VOILÀ SEAL MRI

4" Round Downlight for Healthcare

Fixed/Adjustable

Lumenwerx

5 YEAR WARRANTY

Project: _____
_____

Type: _____

IP54

Trim

Tamper-resistant Trim

Voila 4 Seal MRI Recessed fixtures are crafted from non-ferrous materials for MRI suites in healthcare applications. They feature a remote driver, an IP54-rated gasketed trim for dust and water protection, and an antimicrobial finish. Eight beam angles ensure versatile lighting options.

Performance

LUMEN OUTPUT [1]	WATTS	EFFICACY LM/W
1501 lm	14 W	107 lm/W
2037 lm	20 W	102 lm/W
2744 lm	28 W	98 lm/W

[1] Lumens packages are assuming 3500K, 80CRI, 30° beam, round 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

4.00"

Configurations

Fixed, adjustable

Baffle Depth

Standard 1.00"

Trim

Baffle & Finishes

Textured matte white ○
Textured matte black ●
Custom RAL ●

Color Temperature

2700K
3000K
3500K
4000K
SOLA
DUO

Delivered 1294-2800 lm
14-28 Watts, up to 111 lm/W

Integral & Remote Drivers

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

Emergency battery pack

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Intertek

PoE NSF

VOILA4-SEAL-MRI-ROUND-DOWNLIGHT-SPEC-REV1 - August 7, 2024

VOILÀ SEAL MRI

4" Round Downlight for Healthcare
Fixed/Adjustable

Lumenwerx

Project: _____

_____

Type: _____

Order Guide

1 - Housing (Example: VO4SEALMRIRR-GKT-SW-OF-AASB-120V-14W-RD1)

LUMINAIRE ID	TRIM STYLE	LIGHT SOURCE	INSTALLATION TYPE	MOUNTING OPTION
VO4SEALMRIRR				
VO4SEALMRIRR - Voila 4" Seal MRI Round Recessed	**TRM** - Flanged trim **GKT** - Gasketed trim **TRT** - Tamper-resistant trim **GTT** - Gasketed and tamper-resistant trim	**SW** - Static white **SOLA** - Dim-to-warm single channel control 35K to 22K **DUO** - Tunable white 2-channel control 65K to 27K	**OF** - Open Frame Type Non-IC **IC** [1] - Type-IC [1] Not available with 20 W output and higher.	**AASB** - Aluminum adjustable standard bar hangers **AFMB** - Aluminum flush mount bars **AACB** - Aluminum adjustable commercial bar hangers **NA** - None

VOLTAGE	WATTAGE	DIMMING [4,5]		
120V - 120V **277V** - 277V **UNV** - 120V-277V **347V** [2] - 347V [2] Available with RD1 driver only. Please consult factory.	**14W** - 14 W output, up to 1532 lm **20W** [3] - 20 W output, up to 2078 lm **28W** [3] - 28 W output, up to 2800 lm [3] Not available with IC.	REMOTE [6] **RD1** [ ] - 1% 0-10V **RELV** [7] - ELV 120V **RTRI** [7] - TRIAC 120V **RLDE1** - Lutron Hi-lume 1% Eco [4] PoE (Power-over-Ethernet) compatible. Consult factory for details. [5] Drivers are installed with RFI/EMI filter. [6] A remote driver box is provided. [7] Available with 120V only.	**RDA** [8] - DALI **RELD1** - eldoLED 1% 0-10V **RELD0** - eldoLED 0.1% 0-10V **+EB** [9] - Emergency battery [8] On-site comissionning is required. [9] For emergency battery, code will be like the following example: RD1+EB.	
	SOLA **13W** - 13 W output, up to 920 lm **25W** [3] - 25 W output, up to 1981 lm **DUO** **10W** - 10 W output, up to 700 lm **20W** [3] - 20 W output, up to 1200 lm	**SOLA** **RSD1** - Single 0-10V input **RSELV** [7] - ELV 120V **RSTRI** [7] - TRIAC 120V	**DUO** **RDMX** [8] - DMX **RDDA** [8] - DALI **RDDA8** [8] - DALI DT8 **RDD1** - Dual 0-10V input for CCT/intensity **RLD2** [8] - Lutron DALI-2 digital	

2 - Light (Example: VO4-SW-10DEG-2STP-90CRI-27K-LS)

LUMINAIRE ID	LIGHT SOURCE	BEAM		COLOR QUALITY	CRI	COLOR TEMP	OPTION
VO4							
VO4 - Voila 4"	**SW** - Static white	**10DEG** - 10° Narrow spot **20DEG** - 20° Spot **30DEG** - 30° Narrow flood **40DEG** - 40° Flood	**50DEG** - 50° Wide flood **60DEG** - 60° Very wide flood **75DEG** - 75° Very wide flood **90DEG** - 90° Open flood	**2STP** - 2 Step MacAdam Ellipse	**90CRI** - 90 CRI **80CRI** - 80 CRI **97CRI** [12] - 97 CRI [12] Not available with 3500K.	**27K** - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K	**LS** [13] - Linear spread **HEX** [13,14] - Hex louver **NA** - None [13] Hex louver & linear spread cannot be combined together. [14] Not available with 60°/75°/90° beam options.
	SOLA - Dim-to-warm single channel control 35K to 22K **DUO** - Tunable white 2-channel control 65K to 27K	**20DEG** [10] - 20° Spot **40DEG** [11] - 40° Narrow flood **50DEG** [11] - 50° Wide flood **60DEG** [11] - 60° Very wide flood **75DEG** [11] - 75° Very wide flood **90DEG** [11] - 90° Open flood [10] Not available with 20 W output and higher. [11] Not available with 10 W or 13 W output.		**3STP** - 3 Step MacAdam Ellipse	**90CRI** - 90 CRI	**SOLA** - Dim-to-warm single channel control 35K to 22K **DUO** - Tunable white 2-channel control 65K to 27K	

3 - Baffle (Example: VO4SEALMRIRRB-GKT-SDL-SR-FTMW)

LUMINAIRE ID	TRIM STYLE [15]	LENS	BAFFLE POSITION	TRIM FLANGE FINISH
VO4SEALMRIRRB			**SR**	
VO4SEALMRIRRB - Voila 4" Seal MRI Round Recessed Baffle	**TRM** - Flanged trim **GKT** - Gasketed trim **TRT** - Tamper-resistant trim **GTT** - Gasketed and tamper-resistant trim [15] IP54 rated for bathrooms, showers, outdoor canopies, and marquees when specified with gasketed trim (GKT) and gasketed and tamper-resistant trim (GTT) options.	**SDL** - Soft diffused lens, Solite **FDL** - Frosted diffused lens	**SR** - Standard regress	**FTMW** - Textured matte white **FTMB** - Textured matte black **FWA** - White antimicrobial Silverwerx **CF#** - Custom finish, specify RAL#

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

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VOILA4-SEAL-MRI-ROUND-DOWNLIGHT-SPEC-REV1 - August 7, 2024
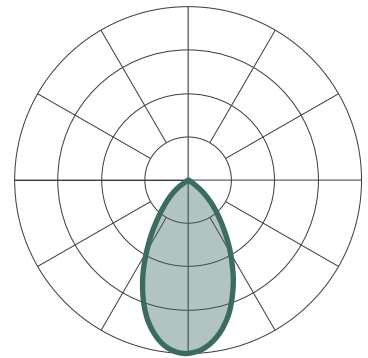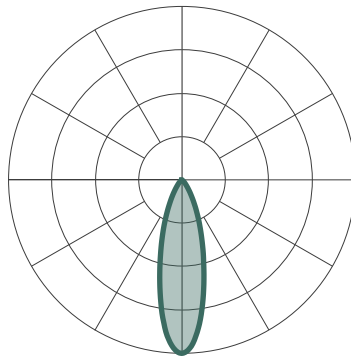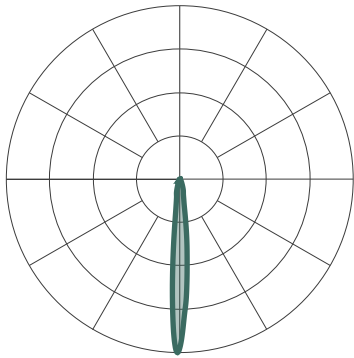
PoE NSF

VOILÀ SEAL MRI

4" Round Downlight for Healthcare

Fixed/Adjustable

Lumenwerx

Photometrics

Please follow the multiplier tables to ensure correct lumen value. Beams, baffles, 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

LPW								
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	19	NA	26	26	26	26	26

Multiplier - CCT

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

For SOLA and DUO, please consult factory.

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, Solite	0.94
Frosted lens	0.78
Hex louvers	0.82

VOILÀ SEAL MRI

4" Round Downlight for Healthcare

Fixed/Adjustable

Lumenwerx

Technical Specifications

DESCRIPTION Compact fixed or adjustable 4" downlight with multiple outputs, color, beam, and dimming options.

HOUSING CONSTRUCTION For new construction, 20 gauge powder coated aluminum. Open frame or type-IC. 18 gauge aluminum junction box with ½" trade size knockouts. Aluminum adjustable standard bar hangers, flush mount bars, and adjustable commercial bar hangers available.
Clearance Height: Open frame/Type-IC: 4";
Open frame with LD2 (DUO) option: 8"
Ceiling Thickness: Can accommodate ½" to 1"
Housing weight: Type-IC - 8 lbs -3.6 kg
Open Frame - 6 lbs -2.7 kg
Ceiling cut out: Ø5 ⁵⁄₃₂"

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 1294-2800 lumens
HyFlex™ Optics: Proprietary 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 die-cast aluminum retained with spring clips.
Trim options: Round gasketed, tamper-resistant, or gasketed and tamper-resistant trim

LIGHT SOURCE Static white, Chromawerx SOLA (dim-to-warm), and Chromawerx DUO (tunable white)

ELECTRICAL
Remote: 1% 0-10V, ELV 120V, TRIAC 120V, Lutron Hi-lume 1% Eco, DALI, eldoLED 0.1% 0-10V, eldoLED 1% 0-10V, DMX, Lutron DALI-2 digital
Emergency Options: Emergency battery back-up option is available (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 marquees).

LISTING cETLus listed to UL 1598 and CAN/CSA Standard C22.2 No. 250.0. IP54 rated for bathrooms, showers, outdoor canopies, and marquees when specified with gasketed trim (GKT) and gasketed and tamper-resistant trim (GTT) options.
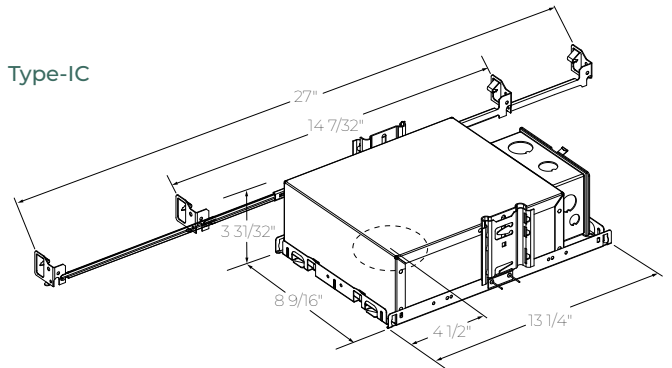
WARRANTY 5 year limited warranty on LED module and power supply. Guaranteed to maintain 70% lumen maintenance.
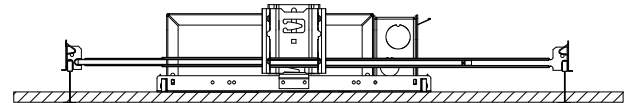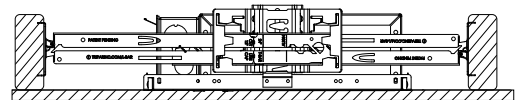
Installation Types

Open Frame
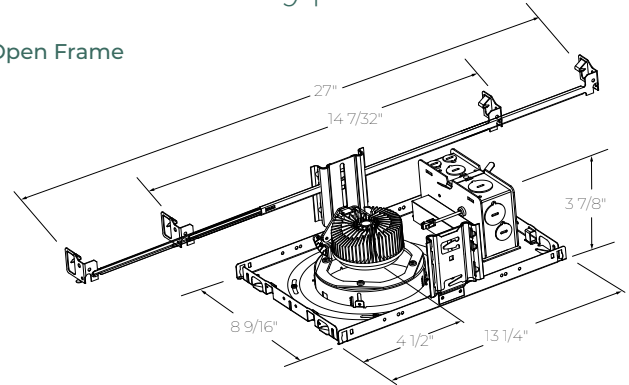
Type-IC

Mounting Options

AASB - Aluminum Adjustable Standard Bar Hangers
(grid and drywall)

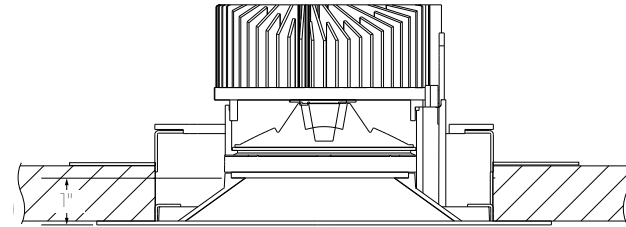**AFMB - Aluminum Flush Mount Bars**
(drywall only)

AACB - Aluminum Adjustable Commercial Bar Hangers
(grid and drywall)

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VOILÀ SEAL MRI

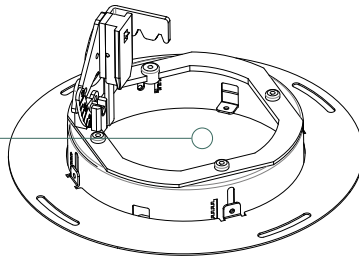4" Round Downlight for Healthcare
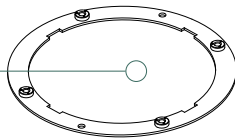
Fixed/Adjustable

Light

Standard Baffle
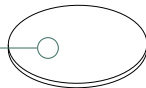
Collar
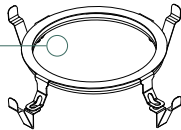Internal adjustable collar

Collar Adapter

Lens
Soft diffused lens, Solite
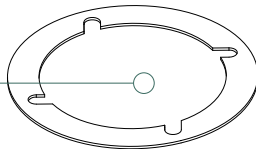Frosted diffused lens
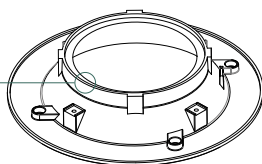
Lens Holder and Spring Clips

Trim Gasket
Available for gasketed (GKT)
and gasketed and tamper-resistant
(GTT) trim options.

Baffle - Trim
Standard Regress Baffle
Trim and Tamper-resistant Trim

Optics

Hyflex™ 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.
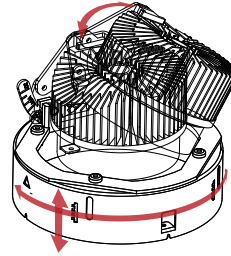
Adjustability

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

Static white
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.

Chromawerx SOLA
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
Chromawerx DUO offers a two-channel control system which uses analog or digital protocols for synchronous control of both cool (6500K) to warm (2700K) 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. When paired with DALI drivers (DDA/DDA8), color tuning follows a linear dimming curve.
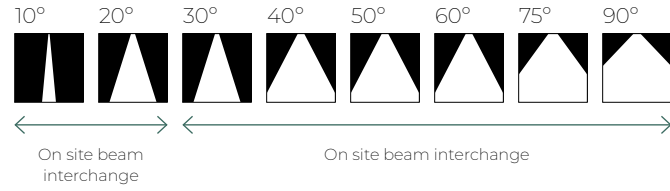
VOILÀ SEAL MRI

4" Round Downlight for Healthcare

Fixed/Adjustable

Beam Angles

10°   20°   30°   40°   50°   60°   75°   90°

On site beam interchange

On site beam interchange

Baffle

Standard Regress

Option

Linear Spread

Hex Louver
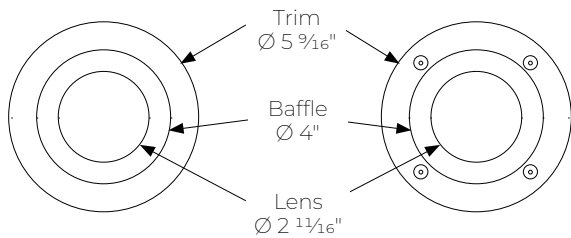
Trim

Black Trim

White Trim

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
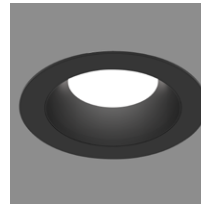
Trim (TRM, GKT)

Tamper-resistant Trim (TRT, GTT)

Trim Ø 5 9/16"

Baffle Ø 4"

Lens Ø 2 11/16"

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