VLX-1 LED Specifications

Area - Site - Commercial - Outdoor

Arm Mount (AM) Version Shown.

The VLX LED Series offers clean, functional styling that is defined by its sleek low profile design and rugged construction. It combines LED performance and advanced LED thermal management technology and provides outdoor lighting that is both energy efficient and aesthetically pleasing.

The LED's performance and the driver's life are maximized by enclosing them in two separate die cast aluminum housings. Easy tool-less access for mounting and maintenance.

The LED light assemblies come with 96 to 192 LEDs. Available with 17 IES distribution patterns.
- CRI values are 70, 80 or 90.
- CCT values are 2700K, 3000K, 3500K, 4000K, 5000K

The VLX Series offers an impressive output of up to 87,000 lumens with a wattage package reaching up to 629 watts, delivering an average efficiency of 143 lumens per watt. With integrated controls, the VLX ensures optimal lighting coverage while minimizing energy consumption.

A durable polyester powder coat finish is guaranteed for five years; and is available in standard or custom colors.

The VLX LED series is an exceptional choice for commercial parking lots, office complexes, architectural projects, and other general lighting projects.

Project Name:	
Catalog Number:	
Type:	
Date:	Location:

MODEL

VLX-1

OPTICS

T1
Type 1
T2
Type 2
T3
Type 3
T3R
Type 3 Round
T3W
Type 3 Wide
T3LG
Type 3 Low Glare
T4
Type 4
T4A
Type 4
Automotive
T4FT
Type 4
Forward Throw
T4LG
Type 4 Low Glare

T5
Type 5
T5W
Type 5 Wide
T5WW
Type 5
Extra Wide
T5LG
Type 5 Low Glare
FN
Flood Narrow
FM
Flood Medium
FW
Flood Wide

LEDs

96LD

128LD

160LD

192LD

CURRENT

3
350mA
5
530mA
7
700mA
10
1050mA
*Not available with
Z10, Z18, VWC,DTO
7PINPER

CCT

27K7 27K8 27K9
2700K 70, 80, & 90 CRI

30K7 30K8 30K9
3000K 70, 80, & 90 CRI

35K7 35K8 35K9
3500K 70, 80, & 90 CRI

40K7 40K8 40K9
4000K 70, 80, & 90 CRI

50K7 50K8 50K9
5000K 70, 80, & 90 CRI

VOLTAGE

UNV
120-277V
8
347V
5
480V

MOUNTING

AM
Arm Mount

Round Pole Plate Adaptors (RPP) are to be ordered separately.

WM
Wall Mount
*Requires BAWP

BAWP to be ordered separately.

FINISH

BZ
Bronze
BK
Black
GY
Grey
SBK
Smooth
Black
WH
White
SWH
Smooth
White
GP
Graphite
GY
Grey
SL
Silver Metallic
ZFP
Zinc-Free
Primer Coat
CC
Custom
Color

CONTROL OPTIONS

PCR-120 PCR-208
PCR-240 PCR-277
PCR-347 PCR-480
Photocell & Receptacle
7PINPER
7 Pin Photo Receptacle
w/shorting cap
Requires Dimming Driver
DIM
0-10v Dimming Driver
DTO
Dim to Off Driver

WSP-8 WSP-20 WSP-40

8' Mounting Height	9-20' Mounting Height	21-40' Mounting Height

WSC-8 WSC-20 WSC-40

8' Mounting Height	9-20' Mounting Height	21-40' Mounting Height

*The WSC option will require
(1) FSIR 100 remote
for programing

Z10 or **Z18**
Zhaga 4 Pin Receptacle
VWC
Visionaire
Wireless Control

SHIELD OPTIONS

CLS
Backside cutoff shield

RCLS
Rightside cutoff shield

LCLS
Leftside cutoff shield

BHS
House shield

OPTIONS

RPP-3"
RPP-4"
RPP-5"
Round Pole Plate Adapter
UPMA-S
Universal
Square Pole
Mount Adapter
UPMA-R
Universal
Round Pole
Mount Adapter
BAWP
Cast Wall Plate
ROT-R
Rotated Optics
Right Side
ROT-L
Rotated Optics
Left Side
BBG
Bird Spikes
BAA
Buy America(n)
Act Compliant

Phone: 310 512 6480
www.visionairelighting.com

Features & Specifications

Heatsink
· Die-cast aluminum heatsink with integral cooling fins provides superior thermal management and long-term performance.

Mounting Arm / Driver Compartment
· Durable two-piece die-cast aluminum driver compartment features a tool-less, push-button latch for fast and easy maintenance.
· Sealed with a one-piece silicone gasket for maximum protection against the elements.
· Meets ANSI C136.31-2010, 1.5G Vibration Standards.

Thermal Management
· The VLX Series delivers exceptional thermal performance by mounting the LED arrays directly to the substantial cast-aluminum heatsink, allowing operation in higher ambient temperatures and at elevated drive currents without compromising LED life.
· L70 Lifetime: The VLX Series LEDs are rated at 90,000+ hours at 25°C when driven at 350 mA, based on industry-standard L70 testing (70% of initial lumen output).

Optical System
· High-output LEDs ensure maximum delivered lumens and system efficiency.
· Available with 17 precision IES distribution patterns.
· LED engines available in multiples of 32 LEDs.
· CRI Options: 70, 80, or 90.
· CCT Options: 2700K, 3000K, 3500K, 4000K, 5000K.

Quali-Guard® Finish
· Textured, chemically pre-treated surface using a multi-stage wash process.
· Electrostatic application of a thermoset polyester powder-coat, 3–5 mils minimum thickness, oven-baked at 400°F for superior adhesion and durability.
· Available in all standard and custom colors.
· Optional Zinc-Free Primer: Recommended for installations within three miles of the ocean.
· Finish guaranteed for five (5) years.

Electrical Assembly
· The VLX Series is supplied with a choice of 350, 530, 700, or 1050mA high-performance LED drivers, that accept 120v thru 480v, 50 Hz to 60 Hz, input.
· Rated for -40 °C to +55 º C operations.
· Power factor of 90%.
· THD less than or equal to 20%
· 10 kV surge protector supplied as standard.
· 0-10v Dimming Driver supplied as standard.
· Terminal block supplied as standard.

Warranty
Five (5) year Limited Warranty on entire system, including finish. For full warranty information, please visit visionairelighting.com.

Options
· Photocell & Receptacle (PCR)
· Photo Receptacle (PER) (5/7PINPER)
· Motion Sensor FSP-211 Title 24 Compliant (WSC)
· 0-10V Dimming Driver (DIM)
· Back House Shield (BHS)
· Cut-Off Louver Shield (CLS)
· Round pole plate adaptor (RPP)
· Zhaga 4 Pin Receptacle

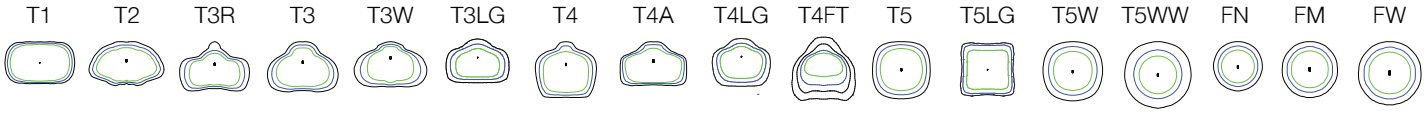
Listings
· The VLX Series is cUL Listed
· IP65 Rated
· Powder Coated Tough.
· IDA Certification

POWDER COATED TOUGH™ ANSI c UL us LISTED IP65 RATED IDA BUY AMERICAN ACT COMPLIANT

3000K or lower must be selected with a fixed mount for IDA certification.
Fixed mount must be selected for IDA dark sky certification.

VLX-1 - ELECTRICAL LOAD (A)							
Ordering Nomenclature	System Watts	120	208	240	277	347	480
VLX-1-T5-96LD-3	99	0.82	0.47	0.41	0.36	0.28	0.21
VLX-1-T5-96LD-5	152	1.27	0.73	0.63	0.55	0.44	0.32
VLX-1-T5-96LD-7	204	1.70	0.98	0.85	0.74	0.59	0.42
VLX-1-T5-96LD-10	314	2.62	1.51	1.31	1.14	0.91	0.66
VLX-1-T5-128LD-3	132	1.10	0.63	0.55	0.47	0.38	0.27
VLX-1-T5-128LD-5	203	1.69	0.98	0.85	0.73	0.58	0.42
VLX-1-T5-128LD-7	272	2.27	1.31	1.13	0.98	0.78	0.57
VLX-1-T5-128LD-10	419	3.49	2.02	1.75	1.51	1.21	0.87
VLX-1-T5-160LD-3	164	1.37	0.79	0.68	0.59	0.47	0.34
VLX-1-T5-160LD-5	254	2.11	1.22	1.06	0.92	0.73	0.53
VLX-1-T5-160LD-7	340	2.83	1.63	1.42	1.23	0.98	0.71
VLX-1-T5-160LD-10	524	4.37	2.52	2.18	1.89	1.51	1.09
VLX-1-T5-192LD-3	197	1.64	0.95	0.82	0.71	0.57	0.41
VLX-1-T5-192LD-5	304	2.53	1.46	1.27	1.10	0.88	0.63
VLX-1-T5-192LD-7	408	3.40	1.96	1.70	1.47	1.17	0.85
VLX-1-T5-192LD-10	629	5.24	3.02	2.62	2.27	1.81	1.31

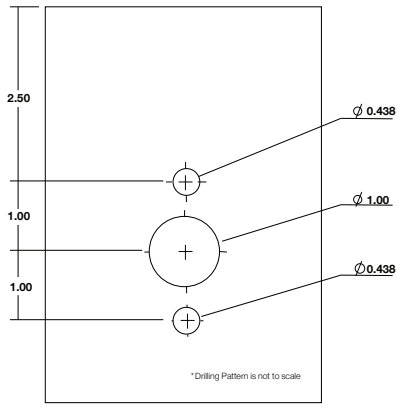
Photometric Optical Summary

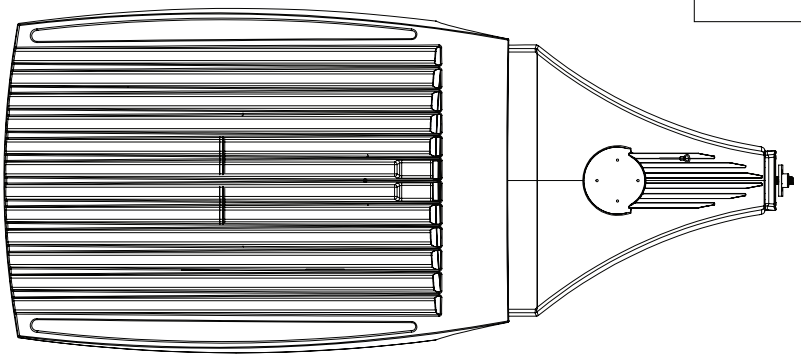


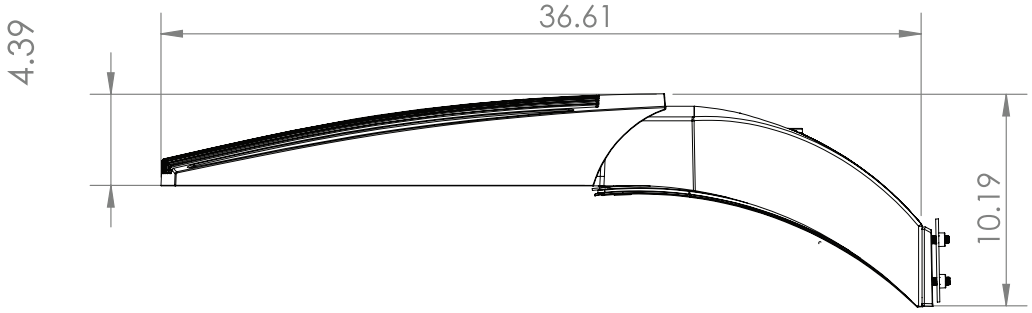
EPA Data						
	1.0	1.6	2.0	2.5	2.4	2.5

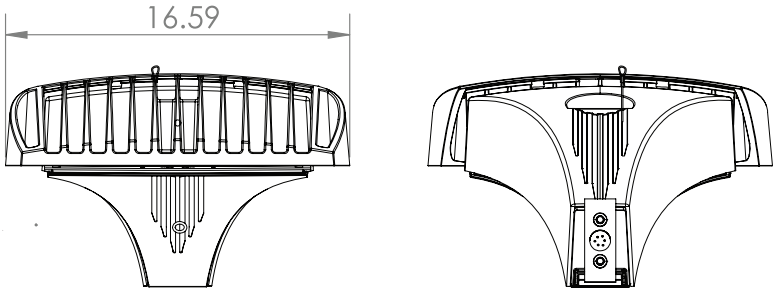
Dimensions

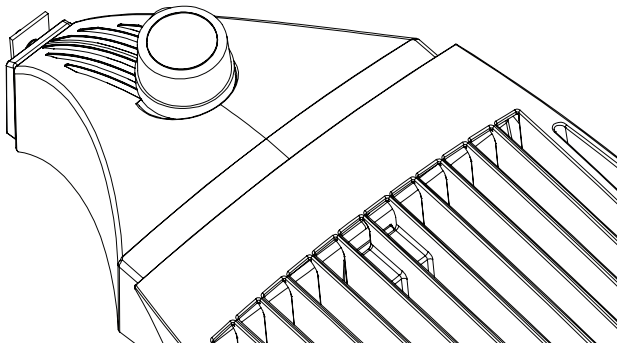
Width:	VLX-1	16.5”
Depth:	VLX-1	36.6”
Height:	VLX-1	4.39”
Overall Height:	VLX-1	10.19”
Weight:	58 LBS	





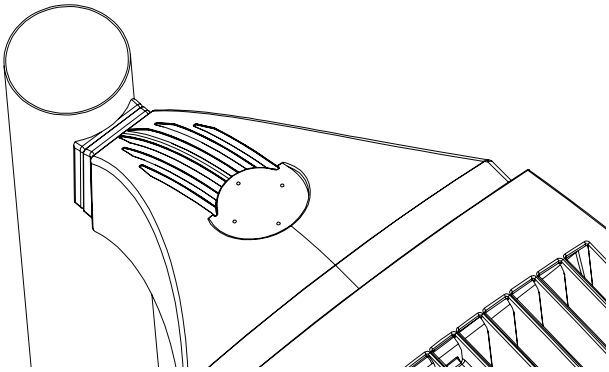






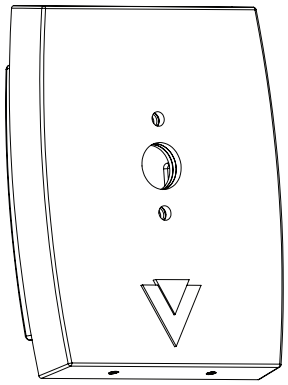
Twist lock Photocell & Receptacle

Dusk to dawn sensor.



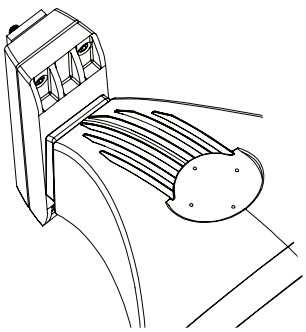
Round Pole Plate Adapter

Round Pole Plate Adapter to be used with round pole.



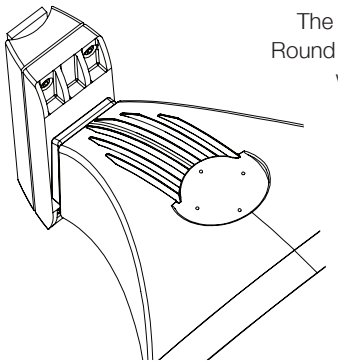
Bolt-On Arm Wall Plate

Arm mount wall plate is needed to wall mount the VLX.



UPMA

The Universal Pole Mount Adapter is ideal for retrofit applications with existing square poles. This adapter is slotted to fit any existing drilling pattern, up to 6 ½" bolt to bolt maximum.

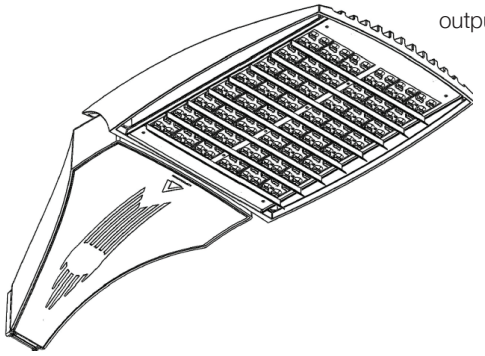


UPMA-R

The Universal Pole Mount Adapter Round is ideal for retrofit applications with existing round poles. This adapter is slotted to fit any existing drilling pattern, up to 6 ½" bolt to bolt maximum.

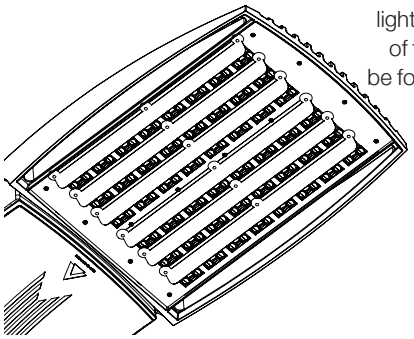
CLS

The back side cutoff louver shield will reduce light output behind the fixture, all of the light will be focused in front of the VLX.



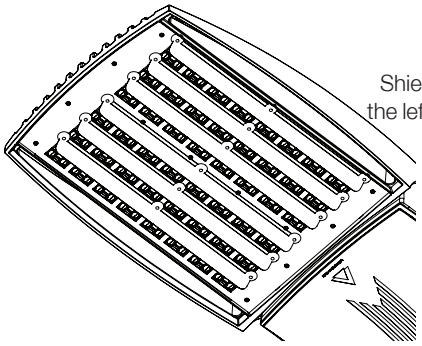
RCLS

The Right Side Cutoff Louver Shield will reduce light output on the right side of the fixture, all of the light be focused on the left side of the VLX.



LCLS

The Left Side Cutoff Louver Shield will reduce light output on the left side of the fixture, all of the light be focused on the right side of the VLX.



Zhaga Socket

Zhaga sockets and controllers use 4-pin contacts that carry different functions, such as voltage, dimming, and auxiliary power.

WATTSTOPPER PLUS
FSP-600 Series

The FSP-600 series by Wattstopper PLUS is an integrated luminaire level lighting controller and sensor for indoor/outdoor lighting applications that require networked wireless control. The FSP-600 is designed to integrate directly into exterior, high bay, parking garage, and general site lighting solutions. It is a passive infrared (PIR) sensor and closed loop photosensor.

The FSP-600 series design intends to reduce installer labor time and make on-site start up easy for technicians.

Once commissioned and paired to a Wattstopper PLUS network, the devices can measure both motion and daylight contribution in order to automatically switch or dim lighting. It also provides the ability to communicate to other fixtures in the space without any front-end devices.

The Wattstopper PLUS FSP-600 series is available in a few different options including: internal, external straight nipple, and external drop nipple. Sensor lens options sold separately and should be ordered based on designed mounting height and desired finish.

FSP-621

FSP-200 Series

The FSP-200 series sensors provide multi-level control based on motion and/or daylight contribution. They control 0-10 VDC LED drivers or dimming ballasts, as well as non-dimming ballasts and, with an FSP-Lx Lens, are rated for wet and cold locations. All control parameters are adjustable via a wireless configuration tool capable of storing and transmitting sensor profiles. The FSP-200 series is available in two different voltage configurations adding flexibility to your fixture design or project.

Typically, the sensor ramps lighting On to the selected High mode level when motion is detected and the ambient light level is below the hold off setpoint. After the sensor stops detecting movement and the time delay elapses, lights fade to the Low mode level. If there is no motion during the subsequent cut off time delay, the lights will turn Off. For dusk to dawn control, the integral photocell can switch the lights On and Off based on the ambient light level so that lighting remains on overnight even without motion detection.

Initial setup and subsequent sensor adjustments are made using a Wireless Handheld Configuration Tool (FSIR-100). This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cut off and more. The FSIR-100 is also used to initiate automatic calibration of the FSP-2x1B ambient light level setpoint. The setpoint is used to hold the controlled lighting off or at a low level when there is sufficient daylight. The wireless tool stores up to six sensor parameter profiles to speed configuration of multiple sensors.

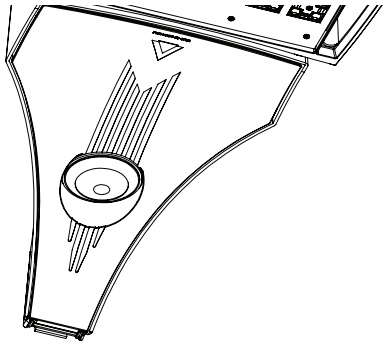
FSP-211

FSP-221

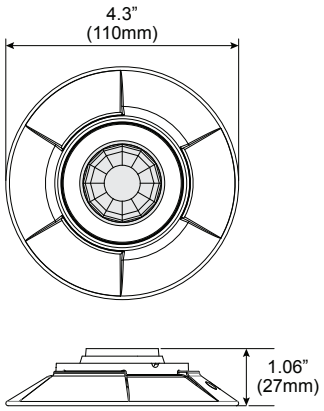
Lens with Shroud Dimensions

The FSP-Lx-S models include a shroud, which blocks high-angle light coming from the fixture, to improve photocell performance. With the shroud attached, the dimensions for all three lenses are identical

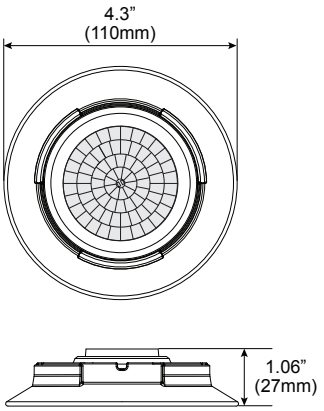
VLX Lens Placement



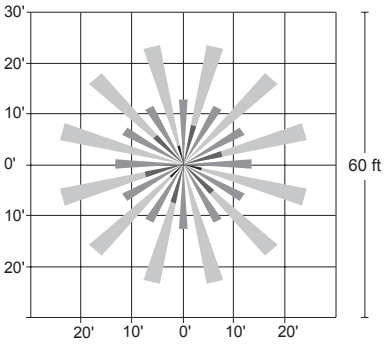
FSP-L2-S and FSP-L3-S

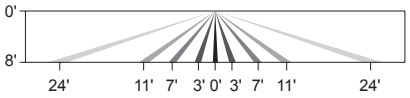


FSP-L7-S

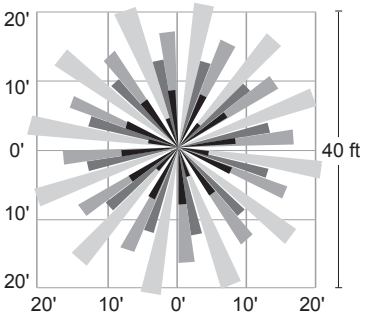


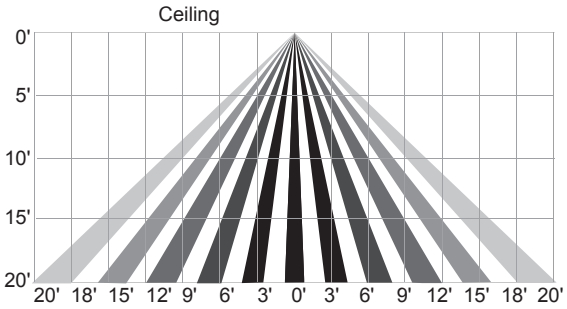
COVERAGE



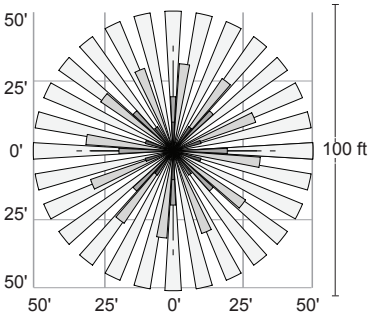


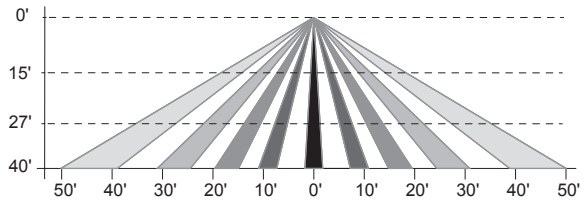
FSP-L2 top and side coverage patterns





FSP-L3 top and side coverage patterns





FSP-L7 top and side coverage patterns

VLX-1 LED SPECIFICATIONS / Forward Optics																												
Led Count	Current & Watts	Distribution Type	70CRI																									
			27K					30K					35K					40K					50K					
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
96LD	350 mA (98.6W)	T1	15708	4	0	4	159	16391	4	0	4	166	16391	4	0	4	166	16220	4	0	4	165	17074	4	0	4	173
		T2	15261	3	0	3	155	15924	3	0	3	162	15924	3	0	3	162	15759	3	0	3	160	16588	3	0	3	168
		T3R	15488	3	0	3	157	16162	3	0	3	164	16162	3	0	3	164	15993	3	0	3	162	16835	3	0	4	171
		T3	15321	3	0	3	155	15987	3	0	3	162	15987	3	0	3	162	15820	3	0	3	160	16653	3	0	3	169
		T3W	15613	2	0	3	158	16292	2	0	3	165	16292	2	0	3	165	16122	2	0	3	164	16971	3	0	3	172
		T3LG	15662	3	0	2	159	16343	3	0	2	166	16343	3	0	2	166	16173	3	0	2	164	17024	3	0	2	173
		T4	15408	3	0	3	156	16078	3	0	3	163	16078	3	0	3	163	15910	3	0	3	161	16748	3	0	3	170
		T4A	16228	3	0	2	165	16933	3	0	2	172	16933	3	0	2	172	16757	3	0	2	170	17639	3	0	2	179
		T4LG	15616	2	0	2	158	16295	2	0	2	165	16295	2	0	2	165	16125	2	0	2	164	16974	2	0	2	172
		T4FT	15862	3	0	3	161	16552	3	0	3	168	16552	3	0	3	168	16380	3	0	3	166	17242	3	0	3	175
		T5	16185	4	0	2	164	16888	4	0	2	171	16888	4	0	2	171	16713	4	0	2	169	17592	4	0	2	178
		T5LG	15770	3	0	2	160	16456	3	0	2	167	16456	3	0	2	167	16284	3	0	2	165	17141	3	0	2	174
		T5W	15633	4	0	2	159	16313	4	0	2	165	16313	4	0	2	165	16143	4	0	2	164	16993	4	0	2	172
		T5WW	14840	4	0	2	151	15485	4	0	2	157	15485	4	0	2	157	15324	4	0	2	155	16130	4	0	2	164
		FN	15993	5	0	1	162	16688	5	0	1	169	16688	5	0	1	169	16514	5	0	1	167	17383	5	0	1	176
		FM	16301	5	0	1	165	17010	5	0	1	173	17010	5	0	1	173	16832	5	0	1	171	17718	5	0	1	180
		FW	16245	4	0	1	165	16952	4	0	1	172	16952	4	0	1	172	16775	4	0	1	170	17658	4	0	1	179
96LD	530 mA (152.1W)	T1	23229	4	0	4	153	24239	4	0	4	159	24239	4	0	4	159	23986	4	0	4	158	25249	4	0	4	166
		T2	22568	3	0	4	148	23549	3	0	4	155	23549	3	0	4	155	23303	3	0	4	153	24530	3	0	4	161
		T3R	22904	3	0	4	151	23899	3	0	4	157	23899	3	0	4	157	23651	3	0	4	156	24895	3	0	5	164
		T3	22656	3	0	3	149	23641	3	0	3	155	23641	3	0	3	155	23394	3	0	3	154	24626	3	0	3	162
		T3W	23088	3	0	3	152	24092	3	0	4	158	24092	3	0	4	158	23841	3	0	4	157	25096	3	0	4	165
		T3LG	23161	3	0	3	152	24168	3	0	3	159	24168	3	0	3	159	23916	3	0	3	157	25175	3	0	3	166
		T4	22785	3	0	3	150	23775	3	0	3	156	23775	3	0	3	156	23528	3	0	3	155	24766	3	0	4	163
		T4A	23997	3	0	3	158	25041	3	0	3	165	25041	3	0	3	165	24780	3	0	3	163	26084	3	0	3	172
		T4LG	23092	3	0	2	152	24096	3	0	3	158	24096	3	0	3	158	23845	3	0	3	157	25100	3	0	3	165
		T4FT	23457	3	0	4	154	24477	3	0	4	161	24477	3	0	4	161	24222	3	0	4	159	25497	3	0	4	168
		T5	23934	4	0	2	157	24974	4	0	2	164	24974	4	0	2	164	24714	4	0	2	163	26015	4	0	3	171
		T5LG	23320	4	0	2	153	24334	4	0	2	160	24334	4	0	2	160	24081	4	0	2	158	25348	4	0	2	167
		T5W	23118	5	0	3	152	24123	5	0	3	159	24123	5	0	3	159	23872	5	0	3	157	25129	5	0	3	165
		T5WW	21945	5	0	3	144	22899	5	0	3	151	22899	5	0	3	151	22661	5	0	3	149	23853	5	0	3	157
		FN	23650	5	0	1	156	24678	5	0	2	162	24678	5	0	2	162	24421	5	0	1	161	25706	5	0	2	169
		FM	24105	5	0	1	159	25153	5	0	1	165	25153	5	0	1	165	24891	5	0	1	164	26202	5	0	1	172
		FW	24023	4	0	2	158	25068	4	0	2	165	25068	4	0	2	165	24807	4	0	2	163	26112	5	0	2	172
96LD	700 mA (203.8W)	T1	29560	4	0	4	145	30845	4	0	4	151	30845	4	0	4	151	30524	4	0	4	150	32130	5	0	5	158
		T2	28718	4	0	5	141	29967	4	0	5	147	29967	4	0	5	147	29654	4	0	5	145	31215	4	0	5	153
		T3R	29146	4	0	5	143	30413	4	0	5	149	30413	4	0	5	149	30096	4	0	5	148	31680	4	0	5	155
		T3	28830	3	0	4	141	30084	3	0	4	148	30084	3	0	4	148	29770	3	0	4	146	31337	3	0	4	154
		T3W	29381	3	0	4	144	30658	3	0	4	150	30658	3	0	4	150	30339	3	0	4	149	31936	3	0	4	157
		T3LG	29473	3	0	3	145	30754	3	0	3	151	30754	3	0	3	151	30434	3	0	3	149	32036	3	0	3	157
		T4	28994	4	0	4	142	30255	4	0	4	148	30255	4	0	4	148	29940	4	0	4	147	31516	4	0	4	155
		T4A	30538	3	0	3	150	31865	3	0	3	156	31865	3	0	3	156	31533	3	0	3	155	33193	3	0	3	163
		T4LG	29386	3	0	3	144	30663	3	0	3	150	30663	3	0	3	150	30344	3	0	3	149	31941	3	0	3	157
		T4FT	29850	3	0	5	146	31147	3	0	5	153	31147	3	0	5	153	30823	3	0	5	151	32445	3	0	5	159
		T5	30456	5	0	3	149	31781	5	0	3	156	31781	5	0	3	156	31450	5	0	3	154	33105	5	0	3	162
		T5LG	29676	4	0	2	146	30966	4	0	2	152	30966	4	0	2	152	30643	4	0	2	150	32256	4	0	3	158
		T5W	29419	5	0	3	144	30698	5	0	3	151	30698	5	0	3	151	30378	5	0	3	149	31977	5	0	4	157
		T5WW	27926	5	0	3	137	29140	5	0	3	143	29140	5	0	3	143	28836	5	0	3	141	30354	5	0	4	149
		FN	30095	5	0	2	148	31404	5	0	2	154	31404	5	0	2	154	31076	5	0	2	152	32712	5	0	2	160
		FM	30675	5	0	1	150	32009	5	0	2	157	32009	5	0	2	157	31675	5	0	2	155	33342	5	0	2	164
		FW	30571	5	0	2	150	31900	5	0	2	156	31900	5	0	2	156	31568	5	0	2	155	33229	5	0	2	163
96LD	1050 mA (314.4W)	T1	39835	5	0	5	127	41567	5	0	5	132	41567	5	0	5	132	41134	5	0	5	131	43299	5	0	5	138
		T2	38701	4	0	5	123	40383	4	0	5	128	40383	4	0	5	128	39963	4	0	5	127	42066	4	0	5	134
		T3R	39277	4	0	5	125	40985	4	0	5	130	40985	4	0	5	130	40558	4	0	5	129	42692	4	0	5	136
		T3	38852	4	0	4	124	40541	4	0	4	129	40541	4	0	4	129	40119	4	0	4	128	42230	4	0	4	134
		T3W	39594	3	0	5	126	41315	4	0	5	131	41315	4	0	5	131	40885	3	0	5	130	43037	4	0	5	137
		T3LG	39718	4	0	3	126	41444	4	0	3	132	41444	4	0	3	132	41013	4	0	3	130	43171	4	0	3	137
		T4	39073	4	0	4	124	40772	4	0	5	130	40772	4	0	5	130	40347	4	0	5	128	42470	4	0	5	135
		T4A	41153	4	0	3	131	42942	4	0	3	137	42942	4	0	3	137	42495	4	0	3	135	44731	4	0	3	142
		T4LG	39600	3	0	3	126	41322	3	0	3	131	41322	3	0	3	131	40892	3	0	3	130	43044	4	0	3	137
		T4FT	40225	4	0	5	128	41974	4	0	5	134	41974	4	0	5	134	41537	4	0	5	132	43723	4	0	5	139
		T5	41043	5	0	4	131	42828	5	0	4	136	42828	5	0	4	136	42382	5	0	4	135	44612	5	0	4	142
		T5LG	39991	4	0	3	127	41730	4	0	3	133	41730	4	0	3	133	41295	4	0	3	131	43469	5	0	3	138
		T5W	39645	5	0	4	126	41369	5	0	4	132	41369	5	0	4	132	40938	5	0	4	130	43092	5	0	4	137
		T5WW	37633	5	0	4	120	39269	5	0	4	125	39269	5	0	4	125	38860	5	0	4	124	40905	5	0	4	130
		FN	40556	5	0	2	129	42320	5	0	2	135	42320	5	0	2	135	41879	5	0	2	133	44083	5	0	2	140
		FM	41338	5	0	2	131	43135	5	0	2	137	43135	5	0	2	137	42686	5	0	2	136	44932	5	0	2	143
		FW	41197	5	0	2	131	42988	5	0	2	137	42988	5	0	2	137	42541	5	0	2	135	44780	5	0	2	142

CRI Multiplier		
	2700K, 3000K, 3500K, 4000K	5000K
70 to 80 CRI	0.91	0.88
70 to 90 CRI	0.7	0.77

VLX-1 LED SPECIFICATIONS / Forward Optics																											
Led Count	Current & Watts	Distribution Type	70CRI																								
			27K					30K					35K					40K					50K				
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
128LD	350 mA (131.5W)	T1	20691	4	0	4	157	21590	4	0	4	164	21590	4	0	4	164	21365	4	0	4	162	22490	4	0	4	171
		T2	20101	3	0	4	153	20975	3	0	4	160	20975	3	0	4	160	20757	3	0	4	158	21849	3	0	4	166
		T3R	20401	3	0	4	155	21288	3	0	4	162	21288	3	0	4	162	21066	3	0	4	160	22175	3	0	4	169
		T3	20180	3	0	3	153	21057	3	0	3	160	21057	3	0	3	160	20838	3	0	3	158	21935	3	0	3	167
		T3W	20565	3	0	3	156	21459	3	0	3	163	21459	3	0	3	163	21236	3	0	3	161	22354	3	0	3	170
		T3LG	20630	3	0	3	157	21527	3	0	3	164	21527	3	0	3	164	21302	3	0	3	162	22424	3	0	3	171
		T4	20295	3	0	3	154	21177	3	0	3	161	21177	3	0	3	161	20957	3	0	3	159	22060	3	0	3	168
		T4A	21375	3	0	3	163	22304	3	0	3	170	22304	3	0	3	170	22072	3	0	3	168	23234	3	0	3	177
		T4LG	20569	3	0	2	156	21463	3	0	2	163	21463	3	0	2	163	21239	3	0	2	162	22357	3	0	3	170
		T4FT	20893	3	0	4	159	21802	3	0	4	166	21802	3	0	4	166	21575	3	0	4	164	22710	3	0	4	173
		T5	21318	4	0	2	162	22245	4	0	2	169	22245	4	0	2	169	22013	4	0	2	167	23172	4	0	2	176
		T5LG	20772	3	0	2	158	21675	4	0	2	165	21675	4	0	2	165	21449	4	0	2	163	22578	4	0	2	172
		T5W	20592	4	0	3	157	21487	5	0	3	163	21487	5	0	3	163	21263	5	0	3	162	22383	5	0	3	170
		T5WW	19547	4	0	2	149	20397	5	0	3	155	20397	5	0	3	155	20184	5	0	3	153	21247	5	0	3	162
		FN	21065	5	0	1	160	21981	5	0	1	167	21981	5	0	1	167	21752	5	0	1	165	22897	5	0	1	174
		FM	21471	5	0	1	163	22405	5	0	1	170	22405	5	0	1	170	22171	5	0	1	169	23338	5	0	1	177
		FW	21398	4	0	1	163	22329	4	0	2	170	22329	4	0	2	170	22096	4	0	2	168	23259	4	0	2	177
128LD	530 mA (202.8W)	T1	30589	4	0	4	151	31919	5	0	5	157	31919	5	0	5	157	31586	5	0	5	156	33248	5	0	5	164
		T2	29718	4	0	5	147	31010	4	0	5	153	31010	4	0	5	153	30687	4	0	5	151	32302	4	0	5	159
		T3R	30160	4	0	5	149	31472	4	0	5	155	31472	4	0	5	155	31144	4	0	5	154	32783	4	0	5	162
		T3	29834	3	0	4	147	31131	3	0	4	154	31131	3	0	4	154	30807	3	0	4	152	32428	3	0	4	160
		T3W	30403	3	0	4	150	31725	3	0	4	156	31725	3	0	4	156	31395	3	0	4	155	33047	3	0	4	163
		T3LG	30499	3	0	3	150	31825	3	0	3	157	31825	3	0	3	157	31493	3	0	3	155	33151	3	0	3	163
		T4	30004	4	0	4	148	31308	4	0	4	154	31308	4	0	4	154	30982	4	0	4	153	32613	4	0	4	161
		T4A	31601	3	0	3	156	32974	3	0	3	163	32974	3	0	3	163	32631	3	0	3	161	34348	3	0	3	169
		T4LG	30409	3	0	3	150	31731	3	0	3	156	31731	3	0	3	156	31400	3	0	3	155	33053	3	0	3	163
		T4FT	30889	3	0	5	152	32232	3	0	5	159	32232	3	0	5	159	31896	3	0	5	157	33575	3	0	5	166
		T5	31517	5	0	3	155	32887	5	0	3	162	32887	5	0	3	162	32544	5	0	3	161	34257	5	0	3	169
		T5LG	30709	4	0	2	151	32044	4	0	2	158	32044	4	0	2	158	31710	4	0	2	156	33379	4	0	3	165
		T5W	30443	5	0	3	150	31767	5	0	4	157	31767	5	0	4	157	31436	5	0	4	155	33090	5	0	4	163
		T5WW	28898	5	0	3	143	30154	5	0	4	149	30154	5	0	4	149	29840	5	0	4	147	31411	5	0	4	155
		FN	31143	5	0	2	154	32497	5	0	2	160	32497	5	0	2	160	32158	5	0	2	159	33851	5	0	2	167
		FM	31743	5	0	2	157	33123	5	0	2	163	33123	5	0	2	163	32778	5	0	2	162	34503	5	0	2	170
		FW	31635	5	0	2	156	33010	5	0	2	163	33010	5	0	2	163	32666	5	0	2	161	34386	5	0	2	170
128LD	700 mA (271.8W)	T1	38925	5	0	5	143	40618	5	0	5	149	40618	5	0	5	149	40194	5	0	5	148	42310	5	0	5	156
		T2	37817	4	0	5	139	39461	4	0	5	145	39461	4	0	5	145	39050	4	0	5	144	41105	4	0	5	151
		T3R	38380	4	0	5	141	40049	4	0	5	147	40049	4	0	5	147	39632	4	0	5	146	41717	4	0	5	153
		T3	37965	3	0	4	140	39615	4	0	4	146	39615	4	0	4	146	39202	4	0	4	144	41266	4	0	4	152
		T3W	38690	3	0	5	142	40372	3	0	5	149	40372	3	0	5	149	39951	3	0	5	147	42054	4	0	5	155
		T3LG	38811	4	0	3	143	40498	4	0	3	149	40498	4	0	3	149	40076	4	0	3	147	42185	4	0	3	155
		T4	38181	4	0	4	140	39841	4	0	5	147	39841	4	0	5	147	39426	4	0	4	145	41501	4	0	5	153
		T4A	40213	4	0	3	148	41961	4	0	3	154	41961	4	0	3	154	41524	4	0	3	153	43710	4	0	3	161
		T4LG	38696	3	0	3	142	40378	3	0	3	149	40378	3	0	3	149	39958	3	0	3	147	42061	4	0	3	155
		T4FT	39307	3	0	5	145	41016	4	0	5	151	41016	4	0	5	151	40589	4	0	5	149	42725	4	0	5	157
		T5	40106	5	0	4	148	41850	5	0	4	154	41850	5	0	4	154	41414	5	0	4	152	43594	5	0	4	160
		T5LG	39078	4	0	3	144	40777	4	0	3	150	40777	4	0	3	150	40352	4	0	3	148	42476	5	0	3	156
		T5W	38740	5	0	4	143	40424	5	0	4	149	40424	5	0	4	149	40003	5	0	4	147	42108	5	0	4	155
		T5WW	36774	5	0	4	135	38372	5	0	4	141	38372	5	0	4	141	37973	5	0	4	140	39971	5	0	4	147
		FN	39630	5	0	2	146	41353	5	0	2	152	41353	5	0	2	152	40922	5	0	2	151	43076	5	0	2	158
		FM	40394	5	0	2	149	42150	5	0	2	155	42150	5	0	2	155	41711	5	0	2	153	43906	5	0	2	162
		FW	40256	5	0	2	148	42007	5	0	2	155	42007	5	0	2	155	41569	5	0	2	153	43757	5	0	2	161
128LD	1050 mA (419.2W)	T1	52456	5	0	5	125	54736	5	0	5	131	54736	5	0	5	131	54166	5	0	5	129	57017	5	0	5	136
		T2	50962	4	0	5	122	53178	5	0	5	127	53178	5	0	5	127	52624	5	0	5	126	55394	5	0	5	132
		T3R	51721	5	0	5	123	53970	5	0	5	129	53970	5	0	5	129	53408	5	0	5	127	56219	5	0	5	134
		T3	51161	4	0	5	122	53386	4	0	5	127	53386	4	0	5	127	52829	4	0	5	126	55610	4	0	5	133
		T3W	52138	4	0	5	124	54405	4	0	5	130	54405	4	0	5	130	53838	4	0	5	128	56672	4	0	5	135
		T3LG	52301	4	0	4	125	54575	4	0	4	130	54575	4	0	4	130	54007	4	0	4	129	56849	4	0	4	136
		T4	51452	5	0	5	123	53689	5	0	5	128	53689	5	0	5	128	53130	5	0	5	127	55926	5	0	5	133
		T4A	54191	4	0	4	129	56547	4	0	4	135	56547	4	0	4	135	55958	4	0	4	133	58903	4	0	4	141
		T4LG	52147	4	0	4	124	54414	4	0	4	130	54414	4	0	4	130	53847	4	0	4	128	56682	4	0	4	135
		T4FT	52970	4	0	5	126	55273	4	0	5	132	55273	4	0	5	132	54698	4	0	5	130	57576	4	0	5	137
		T5	54047	5	0	4	129	56397	5	0	4	135	56397	5	0	4	135	55810	5	0	4	133	58747	5	0	4	140
		T5LG	52662	5	0	3	126	54951	5	0	3	131	54951	5	0	3	131	54379	5	0	3	130	57241	5	0	4	137
		T5W	52206	5	0	5	125	54476	5	0	5	130	54476	5	0	5	130	53908	5	0	5	129	56746	5	0	5	135
		T5WW	49556	5	0	5	118	51711	5	0	5	123	51711	5	0	5	123	51172	5	0	5	122	53866	5	0	5	128
		FN	53406	5	0	2	127	55728	5	0	3	133	55728	5	0	3	133	55147	5	0	3	132	58050	5	0	3	138
		FM	54435	5	0	2	130	56802	5	0	2	136	56802	5	0	2	136	56210	5	0	2	134	59168	5	0	2	141
		FW	54250	5	0	3	129	56608	5	0	3	135	56608	5	0	3	135	56019	5	0	3	134	58967	5	0	3	141

CRI Multiplier		
	2700K, 3000K, 3500K, 4000K	5000K
70 to 80 CRI	0.91	0.88
70 to 90 CRI	0.7	0.77

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VLX-1 LED SPECIFICATIONS / Forward Optics																											
Led Count	Current & Watts	Distribution Type	70CRI																								
			27K					30K					35K					40K					50K				
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
160LD	350 mA (164.3W)	T1	25686	4	0	4	156	26803	4	0	4	163	26803	4	0	4	163	26524	4	0	4	161	27920	4	0	4	170
		T2	24955	3	0	4	152	26040	4	0	4	158	26040	4	0	4	158	25769	3	0	4	157	27125	4	0	5	165
		T3R	25327	3	0	5	154	26428	4	0	5	161	26428	4	0	5	161	26153	4	0	5	159	27529	4	0	5	168
		T3	25052	3	0	3	152	26142	3	0	3	159	26142	3	0	3	159	25869	3	0	3	157	27231	3	0	3	166
		T3W	25531	3	0	4	155	26641	3	0	4	162	26641	3	0	4	162	26363	3	0	4	160	27751	3	0	4	169
		T3LG	25611	3	0	3	156	26724	3	0	3	163	26724	3	0	3	163	26446	3	0	3	161	27838	3	0	3	169
		T4	25195	3	0	4	153	26291	4	0	4	160	26291	4	0	4	160	26017	4	0	4	158	27386	4	0	4	167
		T4A	26536	3	0	3	161	27690	3	0	3	168	27690	3	0	3	168	27401	3	0	3	167	28844	3	0	3	176
		T4LG	25535	3	0	3	155	26645	3	0	3	162	26645	3	0	3	162	26368	3	0	3	160	27756	3	0	3	169
		T4FT	25938	3	0	4	158	27066	3	0	4	165	27066	3	0	4	165	26784	3	0	4	163	28194	3	0	4	172
		T5	26466	4	0	3	161	27616	5	0	3	168	27616	5	0	3	168	27329	5	0	3	166	28767	5	0	3	175
		T5LG	25787	4	0	2	157	26908	4	0	2	164	26908	4	0	2	164	26628	4	0	2	162	28030	4	0	2	171
		T5W	25564	5	0	3	156	26676	5	0	3	162	26676	5	0	3	162	26398	5	0	3	161	27787	5	0	3	169
		T5WW	24267	5	0	3	148	25322	5	0	3	154	25322	5	0	3	154	25058	5	0	3	152	26377	5	0	3	161
		FN	26152	5	0	2	159	27289	5	0	2	166	27289	5	0	2	166	27004	5	0	2	164	28426	5	0	2	173
		FM	26656	5	0	1	162	27814	5	0	1	169	27814	5	0	1	169	27525	5	0	1	167	28973	5	0	1	176
		FW	26565	5	0	2	162	27720	5	0	2	169	27720	5	0	2	169	27431	5	0	2	167	28875	5	0	2	176
160LD	530 mA (253.5W)	T1	37984	5	0	5	150	39636	5	0	5	156	39636	5	0	5	156	39223	5	0	5	155	41287	5	0	5	163
		T2	36903	4	0	5	146	38507	4	0	5	152	38507	4	0	5	152	38106	4	0	5	150	40112	4	0	5	158
		T3R	37452	4	0	5	148	39081	4	0	5	154	39081	4	0	5	154	38674	4	0	5	153	40709	4	0	5	161
		T3	37047	3	0	4	146	38658	4	0	4	153	38658	4	0	4	153	38255	4	0	4	151	40268	4	0	4	159
		T3W	37754	3	0	5	149	39396	3	0	5	155	39396	3	0	5	155	38986	3	0	5	154	41037	3	0	5	162
		T3LG	37873	3	0	3	149	39519	4	0	3	156	39519	4	0	3	156	39108	4	0	3	154	41166	4	0	3	162
		T4	37258	4	0	4	147	38878	4	0	4	153	38878	4	0	4	153	38473	4	0	4	152	40498	4	0	5	160
		T4A	39241	4	0	3	155	40947	4	0	3	162	40947	4	0	3	162	40521	4	0	3	160	42653	4	0	3	168
		T4LG	37761	3	0	3	149	39403	3	0	3	155	39403	3	0	3	155	38992	3	0	3	154	41044	4	0	3	162
		T4FT	38357	3	0	5	151	40025	4	0	5	158	40025	4	0	5	158	39608	4	0	5	156	41692	4	0	5	164
		T5	39137	5	0	4	154	40838	5	0	4	161	40838	5	0	4	161	40413	5	0	4	159	42540	5	0	4	168
		T5LG	38133	4	0	3	150	39791	4	0	3	157	39791	4	0	3	157	39377	4	0	3	155	41449	5	0	3	164
		T5W	37803	5	0	4	149	39447	5	0	4	156	39447	5	0	4	156	39036	5	0	4	154	41091	5	0	4	162
		T5WW	35885	5	0	4	142	37445	5	0	4	148	37445	5	0	4	148	37055	5	0	4	146	39005	5	0	4	154
		FN	38672	5	0	2	153	40354	5	0	2	159	40354	5	0	2	159	39933	5	0	2	158	42035	5	0	2	166
		FM	39418	5	0	2	156	41131	5	0	2	162	41131	5	0	2	162	40703	5	0	2	161	42845	5	0	2	169
		FW	39284	5	0	2	155	40991	5	0	2	162	40991	5	0	2	162	40564	5	0	2	160	42699	5	0	2	168
160LD	700 mA (339.7W)	T1	48337	5	0	5	142	50438	5	0	5	148	50438	5	0	5	148	49913	5	0	5	147	52540	5	0	5	155
		T2	46960	4	0	5	138	49002	4	0	5	144	49002	4	0	5	144	48492	4	0	5	143	51044	4	0	5	150
		T3R	47660	4	0	5	140	49732	4	0	5	146	49732	4	0	5	146	49214	4	0	5	145	51804	5	0	5	152
		T3	47144	4	0	5	139	49193	4	0	5	145	49193	4	0	5	145	48681	4	0	5	143	51243	4	0	5	151
		T3W	48044	4	0	5	141	50133	4	0	5	148	50133	4	0	5	148	49611	4	0	5	146	52222	4	0	5	154
		T3LG	48194	4	0	3	142	50290	4	0	4	148	50290	4	0	4	148	49766	4	0	4	146	52385	4	0	4	154
		T4	47412	4	0	5	140	49473	4	0	5	146	49473	4	0	5	146	48958	4	0	5	144	51535	5	0	5	152
		T4A	49936	4	0	3	147	52107	4	0	4	153	52107	4	0	4	153	51564	4	0	4	152	54278	4	0	4	160
		T4LG	48052	4	0	3	141	50141	4	0	3	148	50141	4	0	3	148	49619	4	0	3	146	52230	4	0	4	154
		T4FT	48811	4	0	5	144	50933	4	0	5	150	50933	4	0	5	150	50402	4	0	5	148	53055	4	0	5	156
		T5	49803	5	0	4	147	51968	5	0	4	153	51968	5	0	4	153	51427	5	0	4	151	54134	5	0	4	159
		T5LG	48526	5	0	3	143	50636	5	0	3	149	50636	5	0	3	149	50109	5	0	3	147	52746	5	0	3	155
		T5W	48106	5	0	4	142	50198	5	0	5	148	50198	5	0	5	148	49675	5	0	4	146	52289	5	0	5	154
		T5WW	45665	5	0	4	134	47650	5	0	5	140	47650	5	0	5	140	47154	5	0	4	139	49636	5	0	5	146
		FN	49212	5	0	2	145	51352	5	0	2	151	51352	5	0	2	151	50817	5	0	2	150	53491	5	0	2	157
		FM	50160	5	0	2	148	52341	5	0	2	154	52341	5	0	2	154	51796	5	0	2	152	54522	5	0	2	160
		FW	49990	5	0	3	147	52163	5	0	3	154	52163	5	0	3	154	51620	5	0	3	152	54337	5	0	3	160
160LD	1050 mA (524.0W)	T1	65139	5	0	5	124	67971	5	0	5	130	67971	5	0	5	130	67263	5	0	5	128	70803	5	0	5	135
		T2	63284	5	0	5	121	66035	5	0	5	126	66035	5	0	5	126	65347	5	0	5	125	68787	5	0	5	131
		T3R	64226	5	0	5	123	67019	5	0	5	128	67019	5	0	5	128	66321	5	0	5	127	69811	5	0	5	133
		T3	63531	4	0	5	121	66293	4	0	5	127	66293	4	0	5	127	65603	4	0	5	125	69055	4	0	5	132
		T3W	64744	4	0	5	124	67559	4	0	5	129	67559	4	0	5	129	66855	4	0	5	128	70374	4	0	5	134
		T3LG	64947	4	0	4	124	67771	4	0	4	129	67771	4	0	4	129	67065	4	0	4	128	70594	5	0	4	135
		T4	63893	5	0	5	122	66671	5	0	5	127	66671	5	0	5	127	65976	5	0	5	126	69448	5	0	5	133
		T4A	67293	4	0	4	128	70219	5	0	4	134	70219	5	0	4	134	69488	5	0	4	133	73145	5	0	4	140
		T4LG	64755	4	0	4	124	67571	4	0	4	129	67571	4	0	4	129	66867	4	0	4	128	70386	5	0	5	134
		T4FT	65777	4	0	5	126	68637	4	0	5	131	68637	4	0	5	131	67922	4	0	5	130	71497	4	0	5	136
		T5	67115	5	0	5	128	70033	5	0	5	134	70033	5	0	5	134	69303	5	0	5	132	72951	5	0	5	139
		T5LG	65394	5	0	4	125	68237	5	0	4	130	68237	5	0	4	130	67527	5	0	4	129	71081	5	0	4	136
		T5W	64828	5	0	5	124	67647	5	0	5	129	67647	5	0	5	129	66942	5	0	5	128	70466	5	0	5	134
		T5WW	61538	5	0	5	117	64214	5	0	5	123	64214	5	0	5	123	63545	5	0	5	121	66889	5	0	5	128
		FN	66318	5	0	3	127	69202	5	0	3	132	69202	5	0	3	132	68481	5	0	3	131	72085	5	0	3	138
		FM	67596	5	0	2	129	70535	5	0	2	135	70535	5	0	2	135	69800	5	0	2	133	73474	5	0	3	140
		FW	67366	5	0	3	129	70295	5	0	3	134	70295	5	0	3	134	69563	5	0	3	133	73224	5	0	3	140

CRI Multiplier		
	2700K, 3000K, 3500K, 4000K	5000K
70 to 80 CRI	0.91	0.88
70 to 90 CRI	0.7	0.77

VLX-1 LED SPECIFICATIONS / Forward Optics																												
Led Count	Current & Watts	Distribution Type	70CRI																									
			27K					30K					35K					40K					50K					
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
192LD	350 mA (197.2W)	T1	30427	4	0	4	154	31750	5	0	5	161	31750	5	0	5	161	31420	5	0	5	159	33073	5	0	5	168
		T2	29561	4	0	5	150	30846	4	0	5	156	30846	4	0	5	156	30525	4	0	5	155	32132	4	0	5	163
		T3R	30001	4	0	5	152	31306	4	0	5	159	31306	4	0	5	159	30980	4	0	5	157	32610	4	0	5	165
		T3	29677	3	0	4	150	30967	3	0	4	157	30967	3	0	4	157	30644	3	0	4	155	32257	3	0	4	164
		T3W	30243	3	0	4	153	31558	3	0	4	160	31558	3	0	4	160	31229	3	0	4	158	32873	3	0	4	167
		T3LG	30338	3	0	3	154	31657	3	0	3	161	31657	3	0	3	161	31327	3	0	3	159	32976	3	0	3	167
		T4	29846	4	0	4	151	31143	4	0	4	158	31143	4	0	4	158	30819	4	0	4	156	32441	4	0	4	165
		T4A	31434	3	0	3	159	32801	3	0	3	166	32801	3	0	3	166	32459	3	0	3	165	34168	3	0	3	173
		T4LG	30248	3	0	3	153	31564	3	0	3	160	31564	3	0	3	160	31235	3	0	3	158	32879	3	0	3	167
		T4FT	30726	3	0	5	156	32062	3	0	5	163	32062	3	0	5	163	31728	3	0	5	161	33398	3	0	5	169
		T5	31351	5	0	3	159	32714	5	0	3	166	32714	5	0	3	166	32373	5	0	3	164	34077	5	0	3	173
		T5LG	30547	4	0	2	155	31875	4	0	2	162	31875	4	0	2	162	31543	4	0	2	160	33203	4	0	3	168
		T5W	30283	5	0	3	154	31599	5	0	4	160	31599	5	0	4	160	31270	5	0	4	159	32916	5	0	4	167
		T5WW	28746	5	0	3	146	29995	5	0	4	152	29995	5	0	4	152	29683	5	0	4	151	31245	5	0	4	158
		FN	30979	5	0	2	157	32326	5	0	2	164	32326	5	0	2	164	31989	5	0	2	162	33672	5	0	2	171
		FM	31576	5	0	2	160	32948	5	0	2	167	32948	5	0	2	167	32605	5	0	2	165	34321	5	0	2	174
		FW	31468	5	0	2	160	32836	5	0	2	167	32836	5	0	2	167	32494	5	0	2	165	34205	5	0	2	173
192LD	530 mA (304.1W)	T1	44995	5	0	5	148	46952	5	0	5	154	46952	5	0	5	154	46463	5	0	5	153	48908	5	0	5	161
		T2	43714	4	0	5	144	45615	4	0	5	150	45615	4	0	5	150	45140	4	0	5	148	47515	4	0	5	156
		T3R	44365	4	0	5	146	46294	4	0	5	152	46294	4	0	5	152	45812	4	0	5	151	48223	4	0	5	159
		T3	43885	4	0	4	144	45793	4	0	5	151	45793	4	0	5	151	45316	4	0	4	149	47701	4	0	5	157
		T3W	44723	4	0	5	147	46667	4	0	5	153	46667	4	0	5	153	46181	4	0	5	152	48612	4	0	5	160
		T3LG	44863	4	0	3	148	46814	4	0	3	154	46814	4	0	3	154	46326	4	0	3	152	48764	4	0	4	160
		T4	44135	4	0	5	145	46054	4	0	5	151	46054	4	0	5	151	45574	4	0	5	150	47973	4	0	5	158
		T4A	46484	4	0	3	153	48505	4	0	3	159	48505	4	0	3	159	48000	4	0	3	158	50526	4	0	3	166
		T4LG	44731	4	0	3	147	46675	4	0	3	153	46675	4	0	3	153	46189	4	0	3	152	48620	4	0	4	160
		T4FT	45437	4	0	5	149	47412	4	0	5	156	47412	4	0	5	156	46918	4	0	5	154	49388	4	0	5	162
		T5	46360	5	0	4	152	48376	5	0	4	159	48376	5	0	4	159	47872	5	0	4	157	50392	5	0	4	166
		T5LG	45172	5	0	3	149	47136	5	0	3	155	47136	5	0	3	155	46645	5	0	3	153	49100	5	0	3	161
		T5W	44781	5	0	4	147	46728	5	0	4	154	46728	5	0	4	154	46241	5	0	4	152	48675	5	0	4	160
		T5WW	42508	5	0	4	140	44357	5	0	4	146	44357	5	0	4	146	43894	5	0	4	144	46205	5	0	4	152
		FN	45810	5	0	2	151	47802	5	0	2	157	47802	5	0	2	157	47304	5	0	2	156	49794	5	0	2	164
		FM	46693	5	0	2	154	48723	5	0	2	160	48723	5	0	2	160	48216	5	0	2	159	50753	5	0	2	167
		FW	46534	5	0	2	153	48558	5	0	2	160	48558	5	0	2	160	48052	5	0	2	158	50581	5	0	3	166
192LD	700 mA (407.7 W)	T1	57258	5	0	5	140	59748	5	0	5	147	59748	5	0	5	147	59125	5	0	5	145	62237	5	0	5	153
		T2	55628	5	0	5	136	58047	5	0	5	142	58047	5	0	5	142	57442	5	0	5	141	60465	5	0	5	148
		T3R	56457	5	0	5	138	58911	5	0	5	144	58911	5	0	5	144	58297	5	0	5	143	61366	5	0	5	151
		T3	55845	4	0	5	137	58273	4	0	5	143	58273	4	0	5	143	57666	4	0	5	141	60701	4	0	5	149
		T3W	56912	4	0	5	140	59386	4	0	5	146	59386	4	0	5	146	58768	4	0	5	144	61861	4	0	5	152
		T3LG	57090	4	0	4	140	59572	4	0	4	146	59572	4	0	4	146	58951	4	0	4	145	62054	4	0	4	152
		T4	56163	5	0	5	138	58605	5	0	5	144	58605	5	0	5	144	57995	5	0	5	142	61047	5	0	5	150
		T4A	59153	4	0	4	145	61724	4	0	4	151	61724	4	0	4	151	61081	4	0	4	150	64296	4	0	4	158
		T4LG	56921	4	0	4	140	59396	4	0	4	146	59396	4	0	4	146	58777	4	0	4	144	61871	4	0	4	152
		T4FT	57820	4	0	5	142	60334	4	0	5	148	60334	4	0	5	148	59705	4	0	5	146	62848	4	0	5	154
		T5	58995	5	0	4	145	61560	5	0	4	151	61560	5	0	4	151	60919	5	0	4	149	64125	5	0	5	157
		T5LG	57483	5	0	3	141	59982	5	0	3	147	59982	5	0	3	147	59357	5	0	3	146	62481	5	0	4	153
		T5W	56986	5	0	5	140	59463	5	0	5	146	59463	5	0	5	146	58844	5	0	5	144	61941	5	0	5	152
		T5WW	54093	5	0	5	133	56445	5	0	5	138	56445	5	0	5	138	55857	5	0	5	137	58797	5	0	5	144
		FN	58295	5	0	3	143	60830	5	0	3	149	60830	5	0	3	149	60196	5	0	3	148	63365	5	0	3	155
		FM	59419	5	0	2	146	62002	5	0	2	152	62002	5	0	2	152	61356	5	0	2	150	64586	5	0	2	158
		FW	59217	5	0	3	145	61791	5	0	3	152	61791	5	0	3	152	61148	5	0	3	150	64366	5	0	3	158
192LD	1050 mA (628.8W)	T1	77162	5	0	5	123	80516	5	0	5	128	80516	5	0	5	128	79678	5	0	5	127	83871	5	0	5	133
		T2	74965	5	0	5	119	78224	5	0	5	124	78224	5	0	5	124	77409	5	0	5	123	81483	5	0	5	130
		T3R	76081	5	0	5	121	79389	5	0	5	126	79389	5	0	5	126	78562	5	0	5	125	82697	5	0	5	132
		T3	75257	5	0	5	120	78529	5	0	5	125	78529	5	0	5	125	77711	5	0	5	124	81801	5	0	5	130
		T3W	76694	4	0	5	122	80029	5	0	5	127	80029	5	0	5	127	79195	5	0	5	126	83364	5	0	5	133
		T3LG	76935	5	0	4	122	80279	5	0	5	128	80279	5	0	5	128	79443	5	0	5	126	83624	5	0	5	133
		T4	75686	5	0	5	120	78976	5	0	5	126	78976	5	0	5	126	78154	5	0	5	124	82267	5	0	5	131
		T4A	79714	5	0	4	127	83180	5	0	4	132	83180	5	0	4	132	82314	5	0	4	131	86646	5	0	4	138
		T4LG	76707	5	0	4	122	80043	5	0	5	127	80043	5	0	5	127	79209	5	0	5	126	83378	5	0	5	133
		T4FT	77918	5	0	5	124	81306	5	0	5	129	81306	5	0	5	129	80459	5	0	5	128	84694	5	0	5	135
		T5	79503	5	0	5	126	82959	5	0	5	132	82959	5	0	5	132	82095	5	0	5	131	86416	5	0	5	137
		T5LG	77464	5	0	4	123	80832	5	0	4	129	80832	5	0	4	129	79990	5	0	4	127	84200	5	0	4	134
		T5W	76794	5	0	5	122	80133	5	0	5	127	80133	5	0	5	127	79298	5	0	5	126	83472	5	0	5	133
		T5WW	72897	5	0	5	116	76066	5	0	5	121	76066	5	0	5	121	75274	5	0	5	120	79235	5	0	5	126
		FN	78559	5	0	3	125	81975	5	0	3	130	81975	5	0	3	130	81121	5	0	3	129	85390	5	0	3	136
		FM	80073	5	0	3	127	83554	5	0	3	133	83554	5	0	3	133	82684	5	0	3	131	87036	5	0	3	138
		FW	79801	5	0	3	127	83270	5	0	3	132	83270	5	0	3	132	82403	5	0	3	131	86740	5	0	3	138

CRI Multiplier		
	2700K, 3000K, 3500K, 4000K	5000K
70 to 80 CRI	0.91	0.88
70 to 90 CRI	0.7	0.77

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