LUMENWERX

PENDANT STATIC WHITE, BIOS



Project:

Туре:

DESCRIPTION

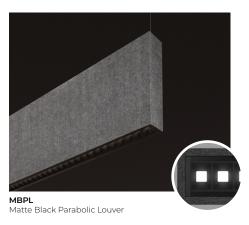
Squero Acoustix offers superior craftsmanship that is both optically impressive and sound absorbing. It offers all three standard Squero optics: Parabolic louvers (MBPL, MPL, SPL), Miniature Reflector Optic (MRO), and High-Efficiency Lambertian Optic (HLO). Coupled with excellent optical choice, the acoustic felt is cut with an ultra-

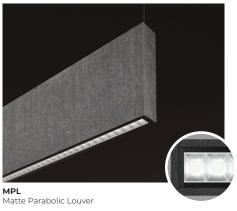


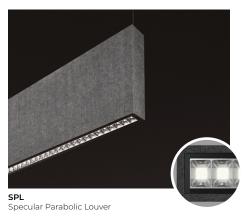


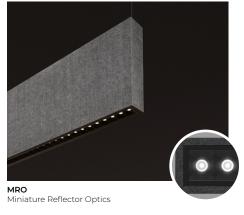
fine blade to ensure flawless transitions at every cut corner and seam. Squero Acoutix is available in static white and BIOS. For Sola and Duo, please see other spec sheet.

Up to 145 lm/W performance

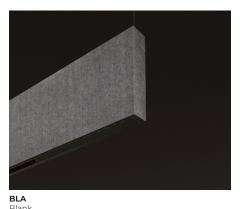


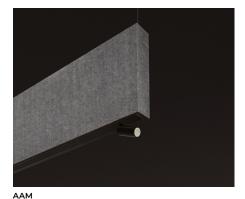


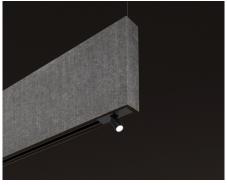












MS Micro Spot











Adjustable Accent Module

LUMENWERX

PENDANT STATIC WHITE, BIOS



Project:

Туре:

Order Guide

LUMINAIRE ID	DISTRIBUTION	LUMINAIRE HEIGHT	DIRECT OPTIC	MRO COLOR	INDIRECT OPTIC Specify NA for Direct fixture	LIGHT SOURCE ⁶
SQUACOP						
SQUACOP - Squero Acoustix Pendant	DI - Direct/Indirect D - Direct	8IN - 8" 12IN - 12" 16IN - 16"	MRO18 - 18 degree Miniature Reflector Optic MRO35 - 35 degree Miniature Reflector Optic MRO55 - 55 degree Miniature Reflector Optic MBPL¹ - Matte Black Parabolic Louver MPL¹ - Matte Parabolic Louver SPL¹ - Specular Parabolic Louver HLO - High-Efficiency Lambertian Optic BLA ^{2,3} - Blank ¹Not available with BIOSTU. ² Specify with AAM or Micro Spot option. ³ Can also be specified as the direct optic option for a Direct/Indirect fixture.	WH 4 - White BK 4 - Black NA - Not applicable "Only available with MRO optics.	WIO2 - Widespread Indirect Optic TIO 5 - Translucent Indirect Optic WAI2 5 - Widespread Asymmetric Indirect Optic NA - Not applicable	SW - Static white BIOSST 7 - BIOS Biological Static BIOSDY 7 - BIOS Biological Dynamic BIOSTU 7 - BIOS Biological Tunable 6-Chromawerx Sola and Duo also available. Consult other spec sheet. 7-See page 9 for details.

CRI	DIRECT LUMEN PACKAGE	INDIRECT LUMEN PACKAGE Specify NA for Direct fixture	COLOR TEMP.	LUMINAIRE LENGTH
80CRI - 80 CRI 90CRI 8 - 90 CRI 8 Not available with BIOS.	350LMF - Eco low output 350 lm/ft 500LMF - Low output 500 lm/ft 750LMF - Medium output 750 lm/ft 1000LMF ^{9,10} - High output 1000 lm/ft ⁹ Not available with MBPL optic. ¹⁰ Not available with BIOS.	350LMF - Eco low output 350 lm/ft 500LMF - Low output 500 lm/ft 750LMF - Medium output 750 lm/ft 1000LMF ^{11, 12, 13} - High output 1000 lm/ft NA - Not applicable ¹¹ Not available with WAI2. ¹² For Direct/Indirect, Direct must not exceed 750 lm/ft.	27K 14 - 2700K 30K - 3000K 35K - 3500K 40K - 4000K 50K 14 - 5000K	#FT#IN - Specify nominal length (#) in 2' increments Standard nominal lengths: Single units: 4' to 8' Continuous runs: lengths over 8'

VOLTAGE	DRIVER 16	ELECTRICAL	ELECTRICAL SECTIONS (optional) 22,23	MOUNTING 28
120V - 120V 277V - 277V UNV - 120V-277V 347V ¹⁵ - 347V	D1 - 1% 0-10V DA ** - DALI LDE1 ** - Lutron Hi-lume 1% Eco ELD1 - eldoLED 1% ECOdrive 0-10V ELD0 - eldoLED 0.1% SOLOdrive 0-10V **PoE (Power-over-Ethernet) compatible. Consult factory for details. ***On-site commissioning is required.	IC - 1 circuit 2C ¹⁸ - 2 circuits #MC ¹⁹ - Multi circuit EC - Emergency-powered fixture NL - Night light fixture DL - Daylight fixture GTD ^{20,21} - Generator transfer device fixture "Available for Direct/Indirect only. Separate direct and indirect circuits. "Specify total number of circuits (#), including any required for electrical section, AAM or Micro Spot options. Provide drawing or layout specifications. Minimum 4' section per circuit. ²⁰ Minimum 4' fixture. ²¹ Not available with 34TV.	#EC## ²⁴ - Emergency-powered section #NL## ²⁴ - Night light section #DL## ²⁴ - Daylight section #GTD## ²⁴ , ²⁵ , ²⁶ - Generator transfer device section #EMB ²⁶ , ²⁷ - Emergency battery NA - None ²² Specify with multi circuit (#MC) electrical option only. ²³ Provide drawing or layout specifications. Consult factory for other configurations. Default section length is ⁴² . ²⁴ Specify quantity (#), and section length in inches (##). ²⁵ Minimum ⁴ section. ²⁶ Not available with 347V. ²⁷ Specify quantity (#). All batteries will be on the same circuit. Each battery powers a ⁴ section. For Direct/Indirect, minimum ⁸ fixture.	ACS - Aircraft cable, standard STS - Stem, standard ACC() - Aircraft cable, custom STC() - Stem, custom 28 See page 3 for ordering details.

FIXTURE FINISH 29	FELT COLOR						OPTIONS	MODULE (optional) 33,34
W - Matte white	STANDARD CO	OLORS	PREMIUM	COLORS 30, 31			FU120 - Fuse 120V	#AAM21() - AAM 21°
AL - Aluminum	FWN	LVN	PKN	CDN	IVN	BHN	FU277 - Fuse 277V	#AAM30() - AAM 30°
B - Matte black	. 7714	FAIA	PKIN	CDN	1014	BHN	CTB9 32 - T-bar caddy clip, 9/16"	#AAM36() - AAM 36°
CF# - Custom finish,	FON FON	LEN	OGN	LCN	SLN	CFN	CTB15 32 - T-bar caddy clip, 15/16"	#MS25() - Micro Spot 25°
specify RAL#						25-62	CTG9 32 - Tegular caddy clip, 9/16"	#MS35() - Micro Spot 35°
	ION I	CYN	LNN	SYN	CNN	GRN	CTG15 32 - Tegular caddy clip, 15/16"	#MS50() - Micro Spot 50°
²⁹ Blank finish will match fixture	TBN	PMN	LMN	BLN	GHN	MON	CST 32 - Screw slot caddy clip	NA - None
finish.							NA - None	
	MDN	FGN	EGN	NVN	CLN	ESN		33 See page 3 for ordering details.
			³⁰ Please cons ³¹ Lead time r	sult factory for m may vary.	nore color option	ns.	³² Available with aircraft cable only.	34 If more than one option is specified, separate codes with a "+", e.g. 1AAM21()+1MS25().











LUMENWERX

PENDANT STATIC WHITE, BIOS

Module

For a module, specify the options in the parentheses.

Example: 1AAM21(SW-80CRI-350LM-27K-W-NA)

MODULES (optional)							
MODULES 1, 2, 3	LIGHT SOURCE	CRI	LUMEN PACKAGE		COLOR TEMP.	FINISH	OPTION
#AAM21() - AAM 21° #MS25() - Micro Spot 25° #AAM30() - AAM 30° #MS35() - Micro Spot 35° NA - None 1 Specify quantity (#). 26° blank per module. 3 If more than one option is specified, separate codes with a "+", e.g. 1AAM21()+1MS25().	SW - Static white	80CRI - 80 CRI 90CRI - 90 CRI	350LM - 350 Im 600LM - 600 Im 45 W for 350 Im and 8 W for 600 Im. Wattages are for reference only. May change based on driver.	MS ⁵ 400LM - 400 lm ⁵ S W. Wattage is for reference only. May change based on driver.	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K 50K - 5000K	W - Matte white B - Matte black	HCL ⁶ - Honeycomb louver NA - None ⁶ Not available with Micro Spot.

Pendant Mounting Code

Standard

For a standard mounting, please refer to the information below.

MOUNTING					
ACS - Aircraft cable, standard	STS - Stem, standard				
Ø5" for power canopy Ø3" for non-power Canopies are white Power cord is white for all fixture finishes (except black fixture is black power cord) Aircraft cable length is 36"	Ø5" for power canopy Ø5" for non-power Canopies are white Stem finish is the same color as fixture Stem length is 18" Stem is not field adjustable				

Custom

Aircraft Cable

For a custom mounting, specify the options in the parentheses.

Example: ACC(3NPC-72IN-W-PCB-SLC)

MOUNTING					
ACC()					
	NON-POWER CANOPY SIZE	AIRCRAFT CABLE LENGTH	CANOPY FINISH	POWER CORD COLOR	OPTIONS
ACC	3NPC - Ø3" non-power canopy 5NPC - Ø5" non-power canopy	36IN - 36" 72IN - 72" 120IN - 120" #IN 1 - Other lengths, specify in inches 1 Maximum length is 288". For longer lengths, please consult factory.	W - Matte white AL - Aluminum B - Matte black CF# - Custom finish, specify RAL#	PCW - White PCB - Black	SEM - Seismic mounting SLC - Sloped ceiling for aircraft cable NA - None

Stem

MOUNTING

For a custom mounting, specify the options in the parentheses.

Example: STC(5NPC-36IN-W-STW-SLS)

STC()					
	NON-POWER CANOPY SIZE	STEM LENGTH	CANOPY FINISH	STEM COLOR	OPTIONS
STC	5NPC - Ø5" non-power canopy	18IN - 18" 36IN - 36"	W - Matte white	STW - Matte white	SLS - Sloped ceiling for stem NA - None
		#IN 2 - Specify length in inches	B - Matte black	STB - Matte black	NA - None
		² Minimum length is 6". Maximum length is 72". Stem is not field adjustable.	CF# - Custom finish, specify RAL#	STCF# - Custom finish, specify RAL#	









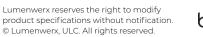


PENDANT STATIC WHITE, BIOS

Standard Color Options



Intertek







*Please consult factory for more color options. *Lead time may vary.

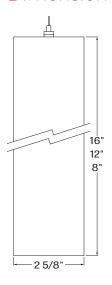




LUMENWERX

PENDANT STATIC WHITE, BIOS

Dimension

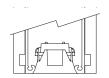


Section Views

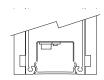
DIRECT OPTICS



MRO Miniature Reflector Optic



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



HLO High-Efficiency Lambertian Optic



BLA Blank

INDIRECT OPTICS

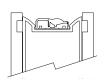


WIO2 Widespread Indirect Optic



TIO Translucent Indirect Optic

Intertek



WAI2 Widespread Asymmetric Indirect Optic









PENDANT STATIC WHITE, BIOS

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



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

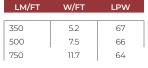


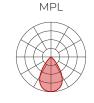
LM/FT	W/FT	LPW
350	3.2	109
500	4.8	104
750	7.7	97
1000	11.0	91



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







LM/FT	W/FT	LPW
350	3.5	99
500	5.1	98
750	7.7	98
1000	10.6	95



LM/FT	W/FT	LPW
350	3.1	113
500	4.4	113
750	6.7	112
1000	9.1	109

MULTIPLIER TABLES - CCT/CRI

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

MRO18 / MRO35 / MRO55

ССТ	WATTS		LP	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		LF	w				
(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				

HLO

ССТ	CT WATTS		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





PENDANT STATIC WHITE, BIOS

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

INDIRECT OPTICS



LM/FT	W/FT	LPW
350	2.4	145
500	3.5	141
750	5.5	136
1000	7.7	130



LM/FT	W/FT	LPW
350	2.8	127
500	4.0	124
750	6.3	119
1000	8.8	114



LM/FT	W/FT	LPW
350	2.5	139
500	3.7	135
750	5.8	130

MULTIPLIER TABLES - CCT/CRI

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

WIO2/TIO/WAI2

	ССТ	WATTS			W
	(K)	CRI 80	CRI 90	CRI 80	CRI 90
į					
	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.

$$\frac{\left(\begin{array}{ccc} \text{DIRECT} \\ \text{LM/FT} \end{array} + \begin{array}{ccc} \text{INDIRECT} \\ \text{LM/FT} \end{array}\right)}{\left(\begin{array}{ccc} \text{DIRECT} \\ \text{W/FT} \end{array} + \begin{array}{ccc} \text{INDIRECT} \\ \text{W/FT} \end{array}\right)} = \text{LPW}$$

AAM



AAM 30°



DELIVERE	IVERED LUMENS									
Wattage		5,0								
						.0				
CRI			80					90		
CCT	2700K	3000K	3500K	4000K	5000K	2700K	3000K	3500K	4000K	5000K
Lumen	323	340	350	357	364	265	279	289	299	312
Wattage					8	.0				
CRI	80 90									
CCT	2700K	3000K	3500K	4000K	5000K	2700K	3000K	3500K	4000K	5000K
Lumen	553	583	600	612	624	454	478	495	513	534

MICRO SPOT



Micro Spot 35°



Intertek

DELIVERED LUMENS											
	Wattage		5.0								
	CRI	80				90					
	CCT	2700K	3000K	3500K	4000K	5000K	2700K	3000K	3500K	4000K	5000K
	Lumen	373	400	400	432	432	324	344	344	345	372





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PENDANT STATIC WHITE, BIOS

Acoustic Calculator

Using the Lumenwerx Acoustix Value Calculator table, you can determine the number of acoustic luminaires required in a space by fixture type. We have three levels of recommended sound reduction: good, better, and best. Choosing one of these options will reduce the sound accordingly. The best option indicates the best acoustic improvement. Calculations are based on a standard ceiling height of 9



- \bigcirc Calculate the square feet of your room (L x W).
- (2) Choose the level of acoustical improvement you are looking for, and find the corresponding value based on your room dimension and luminaire configuration.

% in reduction in reverberation time							
:	GOOD	25%					
⊕ ⊕	BETTER	40%					
000	BEST	50%					

		Room dimensions under 300 sq ft			Room dimensions over 300 sq ft		
LUMINAIRE	HEIGHT	GOOD <u></u>	BETTER	BEST	GOOD <u></u>	BETTER	BEST
4 Feet	8"	19	9	6	29	15	10
	12"	29	14	8	45	22	14
	16"	38	19	12	58	29	19
6 Feet	8"	28.5	13.5	9	43.5	22.5	15
	12"	43.5	21	12	67.5	33	21
	16"	57	28.5	18	87	43.5	28.5
8 Feet	8"	38	18	12	58	30	20
	12"	58	28	16	90	44	28
	16"	76	38	24	116	58	38

(3) Use the Lumenwerx Acoustix Value Formula to determine the number of luminaires needed in the room.

Square feet ÷ Value = Number of luminaires

Example:

Luminaires: Squero Acoustix, 4 ft long, 16" high Room square feet: L: 20 ft x W: 18 ft = 360 sq ft Desired acoustical improvement: Better = 29

Number of luminaires needed in the room: 360 ÷ 29 = 13 luminaires

- You can mix lit and blank fixtures.
- Lumenwerx acoustic calculators were developed to act as a guide. For precise acoustic performance in a space, please consult an acoustician.







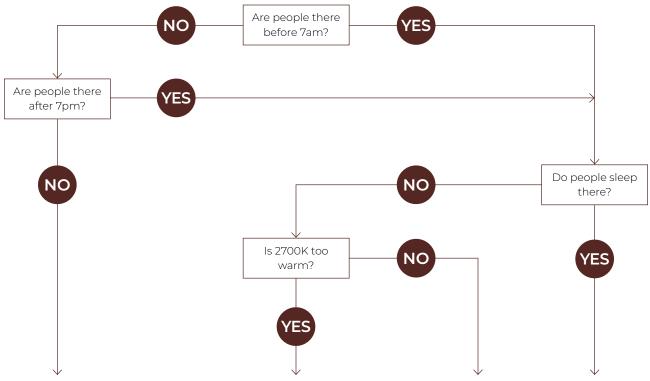




PENDANT STATIC WHITE, BIOS

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	
The state of the s	Daytime Full BIOS SkyBlue™ (49Onm) Bio-Dimming™ Bio-Dimming™ Evening BIOS SkyBlue™ Removed Store	Daytime Full BIOS SkyBlue M	









LUMENWERX

PENDANT STATIC WHITE, BIOS

Technical Specifications

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

Widespread Indirect Optic (WIO2)

The Widespread Indirect Optic (WIO2) is a horizontal LED array with a widespread indirect micro prismatic optic that offers an impressive 160° spread. WIO2 creates an even illumination for smooth brightness on the ceiling that can achieve uniformity ratios of up to 2:1.

Uniformity [max/min]

Based on 18' continuous runs, in a 20' x 40' room, 10' wall height

Mounting height	Spacing (Center to center)			
from ceiling	8'	10'	12'	
12"	5.5	10.0	9.0	
18"	6.5	6.0	6.0	
24"	2.5	4.0	4.5	

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.











DUERO ACOUSTIX

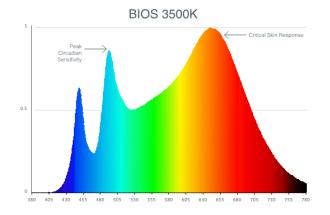
LUMENWERX

PENDANT 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 7 for details.



WELL for Light - The WELL building standard focuses on light quality in several features. There are three categories that are fully attributed to the constriction and features of a luminaire. In WELL V1, it's Feature 54 Circadian Lighting, Feature 55 Glare Control, and Feature 58 Color Quality. In WELL V2, it's Feature L03 Circadian Lighting, Feature L04 Glare Control, and Feature L07 Electric Light Quality.

This fixture meets Features:

- Feature 55 or L04 meets WELL glare category (a-b-c-d)
- Feature 58 or L07 when 90CRI is selected

All LED drivers used at Lumenwerx are deemed to have a low risk level of flicker, of 5 % or less below 90Hz operational as defined by IEEE standard 1789-2015 LED.



WELL for Sound - This luminaire is recommended for use as an acoustical absorption surface to limit reverberation times (RT) in a given space. This luminaire contributes to noise reduction and vibration dampening to promote focus and concentration. Reverberation needs to be calculated in each space based on the materials used.



WELL for Mind -This luminaire meets WELL for mind as it is a human centric luminaire offering quality light, excellent color, and smooth optics. If any of these features are incorporated in a luminaire, it can improve the ability to focus, concentrate, and persist longer on a given task. This fixture harmoniously operates in a space to assist the mind.

For more information, please contact well@lumenwerx.com

LUMINAIRE LENGTH

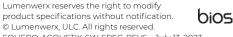
Squero Acoustix is made up of standard 4, 6, and 8 foot sections that may be joined together to create longer continuous run lengths. Exact run length must be noted in the product code. The minimum individual section available is 4 feet, and continuous run lengths can be ordered in 4, 6, or 8 foot sections. 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.

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.











LUMENWERX

PENDANT

STATIC WHITE, BIOS

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 can be pendant-mounted, using aircraft cables, or stemmounted. Unless otherwise specified, Lumenwerx provides the following hardware:

Standard aircraft cable option (ACS) - Canopies are white, Ø5" for power canopy, Ø3" for non-power. Power cord is black for black fixtures, and white for all other fixture finishes. Aircraft cable length is 36".

Standard stem option (STS) - Canopies are white, Ø5" for both power and non-power. Stem finish is the same color as fixture. Stem length is 18". Stem is not field adjustable.

Caddy clips, if required specify under OPTIONS For all other options, see the mounting code on page 3.

FINISH

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

ACOUSTIC FINISH

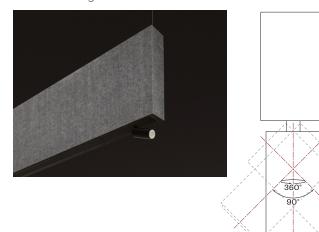
Material is 100% polyester containing up to 50% of recycled plastic bottles (PET) with an ASTM E-84 Class A fire rating and is moisture resistant.

Remove dust and debris by wiping down with a clean, dry or damp, soft, lint-free cloth, or vacuum.

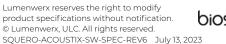
ADJUSTABLE LED ACCENT MODULE (AAM)

The Adjustable Accent Module (AAM) features a Ø 1 9/16" x 3 1/4" cylinder that rotates 360° and tilts 90°. The LED light source is coupled with TIR optics to provide beam angles of 21°, 30°, and 36° while producing up to 600 lumens. LED light source CCT options are 2700K, 3000K, 3500K, 4000K, and 5000K, available in either 80 CRI or 90 CRI.

The AAM module can be selected in either a white or black finish and a honeycomb louver accessory is also available. The AAM driver is mounted above the cylinder, inside the SQUERO housing and accepts universal input voltage (120-277VAC) while providing 0-10V dimming control.











Ø 1 9/16"



3 1/4

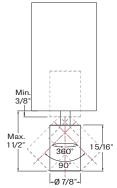
LUMENWERX

PENDANT STATIC WHITE, BIOS

MICRO SPOT (MS)

The Micro Spot is a \emptyset 7/8" x 1 5/16" adjustable spotlight that extends, retracts, rotates 360°, and tilts 90°. Its LED light source is coupled with a TIR refractor to provide beam angles of 25°, 35°. and 50°, while producing up to 400 lumens. LED light source CCT options are 2700K, 3000K, 3500K, 4000K, and 5000K, available in either 80 CRI or 90 CRI. The Micro Spot is offered in a white or black finish. The Micro Spot driver is mounted within the luminaire housing and accepts universal input voltage (120-277VAC) with 0-10 V dimmina control.





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)

Hanger - Chromed griplock securely attached in end caps and/or joiners with stainless steel hardware

Aircraft cable suspension - 7x7 braids stainless steel air craft cable 0.05" thick

Stem - 0.5" diameter threaded steel tube matte white or aluminum powder coating. Custom finishes are also available.

WEIGHT

	Direct/Indirect	Direct
4ft 6ft	9	12.57 lbs - 5.70 kg 25.14 lbs - 11.40 kg

ENVIRONMENT

Ambient temperature at fixture location shall not exceed 30°C/86°F. For indoor use only.

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.









