

Project:		
Type:		



Trimless



Voila 4" 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 with Chromawerx SOLA (dim-to-warm) and DUO (tunable white), as well as emergency option. 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
1336 lm	14 W	95 lm/W
1813 lm	20 W	91 lm/W
2442 lm	28 W	87 lm/W

¹ 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 - 13.8 W	1257	1203	1410	1424	1379	1363	1333	1302			
Medium - 19.7 W	1576	1508	1912	1933	1871	1849	1808	1766			
High - 28 W	1932	1848	2576	2604	2520	2492	2436	2380			







Aperture Size

3.55"

Configurations







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

Baffle Depth



Standard 1.00"

Trim





Trim & Trimless

Baffle & Trim Flange Finishes

Textured matte white	(
Textured matte black	
Mixed black & white	(
Custom RAL	



Color Temperature

color remperature	
2700K	
3000K	
3500K	
4000K	
SOLA	G
DUO	Q

Delivered 1152-2492 lm 14-28 Watts, up to 99 lm/W

Integral Drivers

0-10V, TRIAC, ELV, eldoLED & Lutron

Remote Drivers

Lutron, eldoLED and other drivers

Emergency battery pack





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1 - Housing (Example: VO4SR-TRM-SW-OF-ASB-120-14W-D1)

Product Specification

LUMINAIRE ID	TRIM STYLE	LIGHT SOURCE	INSTALLATION TYPE	MOUNTING OPTION	VOLTAGE	WATTAGE (80 CRI) ³	DIMMING		
VO4SR									
VO4SR - Voila 4" Square Recessed	TRM - Flanged trim TLMP - Trimless drywall mudplate TLMW - Trimless millwork	SW - Static white	OF - Open frame type non-IC IC ¹ - IC rated CP¹ - Chicago Plenum type-IC (CCEA) ¹ IC/CP with low output only.	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 ² - 347V ² Available with 0-10V dimming options D1, RD1 and RSD1 only. Consult factory for	14W - Low output 1152-1363 lm 20W 4 - Medium output 1444-1849 lm 28W 4 - High output 1769-2492 lm For other lumen packages, please consult factory.	INTEGRAL D1 - 1% 0-10V ELV 5 - ELV 120V TRI 5 - TRIAC 120V LTEA2W 56 - Lutron 1% - 2 wire FP 120V LDE1 6 - Lutron Hi-lume 1% ECO LDE5 6 - Lutron 5% ECOSystem DA 6 - DALI ELD0 6 - eldoLED 0.1% ELD1 6 - eldoLED 1% DEB 7 - 0-10V with onboard emergency battery backup	REMOTE RD1 - 1% 0-10V RELV 8 - ELV 120V RTR18 - TRIAC 120V RLTEA2W 8 - Lutron 1% - 2 wire FP 120V RLDE1 - Lutron Hi- lume 1% Eco RLDE5 - Lutron 5% EcoSystem RDA - DALI RELD0 - eldoLED 0.1% RELD1 - eldoLED 1%	+EB 9 - Emergency battery 9 Specify with remote dimming only. The code will be like the following example: RD1 + EB.
		SOLA - Dim-to- warm DUO - Tunable white		AHC - Adjustable hat channel bars	details.	SOLA 13W - Low output 920 Im (20° only) 25W ⁴ - High output 1800-1981 Im (40° and up) DUO 10W - Low output 700 Im (20° only) 20W ⁴ - High output 1100-1200 Im (40° and up) ³ For delivered lumens and other CRI, see multiplier tables on page 3. ⁴ Available with OF housing only.	SOLA SDI - Single 0-10V input DUO PSQ0 * - Lutron T-Series 1% tunable white 5 Available with 120V only. 6 Not available with CP installation type. 7 Available with OF housing only.	SOLA RSDI - Single 0-10V input DUO RDMX - To specify, see pages 7 to 9 RDDA - DALI RDDI - Dual 0-10V input for CCT/intensity RPSQ0 - Lutron T-Series 1% tunable white Available with 120V only.	

2 - Light (Example: VO4-SW-10-2-90-27-LS)

LUMINAIRE ID	LIGHT SOURCE	BEAM		COLOR QUALITY	CRI	COLOR TEMP	OPTION
VO4							
VO4 - Voila 4"	SW - Static white	W - Static white 20 - 20° Spot 20 ° - 20° Spot 20 ° - 40° Flood 40 - 40° Flood 50 - 50° Wide flood 60 ° - 60° Verg		2 - 2 Step MacAdam Ellipse	90 - 90 CRI 80 - 80 CRI 97 - 97 CRI (not available for 3500K)	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	LS ¹² - Linear spread HEX ¹² - Hex louver NA - None
	SOLA - Dim-to- warm DUO - Tunable white	60 - 60° Very wide flood 75 - 75° Very wide flood 90 - 90° Open flood	75 " - 75° Very wide flood 90 " - 90° Open flood 10° Available with low output only. 11° 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	spread cannot be combined together.

3 - Baffle (Example: VO4SRB-TRM-SDL-SR-TMW-TMW)

SR		
ft lens sted lens b lens	TMW - Textured matte white TMB - Textured matte black CF# - Custom finish, specify RAL# (e.g. CF1028)	TMW ¹⁴ - Textured matte white TMB ¹⁶ - Textured matte black CF# ¹⁴ - Custom finish, specify RAL# (e.g. CF1028) NA - None
1	ft SR - Standard regress lens sted lens	TMW - Textured matte white TMB - Textured matte black CF# - Custom finish, specify RAL# (e.g. CF1028)

¹³ 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.

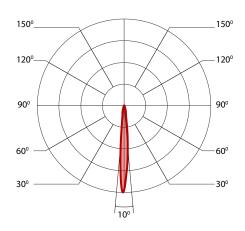


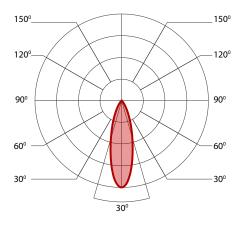


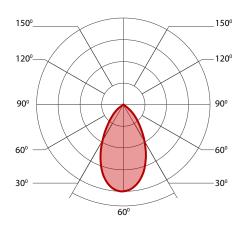
Project:	
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Photometrics

Please follow the multiplier tables to ensure correct lumen value. Beams, baffle color, lensing, CCT, CRI, baffle shape 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 - 13.8 W	1348	1294	1501	1532	1475	1455	1424	1394	1257	1203	1410	1424	1379	1363	1333	1302
Medium - 19.7 W	1692	1623	2037	2078	1995	1975	1933	1892	1576	1508	1912	1933	1871	1849	1808	1766
High - 28 W	2072	1988	2744	2800	2688	2660	2604	2548	1932	1848	2576	2604	2520	2492	2436	2380

Delivered Lumens - At 30K

97 CRI												
10	20	30	40	50	60	75	90					
1080	1053	1213	1225	1186	1172	1146	1120					
1355	1297	1644	1663	1609	1590	1555	1519					
1820	1736	2212	2122	2156	2128	2100	2044					

Efficacy Based on Delivered Lumens - High 28 W

				LP	W			
BEAM	10	20	30	40	50	60	75	90
80 CRI	74	71	98	100	96	95	93	91
90 CRI	69	66	92	93	90	89	87	85
97 CRI	65	62	79	79	77	76	75	73

SOLA and DUO Max Wattage

	90 CRI							
BEAM	10	20	30	40	50	60	75	90
DUO	NA	10	NA	19	19	19	19	19
SOLA	NA	13	NA	26	26	26	26	26

Multiplier - CCT

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

Multiplier - Baffle Color and Shape

BAFFLE VARIABLES				
White	Round standard	1		
White	Square standard	0.89		
Black	Round standard	0.95		
Black	Square standard	0.87		

Multiplier - Optical Options

LENS AND LOUVERS				
No lens	1			
Soft diffused lens	0.94			
Frosted lens	0.78			
Hex louvers	0.82			

For SOLA and DUO, please consult factory.



Project:	
Туре:	

Technical Specification

DESCRIPTION Compact fixed or adjustable 4" 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/Type-IC/Chicago Plenum: 4";

Open frame with DEB or PSQ0 (Duo) options: 8" **Ceiling Thickness:** Can accommodate ½" to 1"

Housing weight: Type-IC/Chicago Plenum - 8 lbs -3.6 kg

Open Frame - 6 lbs -2.7 kg

Ceiling cut out: \emptyset 5 $\frac{5}{32}$ " for round, $4^{21}\frac{32}{32}$ "x4 $\frac{21}{32}$ " for square

FIELD REPLACEABLE LIGHT ELEMENT

Adjustability: Hot aiming, lockable, 360° rotation and 30° vertical tilt with shift to ensure beam stays centered.

LED Module: Integral COB module. 90 CRI and 2 SDCM, Standard with options of 80 CRI, or 97 CRI. L80 > 60,000 hours

Light Output: From 1152-2492 lumens

 $\textbf{HyFlex}^{\intercal M} \ \textbf{Optics:} \ \textbf{Proprietary} \ \textbf{TIR/reflector} \ with \ field \ interchangeable$

beam smoothing lenses.

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

Round and square, die-cast aluminum retained 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 page 6 for more information.

ELECTRICAL

Integral: 0-10V, ELV, TRIAC, Lutron EcoSystem, Lutron Hi-lume, DALI, eldoLED 0.1%, eldoLED 1%, Lutron T-Series (tunable white).

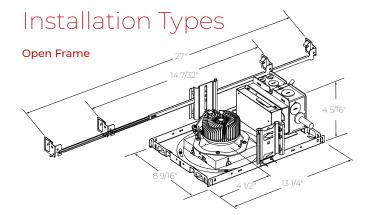
Remote: 0-10V, ELV, TRIAC, Lutron EcoSystem, Lutron Hi-lume, DALI, eldoLED 0.1%, eldoLED 1%, DMX, Lutron T-Series (tunable white).

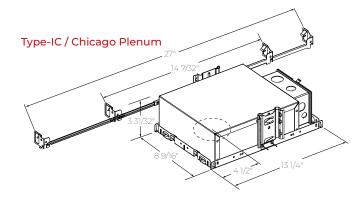
Emergency Options: Emergency battery back-up options are available as integral (Fulham), or remote (Fulham, Bodine, or IOTA). The battery provides 10W of power.

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 marguees).

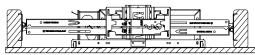
LISTING cETLus listed to UL 1598 and CAN/CSA Standard C22.2 No. 250.0. IP44 rated for bathrooms, showers, outdoor canopies, and marquees when specified with lens options (SDL, FDL), trim option (TRM), and the same finish for both the baffle and trim.

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

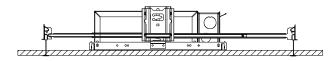




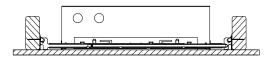
Mounting Options



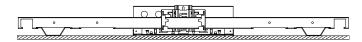
ACB - Adjustable Commercial Bar Hangers



ASB - Adjustable Standard Bar Hangers



FMB - Flush Mount Bars



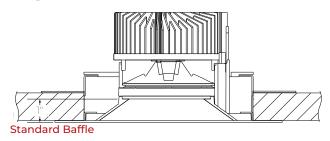
AHC - Adjustable Hat Channel Bars





Project:	
Type:	

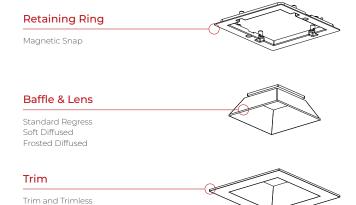
Light



Adjustment Mechanism Flexible Trim Collar

Light Element Heat Sink LED Module Hyflex™ Optics





Optics

 $Hyflex^{\!\top\!\!M}\ optics\ provide\ precise\ optical\ control\ in\ a\ remarkably$ 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.



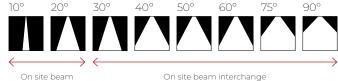
Adjustability

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 ½" 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



interchange

Options





Linear Spread

Hex Louver



4" Square Downlight

Fixed/Adjustable

LU	M	E	N۱	W	E	R	X
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Project:	
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Туре:	

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.

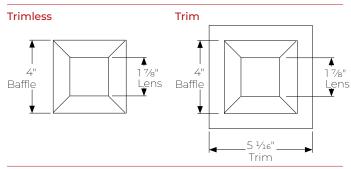
Emergency Integral

Factory installed, long-life, high-temperature, LED driver with integrated emergency backup using a recyclable LiFePO4 battery pack. Features a remote test switch with charge indicator, minimum of 90 minutes operation and 10W per downlight emergency lighting output. Recharge time of 12 hours.

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 and 10W per downlight emergency lighting output. 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 analog control adjusts a specially populated LED array to emulate the effect of dimming a filament source.



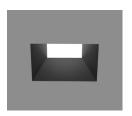
Chromawerx Duo offers a two-channel control system which uses analog or digital protocols for synchronous control of both warm (2700K) to cool (6500K) LED arrays - maintaining a CRI above 90. The range of color DUO offers is useful for entraining circadian rhythms, stimulating alertness, and compensating 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

Trimless



Black Baffle



White Baffle

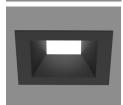
Trim



White Baffle, Black Trim



Black Baffle, White Trim



Black Baffle, Black Trim



White Baffle, White Trim

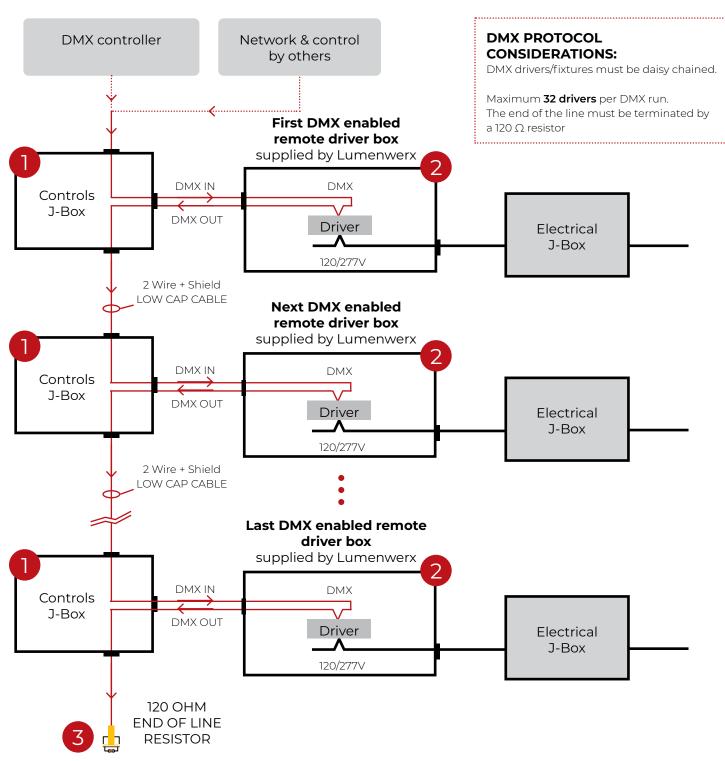




Project:	
Type:	

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.

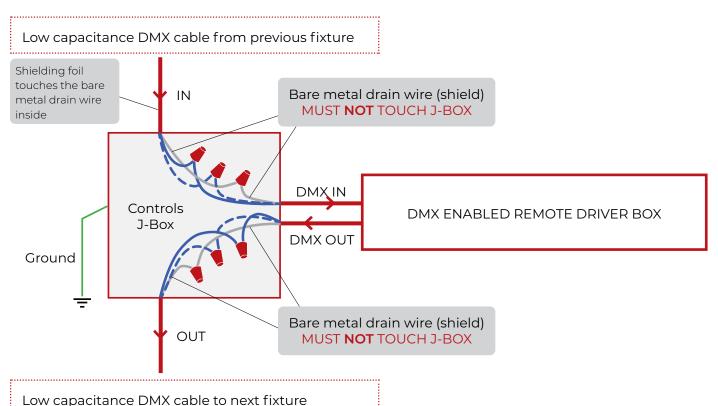




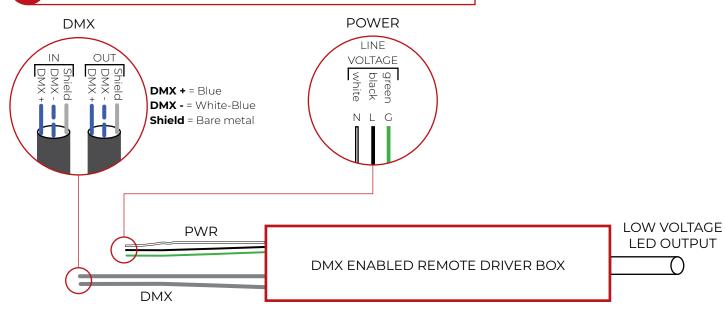
Project:

Туре:

1 J-BOX DMX DAISY CHAIN DETAIL



2 DMX CONNECTION REMOTE DRIVER





Project:

Type: _____

3 LAST DMX CONNECTION DETAIL

