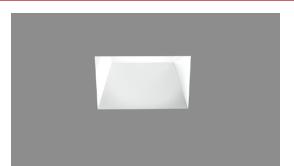


Fixed/Adjustable

# LUMENWERX

Project:	
	-
Туре:	



Trimless



Trim

Voila 2" square downlights feature innovative Hyflex™ optics for precise beam control. Shallow construction requires only 4" recess depth. Driver can be replaced through 2" aperture. The Voila COB source with 90 CRI and 2-step color consistency matches other Lumenwerx luminaires, and is available in Chromawerx SOLA (dim-to-warm) and DUO (tunable white). Complete Voila offering includes 2" and 4" apertures; downlights, adjustables, and wall washers; round and square trim; and cylinders; see separate specifications.

### Performance

LUMEN OUTPUT 1	WATTS	EFFICACY LM/W
797 lm	7 W	114 lm/W
982 lm	10 W	98 lm/W
1191 lm	14 W	85 lm/W

 $<sup>^{\</sup>rm I}\,{\rm Lumens}$  packages are assuming 3500K, 80 CRI, 30° beam, square white baffle

Delivered Lumens for Round White Standard Baffles at 35K

CRI		90 CRI								
BEAM	10	20	30	40	50	60	75	90		
Low - 7 W	496	487	822	795	785	730	684	656		
Medium - 9.8 W	641	630	1012	978	966	898	841	807		
High - 13.8 W	828	814	1228	1187	1173	1090	1021	980		









### Aperture Size

2.00"

### Configurations







Fixed, adjustable & wall wash (see other spec sheets for all the configurations)

### Baffle Depth





Standard 0.52" Deep 1.06"

### Trim





Trim & Trimless

### Baffle & Trim Flange Finishes



### Color Temperature

Color remperature	
2700K	
3000K	
3500K	
4000K	
SOLA	C
DUO	

Delivered 471-1191 lm 7-14 Watts, up to 114 lm/W

### Integral Drivers

0-10V, TRIAC & ELV

### Remote Drivers

Lutron, eldoLED and other drivers Remote emergency battery pack





Project:	
Type:	

# 1 - Housing (Example: VO2SR-TRM-SW-OF-ASB-120-7W-DI)

Product Specification

LUMINAIRE ID	TRIM STYLE	LIGHT SOURCE	INSTALLATION TYPE	MOUNTING OPTION	VOLTAGE	WATTAGE (80 CRI) <sup>2</sup>	DIMMING		
VO2SR									
VO2SR - Voila 2" Square Recessed	TRM - Flanged trim TLMP - Trimless drywall mudplate TLMW - Trimless millwork		OF - Open frame type non-IC IC - IC rated CP - Chicago Plenum type-IC (CCEA)	ACB - Adjustable commercial bar hangers (grid and drywall) ASB - Adjustable standard bar hangers (grid and drywall) FMB - Flush mount bars (drywall only)	120 - 120V UNV - 120V-277V 347 1 - 347V 1 Available with remote 0-10V dimming options RD1 and RSD1 only. Consult	7W - Low output 471-797 lm 10W - Medium output 608-982 lm 14W - High output 786-1191 lm <sup>2</sup> For delivered lumens and other CRI, see multiplier tables on page 3.	INTEGRAL D1 - 1% 0-10V ELV 3 - ELV 120V TRI 3 - TRIAC 120V  3Available with 120V only.	REMOTE  RD1 - 1% 0-10V  RELV 4 - ELV 120V  RTRI 4 - TRIAC 120V  RLDE1 5 - Lutron Hi-lume 1%  Eco  RDA 5 - DALI  RELD0 - eldoLED 0.1%  RELD1 - eldoLED 1%  4 Available with 120V only. 5 On-site commissioning is required.	+EB <sup>6</sup> - Emergency battery <sup>6</sup> Specify with remote dimming only. The code will be like the following
		SOLA - Dim-to- warm  DUO - Tunable white		AHC - Adjustable hat channel bars	factory for details.	SOLA 8W - Low output 560 Im (20° only) 13W - High output 740-900 Im (40° and up)  DUO 5W - Low output 300 Im (20° only) 10W - High output 530-640 Im (40° and up)	SOLA SDI - Single 0-10V input	SOLA RSD1 - Single 0-10V input  DUO RDMX <sup>5</sup> - To specify, see pages 7 to 9 RDDA <sup>5</sup> - DALI RDD1 - Dual 0-10V input for CCT/Intensity RLD2 <sup>5</sup> - Lutron DALI-2 digital	example: RDI + EB.

# 2 - Light (Example: VO2-SW-10-2-90-27-LS)

LUMINAIRE ID	LIGHT SOURCE	BEAM	COLOR QUALITY	CRI	COLOR TEMP	OPTION	
VO2							
<b>VO2</b> - Voila 2"	<b>SW</b> - Static white	<b>10</b> - 10° Narrow spot <b>20</b> - 20° Spot	<b>3</b> - 3 Step MacAdam Ellipse (for beam 10°&20°)	<b>90</b> - 90 CRI <b>80</b> - 80 CRI	<b>27</b> - 2700K <b>30</b> - 3000K	LS <sup>9</sup> - Linear spread HEX <sup>910</sup> - Hex	
		30 - 30° Narrow flood 40 - 40° Flood 50- 50° Wide flood 60 - 60° Very wide flood 75 - 75° Very wide flood 90 - 90° Open flood	<b>2</b> - 2 Step MacAdam Ellipse (for beam 30°-90°)	97 - 97 CRI (not available for 3500K, 10° and 20° beam angles)	<b>35</b> - 3500K <b>40</b> - 4000K	louver NA - None <sup>9</sup> Hex louver & linear spread cannot be combined together.	
	SOLA - Dim-to-warm DUO - Tunable white	20 7 - 20° Spot 40 8 - 40° Flood 50 8 - 50° Wide flood 60 8 - 60° Very wide flood 75 8 - 75° Very wide flood 90 8 - 90° Open flood <sup>7</sup> Available with low output only. <sup>8</sup> Available with high output only.	3 - 3 Step MacAdam Ellipse	90 - 90 CRI (SOLA and DUO)	SOLA - Dim-to- warm 35K-22K DUO - Tunable white 27K-65K	10 Not available with 60°/75°/90° beam options.	

# 3 - Baffle (Example: VO2SRB-TRM-SDL-SR-TMW-TMW)

LUMINAIRE ID	TRIM STYLE 11	LENS <sup>11</sup>	BAFFLE POSITION	BAFFLE FINISH 11	TRIM FLANGE FINISH 11
VO2SRB					
VO2SRB - Voila 2" Square Recessed Baffle	TRM - Flanged trim TLMP - Trimless drywall mudplate TLMW - Trimless millwork	SDL - Soft diffused lens FDL - Frosted diffused lens NOL - No lens	SR - Standard regress DR - Deep regress (fixed only)	TMW - Textured matte white TMB - Textured matte black CF# - Custom finish, specify RAL# (e.g. CF1028)	TMW <sup>12</sup> - Textured matte white TMB <sup>12</sup> - Textured matte black CF# <sup>12</sup> - Custom finish, specify RAL# (e.g. CF1028) NA - None <sup>12</sup> Applicable for TRM only.

<sup>11</sup>P44 rated for bathrooms, showers, outdoor canopies and marquees when specified with lens options (SDL, FDL), trim option (TRM), and the same finish for both the baffle and trim.

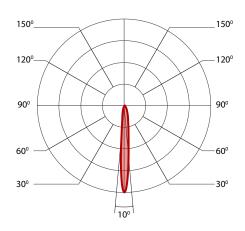


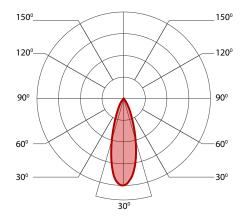


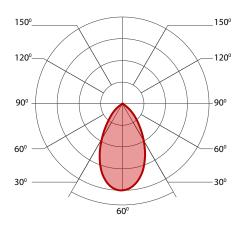
Project:	
Туре:	

# Photometrics

Please follow the multiplier tables to ensure correct lumen value. Beams, baffle color, lensing, CCT, CRI, baffle shape, baffle depth and accessories will change the lumen value.







### Delivered Lumens for Round White Standard Baffles - At 35K

CRI 80 CRI									90 CRI							
BEAM	10	20	30	40	50	60	75	90	10	20	30	40	50	60	75	90
Low - 7 W	537	529	896	869	859	795	748	711	496	487	822	795	785	730	684	656
Medium - 9.8 W	694	683	1103	1068	1057	978	921	876	641	630	1012	978	966	898	841	807
High - 13.8 W	897	883	1338	1297	1283	1187	1118	1062	828	814	1228	1187	1173	1090	1021	980

### Delivered Lumens - At 30K

97 CRI													
10	20	30	40	50	60	75	90						
NA	NA	607	588	675	628	589	564						
NA	NA	870	841	830	771	724	695						
NA	NA	1056	1021	1009	937	878	855						

### Efficacy Based on Delivered Lumens - High 13.8 W

				LP	W			
BEAM	10	20	30	40	50	60	75	90
80 CRI	65	64	97	94	93	86	81	77
90 CRI	60	59	89	86	85	79	74	71
97 CRI	NA	NA	77	74	73	68	64	61

### SOLA and DUO Max Wattage

				90	CRI			
BEAM	10	20	30	40	50	60	75	90
DUO	NA	5	NA	10	10	10	10	10
SOLA	NA	8	NA	13	13	13	13	13

### Multiplier - CCT

сст	
2700K	0.9
3000K	0.95
3500K	1
4000K	1.05

For SOLA and DUO, please consult factory.

### Multiplier - Baffle Color, Shape and Depth

BAFFLE VARIABLES					
White	Round standard	1			
White	Square standard	0.89			
Black	Round standard	0.95			
Black	Square standard 0.87				
White	Round deep 0.96				
White	Square deep	0.85			
Black	Round deep	0.85			
Black	Square deep	0.76			

### Multiplier - Optical Options

).94
).78
0.82

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





Fixed/Adjustable

# LUMENWERX

Project:		
	-	
Type:		

### Technical Specification

**DESCRIPTION** Compact fixed or adjustable 2" downlight with multiple output, color, beam, and dimming options.

**HOUSING CONSTRUCTION** For new construction, 20 gauge powder coated steel. Open frame, type-IC, or Chicago Plenum (CCEA) rated. 18 gauge galvanized steel junction box with ½" trade size knockouts. Adjustable hanger bars and butterfly brackets are included. Hat channel and flush mounted brackets are also available.

Clearance Height: Open frame 4", IC and Chicago Plenum 4"

Ceiling Thickness: Can accommodate 1/2" to 1"

Housing weight: Type-IC/Chicago Plenum -7.5 lbs -3.4 kg

Open Frame - 5.5 lbs -2.5 kg

Ceiling cut out: 3 1/4" for square and round

### FIELD REPLACEABLE LIGHT ELEMENT

**Adjustability:** Hot aiming, lockable, 360° rotation and 30° vertical tilt **LED Module:** Integral COB module. 90C RI and 2 SDCM, standard with options of 80 CRI, or 97 CRI. L80 > 60,000 hours

**Light Output:** From 471-1191 lumens

**HyFlex™ Optics:** Proprietary TIR/reflector with field interchangeable beam smoothing lenses.

bearri sirilooti iirig lerises.

Optical Accessories: Linear spread lens and hex cell louver can

accommodate up to two in the light element.

**Thermal Management:** Cold-forged aluminum heat sink to maximize thermal dissipation.

### **BAFFLE**

Die-cast aluminum retained  $\frac{1}{2}$ " or 1" deep with rare earth magnets. **Trim style options:** Round and square with flanged trim, trimless with mudplate for drywall, or trimless for millwork.

**CHROMAWERX** SOLA (dim-to-warm) and DUO (tunable white). See pages 6 for more information.

### **ELECTRICAL**

Integral: 0-10V, ELV, TRIAC.

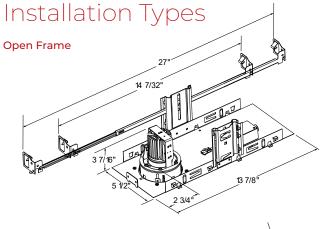
**Remote:** 0-10V, ELV, TRIAC, Lutron Hi-Lume EcoSystem, DALI, eldoLED 0.1%, eldoLED 1%, DMX, Lutron DALI-2 digital.

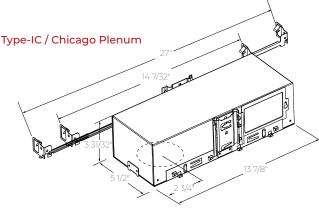
**Emergency Options:** Bodine emergency battery back-up is installed remotely. For 7W or 10W fixtures, battery provides 6W of power. For 14W fixtures, battery provides 10W of power.

**ENVIRONMENT** Ambient temperature at fixture location shall be within 0°C/32°F - 25°C/77°F, indoor dry or damp as well as outdoor damp use (canopies or marquees).

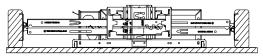
**LISTING** cETLus listed to UL 1598 and CAN/CSA Standard C22.2 No. 250.0. IP44 rated for bathrooms, showers, outdoor canopies, and marquees when specified with lens options (SDL, FDL), trim option (TRM), and the same finish for both the baffle and trim.

**WARRANTY** 5 year limited warranty on LED module and power supply. Guaranteed to maintain 70% lumen maintenance.

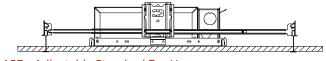




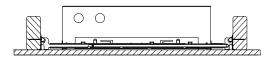
### **Mounting Options**



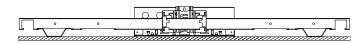
ACB - Adjustable Commercial Bar Hangers



ASB - Adjustable Standard Bar Hangers



FMB - Flush Mount Bars



AHC - Adjustable Hat Channel Bars



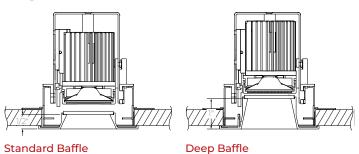


Fixed/Adjustable

# LUMENWERX

Project:	
Туре:	

# Light



# Adjustment Mechanism Flexible Trim Collar

# Heat Sink LED Module Hyflex Optics

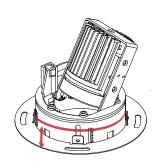
# Optical Accessories (Optional) Linear Spread Hex Louver Retaining Ring

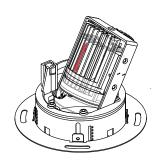




### **Optics**

Hyflex $^{\text{TM}}$  optics provide precise optical control in a remarkably compact form. The core of this four-tier system is a compound reflector with a central TIR element, just 1.06" deep. Beam smoothing discs perfect beam angles up to 90°. Beam angles are easily interchanged in the field.





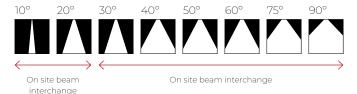
### Adjustability

Adjustable Light Element rotates 360° and tilts up to 30°. Screw thread mechanism provides easy tilt adjustment, fixes the aiming angle, and is accessed by removing aperture trim (see below). Supporting collar allows ceilings from  $\frac{1}{2}$ " to 1" thick.

### Light Source - LED

Compact COB (Chip-On-Board) LED module, available in 2700K, 3000K, 3500K and 4000K with a choice of 80 CRI or 90 CRI with elevated R9 value (for 97 CRI, consult factory). 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.

### Beam Angles



Options





Linear Spread

Hex Louver

Magnetic Snap

Trim and Trimless



Fixed/Adjustable

_U	M	E	N	W	E	R	X
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Project:		
, and the second		
Type:		

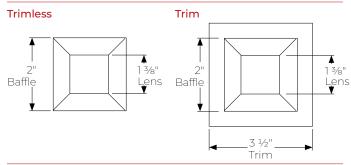
### Integral Driver

Unless otherwise specified, Voila comes standard with an integral, 120-277VAC/60Hz, electronic, 1% 0-10V dimming, constant-current LED driver. The driver is field replaceable and features a high power factor, low THD and sources 1 mA on the 0-10V dim line. All integral drivers are located inside the housing and are easily accessible from below the ceiling through the aperture. All dimming drivers comply with IEEE C62.41 surge protection requirements.

### Emergency Remote

Long-life, high-temperature, emergency LED driver with Lithium Ion battery pack. Features a test switch with charge indicator, minimum of 90 minutes operation. For 7W or 10W fixtures, battery provides 6W of power. For 14W fixtures, battery provides 10W of power. Recharge time of 24 hours.

### Trim Dimensions



# HROMAWERX

Chromawerx Sola is single-channel control that dims output while warming the color temperature in a pre-determined relationship. A simple or analog control adjusts a specially populated LED array to emulate the effect of dimming a filament source.

# HROMAWERX

Chromawerx Duo offers a two-channel control system which uses analog or digital protocols for synchronous control of both warm (2700K) to cool (6500K) LED arrays - maintaining a CRI above 90. The range of color DUO offers is useful for entraining circadian rhythms, stimulating alertness, and compensating for jet lag among other applications. The Chromawerx drivers are programmed to limit maximum light output and power usage across all color temperatures.

# Baffle



Standard Regress



Deep Regress

### Trimless





Black Baffle





White Baffle

### Trim





White Baffle, Black Trim





Black Baffle, White Trim





Black Baffle, Black Trim





White Baffle, White Trim

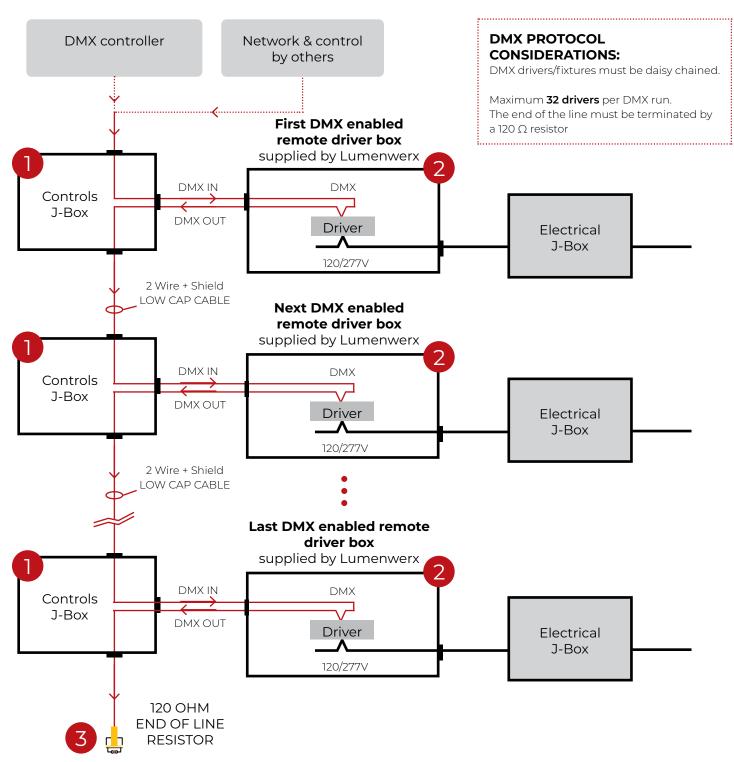




Project:	
Type:	

### **DUO** GENERIC DMX NETWORK ARCHITECTURE

A qualified DMX integrator is required to assure proper installation and commissioning of the DMX network. When placing the PO, please provide the contact information of your DMX integrator.

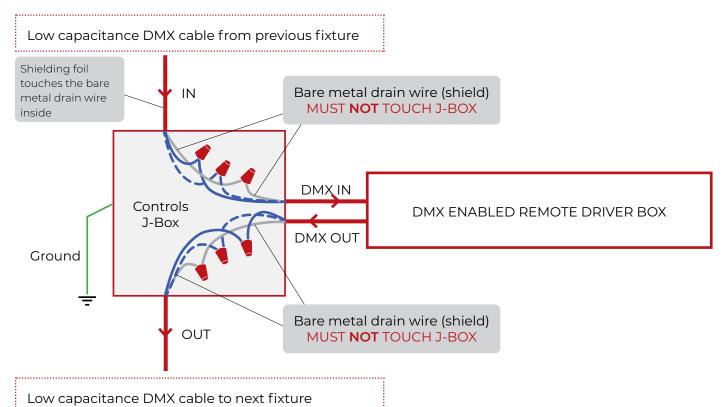




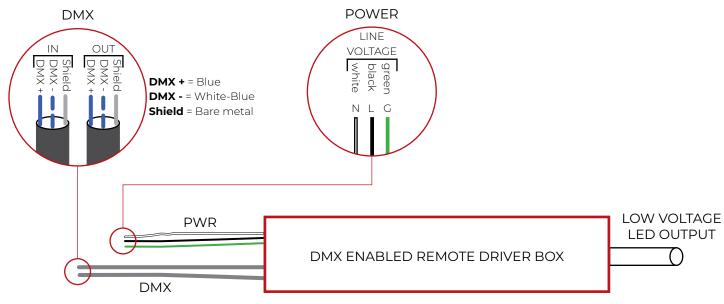
Project:

Туре:

J-BOX DMX DAISY CHAIN DETAIL



2 DMX CONNECTION REMOTE DRIVER





Project: \_\_\_\_

Type: \_\_\_\_\_

LAST DMX CONNECTION DETAIL

