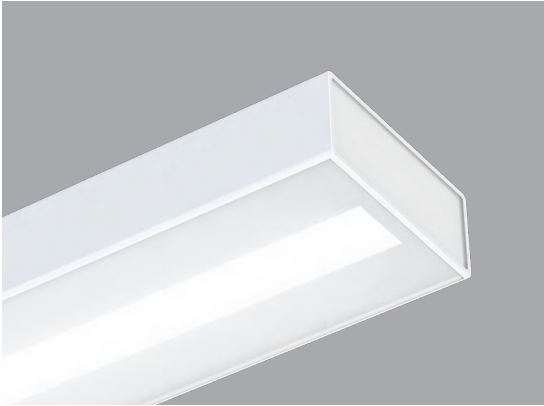# MEDIUS

WALL DIRECT/INDIRECT ASYMMETRIC

LUMENWERX

DESCRIPTION

Within its compact 1 15/16" x 4 ¾" profile, Medius supports optics for high performance direct/indirect lighting. The result is efficacy up to 115 LPW. Medius configures as individual luminaires or continuous runs and features the full range of electrical and control options.

PROJECT: _____

TYPE: _____

NOTES: _____

_____

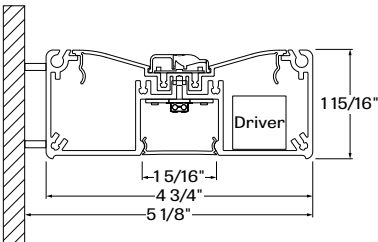5 YEAR WARRANTY **5**

Shown with HLO optics

ORDER GUIDE

MEDWDI	HLO	WAI2	LED		
LUMINAIRE ID	**DIRECT OPTICS**	**INDIRECT OPTICS**	**LIGHT SOURCE**	**CRI**	**DIRECT LUMEN PACKAGES**
MEDWDI - Medius Wall Direct/Indirect	**HLO** - High-Efficiency Lambertian Optic	**WAI2**- Widespread Asymmetric Indirect Optics	**LED** - High performance LED	**80** - 80CRI **90** - 90CRI	**350** - Min. Eco Low Output 350lm/ft **500** - Low Output 500lm/ft **750** - Medium Output 750lm/ft **1000** - High Output 1000lm/ft **####** - Other required lm/ft

INDIRECT LUMEN PACKAGES	COLOR TEMP.	LUMINAIRE LENGTH	VOLTAGE	DRIVER
350 - Min. Low Output 350lm/ft **500** - Medium Output 500lm/ft **750** - Max. High Output 750lm/ft **####** - Other required lm/ft	**27** - 2700K **30** - 3000K **35** - 3500K **40** - 4000K	Standard sections - 4', 8' & 12' For all other specify length **#FT** - Nominal length in feet only Continuous Run - for luminaires over 12' Minimum Individual section 4'	**120** - 120V **277** - 277V **UNV** - 120V-277V **347** - 347V (D1 only)	**D1** - 1% dimming 0-10V **DA**[1] - DALI **LTEA2W** - Lutron 1% - 2 wire FP 120V **LDE1**[1] - Lutron Hi-lume 1% Eco [1] on-site commissioning required

	DMB			
ELECTRICAL	**MOUNTING**	**FINISH**	**CONTROLS**	**OPTIONS**
1 - 1 Circuit **2** - 2 Circuits **+#EB** - Emergency battery (min 4' fixture per battery) **+#EM** - Emergency light circuit **+#NL** - Night light circuit	**DMB** - Drywall mounting bracket	**W** - Matte white **AL** - Aluminum **CF#** - Custom finish specify RAL#	<u>**STANDALONE CONTROLS**</u> **OMS** - Onboard Occupancy **ODS** - Onboard Daylight **OCS** - Onboard Occupancy & Daylight <u>**CONNECTED CONTROLS**</u> **CCS()** - **LU**-Lutron, **EN**-Enlighted, **OS**-Osram, **CR**-Crestron. To specify see information on page 3	**FU** - Fuse **TB#** - T-bar caddy clip specify grid size **TG#** - Tegular caddy clip specify grid size **ST** - Screw Slots caddy clip **CU** - Custom

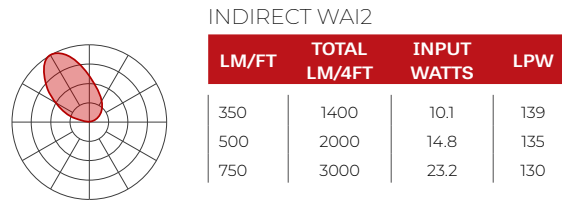See page 2 for ordering code detailed information

CROSS SECTION

1 15/16"

1 5/16"

4 3/4"

5 1/8"

Driver

MEDWDI - HLO-WAI2

ETL LISTED Intertek

MEDIUS

WALL DIRECT/INDIRECT ASYMMETRIC

LUMENWERX

PERFORMANCE

Delivered lumens at 35K at 80CRI.

DIRECT HLO

LM/FT	TOTAL LM/4FT	INPUT WATTS	LPW
350	1400	12	115
500	2000	18	111
750	3000	27.5	109
1000	4000	27	112

INDIRECT WAI2

LM/FT	TOTAL LM/4FT	INPUT WATTS	LPW
350	1400	10.1	139
500	2000	14.8	135
750	3000	23.2	130

MULTIPLIER TABLES

Use these tables to get results for different color temperatures, CRI, for all Direct and Indirect photometric tables.

HLO - WAI2

CCT (K)	Watts		LPW	
	CRI 80	CRI 90	CRI 80	CRI 90
2700	1.05	1.27	0.95	0.79
3000	1.02	1.23	0.98	0.81
3500	1.00	1.19	1.00	0.84
4000	1.00	1.19	1.00	0.84

DIRECT OPTICS

High Efficiency Lambertian Optic (HLO) The High-Efficiency Lambertian Optic (HLO) shielding of diffusing 0.075" thick acrylic with up to 88% transmission and good source obscuration is combined with matte white side reflectors to create an efficient optical chamber with uniform luminosity. Luminaire brightness is controlled by the flux-to-shielding area ratio. For visual comfort, avoid high lumen output unless Medius is installed in a high ceiling application. Spacing criteria: 1.2 (longitudinal) x 1.1 (lateral).
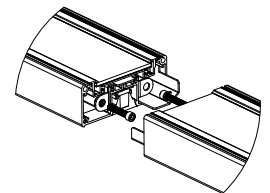
INDIRECT OPTICS

Widespread Asymmetric Indirect Optic (WAI2)
The Widespread Asymmetric Indirect Optic (WAI2) offers an upward grazing effect with a 45° forward throw. It softly highlights the ceiling in the up-light while distributing the required illumination of the rest of an interior space. For avoiding glare and enjoying visual comfort, WAI2 is an ideal solution.

LIGHT SOURCE - LED

Custom linear array of mid-flux LED's are cartridge-mounted with quick-connect wiring to facilitate service and thermal management. Available in 3000K, 3500K and 4000K with a minimum 80 CRI and an option for 90 CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. LEDs operated at reduced drive current to optimize efficacy and lumen maintenance.
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

Medius is made up of standard 4, 8 and 12 foot sections that may be joined together to create longer continuous run lengths. Nominal 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 for Medius Direct/Indirect

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), Lutron 5-Series (5% Ecosystem), DMX (RDM compatible) and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant.
Access: Driver is accessible for field service by removing the uplight LED and light guide cartridge

EMERGENCY BATTERY

Each emergency battery powers a 4' section. Factory installed long life, high temperature, maintenance-free Lithium-Ion battery pack with self-test functionality, test switch and charge indicator. Minimum of 90 minutes operation, up to 1000 lumens per 4' (25°C) emergency lighting output and recharge time of 24 hours.

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MOUNTING OPTIONS

Fixtures may be horizontally mounted to the wall using a bracket. For long runs, a minimum of 6" from adjacent walls is required.

FINISH

Interior - 95%, reflective matte powder coated white paint
Exterior - matte white, matte black or aluminum powder coating
Side reflector - high reflective white coating
Custom finishes are also available.

CONTROLS

LumenWerx offers several options for integrating occupancy and daylight harvesting controls in our luminaires.

STANDALONE CONTROLS

An integrated standalone sensor controls the luminaire in which it is installed. Depending on the length, more than one sensor may be necessary and may control the entire luminaire, or just a section of it. These controls operate independently. Unless otherwise agreed, location and functionality of the sensor within the luminaire are selected by LumenWerx.
Three types are available:
OMS: An integral Passive InfraRed (PIR) sensor turns luminaires on and off automatically with field-adjustable time out period. No wall control is used. Coverage pattern for large motion has a 12' diameter with the sensor mounted 8' above the floor; for small motion, the pattern has an 8' diameter. Typically, one sensor is required for every 10' of a continuous luminaire run.
ODS: An integral, daylight harvesting sensor with closed-loop operation dims the luminaire in which it is installed in order to compensate for available daylight. The sensor measures the combination of daylight and luminaire light reflected from horizontal surfaces below the luminaire. Initial onsite calibration is required via the use of provided remote control.
OCS: Both an occupancy and a daylight sensor are installed in the luminaire.

CONNECTED CONTROLS

With Connected Controls, sensors or nodes installed in the luminaire form part of a larger control system infrastructure from manufacturers such as: Lutron*, Enlighted, Osram ENCELIUM, Acuity nLight, Crestron and others. These connected controls allow for a scalable system providing features like occupancy and daylight control, manual control, scheduling and configuration of various zones and scenes. Energy reporting and system monitoring are also possible. Specific capabilities depend on the control system being used.
LumenWerx installs the components (sensors, nodes, power packs, etc) which may be supplied to us by a third party, or procured directly by LumenWerx, depending on the control system manufacturer.
LumenWerx is solely responsible for the installation of specified components; the controls manufacturer is responsible for performance of the control system.
To indicate a LumenWerx luminaire with Connected Controls, identify the specific onsite control system to be integrated into the luminaires using the ordering code. Due to the diversity of components, you must contact controls@lumenwerx.com to assure complete compatibility with intended control system and to fully specify the luminaire.

Complete control specifications, sensor/node/power pack layout, and narrative for the control system are required for LumenWerx to create shop drawings and submittals.

* Lumenwerx offers a Lutron Vive-Enabled fixture option using either the DFCSJ-OEM-OCC (OCS Option) or DFCSJ-OEM-RF (wireless only, no sensor) Integral Fixture Modules and a DALI or EcoSystem LED driver based on customer dimming requirements.
Please contact our controls department at controls@lumenwerx.com for further assistance.

CONSTRUCTION

Housing - Extruded aluminum 0.085" nominal, matte white or aluminum powder coating
Custom finishes are also available.
End cap - Die cast Aluminum (0.95" nominal)
Joiners - Die cast Aluminum (0.95" nominal)
Interior brackets - Die formed cold rolled sheet steel 20 gauge thick
Reflectors - High reflective white coated bent aluminum
Light guide - Clear PMMA Laminated with microstructure film formed into optical TIR/extraction form

WEIGHT

Medius 4 ft - 10.5 lbs, 4.8kg
Medius 8 ft - 19.7 lbs, 8.9kg
Medius 12 ft - 28.8 lbs, 13.1kg

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 of 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.

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