prescolite

AB2LED

2" LED ADJUSTABLE AIM FROM BELOW
120/277V

DATE: | LOCATION:

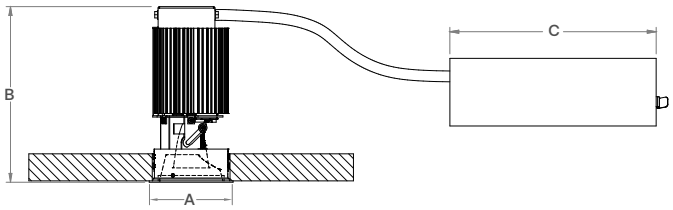
TYPE: | PROJECT:

CATALOG #:

FEATURES

- 2" architectural adjustable aim-from-below LED luminaire delivering 700, 900, or 1200 lm
- Available in 2700K, 3000K, 3500K, and 4000K
- Aim-from-below capability with 361° horizontal rotation and 35° vertical tilt
- Field-interchangeable upper reflector optics in 25°, 35°, and 45° beam distributions
- Open, pinhole, or slot lower trim styles
- Accessory holder accepts up to two lens/media accessories
- Standard 0–10V dimming with optional dimming below 1%





Typical Dimensions and Weights						
J-Tube	Options	Aperture Inches (mm)	"A" Diameter Inches (mm)	"B" Height Inches (mm)	"C" Length Inches (mm)	Weight Lbs (kg)
Standard	12L, 80 CRI	Ø 2.25" (57.2mm)	Ø 3.125" (79.4mm)	6.125" (155.6mm)	6.125" (155.6mm)	2.5 (1.1)
	9L, 95 CRI					
	All Others				7.75" (196.9mm)	
DM01	All				10" (254mm)	

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
- Aim-from-below mechanical design allows adjustments from room side
- Accessory holder available for lens/media accessories

OPTICS

- High-purity spun aluminum reflector with anodized and painted finish options
- Aim-from-below optical adjustment
- 361° horizontal rotation and 35° vertical tilt
- Field-interchangeable upper reflector optics 25°, 35°, or 45° optical distribution
- Lower trim styles include open, pinhole and slot
- Accessory holder accommodates up to two media

ELECTRICAL

- 2700K, 3000K, 3500K, and 4000K CCTs
- 80+ or 95+ CRI options
- Long LED life: L70 / >50,000 hours (TM-21)
- Universal voltage 120–277V driver
- UL Class 2, inherent short circuit and overload protection
- 0–10V dimming to 10% or <1%

INSTALLATION

- Aim-from-below mechanism enables room-side aiming adjustment
- J-Tube assembly can be accessed from below the ceiling plane
- Accommodates ceiling thickness from 0.50" to 1"
- Through-branch wiring supported with appropriate connector
- Optional mounting frame and flush mount ring accessories available

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	13.8–23.6
Efficacy Range (LPW)	41–55
Reported Life (Hours)	L70 / >50,000
Input Current (mA)	116–190

*Based on Specular, 30K, 80+ CRI

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ORDERING GUIDE

Example: AB2LED-2AB9LED9L30K8MD25PHWCWT

CATALOG # | AB2LED | | | –

J-TUBE ASSEMBLY

J-Tube Assembly		Voltage	Options	
AB2LED	J-Tube Assembly with Standard 0–10V, 10% Dimming	*Standard 120/277V*	*Standard 0–10V, 10% Dimming*	
			DM01	eldoLED 0–10V Dimming to less than 1%

LIGHT ENGINE ASSEMBLY

2AB9LED

Light Engine		Lumen Output		CCT		CRI		Distribution		Trim Style	
2AB9LED	2" Open Reflector/ Light Engine Assembly with Xicato module	7L	700 Lumens [1]	27K	2700K	8	80+ CRI [2]	MD25	Nominal 25° cutoff	*Standard Angle Cut*	
		9L	900 Lumens	30K	3000K	9	95+ CRI [3]	FL35	Nominal 35° cutoff	PH	Pinhole [4]
		12L	1200 Lumens	35K	3500K			WFL45	Nominal 45° cutoff	SLT	Slot [4]
				40K	4000K						

LIGHT ENGINE ASSEMBLY (CONTINUED)

| | | | | | | –

Lower Reflector Finish [5]		Lower Reflector Color		Flange Options [7]	
Standard Specular		*Standard Clear*		*Standard Clear Anodized*	
SS	Semi-Specular	LW	Light Wheat [6]	WT	White Trim Flange
MFC	American Matte	PW	Pewter [6]	BT	Flat Black Trim Flange
VS	Softglow	BC	Painted Flat Black Cone	CT	Clear Trim Flange
VSS	SoftSheen	WC	Painted White Cone		

Accessories	
☐ FMR2	2" Flush Mount Ring
☐ AB2AH	AB2 Accessory Holder [8]
☐ AML 11	Amber Filter
☐ BLL 11	Blue Filter
☐ GRL 11	Green Filter
☐ H11BL	Hexcell Louver Black
☐ LL11	Linear Spread Lens
☐ PL11	Prismatic Diffusion Lens
☐ D2FRM	Mounting Frame
☐ LiteGear	Inverter, single phase central lighting, 125VA–250VA [9]
☐ LPS Series	LitePower micro-inverter, 20VA–55VA [9]

Notes:

1 Not available for Standard 0–10V 10% Dimming
2 Not available for Standard 0–10V 10% Dimming with 9L
3 Not available for 12L
4 Pinhole and Slot options are available with painted colors only. Specify WC or BC for insert color with WT or BT for flange color
5 Upper reflector is always Specular
6 Only available with SS finish
7 For all reflector colors, except Clear, flange color must be specified; either WT, BT, or CT
8 AB2AH is required for all media. Accepts up to two media, 0.25" max total thickness. Not compatible with WFL45
9 See Central Inverter compatibility note and web links on page 8

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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	Distribution	Delivered Lumens	Watts	LPW
07L	700	25°	568	13.8	41
		35°	719	13.8	52
		45°	720	13.8	52
09L	900	25°	734	17.8	41
		35°	929	17.8	52
		45°	931	17.8	52
12L	1200	25°	979	22.3	44
		35°	1238	22.3	56
		45°	1241	22.4	55

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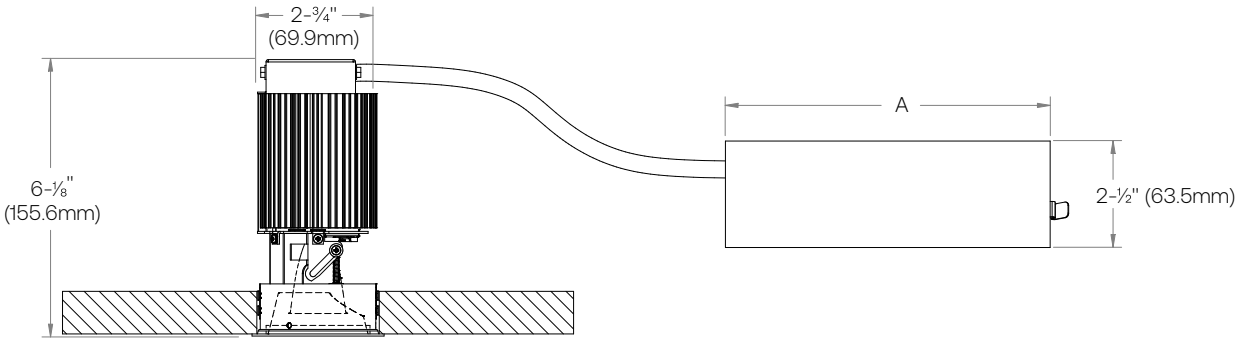
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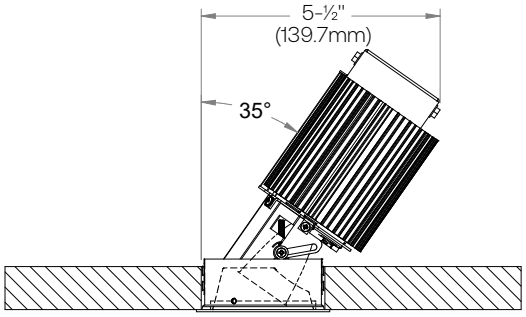
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DIMENSIONS





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

J-Tube	Options	"A" Length Inches (mm)
Standard	12L, 80 CRI	6.125" (155.6mm)
	9L, 95 CRI	
	All others	7.75" (196.9mm)
DM01	All	10" (254mm)

For installation hints, see page 8

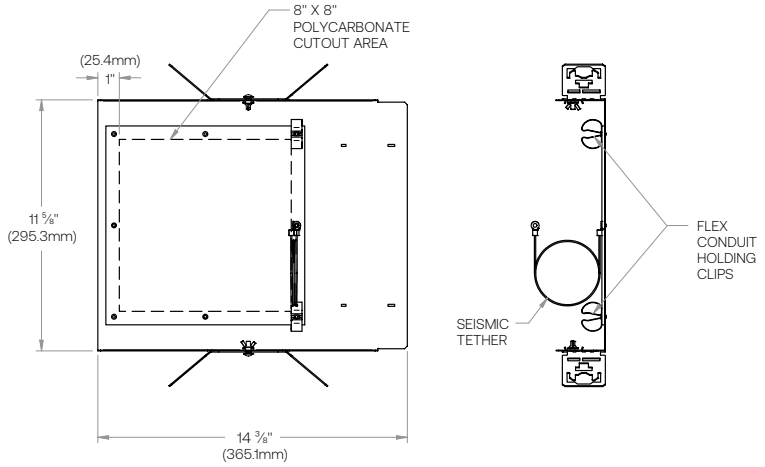
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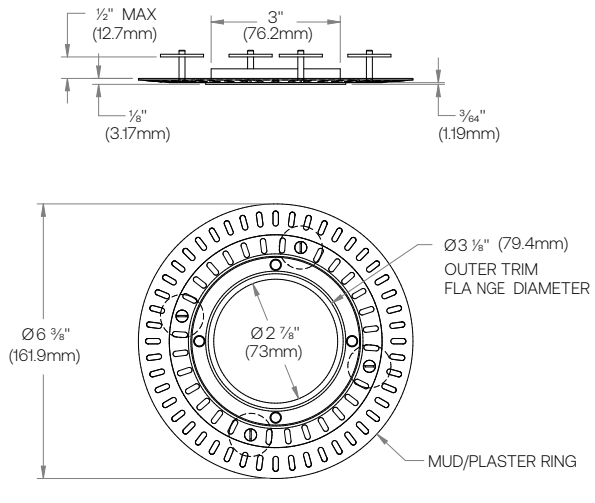
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DIMENSIONS (CONTINUED)

Accessories



D2FRM



FMR2

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2" LED ADJUSTABLE AIM FROM BELOW
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DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

PHOTOMETRY

AB2LED-2AB9LED12L30K8MD25

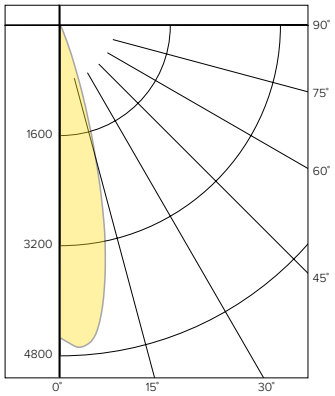
LUMINAIRE DATA

Test No.	**17.02848**
Description	**1200 L, MD25, 3000K, 80 CRI**
Delivered Lumens	**979**
Watts	**22.3W**
Efficacy	**43.9**
Mounting	**Recessed**
Spacing Criterion	**0.50**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	979	100.0
0–60	979	100.0
0–90	979	100.0
0–180	979	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	4536
5	4636
15	1925
25	21
35	1
45	0
55	0
65	0
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	0
55°	0
65°	0
75°	0
85°	0

***Candela/Square Meter**

AB2LED-2AB9LED12L30K8FL35

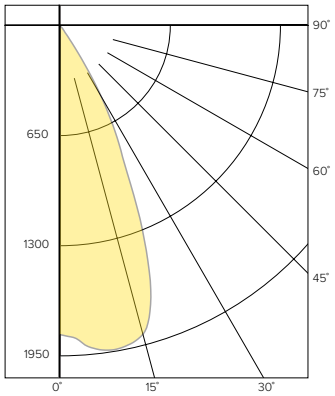
LUMINAIRE DATA

Test No.	**17.02619**
Description	**1200 L, FL35, 3000K, 80 CRI**
Delivered Lumens	**1238**
Watts	**22.3W**
Efficacy	**55.5**
Mounting	**Recessed**
Spacing Criterion	**0.86**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1230	99.4
0–60	1237	100.0
0–90	1238	100.0
0–180	1238	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	1825
5	1902
15	1889
25	905
35	102
45	5
55	1
65	0
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	2474
55°	610
65°	0
75°	0
85°	0

***Candela/Square Meter**

AB2LED-2AB9LED12L30K8WFL45

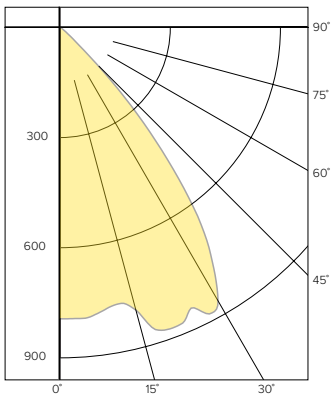
LUMINAIRE DATA

Test No.	**17.02886**
Description	**1200 L, WFL45, 3000K, 80 CRI**
Delivered Lumens	**1241**
Watts	**22.4**
Efficacy	**55.4**
Mounting	**Recessed**
Spacing Criterion	**1.38**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1121	90.4
0–60	1240	100.0
0–90	1241	100.0
0–180	1241	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	796
5	797
15	799
25	846
35	686
45	116
55	2
65	1
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	51801
55°	1101
65°	747
75°	0
85°	0

***Candela/Square Meter**

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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

ELECTRICAL DATA

DRIVER DATA					
	7L		**9L**		**12L**
	80+ CRI	**95 CRI**	**80+ CRI**	**95 CRI**	**80+ CRI**
Input Voltage	120 or 277V	120 or 277V	120 or 277V	120 or 277V	120 or 277V
Input Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Input Power (Watts)	13.8 W	19.1 W	17.8 W	23.6 W	22.4 W
Input Current (@120V)	0.116 A	0.160 A	0.150 A	0.190 A	0.189 A
Input Current (@277V)	0.050 A	0.069 A	0.065 A	0.086 A	0.081 A
Constant Current Output	350 mA	500 mA	470 mA	630 mA	670 mA
Power Factor	≥0.90	≥0.90	≥0.90	≥0.90	≥0.90
EMI Filtering (FCC 47CFR, Part 15)	Class B	Class B	Class B	Class B	Class B

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

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INSTALLATION HINTS

Daisy Chain:

Often times through branch wiring (Daisy Chaining) will be desired for installation of the AB2LED 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 AB2LED, 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 driver/J-Tube options. For DM01 option, 10–½" plenum clearance is recommended.

ADDITIONAL INFORMATION

Central Inverters

For full fixture output in back-up mode, we recommend you visit currentlighting.com/dual-lite 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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