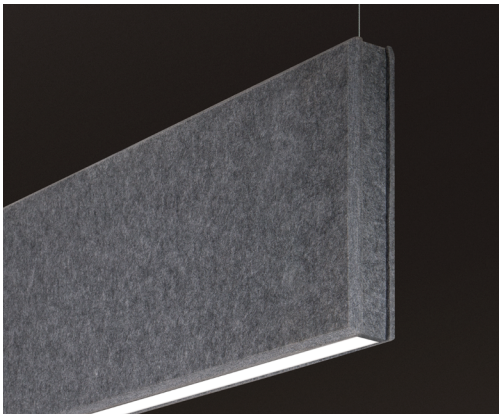
VIA 1.5

ACOUSTIX - STATIC WHITE, BIOS ST/DY

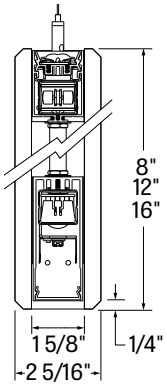
LUMENWERX

Project: _____

Type: _____



Section View



Direct/Indirect

Via 1.5 Acoustix is an acoustic environmentally sound linear luminaire system for pendant installation available in set lengths or continuous runs. Via 1.5 Acoustix features numerous optical configurations, flush and drop diffuser as well as other light distributions which are difficult to achieve in such a compact acoustic luminaire. Via 1.5 Acoustix is available in Static White and Biologically optimized lighting. Chromawerx QUADRO, DUO and SOLA are also available, see separate spec sheets.

Performance

Based on 3500K, 80CRI

DISTRIBUTION	TOTAL LUMENS PER 4FT	EFFICACY lm/W
Direct	2000 lm	74 lm/W
Direct/Indirect	4400 lm	94 lm/W
Indirect (WIO2)	3000 lm	108 lm/W

Order Guide

LUMINAIRE ID	DISTRIBUTION	DIRECT OPTICS	DIRECT LENS POSITION	INDIRECT OPTICS	LIGHT SOURCE	CRI	DIRECT LUMEN PACKAGES	INDIRECT LUMEN PACKAGES
VIA1.5ACOP		**HLO**		**WIO2**				

VIA1.5ACOP - Via 1.5 Acoustix Pendant

DI [1] - Direct/Indirect
D - Direct
I [1] - Indirect

[1] Not available with BIOS.

HLO - High-Efficiency Lambertian Optic

FH - Flush
1.5D - 1.5" drop

WIO2 - Widespread Indirect Optic

SW - Static white
BIOSST - Static biologically-optimized lighting
BIOSDY - Dynamic biologically-optimized lighting

80 - 80CRI
90 [2] - 90CRI

[2] Not available with BIOS.

350 - Min. low output 350lm/ft
500 - Medium output 500lm/ft
750 [3 4] - Max. high output 750lm/ft

350 - Min. low output 350lm/ft
500 - Medium output 500lm/ft
750 [3 4] - Max. high output 750lm/ft

[3] Not available with BIOS.
[4] For DI fixtures, the max. high output (750lm/ft) can only be combined with 500lm/ft output or less.

COLOR TEMP	LUMINAIRE LENGTH	LUMINAIRE HEIGHT	VOLTAGE	DRIVER	ELECTRICAL

27 [5] - 2700K
30 - 3000K
35 - 3500K
40 - 4000K

[5] Not available with BIOS.

Standard individual sections (nominal length): 4', 6', 8'
Continuous runs: lengths over 8', built with 4', 6', 8' sections

#FT [6] - Specify nominal length (#) in 2 foot increments

[6] Consult factory for other lengths.

8 - 8 inches
12 - 12 inches
16 - 16 inches

120 -120V
277 - 277V
UNV - 120V-277V
347 [7] - 347V

[7] Not available with Lutron.

D1 - 1% 0-10V
DA [8] - DALI
LTEA2W - Lutron 1% - 2 wire FP 120V
LDE1 [8] - Lutron Hi-lume 1% Eco
LDE5 [8] - Lutron 5% EcoSystem

[8] On-site commissioning is required.

1 - 1 circuit
2 - 2 circuits
+#EB [9] - Emergency battery
+#EM - Emergency light circuit
+#NL - Night light circuit

[9] Not available with BIOS-DY.

MOUNTING	FIXTURE FINISH	FELT COLOR	OPTIONS
	W		

53WAC36W [10] - 36" aircraft cable, white canopies (5" power + 3" non-power), white power cord
53WAC36B [10] - 36" aircraft cable, white canopies (5" power + 3" non-power), black power cord
55WSW18 - 18" white stem, white canopies (5" power + 5" non power)

[10] Power cord is 6" longer than suspension length. Consult factory for other lengths.

For all other options, refer to our Pendant Mounting Guide

W - Matte white

STANDARD COLORS

FWN	LVN	
FON	LEN	
ION	CYN	
TBN	PMN	
MDN	FGN	

PREMIUM COLORS [11 12]

PKN	CDN	IVN	BHN
OGN	LCN	SLN	CFN
LNN	SYN	CNN	GRN
LMN	BLN	GHN	MON
EGN	NVN	CLN	ESN

[11] Please consult factory for more color options.
[12] Lead time may vary.

FU - Fuse
TB# - T-bar caddy clip, specify grid size
TG# - Tegular caddy clip, specify grid size
ST - Screw slots caddy clip
CU - Custom

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VIA1.5-ACOUSTIX-SW-SPEC-REV5 February 16, 2023

bios WELL WELL WELL

VIA 1.5

ACOUSTIX - STATIC WHITE, BIOS ST/DY

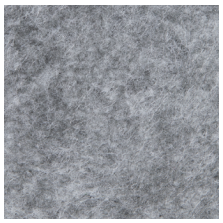
LUMENWERX

Project: _____

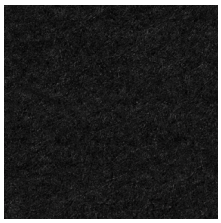
Type: _____

Standard Color Options

FWN - FROST WHITE


FON - FOG

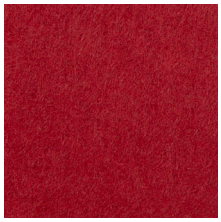

ION - IRON


TBN - TRUE BLACK


MDN - MIDNIGHT BLUE


LVN - LAVENDER


LEN - LATTE

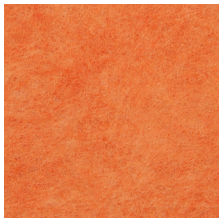

CYN - CHERRY

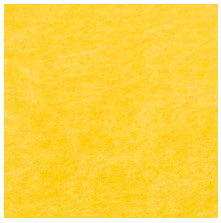

PMN - PLUM

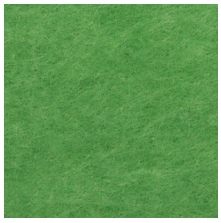

FGN - FOREST GREEN

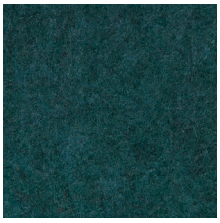
Premium Color Options*


PKN - PAPRIKA

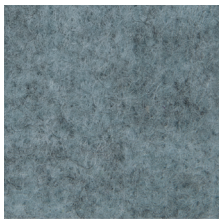

OGN - ORANGE

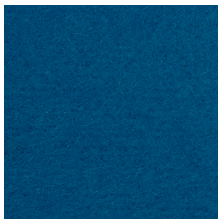

LNN - LEMON

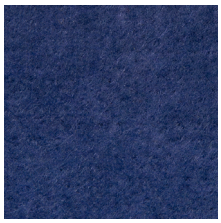

LMN - LIME

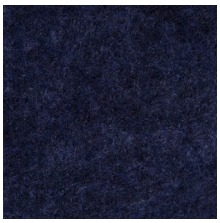

EGN - EVERGREEN


CDN - CLOUDY


LCN - LICHEN


SYN - SKY

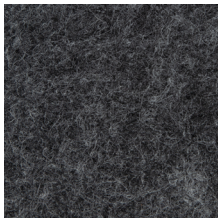

BLN - BLUEBERRY

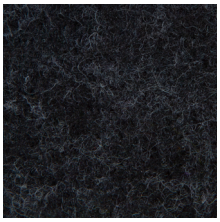

NVN - NAVY

IVN - IVORY


SLN - STEEL


CNN - CARBON


GHN - GRAPHITE


CLN - CHARCOAL


BHN – BLUSH


CFN - CAFÉ


GRN - GREIGE


MON - MOCHA


ESN - ESPRESSO

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

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VIA 1.5

ACOUSTIX - STATIC WHITE, BIOS ST/DY

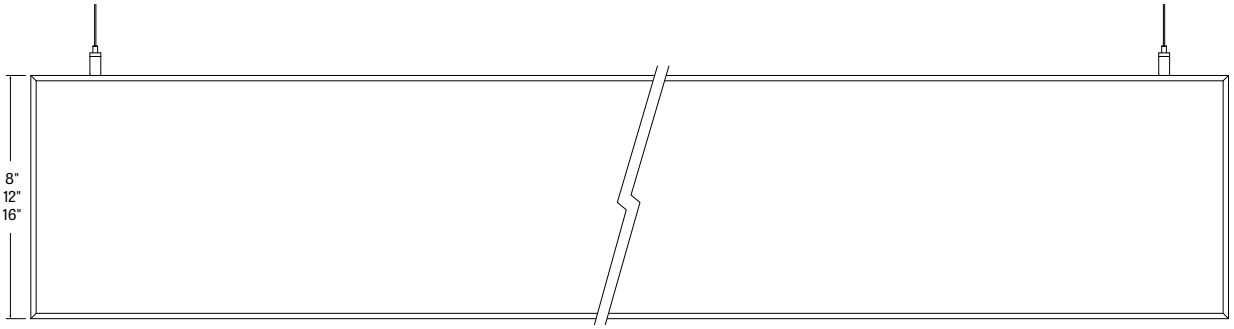
LUMENWERX

Project: _____

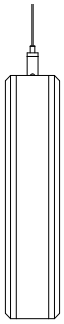
Type: _____

DIMENSIONS

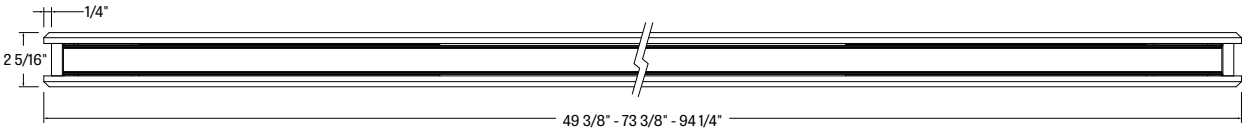
Front view



Side view



Bottom view



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VIA 1.5

ACOUSTIX - STATIC WHITE, BIOS ST/DY

LUMENWERX

Project: _____

Type: _____

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 feet.

① 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%
☺☺☺ BEST	50%

		Room dimensions under 300 sq ft			Room dimensions over 300 sq ft		
LENGTH	HEIGHT	GOOD ☺	BETTER ☺☺	BEST ☺☺☺	GOOD ☺	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: Via 1.5 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**

NOTES:
- 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.

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VIA 1.5

ACOUSTIX - STATIC WHITE, BIOS ST/DY

LUMENWERX

Project: _____

_____

Type: _____

Technical Specifications

OPTICS

High-Efficiency Lambertian Optic (HLO) - shielding of diffusing 0.075" thick acrylic provides up to 88% transmission and good source obscuration. Matte white reflectors distribute LED output across the shielding. Luminaire brightness is controlled by the ratio of luminous flux to shielding area. HLO is available as a flush diffuser or as a drop diffuser, extending 1.5" below the luminaire housing. Drop diffuser is extruded with glued end caps.
Widespread Indirect Optic (WIO2) - Vertically oriented LED arrays couple light into a linear light guide. A specially designed TIR/microstructure extracts light into the desired “batwing” distribution with smooth ceiling brightness and wide spacing.

LIGHT SOURCE - LED

Custom linear array of mid-flux LEDs are cartridge-mounted with quick-connect wiring to facilitate service and thermal management. Available in 2700K, 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 operate at reduced drive current to optimize efficacy and lumen maintenance.

LUMINAIRE LENGTH

Via 1.5 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 joiner kits 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% (specify 2-wire, or Ecosystem Dim-to-Off), Lutron 5-Series (5% Ecosystem), and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant.

EMERGENCY REMOTE

Factory installed long life high temperature recyclable Ni-Cad battery pack with test switch and charge indicator, minimum of 90 minutes operation, up to 1000 lumens per 4ft (25°C) emergency lighting output. Recharge time of 24 hours.

WEIGHT

Direct, and Indirect -
Via 1.5 Acoustix 4ft - 11.36- 5.15kg
Via 1.5 Acoustix 8ft - 22.73lbs - 10.31kg
Direct/Indirect -
Via 1.5 Acoustix 4ft - 11.36- 5.15kg
Via 1.5 Acoustix 8ft - 22.73lbs - 10.31kg

MOUNTING OPTIONS

For cable-mounted fixtures - 53WAC36 (5" white canopy for all power mounting point, 3" white canopy for non power mounting point, and a 36" cable)
For stem mounted fixtures - 55WSW18 (5" white canopy for all power mounting point, and non power mounting point, and a 18" white stem)
Caddy clips, if required specify under OPTIONS

CONSTRUCTION

Housing - Extruded aluminum (0.095" nominal) up to 90% recycled content
Interior brackets - Die formed cold rolled sheet steel 18 gauge thick
Joining system - Die cast zinc (0.95" nominal)
Reflectors - Cold rolled steel 0.024” thick precisely die formed, 95% reflective matte white painted
Diffuser - 0.075" thick acrylic, 88% transmission
Drop diffuser - Extruded with glued end caps
End caps - Die cast aluminum (0.95" nominal)
Hanger - Chromed Griplock securely attached with spring steel hardware in end caps and/or joiners
Aircraft cable suspension - 7x7 braids aluminum aircraft cable 0.06" thick
Stem - 0.5" diameter threaded steel tube matte white or aluminum powder coating. Custom finishes are also available.

FINISH

Interior - 95%, reflective matte powder coated white paint
Exterior - matte white powder coating

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.

CARE

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

ENVIRONMENT

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

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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VIA1.5-ACOUSTIX-SW-SPEC-REV5 February 16, 2023

VIA 1.5

ACOUSTIX - STATIC WHITE, BIOS ST/DY

LUMENWERX

Project: _____

Type: _____

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 54 or L03 when BIOS LED is selected
- Feature 55 or L04 meets WELL glare category (a-c-d)
- Feature 58 or L07 when 90CRI is selected

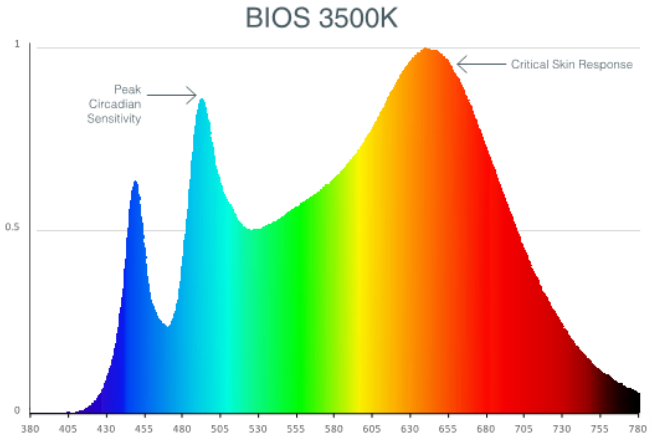
All LED drivers used at Lumenwerx are deemed to have a low risk level of flicker, of 5 % or less below 90Hz operational as defined by IEEE standard 1789-2015 LED.

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, smooth optics, and a sound diminishing element. 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.

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 (460 nm) to align better with the peak response of circadian stimulus. Also note the enhanced deep-red (near 660 nm) spectrum.



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VIA1.5-ACOUSTIX-SW-SPEC-REV5 February 16, 2023

VIA 1.5

ACOUSTIX - STATIC WHITE, BIOS ST/DY

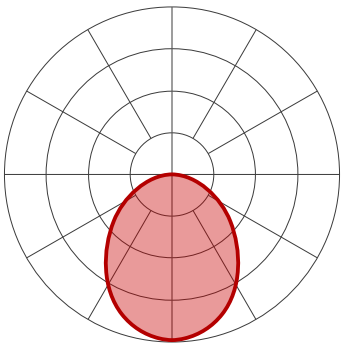
LUMENWERX

Project: _____

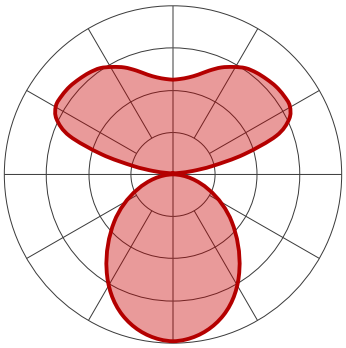
Type: _____

Photometrics

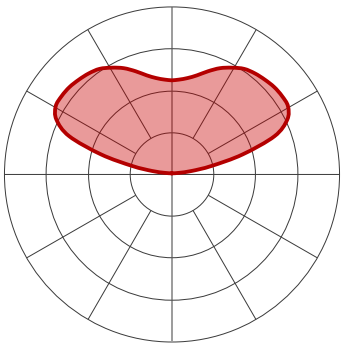
Please follow the multiplier tables to ensure correct lumen value. Lensing, CCT, and CRI will change the lumen output.



DIRECT (HLO-FH)



DIRECT/INDIRECT (HLO-FH-WIO2)



INDIRECT (WIO2)

DIRECT

HLO-FH Delivered Lumens for Flush at 35K 80CRI

Lumens per Foot	Total Lumens Per 4FT	Input Watts	LPW
350	1400	19.5	72
500	2000	27	74
750	3000	41	73

DIRECT/INDIRECT

HLO-FH-WIO2 Delivered Lumens for Flush at 35K 80CRI

Lumen Package (Direct + Indirect)	Direct	Indirect	Total Lumens Per 4FT	Input Watts	LPW
350+350	1400	1400	2800	32.47	86
350+500	1400	2000	3400	38.21	89
350+750	1400	3000	4400	47.04	94
500+350	2000	1400	3400	40.15	85
500+500	2000	2000	4000	45.89	87
500+750	2000	3000	5000	54.72	91
750+350	3000	1400	4400	54.47	81
750+500	3000	2000	5000	60.2	83

INDIRECT

WIO2 Delivered Lumens at 35K 80CRI

Lumens per Foot	Total Lumens Per 4FT	Input Watts	LPW
350	1400	13.11	107
500	2000	18.84	106
750	3000	27.67	108

DIRECT

Multiplier - Drop Lens

Direct lens	Watts Multiplier	LPW Multiplier
Flush lens	1.00	1.00
Drop lens 1.5"	0.88	1.14

DIRECT/INDIRECT

Multiplier - Drop Lens

Direct lens	Watts Multiplier	LPW Multiplier
Flush lens	1.00	1.00
Drop lens 1.5"	0.91	1.10

Multiplier - CCT/CRI

CCT (K)	Watts Multiplier		LPW Multiplier	
	CRI80	CRI90	CRI80	CRI90
2700	1.05	1.26	0.95	0.79
3000	1.01	1.23	0.99	0.81
3500	1.00	1.20	1.00	0.84
4000	1.00	1.17	1.00	0.85

INDIRECT

Multiplier - CCT/CRI

CCT (K)	Watts Multiplier		LPW Multiplier	
	CRI80	CRI90	CRI80	CRI90
2700	1.04	1.06	0.96	0.96
3000	1.01	1.09	0.97	0.92
3500	1.00	1.08	1.00	0.93
4000	0.98	1.06	1.02	0.95

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.

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

Intertek

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