CLUSTERS RECESSED WALL WASH COMBINATIONS





PROJECT:

TYPE:

NOTES:

DESCRIPTION

Cluster Combinations integrate the Cluster lighting elements into a 1.5" wide x 3.75" high aluminum channel, creating endless

possibilities for visually interesting lighting. Wall

wash optics in 3-, 5-, or 10-cell configurations and multiple finishes can be arranged in continuous rows or separated by diffusers for general lighting or by blank covers. All LED's used in the combination have consistent color characteristics.

Channel modules are available from 4' to 12' in 1' increments, can be neatly connected together, and install in accessible grid ceilings. All drivers are mounted in the channel. For configurations other than those shown here, please consult the factory.

We require a drawing illustrating the combination you would like to order - anything from a simple line drawing to elaborate architectural drawings. Enter the required **TOTAL LUMINAIRE LENGTH**, CRI, Lumens, Color Temperature and Voltage.

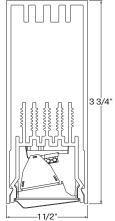
				Con	sult pages 2-5	for details before specifyin	
GENERAL SPECIFICATIONS CODE:							
Luminaire ID	Total Luminaire Ler	ngth (MIN 4')	Light Source	CRI 90	Color Temp	Voltage	
WRO					SW		
OPTICS L		LOUVER F	INISH		LIGHT SOU	JRCE	
WRO - Wall Wash		MF01 - Mat MF04 - Ma			SW - Static	white	

OPTICS LIST CODE:								
CLUSTER OPTIONS	Ouanti	Quantity (for actual		Lumen Package Per Unit				
		s size see pa			LOW	MED	HIGH	
CLU03 - Clusters 1x3				In	n 100 lm	250 lm	400 lm	
CLU05 - Clusters 1x5				In	n 200 lm	500 lm	800 lm	
CLU10 - Clusters 1x10				In	n 300 lm	750 lm	1200 lm	
CONFIGURATION OPTIONS	Optic	Length						
*HLO - High-Efficiency Lamb	ertian Optic	FT		l li	n/ft	350 lm-750	lm	
**BLA - Blank		FT	IN	No minin	num lengtł	٦		
IMPORTANT								
*HLO & CLUSTER CONFIGURATION	ONS **BL/	ANK & CLUS	STER CONFI	GURATION:	5			

1) Minimum individual section 4'

2) Minimum distance between Clusters is 2'

CROSS SECTION



ALL OTHER PARTS OF THE CODE:

3) Minimum distance between Clusters is 3'

1) Minimum individual section 4'

2) Specify in increments of 1'

DRIVER	ELECTRICAL	MOUNTING	FINISH
D1 - 1% O-10V	1 - 1 circuit	TG9 - Tegular 9/16"	W - Matte white
DA ¹ - DALI	2 - 2 circuits	TG15 - Tegular 15/16"	B - Matte black
LTEA2W ² - Lutron 1% - 2 wire FP 120V	+#EM - Emergency light circuit	TB9 - T-bar 9/16"	CF# - Custom
LDE1 ¹ - Lutron Hi-lume 1% Eco	+#NL - Night light circuit	TB15 - T-bar 15/16"	finish, specify RAL#
		ST - Screw slot t-bar	
¹ On-site commissioning is required.		DTR - Drywall trim	
² Available with 120V only.		DTL - Drywall trimless	
		DMF - Drywall mud flange	

CLUSTERS-WALLWASH-COMBO-RECESSED-DIRECT-SPEC-REV2

September 12, 2022



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RECESSED WALL WASH COMBINATIONS

LUMENWERX



AVAILABLE CLUSTER SIZES



CONFIGURATION WITH CLUSTER DOWNLIGHTS (HLO & BLANK)

Configuration A - OPTIC CODE: 2xCLU05 - 1x CLU10 - HLO6FT

0000				0000
-CLU05-	HLO 3'	CLU10	HLO 3'	

Configuration B - OPTIC CODE: 3xCLU05 -BLA4FT

	BLA 24"		BLA 24"	
Configuration	C - OPTIC CODE: 3xC	LU03 - HLO6FT		
sonniguration				
			000	

Configuration D - OPTIC CODE: 3xCLU05 - HL06FT - BLA4IN

BLA 2"	——HLO 36"————	 HLO 36"	BLA2"

LIGHT



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OPTICS

Wall Wash Refractive Optic (WRO) - Clusters

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.

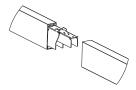
LIGHT SOURCE

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 2 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.

LUMINAIRE LENGTH

Cluster combinations is made up of standard 4, 8 and 12 foot sections that may be joined together to create longer continuous run lengths. Exact run length must be noted in the product code. The minimum individual section available is 4 foot.

All individual sections are joined together onsite using the joiner kits provided. Lumenwerx offers joiner kits that are extremely simple to work with in the field and result in a fixture that appears virtually seamless with no light leak at any connection.



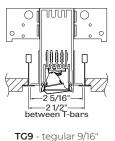
Joining system

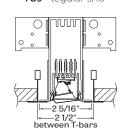
ELECTRICAL

Factory-set, adjustable output current LED driver with universal (120-277VAC) input. Dimmable from 100% to 1% with 0-10V dimming control. Rated life (90% survivorship) of 50,000 hours at 50°C max. ambient (and 70°C max. case) temperature. At maximum driver load: Efficiency>84%, PF>0.9, THD<20%. Other specifiable options include Lutron Hi-Lume 1% (specify 2-wire, or Ecosystem Dim-to-Off), and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant.

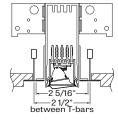
MOUNTING OPTIONS

Recessed fixtures can be mounted into exposed or concealed T-Bar or Tegular grid ceiling.

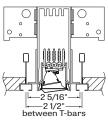




TB15 - t-bar 15/16"



TG15 - tegular 15/16"



ST - screw slot t-bar

e c 5/16" → e 2 5/16" → between T-bars

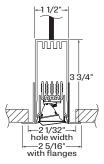
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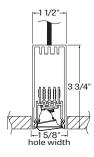
LUMENWERX

TB9 - t-bar 9/16"

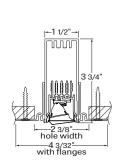
Mounting options for drywall ceilings are available with visible trim, mud flange trim or trimless.



DTR - drywall trim



DTL - drywall trimless



DMF - drywall mud flange

FINISH

Interior - 95%, reflective matte powder coated white paint Exterior - Matte white or matte black powder coating Louver - Reflective white or reflective black



CLUSTERS-WALLWASH-COMBO-RECESSED-DIRECT-SPEC-REV2

September 12, 2022

RECESSED WALL WASH COMBINATIONS



CONSTRUCTION

Housing - Extruded aluminum (0.095" nominal) up to 90% recycled content **Interior channel** - Extruded aluminum (0.095" nominal) up to 90% recycled content

Joining system - 16 gauge galvanized sheet metal Mud flange - Extruded aluminum (0.075" nominal) up to 90% recycled content Slip-through bracket - Die-formed galvanized sheet 18 gauge End plate - Die-formed cold rolled sheet steel 18 gauge thick Louver optics - Polycarbonate

CERTIFICATIONS

ETL - Rated for indoor dry/damp locations. Conforms to UL Standard 1598 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.

DRIVER

The 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.

LUMEN PACKAGE¹ (AT 3500K)

LUMINAIRE ID	LUMEN	PACKAGE		VOLTAGE	DRIVER	NUMBER OF LIGHTING UNITS PER DRIVER
	LOW	MEDIUM	HIGH	120 - 120V	D1 - 1% 0-10V	See table below for maximum and minimum
CLU03WRO	100 lm	250 lm	400 lm	277 - 277∨	DA ² - DALI	possible number of lighting units per each
CLU05WRO	200 lm	500 lm	800 lm	UNV -	LTEA2W ³ - Lutron 1% - 2 wire FP 120V	driver.
CLU10WRO	300 lm	750 lm	1200 lm	120V-277V	LDE1 ² - Lutron Hi-lume 1% Eco	
					² On-site commissioning is required. ³ Available with 120V only.	

¹ 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

NUMBER OF LIGHTING UNITS PER DRIVER - MINIMUM AND MAXIMUM

DRIVER TYPE	CLU03WRO	CLU05WRO	CLU10WRO
D1 - 1% O-10V	2-13	1-6	1-3
DA - DALI	3-13	2-6	1-3
LTEA2W - Lutron 1% - 2 wire FP 120V	2-7	1-3	1-2
LDE1 - Lutron Hi-lume 1% Eco	2-13	1-6	1-4

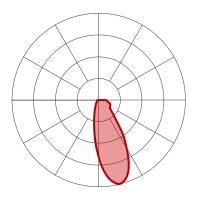
For any quantities of lighting units per driver that fall outside the minimum and maximum listed above, please consult factory.



RECESSED WALL WASH COMBINATIONS

LUMENWERX

WALL WASH



VERTICAL ILLUMINANCE

CLU03C-WW-SB-LED-90-400LMS-35						
FC o	n Wall			24"		
D	יר	20	19	20		
ili	2'	24	24	24		
ů	3'	24	24	24		
Ę	4'	19	19	19		
e fr	5'	14	14	14		
anc	6'	10	10	10		
Distance from Ceiling	7'	9	9	9		
	8'	7	7	7		

CLU03C-WW-SB-LED-90-400LMS-35						
FC o	n Wall		36"	24"		
ຉ	ין	10	9	10		
Distance from Ceiling	2'	11	11	11		
ပိ	3'	13	12	13		
Eo	4'	12	12	12		
efr	5'	10	10	10		
anc	6'	8	8	8		
lista	7'	6	6	6		
0	8'	5	5	5		

CLU03C-WW-SB-LED-90-400LMS-35						
FC on Wall			30"			
D	ין	8	7	8		
Distance from Ceiling	2'	9	8	9		
ပိ	3'	10	10	10		
E.	4'	10	10	10		
efr	5'	10	10	10		
anc	6'	8	8	8		
lista	7'	7	7	7		
	8'	6	6	6		

CL	CLU05C-WW-SB-LED-90-800LMS-35					
FC o	n Wall		24"			
D	יר	40	38	40		
ili	2'	48	48	48		
ů	3'	48	48	48		
E	4'	37	37	37		
e fr	5'	28	28	28		
anc	6'	21	21	21		
Distance from Ceiling	7'	17	17	17		
	8'	15	14	15		

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

CLU05C-WW-SB-LED-90-800LMS-35					
FC on Wall					
D	יר	16	15	16	
ili	2'	17	17	17	
ပိ	3'	19	19	19	
Eo	4'	20	20	20	
e fr	5'	19	19	19	
anc	6'	17	17	17	
Distance from Ceiling	7'	14	14	14	
	8'	12	12	12	

CLU10C-WW-SB-LED-90-1200LMS-35					
FC on Wall					
ຉ	יך	59	57	59	
ili	2'	72	71	72	
ů	3'	71	71	71	
E	4'	55	55	55	
e fr	5'	40	40	40	
anc	6'	30	30	30	
Distance from Ceiling	7'	24	24	24	
	8'	20	20	20	

CL	CLU10C-WW-SB-LED-90-1200LMS-35				
FC on Wall					
D	יך	31	26	31	
Ceiling	2'	34	32	34	
	3'	38	37	38	
E	4'	36	35	36	
efr	5'	29	29	29	
anc	6'	23	23	23	
Distance from	7'	19	19	19	
	8'	16	16	16	

CLU10C-WW-SB-LED-90-1200LMS-35				
FC on Wall		30"		
D	יך	24	22	24
ili	2'	26	25	26
ပီ	3'	29	28	29
E.	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



CLUSTERS-WALLWASH-COMBO-RECESSED-DIRECT-SPEC-REV2

September 12, 2022