1168	99.9
0–90	1169	100.0
0–180	1169	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	1707
5	1666
15	1531
25	896
35	247
45	22
55	4
65	1
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	10886
55°	2440
65°	828
75°	0
85°	0

***Candela/Square Meter**

LUMEN MULTIPLIER

Option	27K9	30K9	35K9	40K9	50K9
Multiplier	0.95	0.99	1.00	1.00	1.00

Photometrics are published at a nominal 3500 Kelvin, 90+ CRI. This table may be used to approximate the lumen values at different Kelvin temperatures. Power consumption would stay the same.

REFLECTOR FINISH MULTIPLIER (Based on Clear (Standard) Color)

Option	Specular (S)	Semi-Specular (SS)	American Matte (MFC)	Softglow (VS)	Softsheen (VSS)
Multiplier	1	1	0.984	0.888	0.938

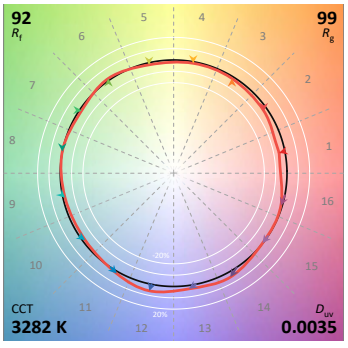
REFLECTOR COLOR MULTIPLIERS (Available in Semi-Specular (SS) Finish only)

Option	Clear (Standard)	Light Wheat (LW)	Pewter (PW)	White Cone (WC)	Black Cone (BC)
Multiplier	1	0.861	0.915	0.984	0.442

Multiply CCT x FINISH x COLOR to calculate combinations. Example: 27K9 with Semi-Specular Pewter = 0.95 (27K9) x 0.915 (SSPW) = 0.869

TM-30 DATA

COLOR VECTOR GRAPHIC
3500K, 90 CRI



Reference Illuminant — Test Source

TEST RESULTS - 3500K	
Value	90+ CRI
R_f	92
R_g	99
CCT (K)	3282
D_{UV}	0.0035
x	0.4224
y	0.4069
CIE R_a	93
CIE R_9	60

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ELECTRICAL DATA

DRIVER DATA	
Input Voltage	120–277V
Input Frequency	50/60 Hz
Power Factor	≥0.90
THD	<20%
EMI Filtering (FCC 47 CFR Part 15)	Class A

*Data for standard 0–10V, 1% dimming models. Electrical and photometric data may vary slightly with other dimming options
**Short circuit, over-voltage, over-current protection

INSTALLATION HINTS

Daisy Chain:

Often times through branch wiring (Daisy Chaining) will be desired for installation of the A2LED in an application. There is one knock out available in the J-tube for the line voltage, and one for the low voltage control wires. To accomplish 2in/2out through branch wiring. Prescolite suggests the use of an Arlington Duplex Connector (PN 4040AST)

Ceiling Cut-out:

Due to the discrete trim flange on the A2LED, the accuracy of the 2-⅞" ceiling cut-out is critical to achieving the best results. Prescolite recommends making this cut-out with a 2-⅞" hole saw, such as one manufactured by the Morse Company (TAC46 and TACPD4)

Ceiling Clearance:

When no top access is available to the J-Tube, 8" of plenum clearance is recommended for the standard and sdriver/J-Tube options

ADDITIONAL INFORMATION

Central Inverters

For full fixture output in back-up mode, we recommend you visit the dual-lite website for your Central Lighting Inverter options.
Please contact your local Current representative for any assistance with proper sizing and loading of your inverter selection.
Central lighting inverters must be ordered separately

Dimming Compatibility

For more details and recommended dimmer list, see Dimming Compatibility Information at www.currentlighting.com/prescolite

Additional Notes

*Note: Ceiling thickness maximum when using D2FRM is 1".
Bar hangers not included, order B6 for ceiling joists up to 24" centers or B24 for T-bar ceilings

*Note: The standard product is designed and listed to be installed into most ceiling types without the use of an accessory frame.
These frames are provided as an optional accessory to be used when desired by the end user to provide extra support or required by local code

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