

LANG WARRAN

Project:

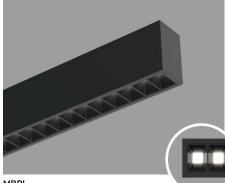
Type:

DESCRIPTION

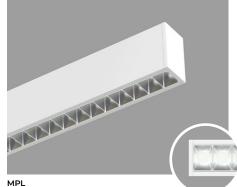
Squero brings style and flexibility to linear lighting systems. Less than 2" wide, Squero offers a variety of optics, each providing a different visual texture, as well as photometric performance. Squero can be installed as individual luminaires or in continuous runs. See separate spec sheets for Squero Combination, where various optics can be combined in a single fixture.



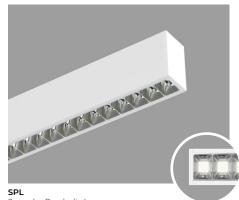
Up to 139 lm/W performance



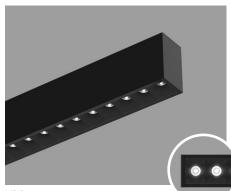
MBPL Matte Black Parabolic Louver



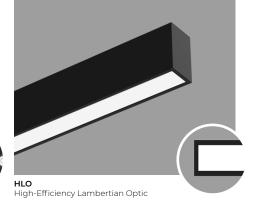
Matte Parabolic Louver

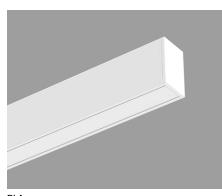


Specular Parabolic Louver



MRO Miniature Reflector Optics





BLA Blank

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LUMENWERX

Project:

Type:

Order Guide

ect/Indirect Direct	MROI8 - 18 degree Miniature Reflector Optic MRO35 - 35 degree Miniature Reflector Optic MRO55 - 55 degree Miniature Reflector Optic MBPL ¹ - Matte Black Parabolic Louver MPL ¹ - Matte Parabolic Louver SPL ¹ - Specular Parabolic Louver HLO - High-Efficiency Lambertian Optic BLA ² - Blank ¹ Not available with BIOSTU.	WH ³ - White BK ³ - Black NA - Not applicable ³ Only available with MRO optics.	TIO ⁴ - Translucent Indirect Optic WAI2 ⁴ - Widespread Asymmetric Indirect Optic NA - Not applicable	SW - Static white BIOSST ⁶ - BIOS Biologi BIOSDY ⁶ - BIOS Biologi BIOSTU ⁶ - BIOS Biologi ⁶ Chromawerx Sola and Duo Consult other spec sheet.	ical Dynamic ical Tunable	80CRI - 80 CRI 90CRI 7 - 90 CRI ⁷ Not available
ect/Indirect	MR035 - 35 degree Miniature Reflector Optic MR055 - 55 degree Miniature Reflector Optic MBPL ¹ - Matte Black Parabolic Louver MPL ¹ - Matte Parabolic Louver SPL ¹ - Specular Parabolic Louver HLO - High-Efficiency Lambertian Optic BLA ² - Blank	BK ³ - Black NA - Not applicable ³ Only available with MRO	Indirect Optic WAI2 ⁴ - Widespread Asymmetric Indirect Optic NA - Not applicable	BIOSST ⁶ - BIOS Biologi BIOSDY ⁶ - BIOS Biolog BIOSTU ⁶ - BIOS Biolog ⁵ Chromawerx Sola and Duo	ical Dynamic ical Tunable	80 CRI 90CRI 7 90 CRI 7 Not
	MRO55 - 55 degree Miniature Reflector Optic MBPL ¹ - Matte Black Parabolic Louver MPL ¹ - Matte Parabolic Louver SPL ¹ - Specular Parabolic Louver HLO - High-Efficiency Lambertian Optic BLA ² - Blank	NA - Not applicable ³ Only available with MRO	WAI2 ⁴ - Widespread Asymmetric Indirect Optic NA - Not applicable	BIOSDY ⁶ - BIOS Biolog BIOSTU ⁶ - BIOS Biolog ⁵ Chromawerx Sola and Duo	ical Dynamic ical Tunable	90CRI 7 90 CRI 7 Not
	HLO - High-Efficiency Lambertian Optic BLA ² - Blank	with MRO			also available.	
	² Can be specified as the direct optic option for a Direct/Indirect fixture.		⁴ Not available with BIOS.	⁶ See page 6 for details.		with BIOS
KAGE	INDIRECT LUMEN PACKAGE C Specify NA for Direct fixture	COLOR TEMP.	LUMINAIRE LENGTH		VOLTAGE	
out 350 lm/ft 500 lm/ft put 750 lm/ft put 1000 lm/ft pptic.	500LMF - Low output 500 lm/ft 3 750LMF - Medium output 750 lm/ft 3 1000LMF ^{10, 11, 12} - High output 1000 lm/ft 4 NA - Not applicable 5 ¹⁰ Not available with WAI2. 3 ¹¹ For Direct/Indirect, Direct must not exceed 3	50K - 3000K 55K - 3500K 40K - 4000K 50K ¹³ - 5000K ¹³ Not available with BIOS.	and/or 1" increments 277V - 277\ UNV - 120V Standard nominal lengths: 347V *6 - 34 Single units: 3' to 12' *Available with ** Minimum 4' for Direct/Indirect, minimum 3' for Direct. *Available with		120V - 120V 277V - 277V UNV - 120V-2 347V ¹⁶ - 347V	/
500 put 7 put 1	m/ft '50 lm/ft	m/ft 500LMF - Low output 500 lm/ft 750LMF - Medium output 750 lm/ft 1000LMF ^{10, 11, 12} - High output 1000 lm/ft NA - Not applicable ¹⁰ Not available with WAI2. ¹¹ For Direct/Indirect, Direct must not exceed 750 lm/ft.	SooLMF - Low output 500 lm/ft 30K - 3000K 750LMF - Medium output 750 lm/ft 35K - 3500K 000 lm/ft 1000LMF ^{10, 11, 12} - High output 1000 lm/ft 35K - 3500K NA - Not applicable 50K * 5000K 50K * 5000K ** For Direct/Indirect, Direct must not exceed ** Not available with BIOS. ** Not available	m/ft 500LMF - Low output 500 lm/ft 750LMF - Medium output 750 lm/ft 1000LMF ^{10, 11, 12} - High output 1000 lm/ft NA - Not applicable ¹⁰ Not available with WAI2. ¹¹ For Direct/Indirect, Direct must not exceed 750 lm/ft. ¹⁰ Not available mith wate for Direct/Indirect, Direct must not exceed 750 lm/ft. ¹⁰ Not available mith wate for Direct/Indirect, Direct must not exceed ¹⁰ Not available mith wate for Direct/Indirect, Direct must not exceed ¹⁰ Not available mith wate for Direct/Indirect, Direct must not exceed ¹⁰ Not available mith wate for Direct/Indirect, Direct must not exceed ¹⁰ Not available mith wate for Direct/Indirect, Direct must not exceed mith wate for Direct/Indirect mith wate for Direct/Indire	m/ft 500LMF - Low output 500 lm/ft 30K - 3000K and/or 1" increments 750 lm/ft 750LMF - Medium output 750 lm/ft 35K - 3500K and/or 1" increments 000 lm/ft 1000LMF ^{10, 11, 12} - High output 1000 lm/ft 35K - 3500K Standard nominal lengths: NA - Not applicable 50K ¹³ - 5000K Single units: 3' to 12' ¹⁰ Not available with WAI2. ¹¹ Not available ¹¹ Not available ¹¹ For Direct/Indirect, Direct must not exceed 750 lm/ft. ¹⁴ Minimum 4' for Direct/Indirect, minimum 3' for Direct.	m/ft 500LMF - Low output 500 lm/ft 750LMF - Medium output 750 lm/ft 1000LMF ^{10, 11, 12} - High output 1000 lm/ft NA - Not applicable ¹⁰ Not available with WAI2. ¹¹ For Direct/Indirect, Direct must not exceed 750 lm/ft. ¹⁰ Not available with WAI2. ¹¹ For Direct/Indirect, Direct must not exceed 750 lm/ft. ¹⁰ Not available with WAI2. ¹¹ Not available ¹⁰ Not available ¹⁰ Not available ¹⁰ Not available ¹¹ Not available ¹⁰ Not availabl

DRIVER ¹⁷	ELECTRICAL	ELECTRICAL SECTIONS (optional) 23, 24	MOUNTING
			DMB
DI - 1% 0-10V DA ¹⁸ - DALI LDE1 ¹⁸ - Lutron Hi-lume 1% Eco ELD1 - eldoLED 1% ECOdrive 0-10V ELD0 - eldoLED 0.1% SOLOdrive 0-10V ¹⁷ PoE (Power-over-Ethernet) compatible. Consult factory for details. ¹⁸ On-site commissioning is required.	1C - 1 circuit 2C ¹⁹ - 2 circuits #MC ²⁰ - Multi circuit EC - Emergency-powered fixture NL - Night light fixture DL - Daylight fixture GTD ^{21,22} - Generator transfer device fixture ¹⁹ Available for Direct/Indirect only. Separate direct and indirect circuits.	 #EC## ²⁵ - Emergency-powered section #NL## ²⁵ - Night light section #DL## ²⁵ - Daylight section #GTD## ²⁵, ²⁶, ²⁷ - Generator transfer device section #EMB ²⁷, ²⁸ - Emergency battery NA - None ²³ Specify with multi circuit (#MC) electrical option only. ²⁴ Provide drawing or layout specifications. Consult factory for other configurations. Default section length is 4!. 	DMB - Drywall mounting bracket
	²⁰ Specify total number of circuits (#), including any required for electrical sections. Provide drawing or layout specifications. Minimum 4' section per circuit. ²¹ Minimum 4' fixture. ²² Not available with 347V.	 ²⁵ Specify quantity (#), and section length in inches (##). ²⁶ Minimum 4' section. ²⁷ Not available with 347V. ²⁸ Specify quantity (#). All batteries will be on the same circuit. Each battery powers a 4' section. For Direct/Indirect, minimum 8' fixture. 	

FINISH 29			OPTIONS
W - Matte white AL - Aluminum B - Matte black CF# - Custom finish, specify RAL# ²⁹ Blank finish will match fixture finish.	STANDALONE CONTROLS ^{31, 32} Specify the quantity (#) of sensors per fixture. #ODS - Onboard Daylight	CONNECTED CONTROLS ³³ LU- Lutron AWNR - Lutron Athena Wireless Node RF Only AWNS - Lutron Athena Wireless Node Sensor EN - Enlighted ENC - Encelium WL - Cooper Wavelinx AN - Acuity nLight CA - Casambi LG - Legrand	FU120 - Fuse 120V FU277 - Fuse 277V NA - None
	NA - Non	0	-
	 ³⁰ Standalone and connected control options cannot be combined. ³¹ Available with D1 driver and 1 circuit options only. ³² Minimum 4' per zone. Provide control zone length. 	³³ Consult factory for connected controls.	
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www.lumenwerx.com Intertek

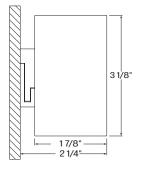
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Dimensions

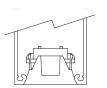


Section Views

DIRECT OPTICS



MRO Miniature Reflector Optic



MBPL, MPL & SPL Matte Black, Matte & Specular Parabolic Louver



HLO High-Efficiency Lambertian Optic



BLA Blank

INDIRECT OPTICS



TIO Translucent Indirect Optic



WAI2 Widespread Asymmetric Indirect Optic

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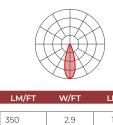
Photometrics

Values calculated based on a 4ft fixture at 35K and 80 CRI for all optics.

DIRECT OPTICS

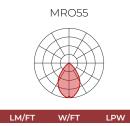


LM/FT	W/FT	LPW
350	2.7	130
500	4.0	125
750	6.4	118
1000	9.1	110



MRO35

LM/FT	W/FT	LPW
350	2.9	121
500	4.3	116
750	6.9	108
1000	9.9	101



3.2

4.8

7.7

11.0

109

104

97

91

350

500

750

1000



HLO

LM/FT	W/FT	LPW
350	3.1	112
500	4.6	108
750	7.3	103
1000	10.2	98





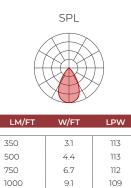
10.6

1000

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MULTIPLIER TABLES - CCT/CRI

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

99

98

98

95

MR018 / MR035 / MR055

сст w		TTS	LPW	
(K)	CRI 80	CRI 90	CRI 80	CRI 90
2700	1.04	1.19	0.96	0.84
3000	1.00	1.15	1.00	0.87
3500	1.00	1.12	1.00	0.89
4000	0.99	1.10	1.01	0.91
5000	0.94	1.06	1.06	0.94

MBPL/MPL/SPL				
сст	WATTS		LP	W
(K)	CRI 80	CRI 90	CRI 80	CRI 90
		1		
2700	1.04	1.19	0.96	0.84
3000	1.00	1.15	1.00	0.87
3500	1.00	1.12	1.00	0.89
4000	0.99	1.10	1.01	0.91
5000	0.94	1.06	1.06	0.94

HLO				
сст	WA	TTS	LP	w
(K)	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
5000	0.96	1.12	1.04	0.89

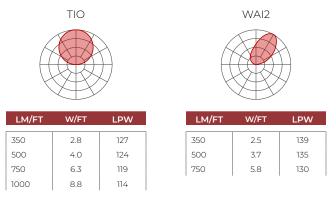




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Values calculated based on a 4ft fixture at 35K and 80 CRI for all optics.

INDIRECT OPTICS



MULTIPLIER TABLES - CCT/CRI

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

TIO/WAI2

сст	WATTS		T WATTS LPW		w
(K)	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	
5000	0.96	1.12	1.04	0.89	

DIRECT/INDIRECT - LPW CALCULATION

_

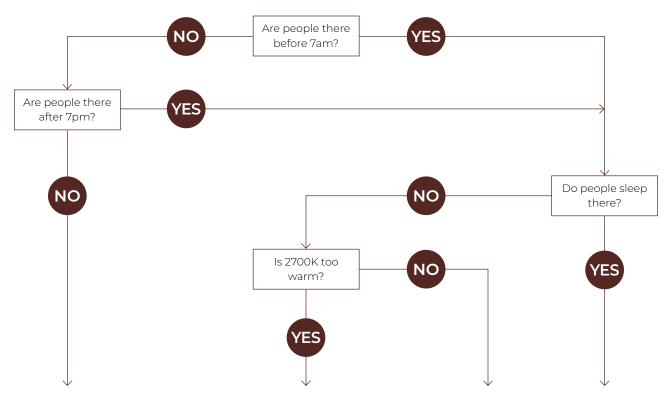
For Direct/Indirect performance values, follow the formula.





BIOS

Three BIOS Circadian LED solutions are offered – Biological Static, Biological Dynamic, and Biological Tunable. Use the decision tree below to identify when and where to use BIOS Wellness LED Lighting Solutions.



Biological Static BIOSST	Biological Dynamic BIOSDY	Biological Tunable BIOSTU	
No CCT change when dimmed	500K shift when dimmed	Dims to 2700K	
Daytime solution	Daytime + evening solution	Daytime + evening solution	
Spaces in operation during daytime hours, between 7am and 7pm	Spaces in operation overnight, after 7pm and before 7am, and when CCT color shift in the evening is not preferred	Suitable for spaces in operation overnight, after 7pm and before 7am, and where people do not sleep (CCT color shift in the evening is preferred)	
E.g. offices, medical/dental offices	E.g. hospitals	E.g. offices, shiftwork	
4 0 00 00 00 00 00 00 00 00 00 00 00 00	Daytime Full BioDS SkyBlue? ^M (490m) Bio-Dimmingfu Bio-Dimmingfu BioS SkyBlue [™] Removed BioS SkyBlue [™] Removed BioS SkyBlue [™] Removed	Daytime Full BIOS SkyBlue" Bio-Dimmingtw Bio-Dimmingtw BiOS SkyBlue M Removed BiOS SkyBlue M Removed BiOS SkyBlue M Removed	



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LUMENWERX

Technical Specifications

DIRECT OPTICS

Miniature Reflector Optic (MRO)

Locates individual, precisely molded TIR elements over each LED emitter, and further shield the source with precise parabolic reflectors. The controlled beam is remarkably comfortable – especially in a small LED luminaire.

MRO is available in a specular black or gloss white finish and creates a distinctive visual texture.

Different TIR elements offer a choice of beam spreads: narrow (18° with SC of 0.3), medium (35° with SC of 0.6), and wide (55° with SC of 0.9). These concentrated distributions can provide effective task illumination in a variety of applications.

Each MRO module is 6" long with five optical chambers.



Parabolic Louvers (MBPL, MPL & SPL)

Parabolic Louver Optics provide excellent shielding and a pleasing crisp visual texture. The precisely molded louvers consist of 1" deep blades and side reflectors with shielding of 50° lengthwise and 45° crosswise.

The parabolic contour of the blades and side reflectors direct light into a comfortable downlight distribution with a spacing criterion of 1.1, while minimizing shadows from the LED array above each cell.

Three finishes are available: matte black, matte, and specular. Specular (SPL) provides higher efficacy, sharper cut-off, and an ultra quiet appearance at shallow viewing angles. Matte (MPL) offers a softer appearance, a wider beam spread, and gentle brightness transition at cut-off. Matte black (MBPL) offers the highest UGR in Squero as the black parabolic louver is very quiet and glare free. The UGR is the best in class rating of under 10.



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 Squero is installed in a high ceiling application. Spacing criteria: 1.2 (longitudinal) x 1.1 (lateral).



Blank (BLA)

Aluminum Blank covers provide spacing – functional or rhythmic – in the direct component of a Squero Combination luminaire. Covers are sized according to the Combination design, finished to match the luminaire housing, and snap into the aperture.

INDIRECT OPTICS

Translucent Indirect Optic (TIO)

The Translucent Indirect Optic (TIO) is composed of a horizontal LED array that has a translucent lens to mask pixilation from the diodes. TIO has a 100° spread in the indirect that is ideal when the fixture is mounted farther away from the ceiling.

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 - STATIC WHITE

Custom linear array of high-flux LEDs mounted onto aluminumbacked circuitry with quick-connect wiring to facilitate service and optimize thermal management. Available in 2700K, 3000K, 3500K, 4000K, and 5000K with a minimum 80 CRI and an option for 90 CRI with elevated R9 value. Color consistency 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.



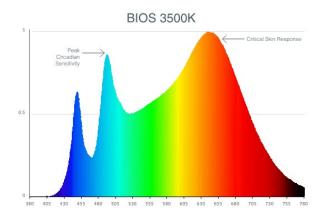


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SQUERC WALL STATIC WHITE, BIOS

LIGHT SOURCE - BIOS

BIOS SkyBlue™ Technology is designed to provide the specific circadian stimulus to improve overall sleep quality, recovery during the night, and overall feelings of well-being. The non-visual light signals that stimulate our circadian system have peak intensity in the "sky blue" region. As the diagram below illustrates, BIOS SkyBlue technology shifts the peak LED spectral intensity (490 nm) to align better with the peak response of circadian stimulus. Also note the enhanced deep-red (near 660 nm) spectrum.



Three BIOS solutions are offered: BIOS Biological Static (BIOSST), BIOS Biological Dynamic (BIOSDY), and BIOS Biological Tunable (BIOSTU). See page 6 for details.

LUMINAIRE LENGTH

Squero is made up of standard 3 to 12 foot sections that may be joined together to create longer continuous run lengths. Exact run lengths must be noted in the product code. The minimum individual section available is 3 feet for Direct fixtures and 4 feet for Direct/Indirect fixtures.

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.

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% Eco, eldoLED 1% ECOdrive 0-10V, eldoLED 0.1% SOLOdrive 0-10V, and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant.

PoE

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), emergency battery backup, and sensor integration. These must be addressed and evaluated on a caseby-case basis.

ELECTRICAL SECTION OPTIONS

Electrical section options are available for fixtures specified as multi circuit (#MC). With MC, specify the total number of circuits (#), including any circuits required for optional electrical sections. A drawing is required to specify the layout. Please consult factory for custom configurations.

Electrical sections

Options include emergency-powered (#EC##), night light (#NL##), daylight (#DL##), and generator transfer device (#GTD##) sections. Specify the quantity (#), as well as the section length in inches (##).

Example 1: A 32' Direct fixture with two 8' emergency-powered sections on a second circuit. Code: 2MC-2EC96

Example 2: A 16' Direct/Indirect fixture with separate circuits for direct and indirect, and with one 4' night light section on the direct side on a third circuit. Code: 3MC-1NL48

Example 3: A 24' Direct fixture with one 4' generator transfer device section. Code: 1MC-1GTD48

Battery

Each emergency battery (#EMB) powers a 4' section. All batteries will be on the same circuit. Specify the number of batteries (#) required.

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.

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. Custom finishes are also available.





LUMENWERX

CONTROLS

Lumenwerx offers several options for integrating occupancy and daylight harvesting controls in our luminaires. For latest information on sensors, click here.



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, sensor location, blank size, and functionality of the sensor within the luminaire are selected by Lumenwerx. See client drawings for details. One type is available:

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.

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, Encelium, Cooper Wavelinx, Acuity nLight, Casambi, Legrand, 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 factory 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.

CONSTRUCTION

Housing - Extruded aluminum (0.100" nominal) up to 90% recycled content

Interior brackets - Die formed cold rolled sheet steel 10 gauge thick

Joining system - Die cast aluminum

Louvers - Injection molded optical grade polycarbonate (0.100" nominal) up to 95% reflective

Light guide - Clear PMMA laminated with microstructure film formed into optical TIR/extraction form

End caps - Die cast aluminum (0.125" nominal)

WEIGHT

4ft - 10.02 lbs - 4.54 kg 6ft - 15.18 lbs - 6.89 kg 8ft - 19.78 lbs - 8.97 kg

CERTIFICATION

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 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.



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