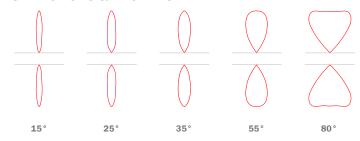




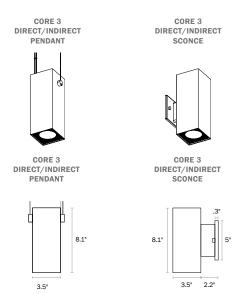
SPECIFICATIONS

PROFILE	Square
SIZES	3.5" x 3.5"
LED OUTPUT	500lm - 1,500lm
CCT/CRI	2700K/3000K/3500K/4000K • 90CRI or BIOS
DIMMING/ DRIVER	Canopy and Remote Driver: 0-10V, Phase, DALI, DMX, eldoLED, Lutron®, PoE (Molex, Igor, NuLEDS). Dimming to 0% for select models
POWER	6.8W to 50.4W per fixture
INPUT	100VAC to 277VAC Phase dimmable versions are 120VAC only
OPTICS	15° - 80° distribution spun aluminum reflectors. Field replaceable without tools.
FINISHES	Powder coat - TGIC polyester
MATERIAL	Extruded aluminum with galvanized steel hardware
ENVIRONMENT	Indoor dry or damp locations

DISTRIBUTIONS & PROFILES



Available in any combination of distributions for direct and indirect.



Not to scale. Dimensions are nominal. Consult factory for CAD drawing













^{*}Safety and Performance information available on last page. Output and other specifications available on page 5.



PRODUCT SUBMITTAL QUICK WORKSHEET

-	-					_						-			•	_	-	-	-	_
1	2	3	4	5	6		7	8	9	10	11	12	13	14	15		16	17	18	19

1. MODEL (CHOOSE 1)	2. OUTPUT - DIRECT * (CHOOSE 1)	3. CRI - DIRECT* (CHOOSE 1)	4. CCT - DIRECT* (CHOOSE 1)
CST3 Pendant	05 ¹ 500lm	90 90	27 * 2700K
CSU3 Sconce	10 1000lm	BD* BIOS Dynamic	30 3000K
OSOS Sconce	15 1500lm	, , ,	35 3500K
	19 15001111	*Dynamic BIOS SkyBlue® 490nm LED can be tuned out with most LED driver and dimmer combinations.	40 4000K
	*See BOIS Dynamic supplement on pages 6-7 for	See pages 6-7 for details.	40 4000K
	BIOS lamping options. Available for VO1 dimming only.		Not available in BIOS Dynamic.
5. REFLECTOR - DIRECT (CHOOSE 1)	6. OPTICAL ACCESSORY - DIRECT (CHOOSE 1)	7. OUTPUT - INDIRECT* (CHOOSE 1)	8. CRI - INDIRECT* CHOOSE 1)
15 15° (0.3 S/MH)	NN None	05 ¹ 500lm	90 90
25 25° (0.4 S/MH)	HL Honeycomb Louver	10 1000lm	BD* BIOS Dynamic
35 35° (0.6 S/MH)	DF Diffusion Lens	15 1500lm	*Dynamic BIOS SkyBlue® 490nm LED can be tuned
55 55° (0.9 S/MH)	LS Linear Spread Lens (60° x 1°)	*See BOIS Dynamic supplement on pages 7-8 for	out with most LED driver and dimmer combinations.
80 80° (1.4 S/MH)	ww Wall Wash Lens (shifts beam 20°	BIOS lamping options.	See pages 7-8 for details.
Beam angles noted above are nominal.	from vertical)	¹ Phase dimming not available for 500lm	
9. CCT - INDIRECT (CHOOSE 1)	10. REFLECTOR - INDIRECT (CHOOSE 1)	11. OPTICAL ACCESSORY - INDIRECT (CHOOSE 1)	12. DRIVER LOCATION* (CHOOSE 1)
27 2700K	15 15° (0.3 S/MH)	NN None	R Remote
30 3000K	25 25° (0.4 S/MH)	HL Honeycomb Louver	D Deep Canopy
35 3500K	35 35° (0.6 S/MH)	DF Diffusion Lens	
	55 55° (0.9 S/MH)		*See 'Dimming/driver location compatitibility on page 8 to ensure correct dimming specification.
40 4000K	80 80° (1.4 S/MH)	Ls Linear Spread Lens (60° x 1°)	to chaute correct diffirming specification.
		ww Wall Wash Lens (shifts beam 20°	
	*Beam angles noted above are nominal.	from vertical)	
13. DIMMING * (CHOOSE 1)	14. NUMBER OF CIRCUITS (CHOOSE 1)	15. SHELL COLOR* CHOOSE 1)	16. SUSPENSION* (CHOOSE 1)
V00 (0-10V, dim to 0%)	1C 1 Circuit	STANDARD FINISHES	BK Black Cord
V01 (0-10V, dim to 1%)	2C 2 Circuits	SW Satin White	WH White Cord
P01 (ELV/TRIAC phase dim to 1%)		SB Satin Black	CB Clear Braided Cord
ELDVO (eldoLED, 0-10V, dim to 0%)		AS Aluminum Silver Anodized Effect	*Dual aircraft cable + cord suspension.
LDE1 (Lutron ECOSYS1, 0-10V, dim to 1%)		TB Textured Black	**Cable length field adjustable. Standard cord length 6
DALI (DALI, dim to 0%)		BA Brushed Aluminum	for longer cords, type desired length into product
DMX (DMX, dim to 0%)		PREMIUM FINISHES	code above (i.e BK/8 = Black Cord + 8ft cord length).
POEM ² (POE Molex)			
, ,		See chart on page 4 for premium finishes. Manually	
POEI ² (POE IGOR)		type in the finish code (Ex: OB	
POEN ² (POE Nuleds)		= Oil-Rubbed Bronze)	
POE ^{2,3} (POE Ready)		SPECIAL ORDER FINISHES*	
See 'Driver', 'Sensor' , and 'dimming/driver compatibility		RAL Specify RAL Classic Color	
charts for sensor and dimming compatibility.			
**Consult factory for BIOS Dynamic dimming options. POE drivers only compatible with remote driver (R) location		(Ex: RAL 3003)	
Driver size may change depending on lumen package.		CCM Custom Color Match	
Choose if desired PoE solution not listed. Contact customer service to review and confirm the PoE system of your		*See page 4 for finish chart.	
choice.		**Manually type the finish code into the	
		parametric code above.	
17. SUSPENSION OPTIONS* (OPTIONAL)	18. SENSOR OPTIONS* (OPTIONAL CHOOSE 1)	19. EMERGENCY OPTIONS* (OPTIONAL)]
SCONCE OPTIONS	WLNX (Cooper Wavelinx, remote)	EMB ⁵ Emergency Battery	_
ADA ADA Compliant	ENLGHT (Enlighted, remote)	,	
·	FCJS (Lutron, remote)	*Emergency options only available with 0-10V driver options. Third party inverter system recommended for other driver	
*See 'Dimensions & Mounting' on page 4 for ADA Sconce dimensions.	FCJS/S (Lutron, remote, occ/daylight sensor)	options. Refer to ALW EM Solution Catalog for all	
ADA compliant sconces are only available for remote driver		compatibility exceptions. 5Available for deep canopy and remote mount only.	
location and standard shallow canopy.	MLX (Molex POE, remote)	Available for deep carropy and remote mount only.	
	NLT (nLight wired remote connection)		

SS113023

NLTAIR (nLight AIR, remote connection, integral occ/daylight sensor)

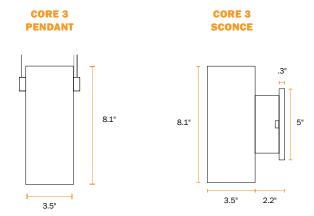
OS/PH/HV (Hubbel WASP remote
occ/daylight sensor)

*Default quantity is 1 sensor per fixture, type alternate quantity (/##) into product code above if desired and contact ALW to request price adjustment. Sensor descriptions available on page 9.

*Not all sensors are compatible with all drivers. See 'Driver', 'Sensor' and lamping charts for driver details and sensor compatibility.



DIMENSIONS AND MOUNTING



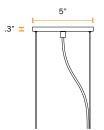
REMOTE DRIVER

STANDARD SHALLOW CANOPY

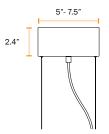
DEEP CANOPY MOUNTED DRIVER7 -

DEEP CANOPY FOR CANOPY MOUNTED LED DRIVERS

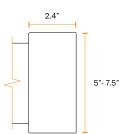
PENDANT ONLY



PENDANT ONLY

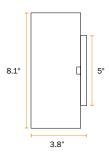


SCONCE ONLY



ADA COMPLIANT

CORE 3 SCONCE ADA COMPLIANT



Not to scale. Dimensions are nominal. Consult factory for CAD drawings All canopies fit standard 3.5" and 4" round and octagonal junction boxes. ⁷Deep canopy diameter depends on LED driver size



FINISHES

Standard finishes are available at no additional charge and no extended lead time for standard configurations.

STANDARD FINISHES











Brushed Aluminum

ned Aluminum Silver num Anodized Effect

Satin White

Satin Black

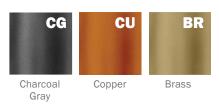
Textured Black

PREMIUM FINISHES

BASIC POWDER COAT



METALLIC POWDER COAT



SATIN ANODIZED EFFECT POWDER COAT







Contact ALW Quotes for sample paint finish swatches.

SPECIAL ORDER FINISHES*



RAL CLASSIC COLORS (80-95% GLOSS): RAL____

Most RAL Classic Colors are available for a minimum setup fee. On your specification submittal choose your RAL color by entering the 4-digit RAL code (Ex: RAL 3003).

See www.alw-inc.com/resources/finishes



CUSTOM COLOR MATCH: CCM____

Custom powder coat color matching is available for a premium setup fee. Consult ALW for additional information.

- *An individual setup fee will apply to each unique Special Order Finish per purchase order. (ex: RAL 5023 and RAL 2008 are specified for multiple line items on a purchase order. 2x setup fees will apply)
- *Printed or on-screen colors are only approximations consult actual Color Chip Set before specifying

CORD OPTIONS



Black
Order Code = **BK**For all locations

White
Order Code = **WH**For all locations



Clear Silver Braid Order Code = **CB**

For dry and damp locations only

SS113023



PERFORMANCE DETAILS -

REFLECTOR OPTION	CRI	DELIVERED LUMENS ⁸	EFFICACY (LM/W)	WATTS(W)	CCT OPTIONS
		500	150	3.4	
15°	Ra = 90 ± 3	1000	139	7.3	27007
25° 35°		1500	132	11.5	2700K 3000K
55° 80°		2000	128	15.9	3500K 4000K
		2500	124	20.4	4000K
		3000	121	25.2	

^{*}Based on 55deg reflector for all outputs, 4000K 90CRI.

TM-30-18 DETAILS (90 CRI LAMPING)

сст	CRI (Ra)	CRI (R9)	TM-30 Rf	TM-30 Rg
2700K	90.5	59.7	89.4	99.6
3000K	92.5	66.5	89.9	98.7
3500K	93.8	74.2	89.8	98.1
4000K	94.2	78.8	89.8	98.5

^{*}Refer to IES files for full performance data.

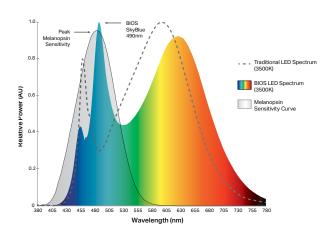
⁸Actual lumens measured in field may differ +/- 10%.





BIOS SkyBlue® technology is designed to provide the specific circadian stimulus required to improve overall sleep by featuring a distinct peak in the 'skyblue' spectral power at 490nm. Unlike traditional white LEDs, BIOS SkyBlue® makes it possible to achieve high EML (Equivalent Melanopic Lux) and Melanopic/Photopic ratios without harsh CCTs or high, glare-inducing light levels.

BIOS light engines are available for cylinder products with a Dynamic options for use with a variety of applications. Dynamic options include a dynamic board and Bio-Dimmer module to allow the user to dim-out the SkyBlue 490nm signal during night time hours.



	BIOS DYNAMIC + BIO-DIMMING (BIOSD)
DESCRIPTION	Dynamic light engine with Bio-Dimming add the ability to fine-tune and dim-out the 490nm SkyBlue signal during night time hours or as desired.
TYPICAL APPLICATIONS	Environments occupied for a 24-hour period such as hospitals, security facilities, behavioral health facilities, factories, etc.
CONTROLS & DIMMING	Works with any standard dimming controls (0-10V, Dali, EcoSystem, Triac, DMX, Wireless, etc.). BIOS SkyBlue® LED can be dimmed-out using a standard control/dimmer.

BIOS LED LAMPING DETAILS (DYNAMIC)

DELIVERED LUMENS°	WATTS (W)	EFFICACY (LM/W)
500	5.4	93
1000	11.1	90
1500	18.3	82
2000	23.8	77

BIOS LED PERFORMANCE DETAILS

сст	CRI (R9) Dynamic BIOS	DAYTIME M/P RATIO ¹⁰ Dynamic BIOS	NIGHTTIME M/P RATIO ¹⁰ Dynamic BIOS	COI ¹¹ Dynamic BIOS
3000K	83	0.73	0.45	3.3
3500K	83	0.84	0.50	3.1
4000K	83	0.95	0.55	3.1

Delivered Lumens calculations are based on LM-79 test of BIOS 4000K, 2000lm output.

SS113023

¹⁰Melanopic to photopic (M/P) ratios are used to help calculate equivalent melanopic lux (EML) values which is the metric used for circadian lighting in the WELL™ Building Standard.

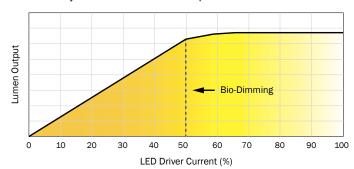
¹¹BIOS SkyBlue® meets the Cyanosis Observation Index (COI) requirements for visual assessment of cyanosis, providing a COI up to 3.3.

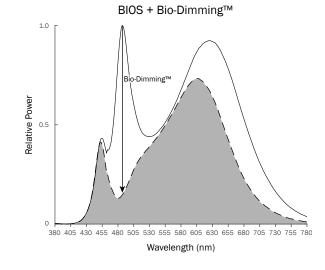


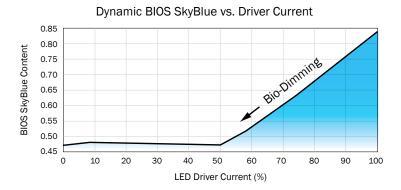
BIOS DYNAMIC + BIO-DIMMING DIMMING CONTROL CHARACTERISTICS

	DIMMER SETTING	BIOS SKYBLUE® LED	WHITE LED	LIGHT OUTPUT			
T	100%* (Full On)	100%	100%	100%	Bio-Dir		BIOS SkyBlue® maintained for maximum circadian impact.
<u>†</u>	99% - 51%	100% - 0%	100%	100% - 90%	-Dimming		Light output remains relatively constant.
+	50%	NO BIOS	100%	~90%	White Intensity D	\prec	BIOS SkyBlue® removed to provide minimal circadian impact.
	49% - 0%	NO BIOS	100% - 0%	Linear Dimming 90% - 0%	e LED Dimming		White LED output dims linearly.

Dynamic BIOS Lumen Output vs. Driver Current









DDIVEDS

PRODUCT CODE	DESCRIPTION					
V00	0-10V dimming down to 0%					
V01	0-10V dimming down to 1%					
P01	ver supports both TRIAC Forward Phase 2-Wire and ELV Reverse Phase 3-Wire dimming controls.					
ELDV0	loLED, 0-10V dimming down to 0%					
DALI	DALI flicker-free dimming down to 0%.					
DMX	DMX flicker-free dimming down to 0%.					
LDE1	COSYS1, (LDE1) Lutron Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology					
POEM	POE MOLEX. Molex CoreSync PoE LED Driver dimming down to 0.1%					
POEI	GOR PoE LED Driver. Contact ALW to assist with your project.					
POEN	NuLEDS PoE LED Driver. Contact ALW to assist with your project.					
POE	PoE Ready LED Driver. Contact ALW to assist with your project.					

^{*}Contact ALW for specific dimming level requests. ALW lighting fixtures are intended for use with a wide range of sensors, lighting controls, LED drivers, and building management systems. If there are specific components required for your application that aren't listed on this spec sheet, please contact ALW customer support today to specify a compatible solution of your choice.

DF	DRIVER/LED LAMPING COMPATIBILITY								
	STD*	BIOS	CA TITLE 24 JA8/JA10 ¹²	IEEE P1789 & HD TV STUDIO ¹³					
V00	•	•	•						
V01	•	•	•						
P01	•	•	•						
ELDV0	•	•	•	•					
DALI	•	•	•	•					
DMX	•	•	•	•					
LDE1	•	•	•	•					
POEM	PER	REQUEST	•	•					
POEI	PER	REQUEST	•	•					
POEN	PER	REQUEST	•	•					
POE	PER	REQUEST	•	•					

	INTERNAL	DEEP CANOPY	REMOTE
V00		•	•
V01		•	•
P01		•	•
ELDV0		•	•
DALI		•	•
DMX		•	•
LDE1		•	•
POEM			•
POEI			•
POEN			•
POE			•

DRIVER LOCATION/DRIVER COMPATIBILITY

Indicates compatibility

^{*}Standard lamping (STD) - 500-6000LM

¹² Fixtures specified with 90CRI 2700K, 3000K, 3500K, and 4000K lamping with applicable LED drivers have the ability to conform to California Title 24 JA8 and JA10 Appendices.

¹³ The following drivers conform to IEEE P1789 Flicker Standard: 'IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers'. These drivers may also be installed in HD TV Studio applications utilizing high frequency camera equipment.



SENSORS*-

	PRODUCT CODE	DESCRIPTION	DRIVER LOCATION	SENSOR LOCATION			
	N	None. Choose when sensors are not desired.	-	-			
COOPER	WLNX	Fixture is built with 0/10V wiring to connect to Wavelinx Wireless sensors and power/relay packs (sensors and equipment not provided by ALW)	Internal Deep Canopy Remote				
ENLIGHTED™	ENLGHT	Enlighted® remote connected lighting smart sensor - occ/daylight/networking (Enlighted Part: SU-5S-H-CL)	Remote				
	FCJS	Lutron® Vive remote RF wireless fixture control (Lutron Part: FCJS-ECO or FCJS-010)	Remote				
LUTRON VIVE	FCJS/S	Lutron® Vive remote RF wireless fixture control + daylight/occ sensor (Lutron Part: FCJS-ECO or FCJS-010, & FC-Sensor)	Remote				
MOLEX POE CORESYNC	MLX	equipment from. Fixture is huilt to connect to all ight Wired remote components specified by agency. Contact ALW to review		Remote			
NLIGHT WIRED®	NLT						
NLIGHT WIRELESS®	NLTAIR	Fixture is built to connect to nLight Air (Wireless) remote components specified by agency. Contact ALW to review project details.	Remote				
VALUE SENSORS	OS/PH/HV	Hubbell WASP High Voltage 0-10V remote surface mount occ/daylight sensor. 120/277/347VAC input (Hubbell Part: WSPDSMUNV) Automated Dimming Functionality: Connect fixture 0/10V wires to sensor in the field. Adjust occ/photocell settings as desired. On/Off or Manual Dimming Functionality: Turn photocell functionality OFF. Cap off 0/10V wires on sensor. Connect fixture 0/10V wires to wall dimmer in the field.	Internal Deep Canopy Remote				

^{*}All connected lighting sensors/systems must be programmed in the field by an electrical commissioner familiar with the system. Refer to the 'Sensor Compatibility' and 'Driver/ Sensor Compatibility' charts to specify compatible sensors, LED lamping, and LED driver systems.

SENSOR COMPATIBILITY								
PRODUCT	CODE	SENSOR TYPE	MAX MT HT	CA TITLE 24	STD*			
COOPER WLNX			15 ft	•	•			
ENLIGHTED™ ENLGHT		OCCUPANCY/PHOTOCELL	40 ft	•	•			
LUTRON VIVE	FCJS	WIRELESS CONTROL	12 ft	•	•			
LOIRON VIVE	FCJS/S	OCCUPANCY/PHOTOCELL	12 ft	•	•			
MOLEX POE CORESYNC	MLX		16 ft	•	•			
NLIGHT WIRED	NLT		15 ft	•	•			
NLIGHT WIRELESS NLTAIR			15 ft (average)	•	•			
VALUE SENSORS	OS/PH/ HV	OCCUPANCY/PHOTOCELL	45 ft	•	•			

 $[\]bullet$ - Indicates compatibility $\quad \blacksquare$ - On/off sensor functionality only

DRIVER/SENSOR COMPATIBILITY									
	WLNX	ENLGHT	MLX	FCJS	FCJS/S	NLT	NLTAIR	OS/ PH/HV	NO SENSOR
V00	•	•		•	•				•
V01	•	•		•	•				•
P01									•
ELDV0						•	•	A	•
DALI									•
DMX									•
LDE1				•	•				•
POEM			•						•
POEI	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POEN	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POE	Sensor types will depend on the PoE system configuration. Contact ALW for details.								

- Indicates compatibility
- ▲ Fixture can have automated dimming via sensor OR on/off functionality and manual dimming
- On/off sensor functionality only

SS113023

^{*}Standard lamping (STD) - 500 - 6000LM



PHOTOMETRICS CORE 3

BEAM ANGLE (°)	POLAR PLOT (CD)	MTG HEIGHT (FT)	LIGHT LEVEL (FC)	BEAM DIAMETER (FT)	SPACING CRITERION (SC) (0°-180°) (90°-270°)	MAX INTENSITY (CD)
		6	44 <mark>6.</mark> 8	1.8		16086
		8	2 <mark>51.</mark> 3	2.5		
15°		10	160.9	3.1	.30	
		12	117.7	3.7	.30	
		14	82.1	4.3		
		16	62.8	4.9		
		6	26 <mark>2.</mark> 3	2.6		
		8	147.6	3.4		9443
25°		10	94.4	4.3	.39	
25		12	65.6	5.1	.39	
		14	48.2	6.0		
		16	36.9	6.8		
35°		6	205.1	3.7	.55 .55	7383
		8	115.4	4.9		
		10	73.8	6.2		
		12	51.3	7.4		
		14	37.7	8.7		
		16	28.8	9.9		
		6	117.4	6.2	.85 .85	4227
		8	66.1	8.2		
55°		10	42.3	10.3		
		12	29.4	12.3		
		14	21.6	14.4		
		16	16.5	16.4		
80°		6	54.3	10.1	1.36 1.36	2103
		8	30.5	13.4		
		10	19.5	16.8		
		12	13.6	20.1		
		14	10.0	23.5		
		16	7.6	26.8		

^{*}Photometric calculations based on 3000lm 4000K 80 CRI fixture combination. Actual results may vary in the field.

For footcandle and output multipliers refer to the ALW IES File Multipliers Chart.

¹⁴ Spacing criterion refers to maximum distance luminaires can be spaced to provide uniform illumination on the working plane or surface. Luminaire spacing = Spacing Criterion (SC) x Mounting Height (MH) (ex. 1.14 (SC) x 10' (MH) = 11.4' Luminaire Spacing).



ADDITIONAL OPTIONS & SPECIFICATIONS

LED PERFORMANCE

> 55,000 hours at 80% lumen maintenance, LM80 / TM-21

COLOR CONSISTENCY

3 SDCM; 90 CRI typical

HOUSING

Extruded aluminum with galvanized steel hardware

SAFETY & REGULATORY

Can be used to comply with **Title 24 JA8** and **JA10** requirements. Contact ALW customer support today and we can help you with your project requirements.

UL Listed (U.S. & Canada). Suitable for dry or damp locations. Conforms to UL 2108, 8750
Certified to CSA std. CSA C22.2# 9 & #250.0

OPERATING TEMPERATURE

Luminaire should be installed and operated ONLY in dry or damp environments where the ambient temperature ranges from -4 $^{\circ}$ F to 104 $^{\circ}$ F (-20 $^{\circ}$ C to 40 $^{\circ}$ C). Luminaire operation in environments outside the listed temperature range voids the warranty AND may damage the product or adversely impact lamp life, lumen output and color consistency.

CONTROLS, SENSORS, & LED DRIVER

ALW lighting fixtures are intended for use with a wide range of sensors, lighting controls, LED drivers, and building management systems. Our component portfolio is continually expanding to adopt to the latest technologies and specification needs. We currently support integration with Lutron, Enlighted, EldoLED, nLight, Osram, Philips, and more. If there's a component or system needed that you don't see on the spec sheet please contact ALW customer support today so we can review your requirements.

WARRANTY

LIMITED WARRANTY. Visit alw-inc.com for more information.

WEIGHT

CORE 3				
PENDANT	SCONCE			
4.5 lbs/ 2.1 kg	2.5 lbs/ 1.1 kg			