REAL81 | **FAUX REAL**

2" wide aperture direct/indirect LED luminaire, wood or steel cladding

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Project: _____   Type: _____

Shown in walnut finish

Shown in Baltic birch - blue finish

Shown in white oak finish

FEATURES

The REAL81 is a linear, direct/indirect LED luminaire for general lighting applications. The 3" wide by 4-1/2" tall aluminum extruded housing is clad with ½" thick wood planks or heavy gauge Corten steel. The furniture grade wood options are available in several standard varieties, with hand applied finishes, while the Corten steel is clear coated. The REAL81 is available for cable or wall mounting and offered with a variety of dimming driver and light color options for added versatility. The REAL81 is Controls Capable, being offered with a variety of integrated control options.

SPECIFICATIONS

Fixture constructed of an extruded aluminum housing, extruded, frosted acrylic lens, machined aluminum end caps and wood or steel cladding.

Model variations offered for cable suspended and wall mount applications.

Wood side cladding is ½" thick, furniture grade, in solid walnut, European beech, mahogany, white oak and bamboo ply or nine-ply Baltic birch with maple face.

Solid wood planks and bamboo ply are hand finished in five to seven coats of clear shellac and sealed with clear liquid wax for a natural look and easy cleaning.

Baltic birch planks are available with a clear shellac finish or water-based stain with clear sealer.

Corten steel side cladding is 14 gauge with matte clear powder coat finish an includes button head fasteners in black finish.

Optional decorative industrial hardware with black finish available for wood cladding.

Fixtures available in nominal lengths of 2'–8'.

Standard integral 120-277V driver offered with 0-10V dimming or non-dim (other dimming driver options available).

Integral 120-277V emergency battery backup available for 4' or 8' nominal, single circuit fixtures with non-dim or 0-10V dimming (consult factory for all other lengths/drivers).

Standard light outputs range from 315–405 lumens per foot for the direct source and 465–740 lumens per foot for the indirect source.

LEDs available in 2700K, 3000K, 3500K and 4000K, within a 3 step MacAdam ellipse, all with 90+ CRI typical.
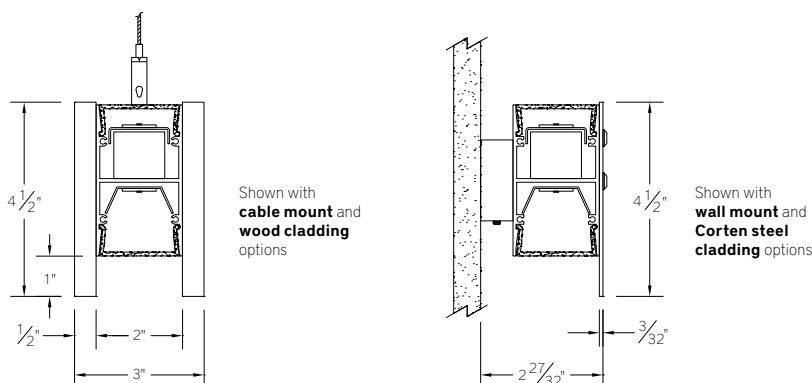
Flat blade louver option available.

Bartco Lighting Controls Capable fixture available with integrated controls from a variety of suppliers.

Life: 50,000 hours L_{70}.

Limited five year warranty.

UL and C-UL listed for dry locations.

SECTION

Shown with **cable mount** and **wood cladding** options

Shown with **wall mount** and **Corten steel cladding** options

PERFORMANCE

NOMINAL LENGTH	OPTIC CONFIGURATION	OUTPUT	LUMENS/ ft.	WATTS/ ft.	LUMINAIRE LUMENS	EFFICACY (LPW)
4'	Indirect – Lambertian	L: low	465	5.0	1738	93
		R: regular	605	7.2	2257	84
	Indirect – batwing	L: low	570	5.7	2112	100
		R: regular	740	7.9	2743	94
	Direct – flush lens	L: low	315	4.5	1211	69
		R: regular	405	7.4	1573	55

Note: All data reflects fixtures with 3500K LEDs.

Controls Capable

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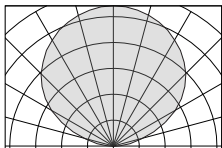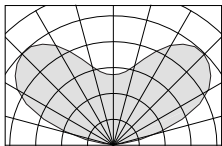
REAL81 –

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O. A. FIXTURE LENGTH
2: 24-5/8"
3: 35-5/8"
4: 46-5/8"
5: 57-5/8"
6: 68-5/8"
7: 79-5/8"
8: 90-5/8"

CORRELATED COLOR TEMPERATURE
27: 2700K-90+ CRI
30: 3000K-90+ CRI
35: 3500K-90+ CRI
40: 4000K-90+ CRI

DRIVER
ND: non-dimming

[Dimming]
D: 0-10V, 1%
DTR: triac, 1%
DLV: electronic low voltage, 1%
HES: Lutron EcoSystem, soft-on fade-to-black, 1%
EL: eldoLED ECOdrive 0-10V, 1%
ES: eldoLED SOLOdrive 0-10V, 0.1%
ELD: eldoLED ECOdrive DALI, 1%
ESD: eldoLED SOLOdrive DALI, 0.1%

INDIRECT LIGHT OUTPUT
(lumens per foot w/ optic option 1)
L: low – 465
R: regular – 605
CF: consult factory for custom output

CIRCUIT
1: single circuit
2: two circuit (4' nom. length and longer)

INDIRECT OPTIC
1: general Lambertian distribution
2: batwing distribution

DIRECT LIGHT OUTPUT
(lumens per foot w/ optic option A)
L: low – 315
R: regular – 405
CF: consult factory for custom output

MOUNT
WM: wall mount
C4: cable mount 4' cable length
C8: cable mount 8' cable length

DIRECT OPTIC
A: flush lens
D: louver

RUN CONFIGURATION
SN: single

HOUSING/END CAP FINISH
AW: architectural white (semi-matte)
WH: white (semi-gloss)
BL: black (semi-matte)
MB: matte black
ESS: environmental satin silver
BZ: bronze
PR: primer

SA: satin anodize (may require additional lead time)

OPTIONS
ED: emergency driver (4' or 8' SINGLE CIRCUIT, non-dim or 0-10V only)
DH1: deco. hardware – flanged button head *
DH2: deco. hardware – flanged hex head *
WS1A: Wattstopper FS-205, 100%-0% ‡
WS1B: Wattstopper FS-205, 100%-50% ‡
ES4: Philips EasySense SNS211 MC ‡
CA1: Casambi CBU-A2D ‡
NL1: nLight RES7 ‡
NL2: nLight RIO ‡
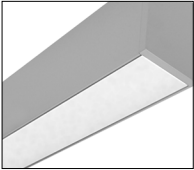LA1: Lutron Athena A-WN-D01-RF-WH ‡
LA2: Lutron Athena A-WN-D01-OCC-WH ‡

CLADDING FINISH
WN: walnut
EB: european beech
MH: mahogany
WO: white oak
BB: bamboo
P01: Baltic birch - maple
P02: Baltic birch - red
P03: Baltic birch - orange
P04: Baltic birch - green
P05: Baltic birch - blue
CS: Corten Steel
CF: consult factory for custom finish

* Applies to solid wood and plywood cladding.
‡ See Integrated Controls section for driver compatibility information.

INDIRECT OPTIC

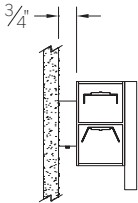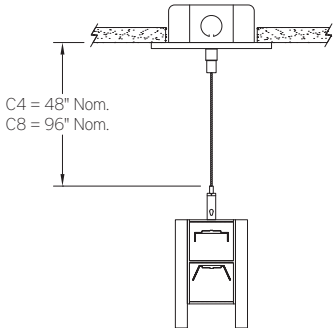|	ORDERING CODE	DESCRIPTION	SPECIFICATIONS
	1	LAMBERTIAN DISTRIBUTION	Frosted extruded acrylic lens for general Lambertian distribution
	2	BATWING DISTRIBUTION	Clear extruded acrylic with wide distribution optic features

DIRECT OPTIC

ORDERING CODE	DESCRIPTION	SPECIFICATIONS
A	FLUSH LENS	Flush frosted acrylic extrusion
D	LOUVER	• 2" W Flat blade louver with ⅝" blades at ⅞" spacing, formed from sheet steel. • Finish is Environmental Satin Silver (consult factory for alternate finishes). • Supplied with light diffusion film.

Note: Wood sides not shown.

MOUNTING

	ORDERING CODE	DESCRIPTION
¾"	WM	**WALL MOUNT** • 1-⅞" H x 4-½" W sheet aluminum bracket projects the fixture housing ¾" from the wall surface. • Bracket finish matches fixture finish, or ESS for satin anodize (SA) housing.
C4 = 48" Nom. C8 = 96" Nom.	C4 and C8	**CABLE MOUNT** Mounting option includes: • Ø ¹⁄₁₆"x 48" (C4) or 96" (C8) aircraft cables • 60" (C4) or 108" (C8) power cable (in coordinating finish) • Bracket bars • Ø 5" white canopies • Ceiling couplers • Side exit cable grippers **NOTE: WHEN DUAL CIRCUIT OPTION IS USED, TWO POWER CABLES ARE REQUIRED.**

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OPTIONS

ORDERING CODE	DESCRIPTION	SPECIFICATIONS
ED	EMERGENCY LED DRIVER	• Universal 120-277V input voltage emergency driver delivers initial minimum power of 10W for 90 minutes. • Available for SINGLE CIRCUIT, **4' or 8'** nominal length non-dim or 0-10V fixture only (consult factory for all other lengths/drivers). • Provided with combination test switch/indicator light for remote mount installation.
DH1	DECORATIVE HARDWARE – FLANGED BUTTON HEAD	Flanged button head decorative industrial hardware in black oxide finish. For solid wood and plywood cladding.
DH2	DECORATIVE HARDWARE – FLANGED HEX HEAD	Flanged hex head decorative industrial hardware in black phosphate finish. For solid wood and plywood cladding.

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OPTIONS – INTEGRATED CONTROLS

Controls Capable

Note: Control option takes up 4" of the overall lens length.
Controls are mounted to flush filler piece.

	ORDERING CODE	LIGHT OUTPUT SETTING	MODEL	CONTROL PROTOCOL	FUNCTIONS	COMPATIBLE DRIVERS
legrand WATTSTOPPER®	WS1A	100% – 0% [1]	FS-205	N/A	PIR occupancy and light level sensor.	For use with on/off or 0-10V dimming drivers only.
	WS1B	100% – 50% [1]				
PHILIPS EasySense	ES4	Set during commisioning	SNS211 MC	Bluetooth Wireless	Occupancy, daylight harvesting and task tuning sensor with advance grouping, for use within a MasterConnect network.	Provided with Advance sensor ready series 0-10V dimming drivers.
CASAMBI	CA1	Set during commisioning	CBU-A2D	Bluetooth Wireless	0-10V/DALI driver controller, for use within a Casambi ecosystem.	For use with 0-10V or DALI drivers. Consult factory for details.
nLIGHT	NL1	Set during commisioning	RES7 [2]	Radio Wireless	Dimming, PIR occupancy detection and daylight harvesting, for use within an nLight AIR network.	Provided with Advance sensor ready series or eldoLED 0-10V drivers.
	NL2		RIO [2]		Dimming, for use within an nLight AIR network.	
LUTRON.	LA1	Set during commisioning	A-WN-D01-RF-WH	Radio Wireless	Dimming only for use with an Athena control system.	Provided with Advance sensor ready series or eldoLED 0-10V or eldoLED DALI-2 drivers.
	LA2		A-WN-D01-OCC-WH		Dimming, PIR occupancy and daylight sensor for use with an Athena control system.	

1. Consult factory for custom light output setting.
2. Consult your Acuity representative for application-specific model number.

FINISH

- All wood planks are hand selected from the top grades available, for minimal defects, with high consistency in grain, color and contrast. Being a natural material, some variances in these qualities are to be expected.
- Solid woods, bamboo ply and Baltic birch ply with natural maple are finished in five to seven coats of hand applied natural shellac, followed by a liquid wax sealer for easy cleaning.
- Stained Baltic birch plywood options are hand finished in multiple coats of semi-transparent stain, followed by a clear sealer.
- Corten steel cladding is finished in matte clear powder coat and includes button head fasteners in black finish. Due to the oxidizing nature of the material, variations in surface finish patina are to be expected.

ORDERING CODE	DESCRIPTION		ORDERING CODE	DESCRIPTION
WN	SOLID WALNUT		P01	BALTIC BIRCH PLY – NATURAL MAPLE
EB	SOLID EUROPEAN BEECH		P02	BALTIC BIRCH PLY – RED STAINED MAPLE
MH	SOLID MAHOGANY		P03	BALTIC BIRCH PLY – ORANGE STAINED MAPLE
WO	SOLID WHITE OAK		P04	BALTIC BIRCH PLY – GREEN STAINED MAPLE
BB	BAMBOO PLY		P05	BALTIC BIRCH PLY – BLUE STAINED MAPLE
CS	CORTEN STEEL			

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LENGTH/MOUNTING DIMENSIONS

ORDERING CODE	LENGTH A	LENGTH B
2	24-5/8"	16-5/8"
3	35-5/8"	27-5/8"
4	46-5/8"	38-5/8"
5	57-5/8"	49-5/8"
6	68-5/8"	60-5/8"
7	79-5/8"	71-5/8"
8	90-5/8"	82-5/8"

RUN CONFIGURATION INFORMATION

ORDERING CODE	DESCRIPTION
SN	Single

RUN INFORMATION

Plan - Wall Mount Single Fixture Option

SN
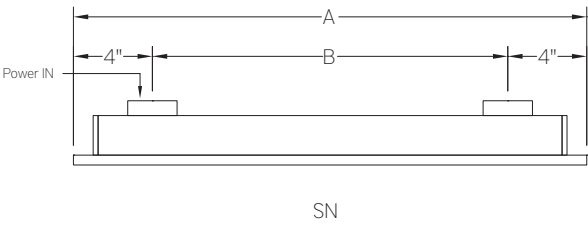
Side View - Cable Mount Single Fixture Option

SN