LUMENWERX

PENDANT PATTERN STATIC WHITE, BIOS



Project:

Type:

DESCRIPTION

Squero Combination Pattern 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 Combination allows various optics to be combined in a single luminaire. Optional modules are also available

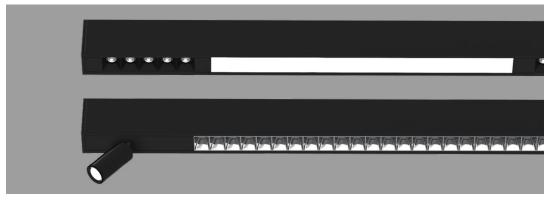
for accent lighting. It can be installed as individual luminaires, in continuous runs, or as patterns. See separate spec sheets for Squero and Squero Combination.

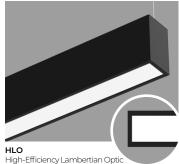
For latest information on sensors, click here.

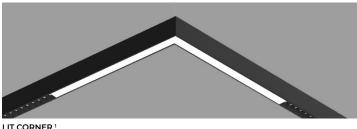


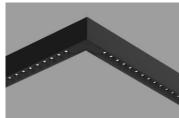
Up to 145 lm/W performance





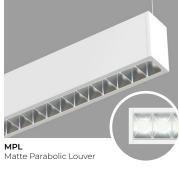




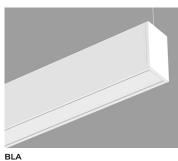


UNLIT CORNER 1

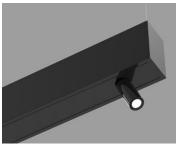












Micro Spot

Integrated Track Adjustable Accent Module

1 Lit corners can only available with HLO, min corner dimensions 2'x2'. Unlit corner min dimensions 6"x6".

3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9

T (514) 225-4304 F (514) 931 -4862

www.lumenwerx.com

²Track and downlight by others.



LUMENWERX

PENDANT PATTERN STATIC WHITE, BIOS

Project:	
Туре:	

Order Guide

LUMINAIRE	ID	DISTRIBUTION		OPTICS 1, 2, 3 ne total length for each rec	quired optic, inc	cluding the	corner le	engths.		MRO COLOR	INDIRECT Specify NA 1			GHT SOURC
SQUCOM	PPAT													
QUCOMPP	AT	DI -	MRC	018 - 18 degree Miniatu	re Reflector (Optic		FT	IN	WH ⁶ -	WIO2 - Wi		I	W - Static
Squero Combination	n	Direct/Indirect D - Direct	MRC)35 - 35 degree Miniatu	re Reflector	Optic		FT	IN	White BK ⁶ -	Indirect Op TIO 7 - Tran		W	hite
Pendant Pat			MRC)55 - 55 degree Miniatu	ure Reflector	Optic		FT	IN	Black	Indirect O	otic		IOSST 8 -
			МВР	PL 4 - Matte Black Parak	polic Louver			FT		NA - Not applicable	WAI2 7 - W Asymmetr		t St	IOS Biologic atic
				- 4 - Matte Parabolic Lo				FT		⁶ Only	Optic NA - Not a	pplicable	I	IOSDY ⁸ - IOS Biologia
				4 - Specular Parabolic I				FT 		available with MRO	⁷ Not availab		D:	ynamic IOSTU 8 -
) - High-Efficiency Lam . ⁵ - Blank	bertian Optio			FT FT	IN IN	optics.	NOL availab	e with bio.	В	IOS Biologic
			¹ Specify M ² The minii ³ Minimun	1ROs in 6" increments, Paral mum total length per louve n fixture length is 4'. able with BIOSTU.				nd Blank in 1" inci					88	unable iee page 8 for letails.
				um 6" blank section must b	e specified for e	each AAM or	Micro Sp	oot option.						
RI D	DIRECT L	UMEN PACKAGE		NDIRECT LUMEN PACE pecify NA for Direct fixture		COLOR TEMP.		TOTAL PATT	ERN LEI	NGTH	CORNER TYPE	CORNE OPTIC	R	CORNER DEGREE
											LEV			
0 CRI Ir 0 CRI 9 - 5 0 CRI 7	m/ft 500LMF -	Eco low output 300 Low output 500 Medium output	Im/ft 7 :750 10	50LMF - Eco low output 00LMF - Low output 50 50LMF - Medium outp 000LMF ^{12, 13, 14} - High ou m/ft	00 lm/ft ut 750 lm/ft	27K ¹⁵ - 2 30K - 30 35K - 350 40K - 40 50K ¹⁵ - 5	00K 00K 000K	#FT#IN 16 - S nominal leng increments	gth (#) ir	ı 1' and/or 1"	LEV - Leveled corner	HLO - H Efficiend Lamber Optic le corner r	cy tian veled	90COR(# 90 degree specify th number of corners (#
	000LMF 000 lm/fi	^{10,11} - High output		IA - Not applicable Not available with WAI2.		¹⁵ Not avail with BIO		¹⁶ Total luminair	e length s	_		BLA - Alumini Blank le		,
		ble with MBPL optic ble with BIOS.	. 13	For Direct/Indirect, Direct m exceed 750 lm/ft. Not available with BIOS.	nust not							corner r 6"x6"		
/OLTAGE	DRIVE	ER 18		ELECTRICAL			ELEC.	TRICAL SECTION	ONS (op	tional) ^{24, 25}			MOUNTI	NG ³⁰
20V - 120V 177V - 277V JNV - 20V-277V 347V ¹⁷ -	DA ¹⁹ - LDE1 ¹ ELD1 - O-10V ELD0	9 - Lutron Hi-lum · eldoLED 1% ECC - eldoLED 0.1%		1C - 1 circuit 2C ²⁰ - 2 circuits #MC ²¹ - Multi circuit EC - Emergency-pow NL - Night light fixtur DL - Daylight fixture	re	- Club was	#NL# #DL# #GTD	# ²⁶ - Emerger # ²⁶ - Night lig # ²⁶ - Daylight ## ²⁶ , ²⁷ , ²⁸ - Ger 3 ²⁸ , ²⁹ - Emerge	ht section section nerator 1	n ransfer device	e section	:	standard STS - Ste ACC() - A custom	craft cable, m, standarc Aircraft cable tem, custon
Available with D1 driver only.	¹⁸ PoE (F comp detail	drive 0-10V Power-over-Ethernet atible. Consult facto s. te commissioning is	ry for	 20 Available for Direct/Indi and indirect circuits. 21 Specify total number of required for electrical se options. Provide drawin, Minimum 4' section per 22 Minimum 4' fixture. 23 Not available with 347V. 	circuits (#), incluention, AAM, or Ng or layout specificult.	25 Provide drawing or layout specifications. Cons (configurations. Default section length is 4'. AVM, or Micro Spot out specifications. 25 Provide drawing or layout specifications. Cons configurations. Default section length is 4'. 26 Specify quantity (#), and section length in inch construction.		ications. Consul ength is 4'. length in inche will be on the s	n only. Il factory for other deta es (##). same circuit. Each		¹⁰ See page details.	: 3 for ordering		
FINISH 31	со	NTROL 32							OPTION	IS		МОЕ	ULES (o	ptional) ^{40, 41}
W - Matte vhite AL - Aluminu 3 - Matte bla CF# - Custor inish, specifi RAL#	Speum #0 ack #0 din y #0	ANDALONE CON ecify the quantity IMS 35 - Onboard MS## 36 - Onboa nming IDS - Onboard Do ICS - Onboard Oc	(#) of ser Occupand rd Occupa aylight	nsors per fixture. Cy ancy with bi-level	CONNECT LU- Lutron AWNR - L Athena W Node RF (AWNS - L Athena W Node Sen	utron /ireless Only utron /ireless	EN - Er ENC - E WL - C Waveli AN - Ad	nlighted Encelium ooper nx cuity nLight esambi	FU277 - ITR ³⁸ - CTB9 ³⁹ CTB15 ³⁰ CTG9 ³⁹ CTG15 ³⁰ CST ³⁹ -	Fuse 120V Fuse 277V ntegrated tra - T-bar caddy - T-bar cadd - Tegular cad - Tegular cac Screw slot ca	clip, 9/16" y clip, 15/16" dy clip, 9/16' ddy clip, 15/16	#AA #AA #MS: #MS: #MS: NA -	35() - Mio 50() - Mi None	AAM 30° AAM 36° cro Spot 25° cro Spot 35° cro Spot 50'
Blank finish w match fixture				NA - None	;				NA - No	ne		41 If me	ore than or	ordering det ne option is
finish.	32 St	andalone and conne	ected contro	ol options cannot be combi	ned. 35 Fixture	turns off wh	en no oc	cupancy.	38 Consult	factory for deta	ils.	spec	ified, sepa	rate codes w







PENDANT PATTERN 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°	SW - Static	80CRI -	AAM ⁴	MS ⁵	27K - 2700K	W - Matte white	HCL 6 - Honeycomb
#AAM30() - AAM 30° #MS35() - Micro Spot 35° #AAM36() - AAM 36° #MS50() - Micro Spot 50° NA - None	white	80 CRI 90CRI - 90 CRI	350LM - 350 lm 600LM - 600 lm	400LM - 400 lm	30K - 3000K 35K - 3500K 40K - 4000K	B - Matte black	NA - None
Specify quantity (#). 26" blank per module. 26" blank per module. 26" blank per module. 26" blank per module. 26" codes with a "+", e.g. 1AAM21()+1MS25().			45 W for 350 Im and 8 W for 600 Im. Wattages are for reference only. May change based	reference only. May change based on driver.	50K - 5000K		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	3				
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 ¹Maximum 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	36IN - 36" 36IN - 36" #IN ² - Specify length in inches	W - Matte white AL - Aluminum B - Matte black CF# - Custom finish,	STW - Matte white STAL - Aluminum STB - Matte black STCF# - Custom finish,	SLS - Sloped ceiling for stem NA - None
		² Minimum length is 6". Maximum length is 72". Stem is not field adjustable.	specify RAL#	specify RAL#	







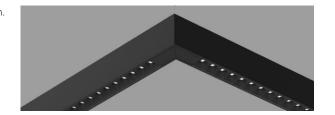
PENDANT PATTERN STATIC WHITE, BIOS

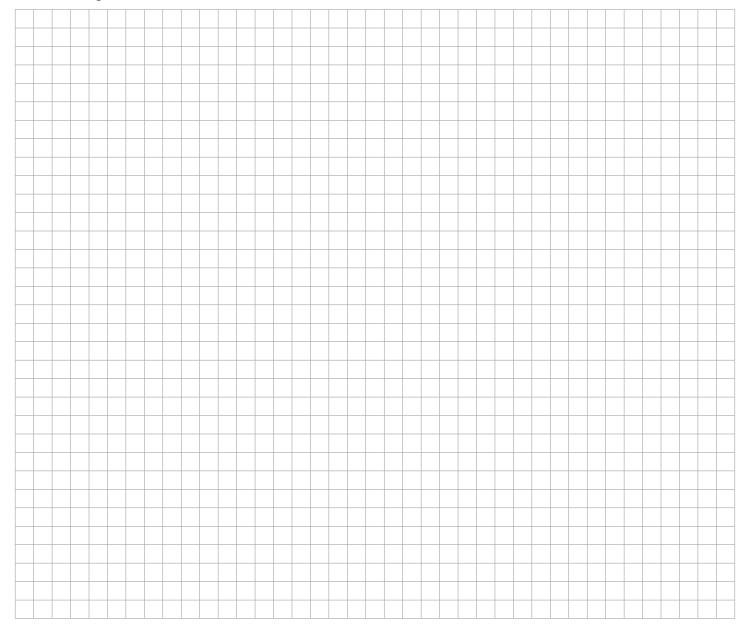
Squero Combination Pattern Layout

Use the grid below to sketch and label the layout of your combination pattern.

Make sure to follow the guidelines specified in the order code:

- MROs/AAM/Micro Spot in 6 inch increments; Parabolic Louvers in 1 foot increments; HLO/Blank in 1 inch increments.
- The minimum total length per louver/optic must be 2' in each section of the fixture.
- Minimum fixture length is 4'.
- Maximum length for a section is 12'.



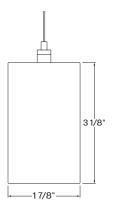






PENDANT PATTERN STATIC WHITE, BIOS

Dimensions

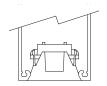


Section Views

DIRECT OPTICS



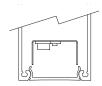
MROMiniature Reflector Optic



MBPL, MPL & SPL

Matte Black, Matte & Specular

Parabolic Louver



HLO High-Efficiency Lambertian Optic



BLA Blank

INDIRECT OPTICS



WIO2Widespread Indirect Optic



TIOTranslucent Indirect Optic



WAI2Widespread Asymmetric
Indirect Optic

Intertek





PENDANT PATTERN 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

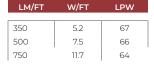


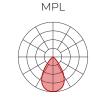
/==	>*//==	. 5
LM/FT	W/FT	LPW
350	3.2	109
500	4.8	104
750	7.7	97
1000	11.0	91



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	WA	TTS	LP	w			
(K)	CRI 80	CRI 80 CRI 90		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	WA	TTS	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	WA	TTS	LPW		
(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	



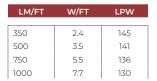


PENDANT PATTERN STATIC WHITE, BIOS

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

INDIRECT OPTICS

WIO2





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	WA	TTS	LPW		
(K)	CRI 80	CRI 80 CRI 90		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.

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

AAM



AAM 30°



DELIVERE	DELIVERED LUMENS									
\A/attaga	Wattage 5,0									
Wattage					5	.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°



Micro Spot 50°

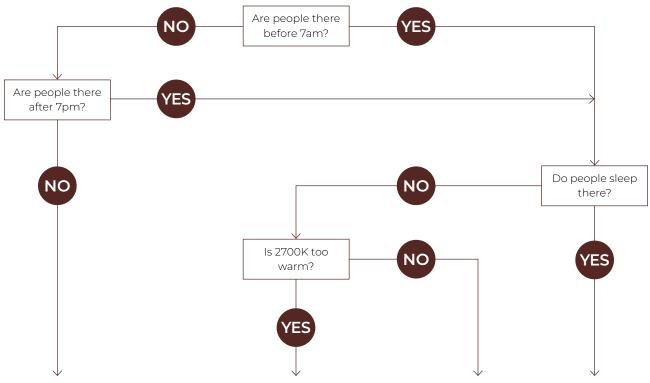
DELIVERED LUMENS										
Wattage 5,0										
CRI		80						90		
CCT	2700K	3000K	3500K	4000K	5000K	2700K	3000K	3500K	4000K	5000K
Lumen	373	400	400	432	432	324	344	344	345	372



PENDANT PATTERN 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	
200 400 Most November (200 Most	Daytime Full BIOS SkyBlue™ (430mm)	Daytime Full BIOS SkyBlue M (490nm)	



PENDANT PATTERN STATIC WHITE, BIOS

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

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 aluminum-backed 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.





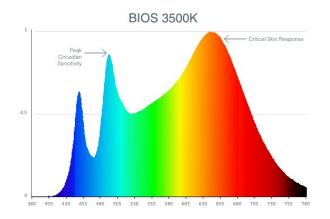
LUMENWERX

PENDANT PATTERN STATIC WHITE, BIOS

LIGHT SOURCE - BIOS

BIOS SkyBlue TM 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 8 for details.

PATTERN LENGTH

Squero is made up of standard 4 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 4 feet.

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 case-by-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 (#)

Factory installed long life, high temperature, maintenance-free Lithium-lon 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.





LUMENWERX

PENDANT PATTERN STATIC WHITE, BIOS

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.

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.

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.

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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.

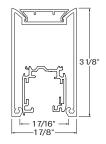
Lumenwerx is solely responsible for the installation of specified components; the controls manufacturer is responsible for performance of the control system.

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.

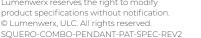
Complete control specifications, sensor/node/power pack layout, and narrative for the control system are required for Lumenwerx to create shop drawings and submittals.

ITR - Integrated track (track and downlight by others) Multiple track systems manufactured by others, are offered in Squero direct, in individual, or runs, with or without LED integrated sections. Detailed specifications of the track system must be supplied. For other mounting options (please consult factory).









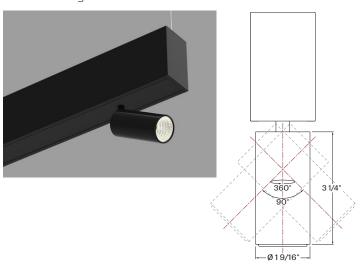
LUMENWERX

PENDANT PATTERN STATIC WHITE, BIOS

ADJUSTABLE LED ACCENT MODULE (AAM)

The Adjustable Accent Module (AAM) features a Ø 1 9/16" \times 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.

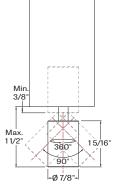
The AAM module can be selected in either a white or black finish and a honeycomb louver accessory is also available. The AAM driver is mounted above the cylinder, inside the SQUERO housing and accepts universal input voltage (120-277VAC) while providing 0-10V dimming control.



MICRO SPOT (MS)

The Micro Spot is a Ø 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 dimming 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.

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.



