

CLUSTER

PENDANT LINEAR WALL WASH

DESCRIPTION

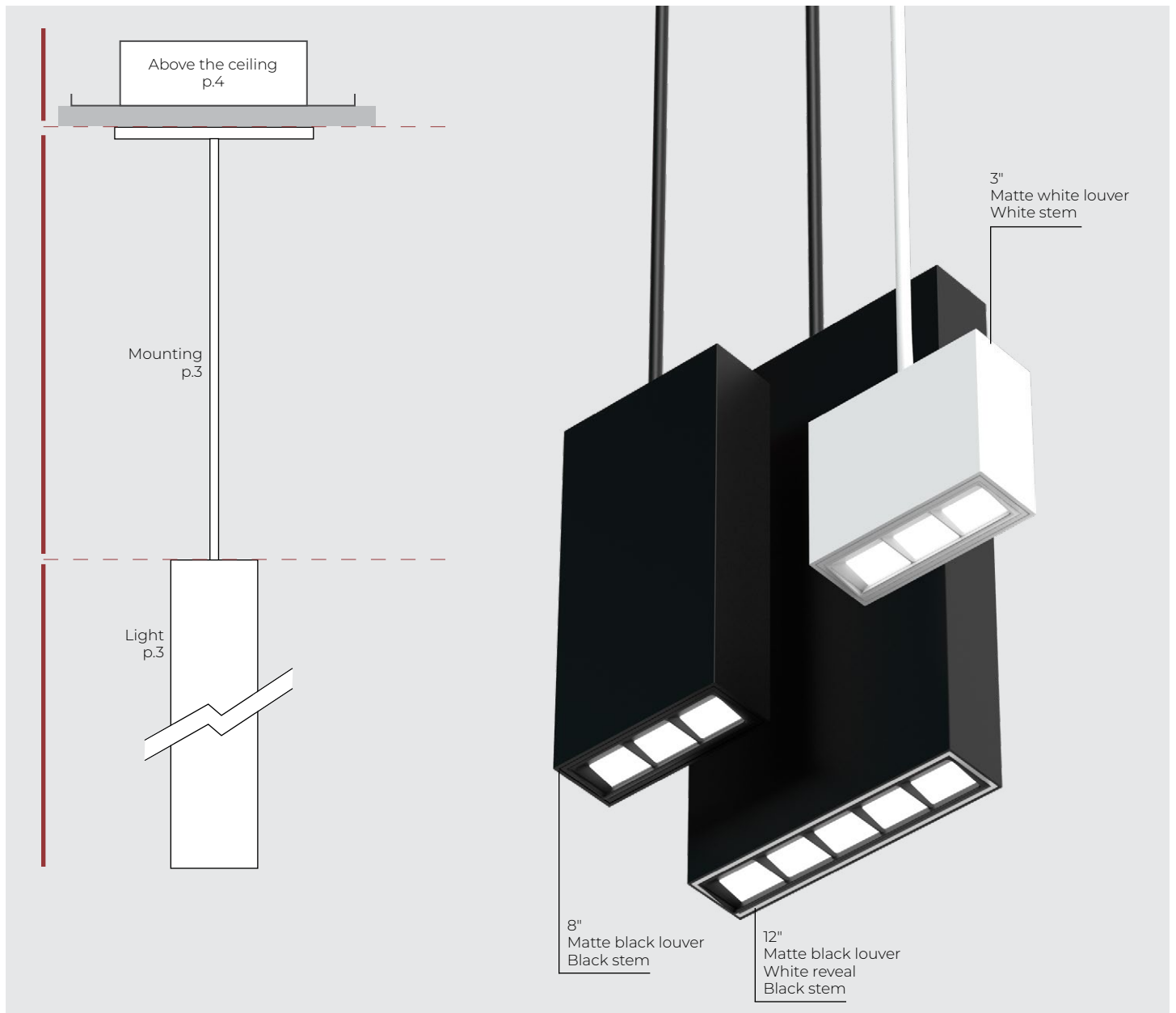
Cluster is the precise, and scalable family of downlights, wall washers, and adjustables, available in both linear and planar configurations and for recessed, pendant, and surface mounting. Based on a fundamental 1.2" square cell, Cluster delivers lighting that is optically sophisticated and aesthetically refined. Cluster pendant linear wall wash is available in 3 cell, and 5 cell configurations. The diffusion film optics deliver remarkably smooth and uniform vertical illumination. Nominal light output of 400 or 800 lumens. Surface linear wall wash fit a choice of 3", 8" or 12" deep cuboid enclosures. Pendant Cluster can be suspended using stems. A canopy for conduit connection is available. Driver is either integral or remote, which is capable of powering multiple luminaires.

LUMENWERX

PROJECT: _____

TYPE: _____

NOTES: _____



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LUMENWERX

LIGHT + MOUNTING

Consult page 3 for details before specifying

LUMINAIRE ID	CUBOID HEIGHT	CUBOID FINISH	LOUVER FINISH	REVEAL FINISH
CLUP03 - Cluster Pendant 3x1 CLUP05 - Cluster Pendant 5x1	3 - 3" 8 - 8" 12 - 12"	TMW - Textured matte white TMB - Textured matte black CF# - Custom finish, specify RAL#	MF01 - Matte white MF04 - Matte black	TMW - Textured matte white TMB - Textured matte black CF# - Custom finish, specify RAL#

SW	WRO	90					
LIGHT SOURCE	OPTIC	CRI	COLOR TEMP.	DRIVER	VOLTAGE	LUMEN PACKAGE ¹	DIMMING
SW - Static white	WRO - Wall Wash	90 - 90 CRI	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	INTEGRAL	120 - 120V 277 - 277V	400 - 400 lm (CLUP03) 800 - 800 lm (CLUP05) ¹ Lumen packages shown at 3500K, with WRO. For other, see lumen output multipliers on page 5.	D1 - 1% 0-10V ELV ² - ELV 120V TRI ² - TRIAC 120V ² Available with 120V only.
				REMOTE	FOR FULL REMOTE DRIVER SPECIFICATION, SEE "REMOTE DRIVER" SECTION BELOW.		

CANOPY TYPE	CANOPY FINISH	HANGER	
REG ³ - 4" octagonal junction box INT ⁴ - Integral driver on junction box CD ⁵ - Conduit box	TMW - Textured matte white TMB - Textured matte black CF# - Custom finish, specify RAL#	STEM ⁶ WHS - Textured white stem BKS - Textured black stem ⁶ Min 18" - max 48".	LENGTH #IN - Length in inches
³ Available with remote driver only. ⁴ Available with integral driver only. ⁵ Available with remote and integral driver.			

REMOTE DRIVER OPTIONAL

Consult page 4 for details before specifying

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

REMOTE DRIVER ⁷	LUM. QTY. ⁸	LUM. ID	VOLTAGE	LUMEN PACKAGES ^{9,10}	DIMMING ¹¹
RDB# - Remote driver ⁷ If multiple driver boxes needed, specify a line number for each driver type used. (e.g. RDB1-4X-CLUP03-...-RD1 RDB2-2X-CLUP03-...-RD1 ...)	#X - Number of luminaires ⁸ Specify number of luminaires per remote driver. (e.g. 3X)	CLUP03 - Cluster Pendant 3x1 CLUP05 - Cluster Pendant 5x1	120 - 120V 277 - 277V UNV - 120V-277V	### - Low 100 lm - Med 250 lm - High 400 lm (CLUP03) ### - Low 200 lm - Med 500 lm - High 800 lm (CLUP05) ⁹ 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. ¹⁰ Low and medium lumen packages are not available with RELV and RTRI dimming options.	RD1 - 1% 0-10V RELV ¹² - ELV 120V RTRI ¹² - TRIAC 120V RDA ¹³ - DALI RLTEA2W ¹² - Lutron 1% - 2 wire FP 120V RLDE1 ¹³ - Lutron Hi-lume 1% Eco ¹¹ For configurations involving different cluster sizes on a remote driver, please consult factory. ¹² Available with 120V only. ¹³ On-site commissioning is required.

EXAMPLE ORDER CODES

WHEN SPECIFYING WITH INTEGRAL DRIVER	
LIGHT + MOUNTING	CLUP03-3-TMW-MF01-TMW-SW-WRO-90-35-INTEGRAL-120-400-D1-REG-TMW-BKS-18IN
REMOTE DRIVER	N/A

WHEN SPECIFYING WITH REMOTE DRIVER ¹⁴	
LIGHT + MOUNTING	CLUP03-3-TMW-MF01-TMW-SW-WRO-90-35-REMOTE-REG-TMW-BKS-18IN
REMOTE DRIVER	Remote driver 1: RDB1-6X-CLUP03-120-250-RD1 Remote driver 2: RDB2-2X-CLUP03-120-250-RD1

¹⁴ When specifying with multiple remote driver boxes, each driver used needs to be on a separate line and be numbered for the ordering codes.

CLUSTER

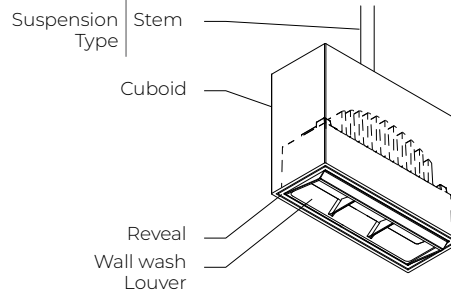
PENDANT LINEAR WALL WASH

LUMENWERX

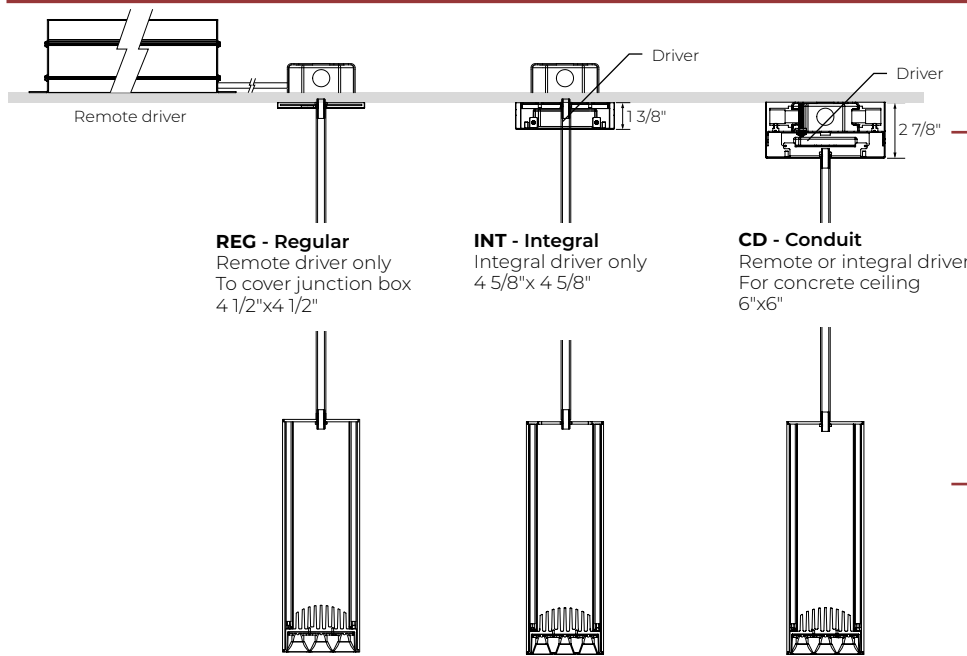
LIGHT

LOUVER FINISH

Louver is injection-molded with integral texture and color



MOUNTING ¹



CANOPY

Regular **REG**
Integral **INT**
Conduit **CD**

Finish

Textured matte white **TMW**
Textured matte black **TMB**
Custom finish **CF#**

HANGER

Stem
Textured white stem **WHS**
Textured black stem **BKS**

Stem
Min 18" - max 48"
#IN specify length ²

¹ Canopies can be specified with any suspension type. Not interchangeable on site.

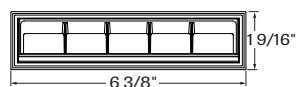
² To specify, replace # with requested length. (e.g. 18IN)

BOTTOM VIEW

CLUP03

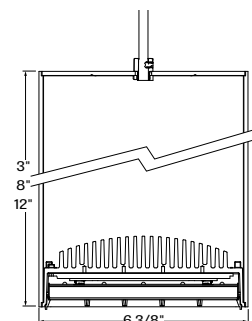


CLUP05

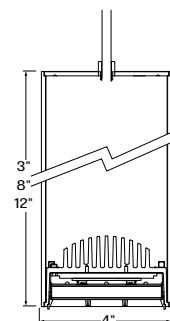


CROSS SECTION

CLUP05



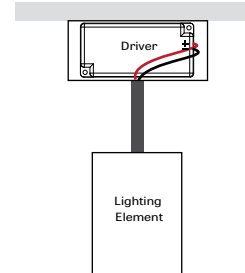
CLUP03



DRIVER

INTEGRAL CANOPY DRIVER

The integral driver is sized to the lighting unit and is connected directly with Class 2 wiring and quick-splice connectors. The driver is accessible for service through the canopy.



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
CLUP03	400 lm	6.35 W	63 lm/W
CLUP05	800 lm	12.7 W	63 lm/W

LUMEN PACKAGE	VOLTAGE	INTEGRAL DRIVER
Use the multiplier tables to calculate the lumen package	120 - 120V 277 - 277V	D1 - 1% 0-10V ELV ¹ - ELV 120V TRI ¹ - TRIAC 120V ¹ Available with 120V only.

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

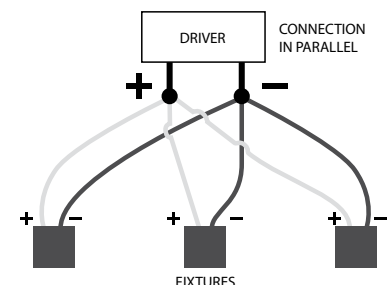
LUMINAIRE ID	LUMEN PACKAGE ²			VOLTAGE	REMOTE DRIVER	NUMBER OF LIGHTING UNITS PER DRIVER
CLUP03 CLUP05	LOW 100 lm 200 lm	MEDIUM 250 lm 500 lm	HIGH 400 lm 800 lm	120 - 120V 277 - 277V UNV - 120V-277V	RD1 - 1% 0-10V RELV ³ - ELV 120V RTRI ³ - TRIAC 120V RDA ⁴ - DALI RLTEA2W ³ - Lutron 1% - 2 wire FP 120V 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 on a remote driver, please consult factory.

¹ Watts 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	CLUP03	CLUP05
D1 - 1% 0-10V	2-12	1-6
ELV - ELV 120V	1-4	1
TRI - TRIAC 120V	1-4	1
DA - DALI	3-12	2-6
LTEA2W - Lutron 1% - 2 wire FP 120V	2-6	1-3
LDE1 - Lutron Hi-lume 1% Eco	2-11	1-6

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

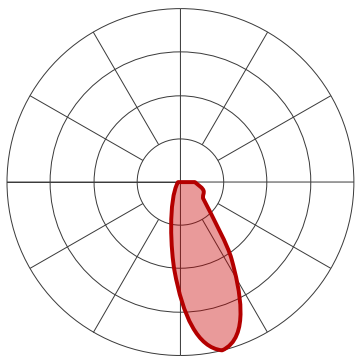


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LUMENWERX


WALL WASH





VERTICAL ILLUMINANCE


CLU03C-WW-SB-LED-90-400LMS-35				
FC on Wall				
Distance from Ceiling	1'	20	19	20
	2'	24	24	24
	3'	24	24	24
	4'	19	19	19
	5'	14	14	14
	6'	10	10	10
	7'	9	9	9
	8'	7	7	7

CLU05C-WW-SB-LED-90-800LMS-35				
FC on Wall				
Distance from Ceiling	1'	40	38	40
	2'	48	48	48
	3'	48	48	48
	4'	37	37	37
	5'	28	28	28
	6'	21	21	21
	7'	17	17	17
	8'	15	14	15

CLU03C-WW-SB-LED-90-400LMS-35				
FC on Wall				
Distance from Ceiling	1'	10	9	10
	2'	11	11	11
	3'	13	12	13
	4'	12	12	12
	5'	10	10	10
	6'	8	8	8
	7'	6	6	6
	8'	5	5	5

CLU05C-WW-SB-LED-90-800LMS-35				
FC on Wall				
Distance from Ceiling	1'	21	17	21
	2'	23	21	23
	3'	25	25	25
	4'	24	24	24
	5'	20	20	20
	6'	15	16	15
	7'	12	12	12
	8'	11	11	11

CLU03C-WW-SB-LED-90-400LMS-35				
FC on Wall				
Distance from Ceiling	1'	8	7	8
	2'	9	8	9
	3'	10	10	10
	4'	10	10	10
	5'	10	10	10
	6'	8	8	8
	7'	7	7	7
	8'	6	6	6

CLU05C-WW-SB-LED-90-800LMS-35				
FC on Wall				
Distance from Ceiling	1'	16	15	16
	2'	17	17	17
	3'	19	19	19
	4'	20	20	20
	5'	19	19	19
	6'	17	17	17
	7'	14	14	14
	8'	12	12	12



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OPTIC

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 mid-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		CUBOID 3"		CUBOID 8"		CUBOID 12"	
	Lb	Kg	Lb	Kg	Lb	Kg	Lb	Kg
CLUP03WRO	0.70	0.30	0.36	0.16	0.87	0.39	1.27	0.58
CLUP05WRO	1.10	0.50	0.85	0.38	2.09	0.95	3.08	1.40

LUMENWERX

CONSTRUCTION

Housing - Die-cast aluminum (0.95" nominal)

Optics - Polycarbonate

Cuboid - Aluminum extrusion

Cover pendant - 18 gauge aluminum sheet

Extension bar - Galvanized steel

CERTIFICATIONS

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.