DESCRIPTION

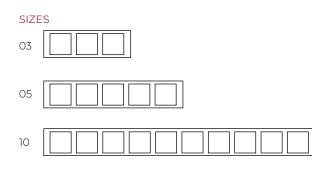
Cluster is the precise, and scalable family of downlights, wall washers, and adjustables, available in both linear and planar configurations and for recessed, pendant, and surface mounting. Based on a fundamental 1.2" square cell, Cluster deliver lighting that is optically sophisticated and aesthetically refined. Cluster recessed adjustable wall wash is available in 3, 5 and 10 cell configurations and aim 30° from vertical. The diffusion film optics deliver an effective, asymmetrical wash of light on target surfaces. Nominal light output of 400 or 800 lumens.

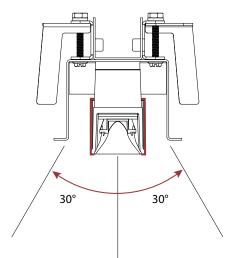
The adjustable optic mounts in an outer housing, which can install in a variety of ceiling types and materials, with either an integral driver or a remote driver that is capable of powering multiple luminaires.

LUMENWERX

PROJECT:	
TYPE:	
NOTES:	







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CLUSTERS-RECESSED-ADJUSTABLE-WALLWASH-SPEC-REV4

LUMENWERX

IC RATED

1 - MOUNTING (Example: CLUADJ03-OF-FMB-TRM-INTEGRAL-120-400-D1) Consult pages 3-4 for details before specifying Mounting can be ordered separately.

LUMINAIRE ID	INSTALLATION TYPE	MOUNTING OPTION 1, 2	TRIM TYPE	DRIVER	VOLTAGE	LUMEN PACKAGE ³	DIMMING
CLUADJ03 - Cluster Adjustable 3x1 CLUADJ05 - Cluster Adjustable 5x1 CLUADJ10 - Cluster Adjustable 10x1	OF - Open Frame Type Non-IC IC - Type-IC RM - Remodel Type Non-IC CP - Chicago Plenum Type-IC (CCEA)	ASB - Adjustable standard bar hangers FMB - Flush mount bars ACB - Adjustable commercial bar hangers AHC - Adjustable hat channel bars NA - Not applicable ¹ See page 4 for more details. ² Specify NA for remodel (RM)	TRM - Flanged trim TLMP - Trimless drywall mudplate	INTEGRAL	120 - 120V 277 - 277V	400 - 400 Im (CLUADJ03) 800 - 800 Im (CLUADJ05) 1200 - 1200 Im (CLUADJ10) ³ Lumen packages shown at 3500K, with WRO. For other, see lumen output multipliers on page 6.	D1 - 1% 0-10V ELV 4 - ELV 120V TRI 4 - TRIAC 120V 4 Available with 120V only.
		installation type.		REMOTE		ULL REMOTE DRIVER SPEC	

2 - LIGHT (Example: CLUADJL03-TRM-SW-WRO-90-30-TMW-TMW-MF01)

Consult page 5 for details before specifying

		sw	WRO	90				
LUMINAIRE ID	TRIM TYPE	LIGHT SOURCE	OPTIC	CRI	CLR. TEMP.	TRIM FINISH ⁵	LIGHT ELEMENT FINISH	LOUVER FINISH
CLUADJL03 - Cluster Adjustable 3x1 CLUADJL05 - Cluster Adjustable 5x1 CLUADJL10 - Cluster Adjustable 10x1	TRM - Flanged trim TLMP - Trimless drywall mudplate	SW - Static white	WRO - Wall wash	90 - 90 CRI	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	TMW - Textured matte white TMB - Textured matte black CF# - Custom finish, specify RAL# ⁵ Applicable for trim and trimless.	TMW - Textured matte white TMB - Textured matte black CF# - Custom finish, specify RAL#	MF01 - Matte white MF04 - Matte black

3 - REMOTE DRIVER OPTIONAL (EX: RDB1-4X-CLUADJ05-120-500-RD1)

Continue here for full remote driver specifications. Remote driver can be ordered separately.

Consult page 6 for details before specifying

REMOTE DRIVER ⁶	LUM. QTY. 7	LUMINAIRE ID	VOLTAGE	LUMEN PACKAGES ^{8,9}	
RDB# - Remote driver ⁶ If multiple driver boxes needed, specify a line number for each driver type used. (e.g. RDB1-4X-CLUR05RD1 RDB2-2X-CLUR05RD1)	#X - Number of luminaires ⁷ Specify number of luminaires per remote driver. (e.g. 3X)	CLUADJ03 - Cluster Adjustable 3x1 CLUADJ05 - Cluster Adjustable 5x1 CLUADJ10 - Cluster Adjustable 10x1	120 - 120V 277 - 277V UNV - 120V-277V	 ### - Low 100 Im - Med 250 Im - High 400 Im (CLUADJ03) ### - Low 200 Im - Med 500 Im - High 800 Im (CLUADJ05) ### - Low 300 Im - Med 750 Im - High 1200 Im (CLUADJ10) ^a 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. ^a Low and medium lumen packages are not available with RELV and RTRI dimming options. 	RDI - 1% 0-10V RELV ¹¹ - ELV 120V RTRI ¹¹ - TRIAC 120V RDA ¹² - DALI RLTEA2W ¹¹ - Lutron 1% - 2 wire FP 120V RLDE1 ¹² - Lutron Hi-lume 1% Eco ¹⁰ For configurations involving different cluster sizes on a remote driver, please consult factory. ¹¹ Available with 120V only. ¹² On-site commissioning is required.

EXAMPLE ORDER CODES

WHEN SPECIFYING W	/ITH INTEGRAL DRIVER
MOUNTING	CLUADJ03-OF-FMB-TRM-INTEGRAL-120-400-D1
LIGHT	CLUADJL03-TRM-SW-WRO-90-30-TMW-TMW-MF01
REMOTE DRIVER	N/A

WHEN SPECIFYING W	ITH REMOTE DRIVER ¹³
MOUNTING	CLUADJ03-OF-FMB-TRM-REMOTE
LIGHT	CLUADJL03-TRM-SW-WRO-90-30-TMW-TMW-MF01
REMOTE DRIVER	Remote driver 1: RDB1-4X-CLUADJ05-120-500-RD1 Remote driver 2: RDB2-2X-CLUADJ05-120-500-RD1

¹³ When specifying with multiple remote driver boxes, each driver used needs to be on a separate line and be numbered for the ordering codes.

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CLUSTERS-RECESSED-ADJUSTABLE-WALLWASH-SPEC-REV4



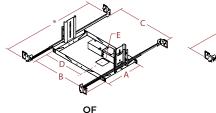
LUMENWERX

MOUNTING

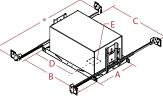
Cluster can be installed in a wide range of ceiling conditions and with various ceiling trim options. Spring clips clamp the lighting unit to the mounting frame (or directly to the ceiling for remodel). Maximum ceiling thickness is 1.25".

INSTALLATION TYPE	MOUNTING OPTION ^{1,2}	TRIM TYPE
OF - Open Frame Type Non-IC IC - Type-IC RM - Remodel Type Non-IC CP - Chicago Plenum Type-IC (CCEA)	ASB - Adjustable standard bar hangers FMB - Flush mount bars ACB - Adjustable commercial bar hangers AHC - Adjustable hat channel bars NA - Not applicable	TRM - Flanged trim TLMP - Trimless drywall mudplate
	¹ For detailed mounting option dimensions, see page 4. ² Specify NA for remodel (RM) installation type.	

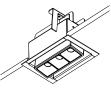
INSTALLATION TYPE ³



Open Frame



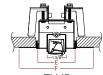
IC or **CP** Type-IC/ Chicago Plenum



RM

Remodel

Ĭ



TRM Flanged trim

TLMP Trimless drywall mudplate

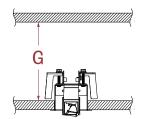
³ Drawings shown with adjustable standard bar hangers.

	A HOUSING WIDTH	B HOUSING LENGTH	C SPACING BETWEEN BARS	D DISTANCE FROM CUT-OUT
CLUADJ03	יון	12 11/16"	12 1/8"	6 3/8"
CLUADJ05	יןן	13 11/16"	13 1/8"	6 7/8"
CLUADJ10	13"	15 1/2"	14 3/8"	7 7/16"

E	F
CUT-OUT DIMENSIONS	MUDPLATE DIMENSIONS
4 3/8" x 3"	6 7/8" x 5 3/8"
6 3/4" x 3"	9 1/4" x 5 3/8"
12 3/4" x 3"	15 1/4" x 5 3/8"

PLENUM CLEARANCE DIMENSIONS

			G	
	REMOTE &		NUM CLEARANCE HEIGHT	REMOTE
	OPEN FRAME	IC / CP	REMODEL	REMODEL
CLUADJ03	4 13/16"	5 3/8"	4"	3 1/4"
CLUADJ05	4 13/16"	5 3/8"	4"	3 1/4"
CLUADJ10	4 13/16"	5 3/8"	4"	3 1/4"



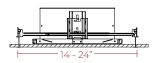


CLUSTERS-RECESSED-ADJUSTABLE-WALLWASH-SPEC-REV4

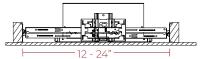
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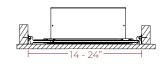
MOUNTING OPTIONS



ASB - Adjustable standard bar hangers Grid ceiling or drywall with variable height (Commercial applications)



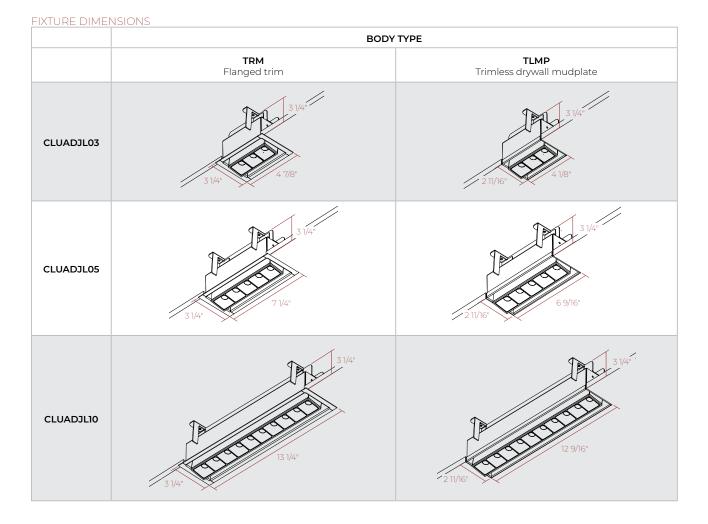
ACB - Adjustable commercial bar hangers Grid ceiling, drywall, metal, wood, frame mounting (Also openings for multiple hanging options such as hat channel, IC channel and metal tubing, supplied by others)



FMB - Flush mount bracket Drywall/metal/wood frame mounting (Residential applications)



AHC - Adjustable hat channel bars With adjustable height





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LIGHT



Body Trim

LOUVERS FINISH

Louvers is injection molded with integral texture and color





MF01 - Matte white

MF04 - Matte black

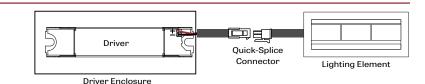


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DRIVER

INTEGRAL DRIVER

The integral driver is sized to the lighting unit and is connected directly to it with Class 2 wiring and quicksplice connectors. The driver enclosure can be serviced through the ceiling by removing the lighting unit.



MULTIPLIER

GENERAL LUMEN OUTPUT MULTIPLIER AT 90 CRI

	2700K	3000K	3500K	4000K
LUMEN OUTPUT MULTIPLIER	0.94	0.97	1	1.02

LUMEN PACKAGE (AT 3500K, WRO) - INTEGRAL DRIVER

LUMINAIRE ID	LUMEN OUTPUT	WATTS	EFFICACY LM/W
CLUR03ADJ	400 lm	6.35 W	63 lm/W
UR05ADJ	800 lm	12.7 W	63 lm/W
CLUR10ADJ	1200 lm	18.2 W	66 lm/W

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).

LUMEN PACKAGE¹ (AT 3500K, WRO) - REMOTE DRIVER

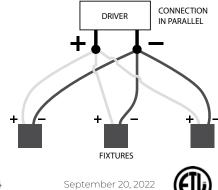
LUMINAIRE ID	LUMEN P	ACKAGE ²		VOLTAGE	REMOTE DRIVER	NUMBER OF LIGHTING UNITS PER DRIVER
CLUR03ADJ CLUR05ADJ CLUR10ADJ	LOW 100 lm 200 lm 300 lm ² Low and m with RELV a	MEDIUM 250 Im 500 Im 750 Im edium options ar ind RTRI.	HICH 400 lm 800 lm 1200 lm e not available	120 - 120V 277 - 277V UNV - 120V-277V	RD1 - 1% 0-10V RELV ³ - ELV 120V RTRI ³ - TRIAC 120V RDA ⁴ - DALI RLTEA2W ³ - Lutron 1% - 2 wire FP 120V RLDE1 ⁴ - Lutron Hi-lume 1% Eco ³ Available with 120V only. ⁴ On-site commissioning is required.	See table below for maximum and minimum possible number of lighting units per each driver. For configurations involving different cluster sizes, please consult factory.

¹Watts and lumen per watts will vary based on the number of lighting units per remote driver as well as on the type of driver selected.

NUMBER OF LIGHTING UNITS PER DRIVER - MINIMUM AND MAXIMUM

DRIVER TYPE	CLUR03ADJ	CLUR05ADJ	CLUR10ADJ
D1 - 1% 0-10V	2-12	1-6	1-3
ELV - ELV 120V	1-4	1	1
TRI - TRIAC 120V	1-4	1	1
DA - DALI	3-12	2-6	1-3
LTEA2W - Lutron 1% - 2 wire FP 120V	2-6	1-3	1-2
LDE1 - Lutron Hi-lume 1% Eco	2-11	1-6	1-4

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



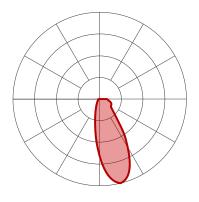
Intertek

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WALL WASH



VERTICAL ILLUMINANCE

CL	CLU03C-WW-SB-LED-90-400LMS-35						
FC on Wall		24"					
D	יו	20	19	20			
ili	2'	24	24	24			
ပီ	3'	24	24	24			
Eo	4'	19	19	19			
efr	5'	14	14	14			
anc	6'	10	10	10			
Distance from Ceiling	7'	9	9	9			
	8'	7	7	7			

CL	CLU03C-WW-SB-LED-90-400LMS-35						
FC on Wall		24"					
ກ	ין	10	9	10			
ii	2'	11	11	11			
ပိ	3'	13	12	13			
Ę	4'	12	12	12			
efr	5'	10	10	10			
anc	6'	8	8	8			
Distance from Ceiling	7'	6	6	6			
0	8'	5	5	5			

CL	CLU03C-WW-SB-LED-90-400LMS-35						
FC on Wall		36"					
ດ	ין	8	7	8			
ii	2'	9	8	9			
ပိ	3'	10	10	10			
E.	4'	10	10	10			
efr	5'	10	10	10			
anc	6'	8	8	8			
Distance from Ceiling	7'	7	7	7			
-	8'	6	6	6			

CL	CLU05C-WW-SB-LED-90-800LMS-35					
FC on Wall						
D	יר	40	38	40		
iii	2'	48	48	48		
ů	3'	48	48	48		
E	4'	37	37	37		
efr	5'	28	28	28		
anc	6'	21	21	21		
Distance from Ceiling	7'	17	17	17		
	8'	15	14	15		

CL	CLU05C-WW-SB-LED-90-800LMS-35						
FC o	n Wall	24"					
ດ	ין	21	17	21			
ili	2'	23	21	23			
ပိ	3'	25	25	25			
EO.	4'	24	24	24			
efi	5'	20	20	20			
anc	6'	15	16	15			
Distance from Ceiling	7'	12	12	12			
	8'	11	11	11			

CLU05C-WW-SB-LED-90-800LMS-35					
FC on Wall		30"			
0	יר	16	15	16	
i	2'	17	17	17	
ပီ	3'	19	19	19	
E	4'	20	20	20	
efr	5'	19	19	19	
anc	6'	17	17	17	
Distance from Ceiling	7'	14	14	14	
	8'	12	12	12	

CL	CLUI0C-WW-SB-LED-90-1200LMS-35					
FC on Wall		224"				
0	יר	59	57	59		
i	2'	72	71	72		
ပီ	3'	71	71	71		
E	4'	55	55	55		
efr	5'	40	40	40		
anc	6'	30	30	30		
Distance from Ceiling	7'	24	24	24		
	8'	20	20	20		

CL	CLUI0C-WW-SB-LED-90-1200LMS-35					
FC on Wall		 				
D	יר	31	26	31		
Ceiling	2'	34	32	34		
ပီ	3'	38	37	38		
Ę	4'	36	35	36		
efr	5'	29	29	29		
anc	6'	23	23	23		
Distance from	7'	19	19	19		
	8'	16	16	16		

CL	CLU10C-WW-SB-LED-90-1200LMS-35					
FC on Wall		36"				
0	ין	24	22	24		
i	2'	26	25	26		
ပီ	3'	29	28	29		
Lo.	4'	31	31	31		
efr	5'	29	29	29		
anc	6'	25	25	25		
Distance from Ceiling	7'	21	21	21		
	8'	18	18	18		



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Technical Specifications

OPTICS

WALL WASH REFLECTOR OPTICS (WRO)

Cluster Linear Wall Wash optics use 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 and 4000K 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.

WEIGHT

	BODY		OPEN FRAME		TYPE-IC WITH CHICAGO PLENUM	
	Lb	Kg	Lb	Kg	Lb	Kg
CLUR03ADJ	1.59	0.69	2.52	1.14	5.90	2.68
CLUR05ADJ	2.18	0.97	2.57	1.17	6.20	2.81
CLUR10ADJ	3.57	1.62	3.33	1.51	7.75	3.52

CONSTRUCTION

Housing - Die-cast aluminum (0.95" nominal) Optics - Polycarbonate Mounting frame - 22 gauge galvanized sheet metal Driver housing - 18 gauge galvanized sheet Mounting clips - Ø1.0-1.4mm spring clips Adjustable structure - Cold rolled Steel, 18GA Mounting bracket - Cold rolled Steel, 16GA Fixture Case - Cold rolled Steel, 24GA

CERTIFICATIONS

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

Chicago plenum - City of Chicago approved (CCEA) when specified with CP installation type option.

IC rated - Suitable for direct contact with insulation when specified with IC or CP installation type options.

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.

