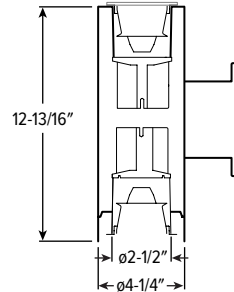


4CRDI LED

4" Compact Direct/Indirect Cylinder – Round



CATALOG #: _____

TYPE: _____

PROJECT: _____



ORDERING EXAMPLE: 4CRDI - 13 - L12/835U/L12/835D - RDB - OPTIONS - WHT - CONTROL/DIM - UNV - OW/LM - CS - TRIM OPTIONS - WM

HOUSING TRIM MOUNT.

HOUSING

SERIES	HEIGHT	LUMEN PACKAGE (Example: L12/835U/L9/835D)	REMOTE	OPTIONS
4CRDI	13 13"	Specify lumen packages: U for Up and D for Down LUMENS ^[2] CRI CCT U OR D L9 900lm 8 80 27 2700K U Uplight L12 1,200lm 9 90 30 3000K D Downlight L15 1,500lm 35 3500K 40 4000K 50 5000K	RDB Remote mount control/driver box, galvanized steel	EM/10WRM/RTS Remote mount 10-watt emergency battery with regressed test switch ^[1]

HOUSING FINISH ^[3]	CONTROL	DRIVER	VOLTAGE
ALUM Silver sparkle aluminum BLK Textured black BRZ Textured bronze NKL Textured nickel SLV Textured silver WHT Textured white	See page 3 for ADDITIONAL CONTROL/ DRIVER OPTIONS. – None AVI-LVFA Avi-on wireless fixture control ^[4] AWNLR Lutron Athena wireless node fixture control, RF only ^[5]	See page 3 for ADDITIONAL CONTROL/ DRIVER OPTIONS. DIM Entire fixture switches and dims together DIM1 1% Dimming driver, 0-10V DA Driver with 12V auxiliary power, without external dimming wires ^[6]	UNV 120-277V 347 347V ^[7]

TRIM

TRIM TYPE AND DISTRIBUTION	REFLECTOR FINISH ^[8]	TRIM OPTIONS
(Example Uplight/Downlight: OW/LM)		
TRIM TYPE	Downlight Open Trim Types	Downlight Lens Trim Types
Uplight	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	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
O Open reflector with clear glass shield ^[11]		
Downlight		
O Open reflector		
L Flush lens		
F Open reflector with frosted top diffuser		
R Regressed lens		
DISTRIBUTION		
See page 1 for Notes.		
Uplight		
W Wide		
M Medium		
N Narrow		
S Narrow spot ^[12]		
Downlight		
W Wide		
M Medium		
N Narrow		
S Narrow spot ^[13]		
TRIM OPTIONS		
AD Diffuse acrylic lens ^[9]		
PD Diffuse 1/8" polycarbonate lens ^[10]		

MOUNTING

MOUNTING TYPE ^[14]

WM Wall mount

NOTES

- 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 3 for EMERGENCY BATTERY DETAILS.
- 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.
- See page 4 for HOUSING FINISH DETAILS.
- DA Driver only.
- DA Driver only.
- Avi-on and Lutron Athena Controls only.
- Not available with EM batteries or DA drivers.
- Specified for Downlight Trim Type only. See page 4 for REFLECTOR FINISH DETAILS.
- Not available with O or F Trim Types. Downlight only. W Distribution only.
- Not available with O or F Trim Types. Downlight only. W Distribution only.
- CS Reflector Finish standard. Other colors available, consult factory.
- Not available with 950 CRI/CCT.
- Not available with 950 CRI/CCT.
- See page 4 for FIXTURE DETAILS.



4CRDI^{LED} 4" Compact Direct/Indirect Cylinder – Round

FEATURES

- 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 8° and field changeable optics as wide as 70°
- Complement the architectural elements of any space with a multitude of housing and trim finishes
- Precision-engineered extruded aluminum housing and die-cast aluminum trim face for clean aesthetic
- 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** – 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.	WATTAGE	DOWNLIGHT						UPLIGHT		
		OPEN REFLECTOR		FLUSH LENS		REGRESSED LENS		OPEN REFLECTOR		
		DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	
L9	W	10.7	929	87	973	91	963	90	10.6	760
	M	10.7	898	84	958	90	917	86	10.6	734
	N	10.7	799	75	950	89	927	87	10.6	653
	S	14.1	807	57	1115	79	1075	76	14.0	660
L12	W	14.3	1267	89	1327	93	1313	92	14.2	1036
	M	14.3	1224	86	1307	91	1250	87	14.2	1001
	N	14.3	1000	70	1296	91	1264	88	14.2	818
	S	20.4	1071	53	1480	73	1427	70	20.2	876
L15	W	17.7	1571	89	1645	93	1628	92	17.5	1285
	M	17.7	1518	86	1620	92	1550	88	17.5	1241
	N	17.7	1240	70	1607	91	1567	89	17.5	1014
	S	26.7	1326	50	1832	69	1767	66	26.5	1084

- 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%.
- 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.

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°

MULTIPLIER TABLES

	COLOR TEMPERATURE	
	CCT	CONVERSION FACTOR
80 CRI	2700K	0.92
	3000K	0.98
	3500K	1.00
	4000K	1.01
90 CRI	5000K	1.02
	2700K	0.76
	3000K	0.79
	3500K	0.82
	4000K	0.84
	5000K	0.88

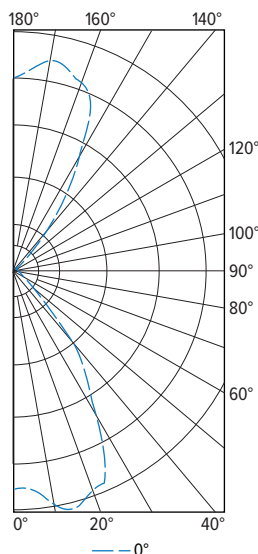
TRIM OPTIONS	
CATALOG NUMBER	CONVERSION FACTOR
F	0.67
AD	0.85
PD	0.85

	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
R TRIM	RG	0.88
	WH ^[1]	0.89
	BL ^[1]	0.47
	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.

PHOTOMETRY

4CRDI-13-L12/835U/L12/835D-WHT-DIM1-UNV-OW/OW-CS-WM Total Luminaire Output: 2228 lumens; 28.5 Watts | Efficacy: 78 lm/W | 80 CRI; 3500K CCT



	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
CANDLEPOWER DISTRIBUTION	0	948	
	5	959	95
	15	1059	295
	25	917	406
	35	514	306
	45	72	77
	55	19	18
	65	6	7
	75	3	3
	85	2	2
	90	2	
	95	3	3
	105	6	6
	115	13	13
	125	30	28
	135	77	70
	145	370	227
	155	773	339
	165	883	249
	175	867	84
	180	826	

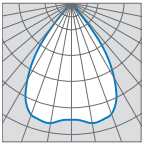
	ZONE	LUMENS	% FIXTURE
LUMEN SUMMARY	0 - 30	796	36
	0 - 40	1102	49
	0 - 60	1196	54
	0 - 90	1208	54
	90 - 120	23	1
	90 - 150	347	16
	90 - 180	1020	46
	0 - 180	2228	100



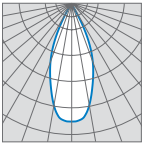
4CRDI^{LED}

4" Compact Direct/Indirect Cylinder – Round

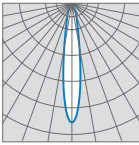
OPEN (O)



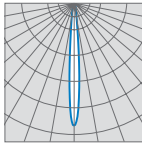
70° Wide



40° Medium

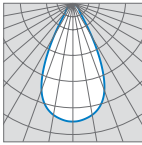


15° Narrow

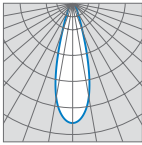


8° Spot

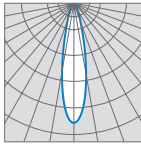
FLUSH (L)



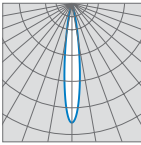
50° Wide



30° Medium

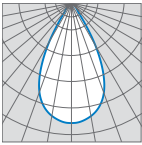


20° Narrow

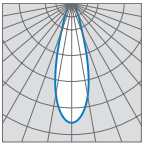


14° Spot

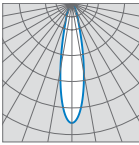
REGRESSED (R)



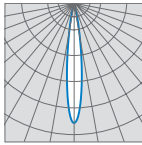
55° Wide



30° Medium



20° Narrow



14° Spot

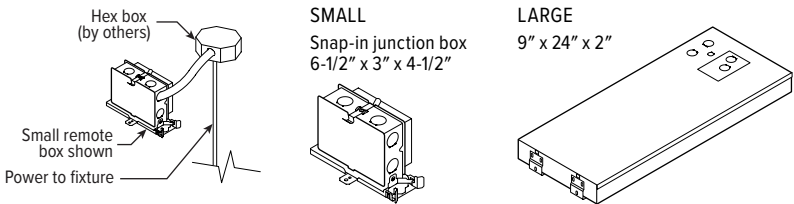
ADDITIONAL CONTROL/DRIVER OPTIONS

CONTROL/DRIVER	DESCRIPTION	RDB DETAILS BY LUMEN STOP ^[1]			
		L9	L12	L15	w/EM
DIM	Dimming driver prewired for 0-10V low voltage applications; entire fixture switches and dims together	RIS	RIS	RIS	RIL
DIMU/DIMD	Dimming driver prewired for 0-10V low voltage applications; up and down portions switch and dim separately	RIS	RIS	RIS	RIL
DIM1	1% dimming driver prewired for 0-10V low voltage applications	RIS	RIS	RIS	RIL
DIM1U/DIM1D	1% dimming driver prewired for 0-10V low voltage applications; up and down portions switch separately	RIS	RIS	RIS	RIL
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)	RIS	RIS	RIS	RIL
DIM LINEU/DIM LINED	Line voltage switching and line voltage dimming; up and down portions switch separately	RIS	RIS	RIS	RIL
DMX	0.1% dimming driver for DMX controls	RIL	RIL	RIL	RIL
DMX/DMX	0.1% dimming driver for DMX controls; up and down portions switch separately	RIL	RIL	RIL	RIL
DALI	DALI dimming driver	RIL	RIL	RIL	RIL
DALI/DALI	DALI dimming driver; up and down portions switch separately	RIL	RIL	RIL	RIL
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver	RIL	RIL	RIL	RIL
LDE1/LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver; up and down portions switch separately	RIL	RIL	RIL	RIL
AVI-LVFA/DA	Avi-on wireless fixture control for use with driver with 12V auxiliary power. Up and down switch together.	RIL	RIL	RIL	RIL
AVI-LVFA/DA-U/D	Avi-on wireless fixture control for use with driver with 12V auxiliary power. Up and down switch separately.	RIL	RIL	RIL	RIL
AWNDR/DA	Lutron Athena wireless node fixture control, RF only, for use with driver with 12V auxiliary power. Up and down switch together.	RIS	RIS	RIS	RIL
AWNDR/DA-U/D	Lutron Athena wireless node fixture control, RF only, for use with driver with 12V auxiliary power. Up and down switch separately.	RIS	RIS	RIS	RIL

¹ If using two different stops for U/D, see highest lumen stop for RDB.

REMOTE MOUNT DETAILS

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



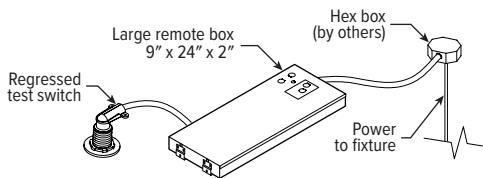
REMOTE MOUNT KEY	
RIS	RDB Required, Small Box
RIL	RDB Required, Large box

EMERGENCY BATTERY DETAILS



Regressed test switch
ø1-3/4"

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

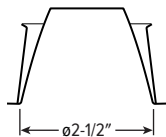


4CRDI^{LED} 4" Compact Direct/Indirect Cylinder – Round

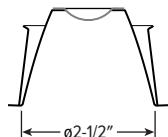
TRIM TYPE DETAILS

DOWNLIGHT

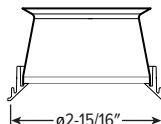
OPEN



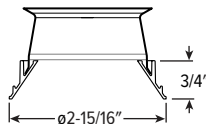
OPEN TOP DIFFUSER



FLUSH

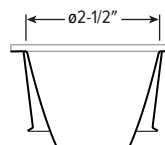


REGRESSED



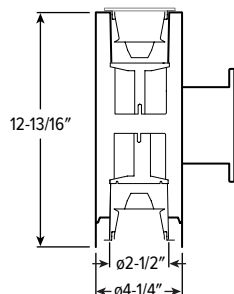
UPLIGHT

OPEN

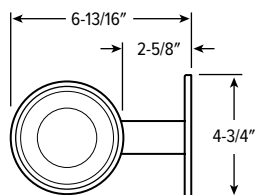


FIXTURE DETAILS

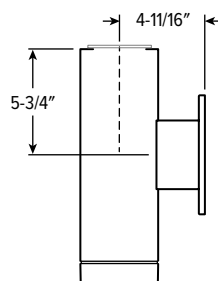
CROSS SECTION



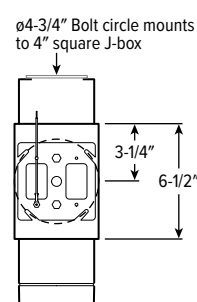
TOP VIEW



SIDE VIEW

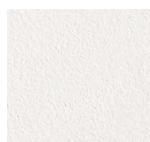


BACK VIEW

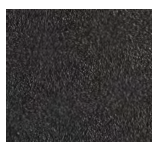


HOUSING FINISH DETAILS

WHITE



BLACK



BRONZE



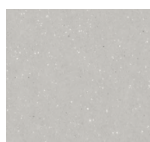
NICKEL



SILVER



ALUM



RAL# _____

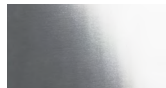


For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require four sample swatches, minimum 1" square.

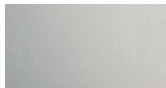
REFLECTOR FINISH DETAILS

Smooth Finish

SPC



SG



PW



GD



CG



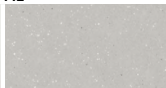
RG



CS

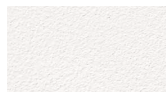


AL



Textured Finish

WH



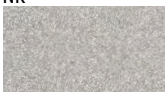
BL



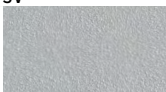
BZ



NK



SV



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REV.07/10/26.LM

Cylinders
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