

Cluster Family (Refer to other spec sheets)

Recessed, Wood Slat Recessed Adjustable Downlight Parabolic Wall Wash



Parabolic Wall Wash

Pendant

Combo





Parabolic Downlight

Wall Wash



Blank Downlight Parabolic

3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9 T (514) 225-4304 F (514) 931 -4862 www.lumenwerx.com

Intertek

Lumenwerx reserves the right to modify product specifications without notification. © Lumenwerx, ULC. All rights reserved. CLUSTER-SURFACE-SPEC-REV6 January 6, 2025

# ILISTE SURFACE



Project:

Type:

### Order Guide

CLU01S - Cluster 1x1 Surface CLU03S - Cluster 3x1 Surface CLU03S - Cluster 5x1 Surface CLU05S - Cluster 5x1 Surface CLU22S - Cluster 2x2 Surface CLU33S - Cluster 3x3 Surface		с	<b>8IN</b> - 8"		CUBOID FINISH FTMW - Textured matte white FTMB - Textured matte black CF# - Custom finish, specify RAL#		SQR - Square N HYP - Hyperbolic N		LOUVER	LOUVER FINISH		
		81 12 10							MF01 - Matte white MF04 - Matte black BL05 - Black chrome			
REVEAL FINIS	SH		LIGHT SOURCE OPTIC			BEAM		CRI		CRI		COLOR TEMP.
			SW							90CR	I	
FTMW - Textured matte white FTMB - Textured matte black CF# - Custom finish, specify RAL#		ite <b>SW</b> - Static white		SOF - Soft edge downlight		SOF	REF		90CRI - 90 CRI		<b>27K</b> - 2700K	
		L#			F		NFL - Narrow flood FLD - Flood WFL - Wide flood	d SPT - Spot FLD - Flood WFL - Wide flood		_		30K - 3000K 35K - 3500K 40K - 4000K 50K - 5000K
DRIVER VOLTAGE		LUM	UMEN PACKAGE <sup>3</sup>		DIMMING		CANOPY TYPE <sup>5</sup>			CANOPY FINISH Specify NA for DMRM		
INTEGRAL <sup>2</sup>	<b>120V</b> - 120V <b>277V</b> - 277V <b>UNV</b> - 120V-277V	1x1	<b>200LM</b> - 200 lm		<u>]x1</u> ND - N	lo d	imming		FLS - Flat square canopy, 4"		FTMW - Textured matte white	
<sup>2</sup> Not available with 3" cuboid		3x1	<b>578LM</b> - 578 lm <b>923LM</b> - 923 lm		<u>3x1 - 3x3</u> <b>D1</b> - 1% 0-1		U U	CDRE <sup>6</sup> - Conduit feed, rectangular canopy DMRM <sup>6,7</sup> - Direct mount,			CF# - Custom finish, specify RAL# NA - Not applicable	
height.		2x2	811LM - 811 lm							nt,		
		3x3	1743LM - 1743 lm	ELV <sup>4</sup> - EL <sup>4</sup>		Terrioder						
			ا umen packages shown at 3500K, with SOF-NFL 25 or other, see lumen output multipliers on page 5.					<sup>5</sup> See page 4 for details. <sup>6</sup> Not available with 1x1. <sup>7</sup> Single wiring entry only. No daisy				
REMOTE		DO NOT SPECIFY FOR REMOTE. SEE "REMOTE DRIVER BOX" SECTION E						chain connections allowed. May be installed as new construction but without a j-box.				

### REMOTE DRIVER BOX

Ordered separately. Specify each required remote driver box on a separate line. REMOTE DRIVER <sup>®</sup> LUMINAIRE LUMINAIRE ID LUMEN PACKAGE 10 VOLTAGE DIMMING <sup>11</sup> QTY. <sup>s</sup> RDB# -**#X** - Number of CLU01S - Cluster **120V** - 120V 1 ow Medium High **RD1** - 1% 0-10V Remote luminaires **277∨** - 277∨ **RELV 12, 13** - ELV 120V 1x1 Surface 1x1 50LM - 50 lm 125LM - 125 lm 200LM - 200 lm driver box UNV -RTRI 12, 13 - TRIAC 120V CLU03S - Cluster <sup>9</sup>Specify number 3x1 145LM - 145 lm 362LM - 362 lm 578LM - 578 lm 120V-277V RDA 14 - DALI 3x1 Surface (#) of luminaires <sup>8</sup>Specify an RLDE1 14 - Lutron Hi-lume 1% Eco 5x1 230LM - 230 lm 577LM - 577 lm 923LM - 923 lm CLU05S - Cluster RDB number per remote driver. RELDI - eldoLED 1% ECOdrive 0-10V (#) for each See page 4 for 5x1 Surface 2x2 203LM - 203 lm **507LM** - 507 lm 811LM - 811 lm RELDO - eldoLED 0.1% SOLOdrive 0-10V minimum and reauired CLU22S - Cluster maximum per **436LM** - 436 lm 1089LM - 1089 lm 1743LM - 1743 lm remote driver 3x3 <sup>11</sup> For configurations involving different Cluster sizes 2x2 Surface box. driver. <sup>10</sup> Watts and lumen per watts will vary based on the number of lighting on a remote driver, please consult factory. CLU33S - Cluster <sup>2</sup>Available with 120V only. units per remote driver as well as on the type of driver selected. 3x3 Surface <sup>13</sup>Only available with high lumen packages. <sup>14</sup>On-site commissioning is required.

### EXAMPLE

LIGHT	CLU01S-8IN-FTMW-HYP-MF01-FTMW-SW-SOF-NFL-90CRI-35K-II	REMOTE DRIVER	N/A		
LIGHT	CLU01S-3IN-FTMW-HYP-MF01-FTMW-SW-SOF-NFL-90CRI-35K-R	REMOTE DRIVER	RDB1-10X-CLU01S-120V-125LM-RD1 RDB2-8X-CLU01S-120V-125LM-RD1		
	3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9 T (514) 225-4304 F (514) 931 -4862	(I)	Lumenwerx reserves product specification	0	

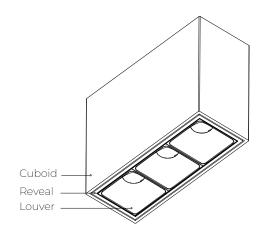


www.lumenwerx.com





### Overview







SQR - Square

HYP - Hyperbolic

3x1



5x1

LOUVER FINISHES

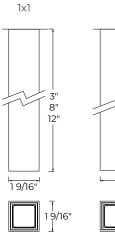
MF04 - Matte black

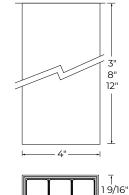
Louver is injection molded with integral texture and color.

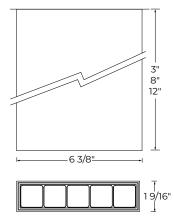


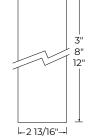
BL05 - Black chrome

### Dimensions





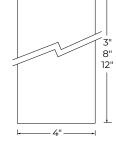




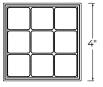
2x2







3x3



3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9 T (514) 225-4304 F (514) 931 -4862 www.lumenwerx.com



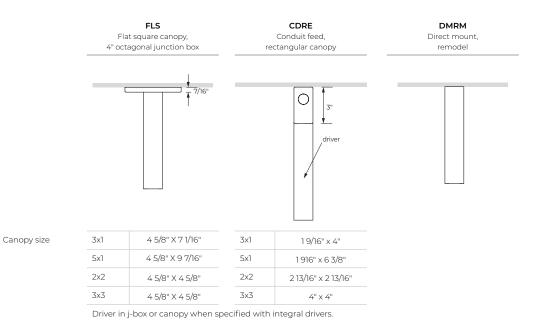
Lumenwerx reserves the right to modify product specifications without notification. © Lumenwerx, ULC. All rights reserved. CLUSTER-SURFACE-SPEC-REV6 January 6, 2025

3/6





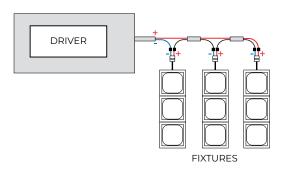
### Mounting



### 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 SERIES



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

DRIVER	lxl	3x1	5x1	2x2	3x3
RDI	4-34	2-10	1-6	1-8	1-3
RELV	10-18	4-6	2-3	3-4	1
RTRI	10-18	4-6	2-3	3-4	1
RDA	2-34	1-10	1-6	1-8	1-3
RLDE1	8-16	3-5	2-3	2-4	1
RELD1	2-34	1-10	1-6	1-8	1-3
RELDO	2-34	1-10	1-6	1-8	1-3

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





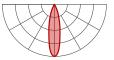




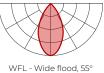
### Photometrics

Values calculated based on 3500K, 90 CRI, SOF, and NFL.

### SOF - Soft edge downlight







NFL - Narrow flood, 25°

FLD - Flood, 35°

REF - Sharp edge downlight





SPT - Spot, 15°

MULTIPLIER TABLES

Please follow the multiplier tables to ensure correct lumen value. CCT and optics will change the lumen value.

сст	LPW						
	SOF			REF			
Beam angle	25°	35°	55°	15°	30°	45°	
2700K	0.87	0.92	0.82	0.80	0.84	0.86	
3000K	0.93	0.99	0.87	0.86	0.89	0.92	
3500K	1	1.06	0.94	0.92	0.96	0.99	
4000K	1.03	1.09	0.97	0.95	0.99	1.02	
5000K	1.08	1.14	1.02	0.99	1.04	1.07	

3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9

T (514) 225-4304 F (514) 931 -4862

www.lumenwerx.com

	LM	w	LM/W
1x1	200	3.3	60
3x1	578	7.8	74
5x1	923	11.8	78
2x2	811	10.4	78
3x3	1743	21.5	81



# CLUSTER surface



## Technical Specifications

#### OPTICS

#### Soft edge downlight (SOF)

The Soft edge downlight blends the light into darker areas for a gentle brightness transition. Each LED emitter directs light through a single, custom molded circular optic using total internal reflection (TIR) to shape the light. A 0.5" reflective square louver provides a cut off with a UGR of 10. Three different TIR elements create a choice of beam spread: 25° narrow flood (NFL), 35° flood (FLD), or 55° wide flood (WFL).



#### Shown with 25°

#### Sharp edge downlight (REF)

The Sharp edge downlight creates dramatic impact, limiting the spread of light outside of the primary beam. A molded conical reflector redirects light from each emitter into the desired beam angle. A 0.5" reflective square louver provides a cut off with a UGR of 10. Three different TIR elements create a choice of beam spread: 15° spot (SPT), 30° flood (FLD), or 45° wide flood (WFL).



Shown with 15°

#### 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%. Integral: 0-10V, ELV, TRIAC

**Remote**: 0-10V, ELV, TRIAC, Lutron Hi-Lume 1% EcoSystem, DALI, eldoLED 0.1% SOLOdrive 0-10V, eldoLED 1% ECOdrive 0-10V

### ΡοΕ

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.

### WEIGHT

	3	5'	٤	3'	12'		
	lb	kg	lb	kg	lb	kg	
1x1	0.75	0.31	1.12	0.48	1.42	0.62	
3x1	1.06	0.46	1.57	0.69	1.97	0.88	
5x1	1.95	0.88	3.19	1.45	4.18	1.9	
2x2	1.08	0.47	1.57	0.7	1.97	0.88	
3x3	1.65	0.75	2.27	1.03	2.77	1.26	

### CONSTRUCTION

Housing: Die-cast aluminum (0.95" nominal) Optics: Polycarbonate Cuboid: Extruded aluminum Cover surface: Galvanized steel metal Extension bar: Galvanized steel metal

### 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. Declare: LBC Red List Approved

### 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.

