8CRDI tunable WHITE
8″ Compact Direct/Indirect Cylinder – Round

Williams

ø4-1/2″ ø6″

19-5/8″

ø6″
ø8″

Cable Mount   Wall Mount

CATALOG #: _____

TYPE: _____

PROJECT: _____

BAA & BABA COMPLIANT   TrimLock

ORDERING EXAMPLE: 8CRDI - TL - 20 - L23/8TWU/L23/8TWD - RDB - OPTIONS - WHT - CONTROL/DIM - UNV - LW/LM - CS - TRIM OPTIONS - CM

— HOUSING —   — TRIM —   MOUNT.

HOUSING

SERIES	HEIGHT	LUMEN PACKAGE (Example: L23/8TWU/L13/8TWD)			REMOTE	OPTIONS
8CRDI - TL TrimLock	**20** 20″	Specify lumen packages: **U** for Up and **D** for Down			**RDB** Remote mount control/driver box, galvanized steel [1]	**EM/10WRM/RTS** Remote mount 10-watt emergency battery with regressed test switch [2]

LUMENS [3]

L13	1,300lm
L23	2,300lm
L42	4,200lm

COLOR

8TW Tunable white (80 CRI, 2700K-5000K)

U OR D

U Uplight
D Downlight

F Fuse

HOUSING FINISH

ALUM	Silver sparkle aluminum
BLK	Textured black
BRZ	Textured bronze
NKL	Textured nickel
SLV	Textured silver
WHT	Textured white

CONTROL

See page 4 for CONTROL/DRIVER DETAILS.

– None
AWNR Lutron Athena wireless node integral fixture control, RF only [4]

DRIVER

See page 4 for CONTROL/DRIVER DETAILS.

DALI	Driver prewired for DALI applications
DIM	Dimming driver with (1) 0-10V signal to control dimming and (1) 0-10V signal to control CCT
DMX	Driver prewired for DMX applications
LD2	Lutron DALI-2 digital driver, 1%

VOLTAGE

UNV 120-277V

TRIM

TRIM TYPE AND DISTRIBUTION

(Example Uplight/Downlight: **LW/LM**)

TRIM TYPE

Uplight
O Open reflector with clear glass shield [8]
L Flush lens [9]

Downlight
O Open reflector
F Open reflector with frosted top diffuser [10]
L Flush lens
R Regressed lens

DISTRIBUTION

See page 2 for BEAM ANGLE.

Uplight
W Wide
M Medium [11]
N Narrow [12]

Downlight
W Wide
M Medium [13]
N Narrow [14]

REFLECTOR FINISH [5]

Downlight 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

Downlight 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 [6]
PD Diffuse 1/8″ polycarbonate lens [7]

MOUNTING

MOUNTING TYPE [15]

CM__ Adjustable aircraft cable mount, 24″, 48″, 96″, or 144″ only, must specify. Example: 24″ cable = **CM24** [16]
WM Wall mount

NOTES

1. Painted driver box available, specify RDB/BLK or RDB/WHT.
2. Max remote distance 50′, including suspension length. Large remote box provided. EM light defaults to downlight output. Specify CEC in option code when California Energy Commission regulations are required. See page 4 for EMERGENCY BATTERY DETAILS.
3. Lumen output based on O Trim Type, W Distribution and CS Reflector Finish, 80 CRI/4000K CCT. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
4. LD2 Driver only. SM Mounting Type installed in remote box, must specify RDB Option.
5. Specified for Downlight Trim Type only. See page 5 for REFLECTOR FINISH DETAILS.
6. Not available with O or F Trim Types. Downlight only. W Distribution only.
7. Not available with O or F Trim Types. Downlight only. W Distribution only.
8. CS Reflector Finish standard. Other colors available, consult factory.
9. Not available with WM Mounting Type. Trim finish matches Housing Finish. Other colors available, consult factory.
10. Not available with L42 lumen package.
11. O Trim Type only.
12. O Trim Type only.
13. Not available with L42 lumen package when specified with L or R Trim Types.
14. Not available with L42 lumen package when specified with L or R Trim Types.
15. See page 5 for MOUNTING DETAILS.
16. Uplight not available with L42 lumen package. Canopy painted white unless specified otherwise. Must specify cord. See page 5 for CORD OPTIONS.

H.E. Williams, Inc. • Carthage, Missouri • www.hew.com • 417-358-4065 • Designed and Manufactured in the USA
Information contained herein is subject to change without notice.   REV.01/10/25.JL

Cylinders
Page 1 of 5

8CRDI tunable WHITE
8″ Compact Direct/Indirect Cylinder – Round

FEATURES

- Support human-centric design with adaptive, individualized lighting using tunable white light
- Engineered to deliver great performance in a sleek, space-saving design
- Smoothly accent walls and eliminate dark ceilings with direct and indirect lighting
- Parallel the performance and style of the Williams downlight collection
- Superior optical control with beams as narrow as 10° and field changeable optics as wide as 65°
- Complement the architectural elements of any space with a multitude of housing, trim and cord finishes
- Variety of cord colors available in standard or braided for custom design
- 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.
- TRIMLOCK – Innovative TrimLock® reflector retention system ensures trim remains secure.
- OPEN REFLECTOR – Low-iridescent anodized aluminum. Clear semi-specular finish standard.
- LENSED TRIM – Die-cast aluminum frame with micro-prismatic lens (acrylic downlight, tempered glass uplight).
- ELECTRICAL – High-performance Class 2 LED array. Modular quick-connect plug for easy field-connection of LED light assembly to driver. Reported L70>50,000 hours. Tunable White products use LEDs of multiple CCTs and may produce a perceptibly different shade of white from single-CCT products at the same CCT. All CCTs are within 3 MacAdam ellipses.
- MOUNTING – Cable or wall mount. Indoor applications only. Control, driver, and EM battery installed in remote mount box.
- 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

	DIST.	DOWNLIGHT						UPLIGHT WALL MOUNT			UPLIGHT CABLE MOUNT				
		WATTAGE	OPEN REFLECTOR		FLUSH LENS		REGRESSED LENS		WATTAGE	OPEN REFLECTOR		WATTAGE	OPEN REFLECTOR		FLUSH LENS	
			DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)		DELIVERED LUMENS	EFFICACY (lm/W)		DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)
L13	W	14.6	1320	90	1135	78	1089	75	14.6	1203	82	14.6	1088	75	1039	71
	M	14.6	1317	90	1220	84	1183	81	14.6	1200	82	14.6	1086	74	–	–
	N	14.6	1345	92	1231	84	1199	82	14.6	1226	84	14.6	1088	75	–	–
L23	W	24.0	2357	98	1964	82	1900	79	24.0	2148	90	24.0	1941	81	1799	75
	M	24.0	2285	95	2117	88	2059	86	24.0	2082	87	24.0	1863	78	–	–
	N	24.0	2187	91	2129	89	2075	86	24.0	1993	83	24.0	1778	74	–	–
L42	W	44.9	4304	96	3596	80	3480	78	44.9	3922	87					
	M	44.9	4173	93	–	–	–	–	44.9	3803	85					
	N	44.9	3994	89	–	–	–	–	44.9	3640	81					

MULTIPLIER TABLES

COLOR TEMPERATURE

CCT	LUMENS	WATTS
2700K	0.83	1.03
3000K	1.00	1.00
3500K	0.99	0.99
4000K	1.00	1.00
5000K	0.98	1.03

TRIM OPTIONS

CATALOG NUMBER	CONVERSION FACTOR
F	0.75
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
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

BEAM ANGLE

	TRIM TYPE [2]						
	DOWNLIGHT				WM UPLIGHT	CM UPLIGHT	
	O	F	L	R	O	O	L
W	65°	70°	55°	55°	65°	65°	50°
M	35°	35°	35°	35°	35°	45°	35°
N	10°	20°	25°	25°	10°	10°	25°
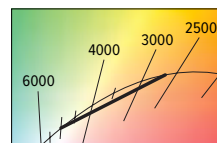
[1] Distribution will also be affected, consult factory.
[2] Beam angle based on CS or WH Reflector Finish.
- Photometrics tested in accordance with IESNA LM-79. Results based on WH (L and R Trim Types) or CS (O Trim Type) Reflector Finish, W Distribution, 80 CRI/4000K CCT, average wattage for 120V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- Wattage is for downlight or uplight components. Add wattages together for selected lumen packages to find total fixture wattage.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier tables to calculate additional options.

PHOTOMETRY CONTINUED ON NEXT PAGE.

H.E. Williams, Inc. • Carthage, Missouri • www.hew.com • 417-358-4065 • Designed and Manufactured in the USA
Information contained herein is subject to change without notice.   REV.01/10/25.JL

Cylinders
Page 2 of 5

8CRDI tunable WHITE
8″ Compact Direct/Indirect Cylinder – Round

PHOTOMETRY

8CRDI-TL-20-L23/8TWU/L23/8TWD-DIM-UNV-OW/OW-CS-WM Total Luminaire Output: 4629 lumens; 48 Watts | Efficacy: 96 lm/W | 80 CRI; 4000K CCT
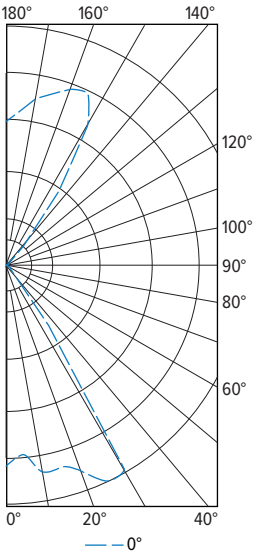

VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
0	1983	
5	1873	187
15	2058	591
25	2351	1062
35	716	576
45	55	46
55	15	16
65	2	3
75	0	0
85	0	1
90	4	
95	5	5
105	7	8
115	12	12
125	25	23
135	63	69
145	893	548
155	1875	835
165	1739	497
175	1521	150
180	1410	

CANDLEPOWER DISTRIBUTION

LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0 - 30	1840	40
0 - 40	2416	52
0 - 60	2478	54
0 - 90	2482	54
90 - 120	25	1
90 - 150	666	14
90 - 180	2148	46
0 - 180	4629	100

DOWNLIGHT

OPEN (O)
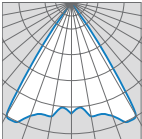
65° Wide
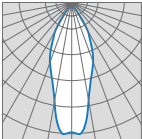
35° Medium
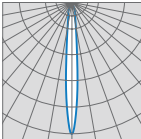
10° Narrow

OPEN TOP DIFFUSER (F)
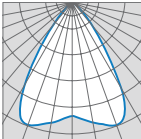
70° Wide
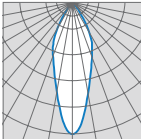
35° Medium
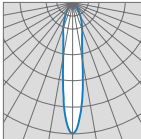
20° Narrow

FLUSH (L)
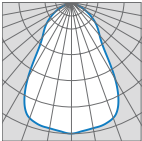
55° Wide
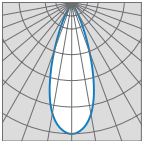
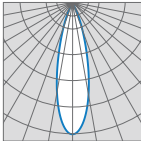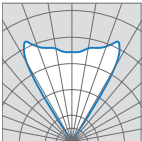35° Medium
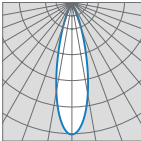
25° Narrow

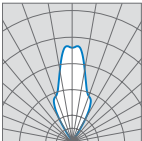### REGRESSED (R)
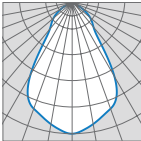
55° Wide
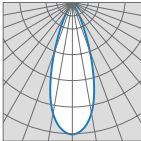
35° Medium

25° Narrow

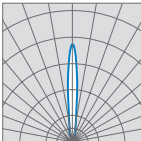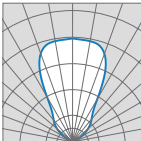## UPLIGHT CABLE MOUNT

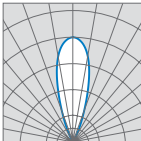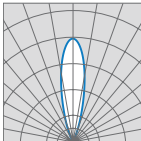### OPEN (O)

65° Wide

45° Medium

10° Narrow

FLUSH (L)

50° Wide

35° Medium

25° Narrow

SEE NEXT PAGE FOR CONTROL DETAILS.

H.E. Williams, Inc. ▪ Carthage, Missouri ▪ www.hew.com ▪ 417-358-4065 ▪ Designed and Manufactured in the USA
Information contained herein is subject to change without notice. REV.01/10/25.JL
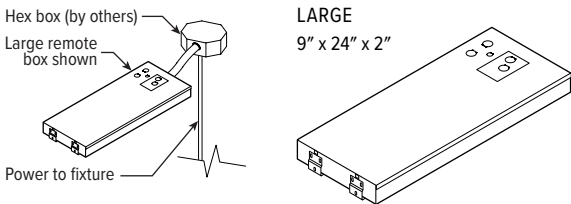
Cylinders
Page 3 of 5

8CRDI tunable WHITE
8″ Compact Direct/Indirect Cylinder – Round

CONTROL/DRIVER DETAILS

CONTROL/DRIVER	DESCRIPTION	RDB DETAILS BY LUMEN STOP			
		L13	L23	L42	w/EM
DIM	Dimming driver with (1) 0-10V signal to control dimming and (1) 0-10V signal to control CCT prewired for low voltage applications	R | L	R | L	R | L	R | L
DMX	Driver prewired for DMX applications	R | L	R | L	R | L	R | L
DALI	DALI dimming driver	R | L	R | L	R | L	R | L
LD2	Lutron DALI-2 digital driver, 1%	R | L	R | L	R | L	R | L
AWNR/LD2	Lutron Athena wireless node integral fixture control, RF only, for use with DALI-2 digital driver, 1%	R | L	R | L	R | L	R | L

REMOTE MOUNT DETAILS

Max remote distance is 50′, connection by others. Must be room-side accessible for maintenance.

REMOTE MOUNT KEY	
R | L	RDB Required, Large Box

Hex box (by others)
Large remote box shown
Power to fixture

LARGE
9″ x 24″ x 2″

DIM
DIM (Int) +
DIM (CCT) +
DIM -
Fixture 1

DALI
DALI +
DALI -
Fixture 1

DMX
RJ45 Ports (IN/OUT)
Fixture (Master)

LD2
DA +
DA -
Fixture 1

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
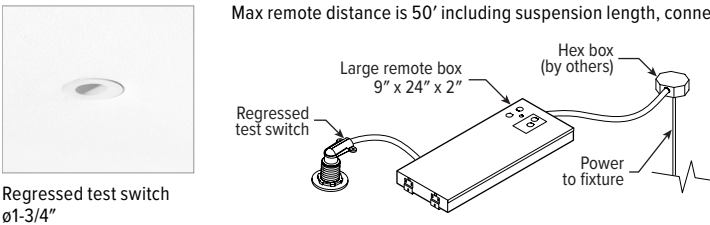
TRIMLOCK DETAILS

TWIST

PULL

RELEASE

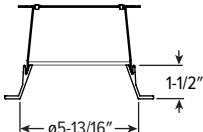## TRIM TYPE DETAILS

DOWNLIGHT

OPEN
ø6″
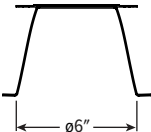
OPEN TOP DIFFUSER
ø6″
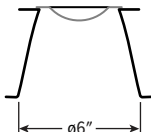
FLUSH
ø5-5/8″
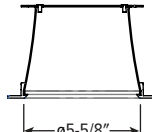
REGRESSED
ø5-13/16″
1-1/2″

UPLIGHT WALL MOUNT

OPEN
ø6″
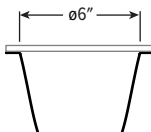
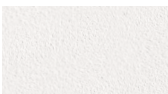**UPLIGHT CABLE MOUNT**

OPEN
ø4-1/2″
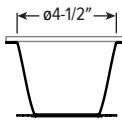
FLUSH
ø4-1/4″
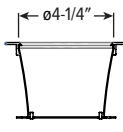
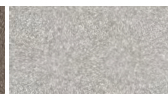## HOUSING FINISH DETAILS

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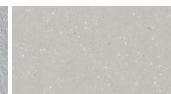
For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1″ square.

H.E. Williams, Inc. • Carthage, Missouri • www.hew.com • 417-358-4065 • Designed and Manufactured in the USA
Information contained herein is subject to change without notice.   REV.01/10/25.JL
Cylinders
Page 4 of 5

8CRDI tunable WHITE
8″ Compact Direct/Indirect Cylinder – Round

REFLECTOR FINISH DETAILS

Smooth Finish

SPC	SG	PW	GD	CG	RG	CS	AL

Textured Finish

WH	BL	BZ	NK	SV

MOUNTING DETAILS

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

WALL MOUNT (WM)

TOP VIEW

10-5/8″ 2-5/8″ 4-3/4″

SIDE VIEW

6-5/8″ 8-15/16″

BACK VIEW

ø4-3/4″ Bolt circle mounts to 4″ square J-box

3-1/4″ 6-1/2″

CORD OPTIONS

Must specify cord when cable 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

[1] (5) conductors cord only.

COLOR DETAILS

Additional colors may be available, consult factory.

White   Black   Brass   Aegean Blue   Red

Silver   Gunmetal   Nickel   Gray

H.E. Williams, Inc. • Carthage, Missouri • www.hew.com • 417-358-4065 • Designed and Manufactured in the USA
Information contained herein is subject to change without notice.   REV.01/10/25.JL

Cylinders
Page 5 of 5