4CR LED
4" Cylinder – Round

Williams

12-13/16″

ø2-1/2″
ø4-1/4″

CATALOG #: _____

TYPE: _____

PROJECT: _____

BAA & BABA COMPLIANT · Low UGR · TwistLock™

ORDERING EXAMPLE: 4CR ‑ 13 ‑ L20/835 ‑ OPTIONS ‑ WHT ‑ CONTROL/DIM ‑ UNV ‑ OW ‑ CS ‑ TRIM OPTIONS ‑ CM

—————————— HOUSING —————————— —— TRIM —— MOUNT.

HOUSING

SERIES	HEIGHT	LUMENS [1]		CRI		CCT		OPTIONS		HOUSING FINISH [2]	
4CR	13 13″	L5	500lm	8	80	27	2700K	EM/10WRM/RTS	Remote mount 10-watt emergency battery with regressed test switch [3]	ALUM	Silver sparkle aluminum
		L7	700lm	9	90	30	3000K			BLK	Textured black
		L9	900lm			35	3500K	RDB	Remote mount control/driver box, galvanized steel [4]	BRZ	Textured bronze
		L12	1,200lm			40	4000K			NKL	Textured nickel
		L15	1,500lm			50	5000K			SLV	Textured silver
		L20	2,000lm							WHT	Textured white
		L25	2,500lm								

CONTROL

See page 3 for ADDITIONAL CONTROL/ DRIVER OPTIONS.

– None
AVI-LVFA Avi-on wireless fixture control [5]
AWNR Lutron Athena wireless node integral fixture control, RF only [6]

DRIVER

See page 3 for ADDITIONAL CONTROL/DRIVER OPTIONS.

DIM Dimming driver, 0-10V
DIM1 1% Dimming driver, 0-10V
DA Driver with 12V auxiliary power, without external dimming wires [7]

VOLTAGE

UNV 120-277V
347 347V [8]

TRIM

TRIM TYPE

O Open reflector
F Open reflector with frosted top diffuser
L Flush lens
R Regressed lens

DISTRIBUTION

See page 2 for BEAM ANGLE.

W Wide
M Medium
N Narrow [10]
S Narrow spot [11]

REFLECTOR FINISH [9]

Open Trim Types
CS Clear semi-specular anodize
SG Satin-glow anodize
GD Gold anodize
CG Champagne gold anodize
PW Pewter anodize
SPC Clear specular anodize
RG Rose gold anodize
WH White texture powder coat
BL Black texture powder coat

Lens Trim Types
CS Clear semi-specular powder coat
WH White texture powder coat
BL Black texture powder coat
BZ Bronze texture powder coat
NK Nickel texture powder coat
SV Silver texture powder coat
AL Silver sparkle aluminum

TRIM OPTIONS

AD Diffuse acrylic lens [12]
PD Diffuse 1/8″ polycarbonate lens [13]

MOUNTING

MOUNTING TYPE [14]

CM__ Adjustable aircraft cable mount, 24″, 48″, 96″, or 144″ only, must specify. Example: 24″ cable = **CM24** [15]
PM__ Pendant mount. Example: 24″ pendant = **PM24** [16]
PC__ Power cord mount. Example: 24″ cord = **PC24** [17]
SM TwistLock surface mount to octagonal J-box
WM Wall mount

NOTES

1. Lumen output based on O Trim Type, W Distribution and CS Reflector Finish, 80 CRI/3500K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
2. See page 4 for HOUSING FINISH DETAILS.
3. Max remote distance 50′, including suspension length. Large remote box provided. Specify CEC in the option code when California Energy Commission regulations are required. See page 3 for EMERGENCY BATTERY DETAILS.
4. Painted driver box available, specify RDB/BLK or RDB/WHT.
5. DA Driver only. See page 5 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
6. DA Driver only. PM and SM Mounting Types installed in remote box, must specify RDB Option.
7. Avi-on and Lutron Athena Controls only.
8. Not available with EM batteries, DA, or DMX drivers.
9. See page 4 for REFLECTOR FINISH DETAILS.
10. Not available with L25 lumen package when specified with L or R Trim Types.
11. Not available with L20 or L25 lumen packages or 950 CRI/CCT.
12. Not available with O or F Trim Types. W Distribution only.
13. Not available with O or F Trim Types. W Distribution only.
14. See page 4 for MOUNTING DETAILS.
15. Canopy painted white unless specified otherwise. Must specify cord. See page 4 for CORD OPTIONS.
16. Specify length in 1″ increments, minimum 6″. Canopy and pendant match fixture housing color unless specified otherwise.
17. 48″ and 96″ lengths available. Canopy painted white unless specified otherwise. Must specify cord. See page 4 for CORD OPTIONS.

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Cylinders
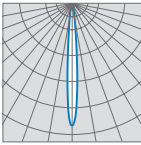Page 1 of 5

4CR LED
4" Cylinder – Round

FEATURES

- Slim profile for unobtrusive illumination
- Parallel the performance and style of the Williams downlight collection
- Precision illumination with 8° narrow spot to 70° wide optics
- Complement the architectural elements of any space with a multitude of housing, trim and cord finishes
- Limitless application opportunities via pendant, cable, power cord, wall and ceiling mounts
- Ensure a simple and secure installation with TwistLock™ surface mount technology
- Low UGR meets LEED and WELL requirements
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING – Extruded aluminum with die-cast aluminum accent ring.
- FINISH – Polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- OPEN REFLECTOR – Low-iridescent anodized aluminum. Clear semi-specular finish standard.
- LENSED TRIM – Die-cast aluminum frame with micro-prismatic, acrylic lens.
- ELECTRICAL – High-performance Class 2 C.O.B. LED array. Modular quick-connect plug for easy field-connection of LED light assembly to driver. Reported L70>55,000 hours. Reported L90 = 49,000 hours. Estimated L70 = 179,000 hours.
- MOUNTING – Surface, cable, pendant, power cord or wall mount. Indoor applications only. Max weight 5 lbs.
- LISTINGS –
  - cCSAus conforms to UL STD 1598 and UL STD 8750. Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for dry and damp locations.
  - Build America, Buy America (BABA) and Buy American Act (BAA) compliant. Request certification at hew.com/buy-american
- WARRANTY – 5-year limited warranty, see hew.com/warranty

FIXTURE PERFORMANCE DATA

DISTRIBUTION		WATTAGE	OPEN REFLECTOR		FLUSH LENS		REGRESSED LENS	
			DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)
L5	W	6.7	516	77	540	81	535	80
	M	6.7	499	74	532	79	509	76
	N	6.7	407	61	528	79	515	77
	S	7.8	451	58	624	80	602	77
L7	W	8.7	725	83	759	87	751	86
	M	8.7	700	80	748	86	715	82
	N	8.7	572	66	742	85	723	83
	S	11.2	630	56	871	78	840	75
L9	W	10.7	929	87	973	91	963	90
	M	10.7	898	84	958	90	917	86
	N	10.7	799	75	950	89	927	87
	S	14.1	807	57	1115	79	1075	76
L12	W	14.3	1267	89	1327	93	1313	92
	M	14.3	1224	86	1307	91	1250	87
	N	14.3	1000	70	1296	91	1264	88
	S	20.4	1071	53	1480	73	1427	70
L15	W	17.7	1571	89	1645	93	1628	92
	M	17.7	1518	86	1620	92	1550	88
	N	17.7	1240	70	1607	91	1567	89
	S	26.7	1326	50	1832	69	1767	66
L20	W	23.9	2063	86	2160	90	2138	89
	M	23.9	1993	83	2127	89	2035	85
	N	23.9	1629	68	2110	88	2058	86
	S	–	–	–	–	–	–	–
L25	W	30.1	2479	82	2596	86	2569	85
	M	30.1	2395	80	2556	85	2446	81
	N	30.1	1957	65	–	–	–	–
	S	–	–	–	–	–	–	–

MULTIPLIER TABLES

COLOR TEMPERATURE

	CCT	CONVERSION FACTOR
80 CRI	2700K	0.92
	3000K	0.98
	3500K	1.00
	4000K	1.01
	5000K	1.02

	CCT	CONVERSION FACTOR
90 CRI	2700K	0.76
	3000K	0.79
	3500K	0.82
	4000K	0.84
	5000K	0.88

TRIM OPTIONS

CATALOG NUMBER	CONVERSION FACTOR
F	0.67
AD	0.85
PD	0.85

REFLECTOR FINISH

	CATALOG NUMBER	CONVERSION FACTOR
O TRIM	CS	1.00
	SG [1]	0.92
	GD	0.93
	CG	0.96
	PW	0.86
	SPC	1.02
	RG	0.88
	WH [1]	0.89
	BL [1]	0.47

	CATALOG NUMBER	CONVERSION FACTOR
R TRIM	WH	1.00
	CS [1]	0.98
	BL [1]	0.79
	BZ [1]	0.76
	NK [1]	0.81
	SV [1]	0.81
	AL [1]	0.86

1 Distribution will also be affected, consult factory.
2 Beam angle based on CS Reflector Finish.

BEAM ANGLE

TRIM TYPE [2]				
	O	F	L	R
W	70°	Consult Factory	50°	55°
M	40°		30°	30°
N	15°		20°	20°
S	8°		14°	14°

- Photometrics tested in accordance with IESNA LM-79. Results based on CS (O Trim Type) or WH (L and R Trim Types) Reflector Finish, W Distribution, 80 CRI/3500K CCT, average wattage for 120V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier tables to calculate additional options.

PHOTOMETRY

4CR-13-L25/835-DIM-UNV-OW-CS Total Luminaire Output: 2479 lumens; 30.1 Watts | Efficacy: 82.3 lm/W | 80 CRI; 3500K CCT
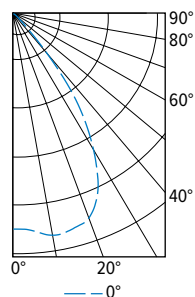
VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
0	2011	
5	2033	148
15	2087	341
25	1859	429
35	1089	271
45	150	39
55	35	12
65	12	4
75	2	1
85	0	0
90	0	

ZONE	LUMENS	% FIXTURE
0 - 40	2281	92
0 - 60	2464	99
0 - 90	2479	100
0-180	2479	100

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Cylinders
Page 2 of 5

4CR LED
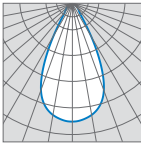## 4" Cylinder – Round

OPEN (O)
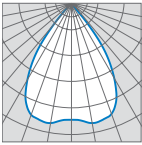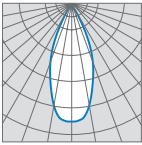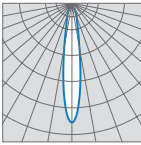
| 70° Wide | 40° Medium | 15° Narrow | 8° Spot |

FLUSH (L)
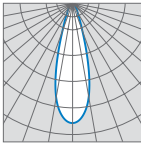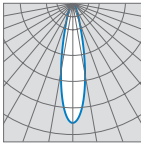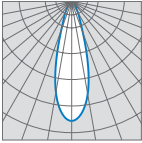
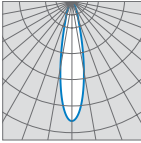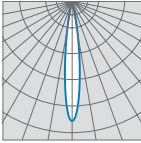| 50° Wide | 30° Medium | 20° Narrow | 14° Spot |
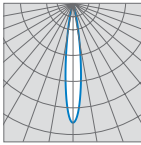
REGRESSED (R)
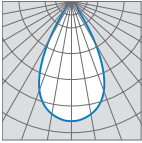
| 55° Wide | 30° Medium | 20° Narrow | 14° Spot |

ADDITIONAL CONTROL/DRIVER OPTIONS

Lumen restrictions apply: L9 min for DIM LINE driver.

CONTROL/ DRIVER	DESCRIPTION	RDB DETAILS BY LUMEN STOP							
		L5	L7	L9	L12	L15	L20	L25	w/EM
DIM	Dimming driver prewired for 0-10V low voltage applications	O I S	O I S	O I S	O I S	O I S	O I S	O I S	R I L
DIM1	1% dimming driver prewired for 0-10V low voltage applications	O I S	O I S	O I S	O I S	O I S	O I S	O I S	R I L
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible at 120V only)	—	—	O I S	O I S	O I S	O I S	O I S	R I L
DMX	0.1% dimming driver for DMX controls	R I M	R I M	R I M	R I M	R I M	R I M	R I M	R I L
DALI	DALI dimming driver	R I M	R I M	R I M	R I M	R I M	R I M	R I M	R I L
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver	R I M	R I M	R I M	R I M	R I M	R I M	R I M	R I L
AVI-LVFA/DA	Avi-on wireless fixture control for use with driver with 12V auxiliary power	O I S	O I S	O I S	O I S	O I S	O I S	O I S	R I L
AWNR/DA [1]	Lutron Athena wireless node integral fixture control, RF only, for use with driver with 12V auxiliary power	O I S	O I S	O I S	O I S	O I S	O I S	O I S	R I L

[1] RDB Option required when specified with SM Mounting Type, size follows table above.

REMOTE MOUNT DETAILS

Max remote distance is 50' including suspension length, connection by others. Must be room-side accessible for maintenance.
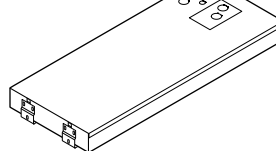

Hex box (by others)

Small remote box shown

Power to fixture
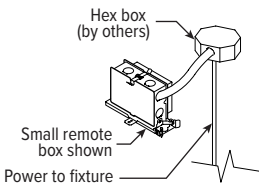
SMALL
Snap-in junction box
6-1/2" x 3" x 4-1/2"
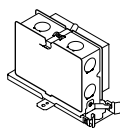
MEDIUM
3-1/2" x 24" x 2"
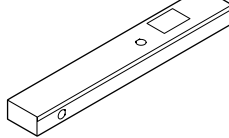
LARGE
9" x 24" x 2"

REMOTE MOUNT KEY

O I S	RDB Optional, Small Box
R I M	RDB Required, Medium Box
R I L	RDB Required, Large Box

EMERGENCY BATTERY DETAILS

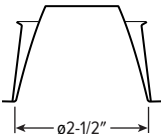Max remote distance is 50' including suspension length, connection by others.
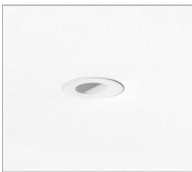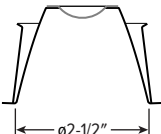

Regressed test switch
ø1-3/4"

Large remote box
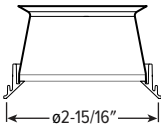9" x 24" x 2"

Hex box (by others)

Regressed test switch

Power to fixture

TRIM TYPE DETAILS

OPEN
ø2-1/2"

OPEN TOP DIFFUSER
ø2-1/2"

FLUSH
ø2-15/16"

REGRESSED
ø2-15/16"
3/4"

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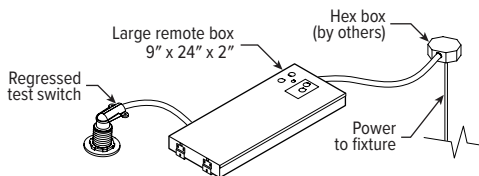
Cylinders
Page 3 of 5
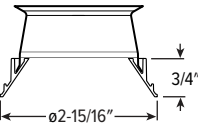
4CR LED
4" Cylinder – Round

HOUSING FINISH DETAILS

WHITE	BLACK	BRONZE	NICKEL	SILVER	ALUM
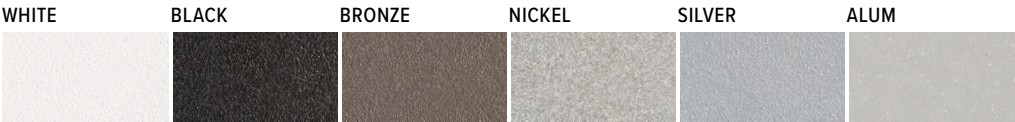
For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1″ square.

REFLECTOR FINISH DETAILS

Smooth Finish

SPC	SG	PW	GD	CG	RG	CS	AL

Textured Finish

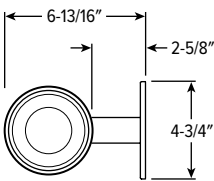| WH	BL	BZ	NK	SV
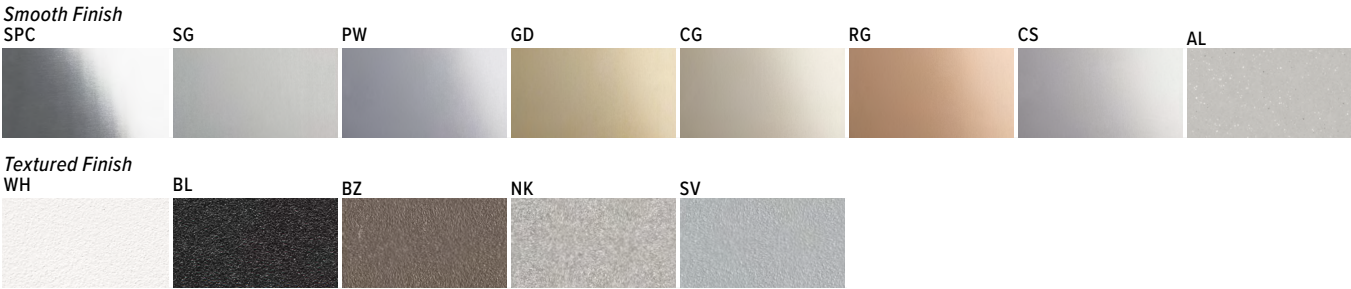
MOUNTING DETAILS

PENDANT MOUNT (PM__)

Provided with:
- 38° Swivel canopy
- 3/8″ IPS Threaded stem
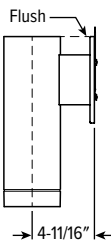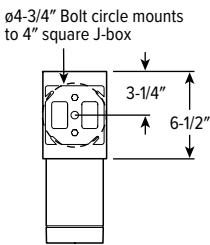- Specify length of stem, 6″ minimum, 24″ default length

WALL MOUNT (WM)

TOP VIEW
6-13/16″
2-5/8″
4-3/4″

SIDE VIEW
Flush
4-11/16″

BACK VIEW
ø4-3/4″ Bolt circle mounts to 4″ square J-box
3-1/4″
6-1/2″

SURFACE MOUNT (SM)

TwistLock™

Simple lift-and-twist mounting secures fixture to J-box.

CABLE MOUNT (CM__)

Provided with:
- Adjustable length aircraft cable, must specify length in 24″, 48″, 96″, or 144″ inches.
- 18-gauge cord, see Cord Options for ordering info.
- One 5″ canopy
- T-bar clip with 1/4-20 stud
- Hard ceiling anchor provided by others

POWER CORD MOUNT (PC)

Provided with:
- 18-gauge cord, see Cord Options for ordering info.
- One 5″ canopy
- Power cord mounting adaptor

CORD OPTIONS

Must specify cord when cable and power cord mounting.

ORDERING EXAMPLE: S2438/W				
CORD TYPE	**LENGTH**	**# CONDUCTORS**	**WIRE SIZE**	**COLOR**
S Straight	**24** 24″ **48** 48″ **96** 96″	**3** 3 **4** 4 **5** 5 **6** 6	**8** 18-gauge	**Standard** /W White /B Black **Braided** [1] /WH White /BL Black /BR Brass /AE Aegean Blue /RE Red /SV Silver /GU Gunmetal /NK Nickel /GR Gray

COLOR DETAILS
Additional colors may be available, consult factory.

White	Black	Brass	Aegean Blue	Red

Silver	Gunmetal	Nickel	Gray

[1] (5) conductors cord only.

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Cylinders
Page 4 of 5

4CR LED
4" Cylinder – Round

AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

FEATURES

Simple

- Gateway-free distributed control
- Contractor friendly installation
- Occupancy/vacancy/daylight sensing

Scalable

- Virtually unlimited network size
- Spans small offices to large warehouses
- Flexible control strategies

Secure

- Optional cloud connectivity
- UL IoT platinum security rating
- DLC 5.0 compliant

COMMISSIONING & INSTALLATION TOOLS

Avi-on mobile apps provide intuitive, quick installation and commissioning. Pro tools are available to qualified installers. Live commissioning training and on-site or remote support by Avi-on must be ordered separately through Avi-on.
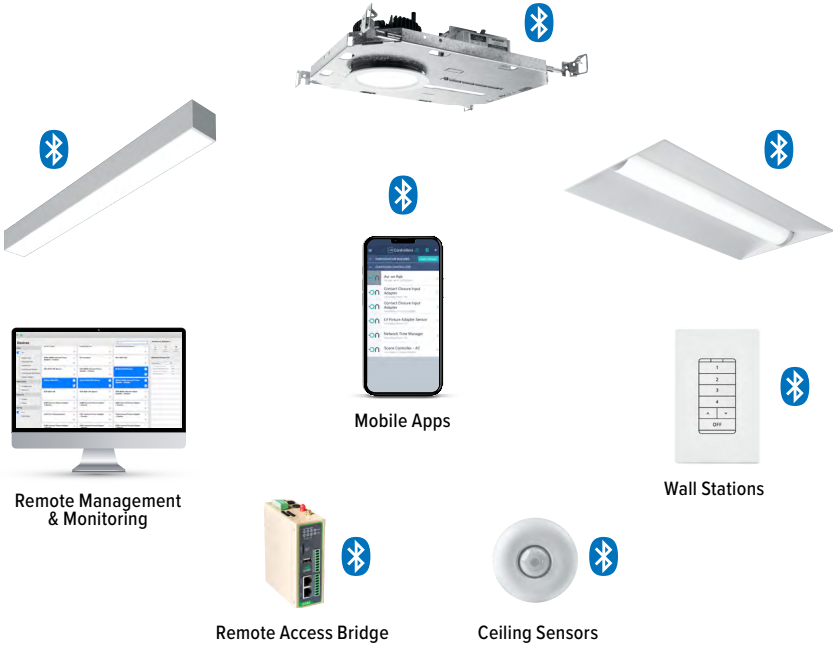
Commissioning Mobile App

Zone Scanner Web App

Commissioning Pro App

SYSTEM COMPONENTS

Mobile Apps

Remote Management & Monitoring

Wall Stations

Remote Access Bridge

Ceiling Sensors

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ACCESSORIES

WALL STATIONS	
AVI-B-2401AC-1	Scene controller - buttons numbered 1-4 and up/down/off, 120-277VAC
AVI-B-2402BAT-1	Scene controller - buttons numbered 1-4 and up/down/off, battery powered
AVI-B-2401AC-2	Dimmer with presets - buttons with percentages and up/down/off, 120-277VAC
AVI-B-2402BAT-2	Dimmer with presets - buttons with percentages and up/down/off, battery powered
AVI-B-2401AC-3	Two button control on/off or hold to dim up/down, 120-277VAC
AVI-B-2402BAT-3	Two button control on/off or hold to dim up/down, battery powered

NETWORK	
AVI-RAB-LTE	Remote access bridge
AVI-NTM	Network time manager with battery backup

CEILING MOUNT SENSORS	
AVI-KIT-SEN-DUCM	PIR motion and ultrasonic sensor kit
AVI-KIT-SEN-ICM	PIR motion and photocell sensor kit

For load controllers and additional accessory info, see hew.com/avi-on

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REV.01/10/25.JL

Cylinders
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