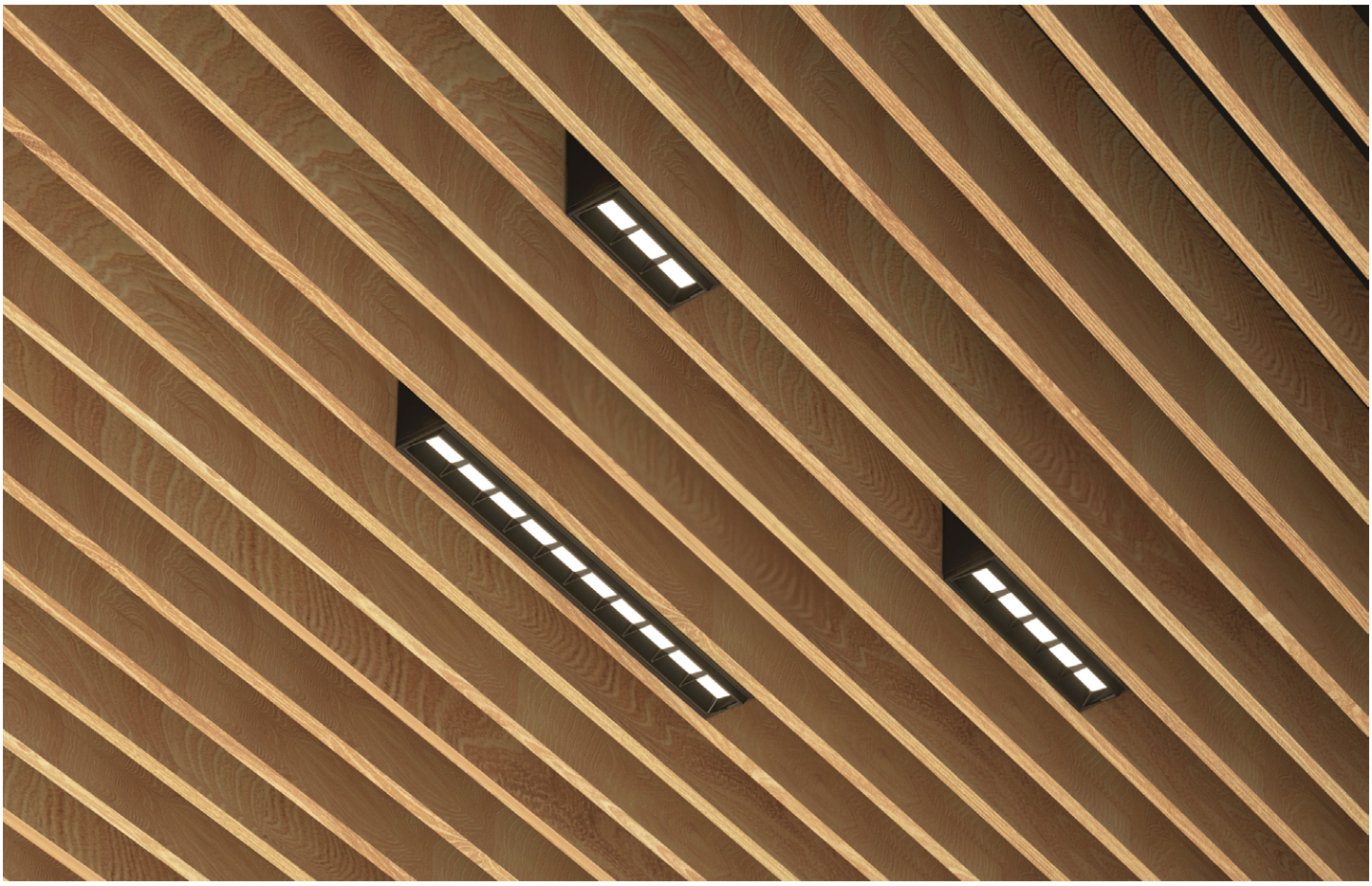
CLUSTER WOOD SLAT

RECESSED WALL WASH

Lumenwerx

5 YEAR WARRANTY



Cluster Wood Slat Recessed luminaires are a versatile group of downlights available in various configurations, designed for seamless installation in wood slat ceilings. With a choice of optics, including parabolic, wall wash, soft-edge, and sharp-edge options, these luminaires can address a wide variety of applications, delivering a clean, crisp aesthetic and precise, visually comfortable light.

Optic

WRO - Wall wash

Sizes

3x1 | 5x1 | 10x1

Cluster Family (Refer to other spec sheets)

Recessed, Wood Slat	Recessed Adjustable	Pendant	Surface	Combo	Acoustix
Downlight	Downlight	Downlight	Downlight	Recessed	Blank
Parabolic	Parabolic	Parabolic	Parabolic	Pendant	Downlight
Wall Wash	Wall Wash	Wall Wash	Wall Wash	Surface	Parabolic

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Project: _____

Type: _____

Order Guide

LUMINAIRE ID	INSTALLATION TYPE	MOUNTING OPTION [1]	LIGHT SOURCE	OPTIC	CRI
	OFB		**SW**	**WRO**	**90CRI**
CLU03WSRWW - Cluster 3x1 Wood Slat Recessed Wall Wash **CLU05WSRWW** - Cluster 5x1 Wood Slat Recessed Wall Wash **CLU10WSRWW** - Cluster 10x1 Wood Slat Recessed Wall Wash	**OFB** - Open Frame Type Non-IC, black	**BAB24** - Black adjustable bar hangers, 17" to 24" **BAB48** - Black adjustable bar hangers, 30" to 48" [1] See page 4 for more details.	**SW** - Static white	**WRO** - Wall wash	**90CRI** - 90+ CRI

COLOR TEMP.	ADJUSTABLE BRACKET FINISH	LOUVER FINISH	DRIVER	VOLTAGE	LUMEN PACKAGE [2]		DIMMING
27K - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K **50K** - 5000K	**FTMW** - Matte white **FTMB** - Matte black **CF#** - Custom finish, specify RAL#	**MF01** - Matte white **MF04** - Matte black	**INTEGRAL**	**120V** - 120V **277V** - 277V **UNV** - 120V-277V	3x1	**400LM** - 400 lm	**D1** - 1% 0-10V **ELV** [3] - ELV 120V **TRI** [3] - TRIAC 120V [3] Available with 120V only.
					5x1	**800LM** - 800 lm	
					10x1	**1200LM** - 1200 lm	
					[2] Lumen packages shown at 3500K, with WRO. For other, see lumen output multipliers on page 6.		
			REMOTE	**DO NOT SPECIFY FOR REMOTE. SEE "REMOTE DRIVER BOX" SECTION BELOW.**			

Remote Driver Box

Ordered separately. Specify each required remote driver box on a separate line.

REMOTE DRIVER [4]	LUMINAIRE QTY. [5]	LUMINAIRE ID	VOLTAGE	LUMEN PACKAGE [6]				DIMMING [7]
RDB# - Remote driver box [4] Specify each required remote driver box on a separate line.	**#X** - Number of luminaires [5] Specify number (#) of luminaires per remote driver. See page 5 for minimum and maximum per driver.	**CLU03WSRWW** - Cluster 3x1 Wood Slat Recessed Wall Wash **CLU05WSRWW** - Cluster 5x1 Wood Slat Recessed Wall Wash **CLU10WSRWW** - Cluster 10x1 Wood Slat Recessed Wall Wash	**120V** - 120V **277V** - 277V **UNV** - 120V-277V		Low	Medium	High	**RD1** - 1% 0-10V **RELV** [8, 9] - ELV 120V **RTRI** [8, 9] - TRIAC 120V **RDA** [10] - DALI **RLDE1** [10] - Lutron Hi-lume 1% Eco **RELD1** - eldoLED 1% ECOdrive 0-10V **RELD0** - eldoLED 0.1% SOLOdrive 0-10V [7] For configurations involving different cluster sizes on a remote driver, please consult factory. [8] Available with 120V only. [9] Only available with high lumen packages. [10] On-site commissioning is required.
				3x1	**100LM** - 100 lm	**250LM** - 250 lm	**400LM** - 400 lm	
				5x1	**200LM** - 200 lm	**500LM** - 500 lm	**800LM** - 800 lm	
				10x1	**300LM** - 300 lm	**750LM** - 750 lm	**1200LM** - 1200 lm	
				[6] Watts and lumen per watts will vary based on the number of light units per remote driver as well as on the type of driver selected.				

EXAMPLE

HOUSING + LIGHT	CLU03WSRWW-OFB-BAB24-SW-WRO-90CRI-27K-FTMB-MF04-REMOTE	REMOTE DRIVER BOX	RDB1-2X-CLU03WSRWW-120V-100LM-RD1 RDB2-1X-CLU03WSRWW-120V-250LM-RD1

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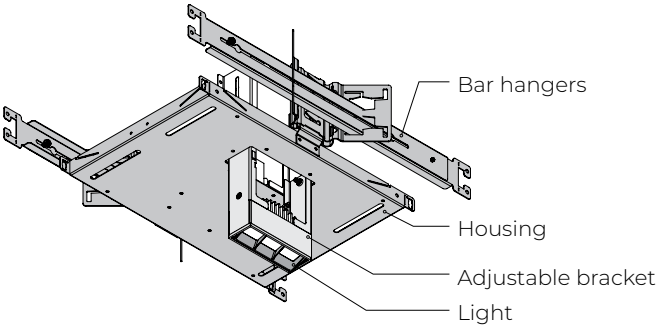
RECESSED WALL WASH

Overview



Housing

OFB
- Black housing

Adjustable bracket

ADJUSTABLE BRACKET FINISH
- Matte white
- Matte black

Bar hangers

BAB24
- Black adjustable bar hangers, 17" to 24"

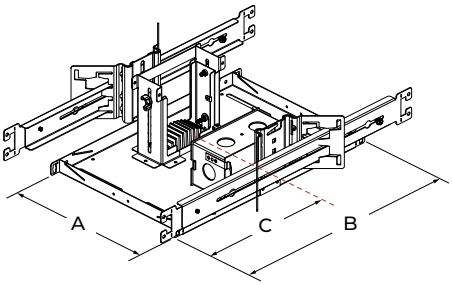
BAB48
- Black adjustable bar hangers, 30" to 48"

Light

LOUVER FINISH
- Matte white
- Matte black

Housing

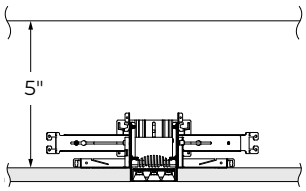
INSTALLATION TYPE



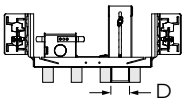
OFB - Open Frame

	HOUSING		
	A	B	C
3x1	8 11/16"	13 5/16"	6 11/16"
5x1	8 11/16"	13 5/16"	6 11/16"
10x1	8 11/16"	19 5/16"	9 11/16"

DIMENSIONS

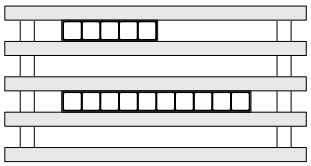


Clearance height

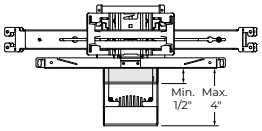


Spacing between slats

	SPACING BETWEEN SLATS	
	D	
	INTEGRAL (access from below the ceiling)	**INTEGRAL / REMOTE** (access from above the ceiling)
3x1	NA	1 1/2"
5x1	1 3/4"	1 1/2"
10x1	1 3/4"	1 1/2"



Bottom view



Cluster height

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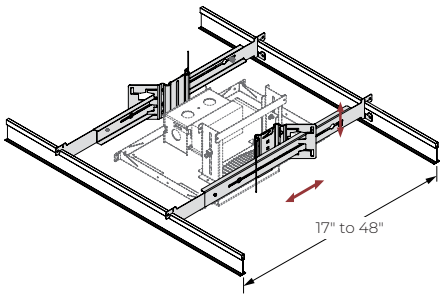
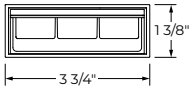
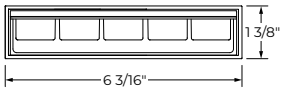
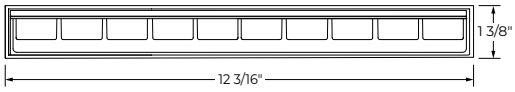
Housing

MOUNTING OPTION	
BAB24 - Black adjustable bar hangers, 17" to 24" **BAB48** - Black adjustable bar hangers, 30" to 48"	
	Black adjustable bar hangers can be used in both commercial and residential applications and are by far the most versatile mounting bar we offer with its adjustability to various heights. BAB hangers are suitable for Grid Ceiling, Drywall, Metal, Wood and Frame mounting. · Extremely rigid · Fits into C-Channel notches in a Butterfly Bracket

Light

DIMENSIONS

SIZE	
3x1	
5x1	
10x1	

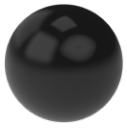
OPTIC

WRO - Wall wash

LOUVER FINISHES

Louver is injection molded with integral texture and color.

MF01 - Matte white



MF04 - Matte black

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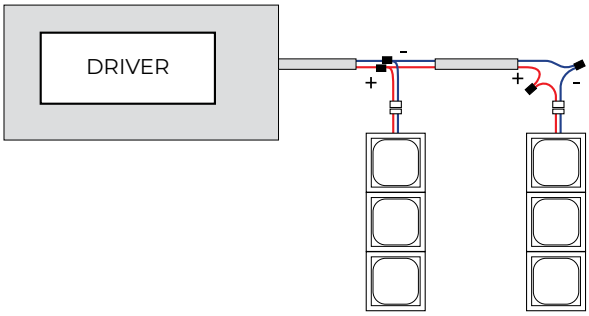
Driver

REMOTE DRIVER

The remote driver can power several lighting units, depending on their total power. The minimum and maximum number of lighting units and driver type are shown in the table below and must be observed. The remote driver and lighting units are wired together through connection boxes, which are furnished pre-wired to the driver enclosure. All wiring is Class 2 with quick-splice connectors. The remote driver requires access from above the ceiling (or an access panel).

CONNECTION IN PARALLEL



FIXTURES

Number of lighting units per driver (minimum and maximum).

DRIVER	3x1	5x1	10x1
RD1	1-12	1-7	1-5
RELV	1-6	1-4	1-2
RTRI	1-6	1-4	1-2
RDA	1-11	1-7	1-4
RLDE1	1-11	1-7	1-4
RELD1	1-11	1-7	1-4
RELD0	1-11	1-7	1-4

For any quantities of lighting units per driver that fall outside the minimum and maximum listed above, please consult factory.

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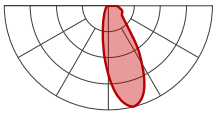
Photometrics

Values calculated based on 3500K.



WRO - Wall wash

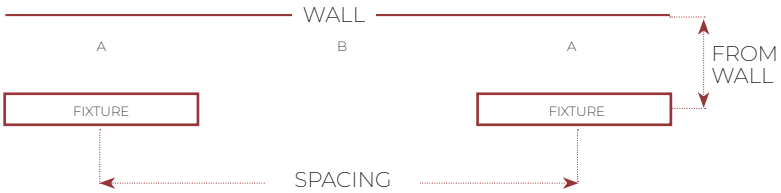
	LM	W	LM/W
3x1	400	6.35	63
5x1	800	12.7	63
10x1	1200	18.2	66

MULTIPLIER TABLE

Please follow the multiplier table to ensure correct lumen value. CCT will change the lumen value.

CCT	LPW
2700K	0.94
3000K	0.97
3500K	1
4000K	1.02
5000K	1.06

VERTICAL ILLUMINANCE



24" FROM WALL - 18" SPACING

Distance from Ceiling	FC ON WALL								
	3x1			5x1			10x1		
	A	B	A	A	B	A	A	B	A
1'	20	19	20	40	38	40	59	57	59
2'	24	24	24	48	48	48	72	71	72
3'	24	24	24	48	48	48	71	71	71
4'	19	19	19	37	37	37	55	55	55
5'	14	14	14	28	28	28	40	40	40
6'	10	10	10	21	21	21	30	30	30
7'	9	9	9	17	17	17	24	24	24
8'	7	7	7	15	14	15	20	20	20

24" FROM WALL - 36" SPACING

Distance from Ceiling	FC ON WALL								
	3x1			5x1			10x1		
	A	B	A	A	B	A	A	B	A
1'	10	9	10	21	17	21	31	26	31
2'	11	11	11	23	21	23	34	32	34
3'	13	12	13	25	25	25	38	37	38
4'	12	12	12	24	24	24	36	35	36
5'	10	10	10	20	20	20	29	29	29
6'	8	8	8	15	16	15	23	23	23
7'	6	6	6	12	12	12	19	19	19
8'	5	5	5	11	11	11	16	16	16

30" FROM WALL - 36" SPACING

Distance from Ceiling	FC ON WALL								
	3x1			5x1			10x1		
	A	B	A	A	B	A	A	B	A
1'	8	7	8	16	15	16	24	22	24
2'	9	8	9	17	17	17	26	25	26
3'	10	10	10	19	19	19	29	28	29
4'	10	10	10	20	20	20	31	31	31
5'	10	10	10	19	19	19	29	29	29
6'	8	8	8	17	17	17	25	25	25
7'	7	7	7	14	14	14	21	21	21
8'	6	6	6	12	12	12	18	18	18

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Technical Specifications

OPTIC

Wall Wash Refractive Optic (WRO)
Cluster wall wash optic uses multiple mid-flux emitters in a continuous array, supported by an angled board. An aluminum reflector collects and redirects emitter flux, while a refractive film adjusts both vertical and horizontal intensity and eliminates source image. The result is excellent uniformity up and down the wall, as well as between luminaires.

LIGHT SOURCE

Custom array of high-flux LEDs mounted onto aluminum-backed circuitry. Available in 2700K, 3000K, 3500K, 4000K, and 5000K with a minimum 90+ CRI with elevated R9 value. Color consistency is maintained to within 3 SDCM. All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

ELECTRICAL

Unless otherwise specified, dimming down to 1%. At maximum driver load: efficiency>84%, PF>0.9, THD<20%. ELV and TRIAC dimming performance (including minimum dimming percentage) subject to dimmer selection.
Integral: 0-10V, ELV, TRIAC
Remote: 0-10V, ELV, TRIAC, Lutron Hi-Lume 1% EcoSystem, eldoLED 0.1% SOLOdrive 0-10V, eldoLED 1% ECOdrive 0-10V

PoE
Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, DUO (tunable white), QUADRO (RGBW), emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

CONSTRUCTION

Housing: Die-cast aluminum
Optics: Polycarbonate
Mounting frame: Galvanized sheet metal
Driver housing: Galvanized sheet metal

WEIGHT

	OFB
3x1	5.47 lbs - 2.48 kg
5x1	5.7 lbs - 2.58 kg
10x1	6.88 lbs - 3.12 kg

CERTIFICATION

ETL: Rated for indoor dry/damp locations. Conforms to UL 1598 Standard and certified to CAN/CSA Standard C22.2 No. 250.0.

WARRANTY

Lumenwerx provides a five-year limited warranty on electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.

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