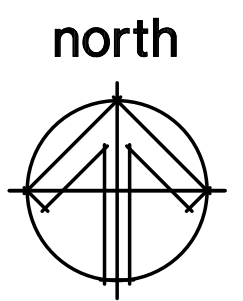


Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PROPERTY LINE - FC @ 3' AFG	X	0.7 Fc	6.5 Fc	0.0 Fc	N/A	N/A
PAD A - FC @ GRADE	+	4.5 Fc	39.1 Fc	0.0 Fc	N/A	N/A

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
□	EX1	7	EXISTING / ESTIMATE	QUAD AREA LUMIAIRE MOUNTED @ 20' AFG	Area Luminaire, 250W MH, R4 Reflector, Full Cutoff MEETS THE 'NIGHTTIME FRIENDLY' CRITERIA	ONE 250-WATT CLEAR BT-28 METAL HALIDE, HORIZONTAL POSITION	KAD_250M_R4_(PRDB) E3ies	19500	0.75	1188
□	EX1/R	2	EXISTING-RELOCATE / ESTIMATE	QUAD AREA LUMIAIRE MOUNTED @ 20' AFG	Area Luminaire, 250W MH, R4 Reflector, Full Cutoff MEETS THE 'NIGHTTIME FRIENDLY' CRITERIA	ONE 250-WATT CLEAR BT-28 METAL HALIDE, HORIZONTAL POSITION	KAD_250M_R4_(PRDB) E3ies	19500	0.75	1188
□	EX2	3	EXISTING / ESTIMATE	QUAD AREA LUMIAIRE MOUNTED @ 20' AFG	Area Luminaire, 250W MH, R4 Reflector, Full Cutoff MEETS THE 'NIGHTTIME FRIENDLY' CRITERIA	ONE (1) 250 WATT CLEAR BT28 PULSE STARTY METAL HALIDE LAMP IN HORIZONTAL POSITION	[...]	[...]	0.75	873
□	SA	1	LITHONIA LIGHTING	KAD LED 60C 700 30K R3 MVOLT SPD04 HS (FINISH) / SSS 175' W/2.5' BASE	KAD LED, 60 LED, 700mA MVOLT DRIVER, 3000K, TYPE 3 OPTICS WITH HOUSE SIDE SHIELDS	LED - 3000K	KAD_LED_60C_700_30 K_R3_MVOLT_HS.ies	11830	0.91	137
○	SG	20	ALW	CRM3/WL 20 83 30 40 NN R V10 S (FINISH)	CDRE 3 WET LOCATION SURFACE MOUNT	LED - 3000K	CDRE_WL-3_4_6-DIRECT-B3CRI-2000n-40deg-NNies	1822	0.91	19.5
○	SGE	1	ALW	CRM3/WL 20 83 30 40 NN R V10 S (FINISH) EMB	CDRE 3 WET LOCATION SURFACE MOUNT W/EM BATTERY PACK	LED - 3000K	CDRE_WL-3_4_6-DIRECT-B3CRI-2000n-40deg-NNies	1822	0.91	19.5

NOTE: THIS SITE PLAN HAS BEEN PREPARED WITHOUT THE AID OF A SURVEY. ALL PROPERTY BOUNDARIES ARE ROUGH APPROXIMATIONS. THIS DRAWING IS TO BE USED FOR CONCEPTUAL PURPOSES ONLY AND IT IS NOT TO BE THE BASIS FOR ANY LEGALLY BINDING DOCUMENTATION.

preliminary photometric plan
 scale: 1" = 20'-0"
 0 20' 40' 60'



Kerpan
 planning and design

4777 S. Fulton Ranch Blvd.
 Unit 2138
 Chandler, Arizona 85248
 Phone: (602) 329-0192

Plaza Mesa Shopping Center: New PAD A
 1230 S. Mesa Drive
 Mesa, Arizona 85210

PRELIMINARY
 NOT FOR
 CONSTRUCTION OR RECORDING

Red Mountain Group

Project number: 22038

Date: May 6, 2023

PM-1



CORE/WL 3

ROUND, WET LOCATION, DIRECT ILLUMINATION



SPECIFICATIONS

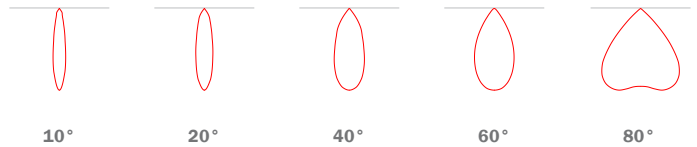
PROFILE	Round
SIZE	3.5" diameter, 8.1" or 5.0" shell height
LED OUTPUT	700lm - 2,000lm
CCT/CRI	2700K/3000K/3500K/4000K • 83 CRI or 98 CRI
DIMMING/DRIVER	Internal, Canopy, and Remote Driver: 0-10V, Phase, DALI, DMX, eldoLED, Lutron®. Dimming to 0% for select models.
POWER	5.6W to 19.5W per fixture
INPUT	100VAC to 277VAC Phase dimmable versions are 120VAC only
OPTICS	10° - 80° distribution spun aluminum reflectors. Field replaceable without tools.
FINISHES	Powder coat - TGIC polyester for exterior and interior use
MATERIAL	Extruded aluminum with stainless steel hardware
ENVIRONMENT	Wet location, IP66 rated LED module

WELL

For UGR values and recommended options that contribute to meeting the WELL Building Standard™ see [WELL addendum](#).

*Safety and Performance information available on last page. Output and other specifications available on page 6.

DISTRIBUTIONS & PROFILES



CORE/WL 3 PENDANT



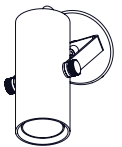
CORE/WL 3 SURFACE MOUNT



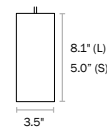
CORE/WL 3 SCONCE



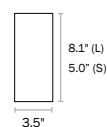
CORE/WL 3 YOKE



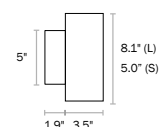
CORE/WL 3 PENDANT



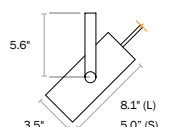
CORE/WL 3 SURFACE MOUNT



CORE/WL 3 SCONCE



CORE/WL 3 YOKE



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





PRODUCT SUBMITTAL QUICK WORKSHEET

-	-	-	-	-	-	-	-	-	-	-	-	-
1	2	3	4	5	6	7	8	9	10	11	12	13

EXAMPLE: CRP3/WL – 10982740HL – RV10 – L – BABK/12 – AC – EMB
 1 2 3 4 5 6 7 8 9 10 11 12 13

1. MODEL (CHOOSE 1)	2. OUTPUT (CHOOSE 1)	3. CRI (CHOOSE 1)	4. CCT (CHOOSE 1)
<input type="checkbox"/> CRP3/WL Pendant	<input type="checkbox"/> 07 700lm	<input type="checkbox"/> 83 83	<input type="checkbox"/> 27 2700K
<input type="checkbox"/> CRM3/WL Surface Mount	<input type="checkbox"/> 10 950lm	<input type="checkbox"/> 98 98	<input type="checkbox"/> 30 3000K
<input type="checkbox"/> CRS3/WL Sconce	<input type="checkbox"/> 13 1300lm		<input type="checkbox"/> 35 3500K
<input type="checkbox"/> CRY3/WL Yoke	<input type="checkbox"/> 20¹ 2000lm		<input type="checkbox"/> 40 4000K

¹Available for 83CRI only

5. REFLECTOR* (CHOOSE 1)	6. OPTICAL ACCESSORY (CHOOSE 1)	7. DRIVER LOCATION* (CHOOSE 1)	8. DIMMING* (CHOOSE 1)
<input type="checkbox"/> 10² 10° (0.3 S/MH)	<input type="checkbox"/> NN None	<input type="checkbox"/> N^{5,6} Internal	<input type="checkbox"/> V10 (0-10V, dim to 10%)
<input type="checkbox"/> 20 20° (0.4 S/MH)	<input type="checkbox"/> HL³ Honeycomb Louver	<input type="checkbox"/> R Remote	<input type="checkbox"/> P10 (Phase, dim to 10%)
<input type="checkbox"/> 40 40° (0.7 S/MH)	<input type="checkbox"/> DF Diffusion Lens	<input type="checkbox"/> D⁷ Deep Canopy	<input type="checkbox"/> ELDVO (eldoLED, 0-10V, dim to 0%)
<input type="checkbox"/> 60 60° (0.8 S/MH)	<input type="checkbox"/> LS Linear Spread Lens (60° x 1°)	[*] See 'Dimming/driver location compatibility on page 7 to ensure correct dimming specification.	<input type="checkbox"/> LDE1⁸ (Lutron ECOSYS1, 0-10V, dim to 1%)
<input type="checkbox"/> 80 80° (1.3 S/MH)	<input type="checkbox"/> WW Wall Wash Lens (shifts beam 20° from vertical)	[†] Sconce only.	<input type="checkbox"/> LTEA⁸ (Lutron HI-Lume, Phase dim, 2-wire to 1%)
[*] Beam angles noted above are nominal.	<input type="checkbox"/> FT⁴ Forward Throw	[‡] Internal driver located in arm on sconces.	<input type="checkbox"/> DALI⁸ (DALI, dim to 0%)
[†] Available for 1300lm 83CRI and lower or 950lm 98CRI and lower.	³ Not available for UP sconce style.	^{††} Not available for sconces.	<input type="checkbox"/> DMX⁹ (DMX, dim to 0%)
	⁴ Available for sconce only.		[*] See 'Driver' and 'dimming/driver compatibility' charts for dimming compatibility.
			⁶ Premium drivers available for remote driver location only.

9. SHELL HEIGHT* (CHOOSE 1)	10. SHELL COLOR* (CHOOSE 1)	11. SUSPENSION* (CHOOSE 1)	12. SUSPENSION OPTIONS (OPTIONAL CHOOSE 1)
<input type="checkbox"/> L 8.1" Shell	FINISHES**	PENDANT OPTIONS	PENDANT OPTIONS
<input type="checkbox"/> S^{9,10} 5.0" Shell	<input type="checkbox"/> SG Silver Gray	<input type="checkbox"/> BK¹¹ Black Cord	<input type="checkbox"/> AC Aircraft Cable
[*] See page 3 for shell dimension drawings.	<input type="checkbox"/> SW Satin White	<input type="checkbox"/> RS##¹² Rigid Stem	<input type="checkbox"/> SB¹³ Seismic Bracing
[†] Available for remote and deep canopy driver locations.	<input type="checkbox"/> SB Satin Black	<input type="checkbox"/> SS##¹² Swivel Stem	SCONCE OPTIONS
¹⁰ Internal driver location available for sconces only.	<input type="checkbox"/> --- Specify Finish Code (Ex: OB = Oil-Rubbed Bronze)	YOKE OPTIONS	<input type="checkbox"/> UP¹⁴ Uplight
	SPECIAL ORDER FINISHES**	<input type="checkbox"/> SC Standard Canopy	¹³ Seismic bracing only available for Rigid Stem suspensions.
	<input type="checkbox"/> RAL_____ Specify RAL Classic Color (Ex: RAL 3003) -	<input type="checkbox"/> RS##¹² Rigid Stem	¹⁴ Includes reflector cover.
	<input type="checkbox"/> CAT_____ Specify Catalog Colors	<input type="checkbox"/> SS##¹² Swivel Stem	
	<input type="checkbox"/> CCM_____ Specify Custom Color Match	[*] Selection not required for surface mount and sconce.	
	[*] See page 5 for finish chart.	¹¹ Standard cord length 8ft. For longer cords, type desired length after cord style in product code above (i.e BK/8 = Black Cord + 8ft cord length)	
	[†] Manually type the finish code into the parametric code above.	¹² Type desired stem length (4" -100") into product code above.	

13. EMERGENCY OPTIONS* (OPTIONAL)

EMB¹⁵ Emergency Battery

^{*}Emergency options only available with 0-10V driver options. Third party inverter system recommended for other driver options. Refer to [ALW EM Solution Catalog](#) for all compatibility exceptions.

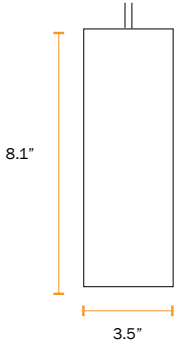
¹⁵Available for remote driver only.



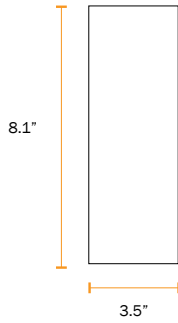
DIMENSIONS AND MOUNTING

SHELL HEIGHT L

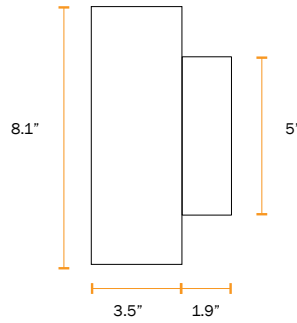
CORE/WL 3
PENDANT



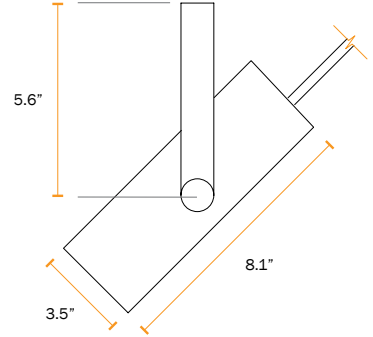
CORE/WL 3
SURFACE



CORE/WL 3
SCONCE

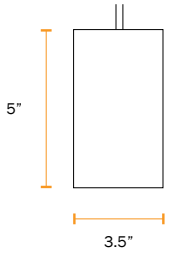


CORE/WL 3
YOKE

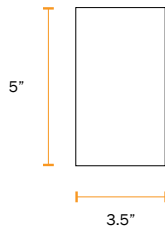


SHELL HEIGHT S

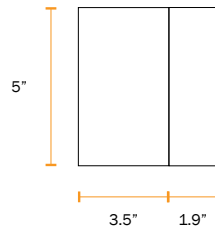
CORE/WL 3
PENDANT



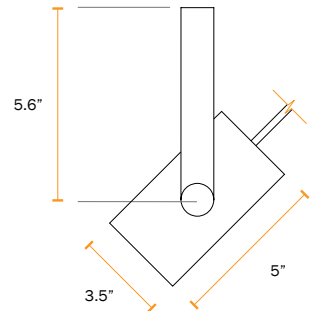
CORE/WL 3
SURFACE



CORE/WL 3
SCONCE



CORE/WL 3
YOKE



REMOTE DRIVER

STANDARD SHALLOW CANOPY

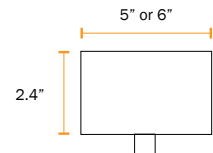
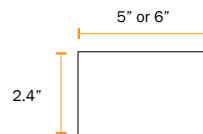
PENDANT ONLY



DEEP CANOPY MOUNTED DRIVER^{16,17}

DEEP CANOPY FOR CANOPY MOUNTED LED DRIVERS

PENDANT ONLY



Not to scale. Dimensions are nominal. Consult factory for CAD drawings
All canopies fit standard 3.5" and 4" round and octagonal junction boxes.

¹⁶Deep canopy diameter depends on LED driver size

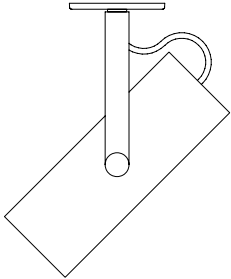
¹⁷Dual output emergency battery fixtures may require 7" canopy

SS071222



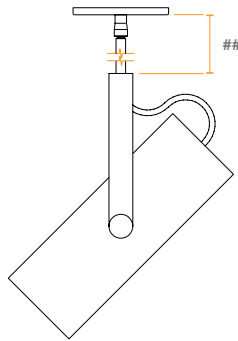
DIMENSIONS AND MOUNTING

YOKE STANDARD CANOPY



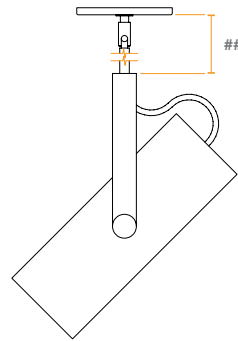
YOKE RIGID STEM

Includes 10° hang straight



YOKE SWIVEL STEM

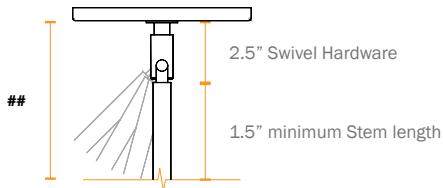
360° rotation x 90° tilt swivel



= length in inches from bottom of canopy to top of yoke

PENDANT SUSPENSION OPTIONS

SWIVEL STEM

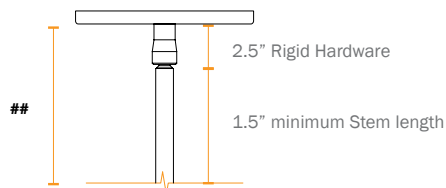


Order Code = **SS##**

= length in inches from bottom of canopy to top of fixture. Includes the swivel hardware. Minimum length for swivel hardware + stem is 4". Total length (##) for swivel hardware alone is 2.5".

360° rotation x 90° tilt swivel

RIGID STEM

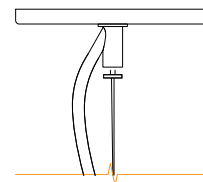


Order Code = **RS##**

= length in inches from bottom of canopy to top of fixture. Includes the rigid hardware. Minimum length for rigid hardware + stem is 4". Total length (##) for rigid hardware alone is 2.5".

Includes 10° hang straight

AIRCRAFT CABLE



Order Code = **AC**

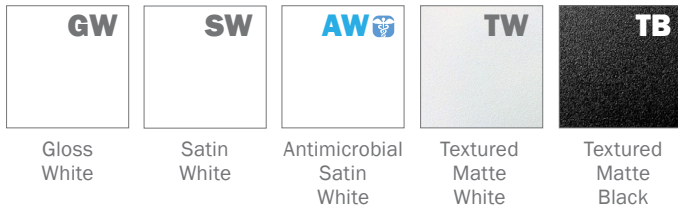
Standard cable length = 6'

Cable length is field adjustable

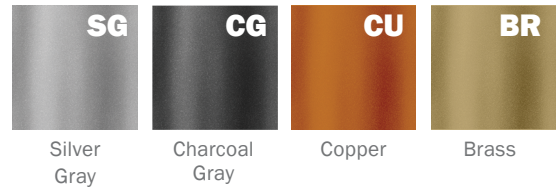


FINISHES

BASIC POWDER COAT



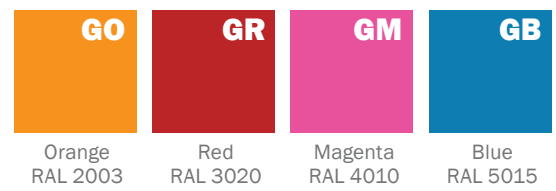
METALLIC POWDER COAT



SATIN ANODIZED EFFECT POWDER COAT



GLOSS POWDER COAT (80-95% GLOSS)



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.alwusa.com/finishes



CUSTOM COLOR MATCH: CCM_ _ _ _

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



CATALOG COLORS: CAT_ _ _ _

The complete range of powder coat colors from Tiger Drylac and TCI catalogs are available for a minimum setup fee. Consult ALW for a catalog color you would like to specify.

*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



PERFORMANCE DETAILS

REFLECTOR OPTION ¹⁸	CRI	OUTPUT OPTIONS	DELIVERED LUMENS ¹⁹	EFFICACY (LM/W)	SYSTEM WATTS(W)	CCT OPTIONS
10° 20° 40° 60° 80°	Ra = 83 ± 3	700	643	115	5.6	2700K 3000K 3500K 4000K
		950	873	106	8.2	
		1300	1196	102	11.7	
		2000	1839	94	19.5	
	Ra = 98 ± 3	700	643	86.9	7.4	
		950	873	80.1	10.9	
		1300	1196	76.7	15.6	

^{*}Based on 40° reflector for all outputs.

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

¹⁸10° Reflector only available for 83CRI 1300lm and lower and 98CRI 950lm and lower.

¹⁹Actual lumens measured in field may differ +/- 10%.



DRIVERS

PRODUCT CODE	DESCRIPTION
V10	0-10V dimming down to 10%
P10	ELV/TRIAC Phase dimming down to 10%
ELDV0	eldoLED, 0-10V dimming down to 0%
DALI	DALI flicker-free dimming down to 0%.
DMX	DMX flicker-free dimming down to 0%.
LDE1	ECOSYS1, (LDE1) Lutron Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology
LTEA	LTEA. Lutron Hi-lume 1% 2-wire TRIAC dimming (120V forward-phase only)

*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.

DRIVER/LED LAMPING COMPATIBILITY			
	STD*	CA TITLE 24 JA8/JA10 ²⁰	IEEE P1789 & HD TV STUDIO ²¹
V10	●		
P10	●		
ELDV0	●	●	●
DALI	●	●	●
DMX	●	●	●
LDE1	●	●	●
LTEA	●	●	

● - Indicates compatibility

*Standard lamping (STD) - 700-2000LM

²⁰Fixtures specified with 83CRI, 98CRI, 2700K, 3000K, 3500K, and 4000K lamping with applicable LED drivers have the ability to conform to California Title 24 JA8 and JA10 Appendices.

²¹The 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.

DRIVER LOCATION/DRIVER COMPATIBILITY			
	INTERNAL*	DEEP CANOPY	REMOTE
V10	●	●	●
P10	●	●	●
ELDV0		●	●
DALI		●	●
DMX		●	●
LDE1		●	●
LTEA		●	●

*Internal driver only available for sconces. Driver located in sconce arm.



PHOTOMETRICS CORE/WL

BEAM ANGLE (°)	POLAR PLOT (CD)	MTG HEIGHT (FT)	LIGHT LEVEL (FC)	BEAM DIAMETER (FT)	SPACING CRITERION (SC) ²² (0° - 180°) (90° - 270°)	MAX INTENSITY (CD)	BUG RATING
10°		6	315.8	1.8	.30 .30	11370	B2-U0-G0
		8	177.7	2.4			
		10	113.7	3.0			
		12	79.0	3.5			
		14	58.0	4.1			
		16	44.4	4.7			
20°		6	173.0	2.6	.40 .40	6228	B2-U0-G0
		8	97.3	3.4			
		10	62.3	4.3			
		12	43.3	5.1			
		14	31.8	6.0			
		16	24.3	6.8			
40°		6	87.6	4.5	.65 .65	3154	B2-U1-G0
		8	49.3	5.9			
		10	31.5	7.4			
		12	21.9	8.9			
		14	16.1	10.4			
		16	12.3	11.9			
60°		6	40.7	5.9	.80 .80	1465	B1-U1-G1
		8	22.9	7.9			
		10	14.7	9.8			
		12	10.2	11.8			
		14	7.5	13.7			
		16	5.7	15.7			
80°		6	34.4	10.2	1.31 1.31	1355	B2-U0-G0
		8	19.3	13.6			
		10	12.4	17.0			
		12	8.6	20.4			
		14	6.3	23.8			
		16	4.8	27.2			

*Photometric calculations based on 2000lm 2700K-4000K 83CRI-98CRI fixture combination. Actual results may vary in the field.

For footcandle and output multipliers refer to the [ALW IES File Multipliers Chart](#).

²²Spacing 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 70% lumen maintenance, LM80 / TM-21

COLOR CONSISTENCY

1x2 SDCM (MacAdam) along BBL, CCT +/- 40K to 70K, Duv +/- .001

HOUSING

Extruded aluminum with stainless 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.

ETL Listed (U.S. & Canada). Suitable for wet locations.
Conforms to UL 1598, 2108, 8750
Certified to CSA std. CSA C22.2# 9 & #250.0

OPERATING TEMPERATURE

Luminaire should be installed and operated **ONLY** in environments where the ambient temperature ranges from -4 °F to 104 °F (-20 °C to 40 °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 & 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. 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 alwusa.com/warranty for more information.

WEIGHT

CORE/WL 3			
PENDANT	SURFACE MOUNT	SCONCE	YOKE
4.5 lbs/ 2.1 kg	4.5 lbs/ 2.1 kg	4.5 lbs/ 1.1 kg	2.75 lbs/ 1.25 kg

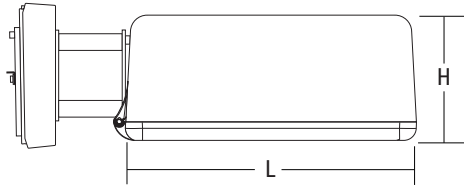


KAD LED LED Area Luminaire



Specifications

EPA:	1.2 ft ² (0.11 m ²)
Length:	17-1/2" (44.5 cm)
Width:	17-1/2" (44.5 cm)
Height:	7-1/8" (18.1 cm)
Weight (max):	36 lbs. (16.4 kg)



Catalog
Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability¹
- This luminaire is part of an A+ Certified solution for ROAM®2 control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background¹

To learn more about A+, visit www.acuitybrands.com/aplus.

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)

A+ Capable options indicated by this color background.

Ordering Information

EXAMPLE: KAD LED 40C 1000 40K R5 MVOLT SPD04 DDBXD

KAD LED						
Series	LEDs	Drive current	CCT	Distribution	Voltage	Mounting ³
KAD LED	20C ¹ 20 LEDs	530 530 mA ¹	30K 3000 K	R2 Type II	MVOLT ³ 277 ⁴	Shipped included SPUMBAK__ Square pole universal mounting adaptor ⁶ RPUMBAK__ Round pole universal mounting adaptor ⁶ SPD__ Square pole RPD__ Round pole WWD__ Wood pole or wall Shipped separately 04 4" arm 09 9" arm ⁵ 12 12" arm ⁶ DAD12P Degree arm (pole) DAD12WB Degree arm (wall) KMA Mast arm external fitter
	30C ¹ 30 LEDs	700 700 mA	40K 4000 K	R3 Type III	120 ⁴ 347 ^{1,3}	
	40C 40 LEDs	1000 1000 mA	50K 5000 K	R4 Type IV	208 ^{4,5} 480 ^{1,3}	
	60C 60 LEDs			R5 Type V ²	240 ^{4,5}	

Options				Finish (required)						
Shipped installed				DDBXD	Dark bronze	DDBTXD	Textured dark bronze			
PER5	NEMA twist-lock five-wire receptacle only (no controls) ^{7,8,9}		PIR1FC3V	Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc ^{3,10,11,12,13}	HS	Houseside shield ¹⁶	DBLXD	Black	DBLBXD	Textured black
PER7	Seven-wire receptacle only (no controls) ^{7,8,9}		PIRH1FC3V	Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc ^{3,10,11,12,13}			DNAXD	Natural aluminum	DNATXD	Textured natural aluminum
SF	Single fuse (120, 277, 347V) ⁴		BL30	Bi-level switched dimming, 30% ^{3,9,10,11}			DWHXD	White	DWHGXD	Textured white
DF	Double fuse (208, 240, 480V) ⁴		BL50	Bi-level switched dimming, 50% ^{3,9,10,11}						
PIR	Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc ^{3,10,11,12,13}									
PIRH	Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc ^{3,10,11,12,13}									



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COMMERCIAL OUTDOOR

Ordering Information

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photozell - SSL twist-lock (120-277V) ¹⁷
DLL347F 1.5 CUL JU	Photozell - SSL twist-lock (347V) ¹⁷
DLL480F 1.5 CUL JU	Photozell - SSL twist-lock (480V) ¹⁷
DSHORT SBK U	Shorting cap ¹⁷
KADLEDHS 20C U	Houseside shield for 20 LED unit
KADLEDHS 30C U	Houseside shield for 30 LED unit
KADLEDHS 40C U	Houseside shield for 40 LED unit
KADLEDHS 60C U	Houseside shield for 60 LED unit
KMA DDBXD U	Mast arm adapter (specify finish)
PUMBAK DDBXD U*	Square and round pole universal mounting bracket adaptor (specify finish)

For more control options, visit [DTL](#) and [ROAM](#) online.

*Round pole top must be 3.25" O.D. minimum.

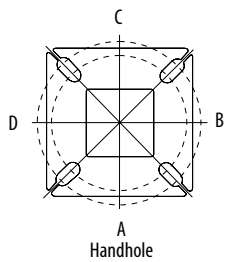
NOTES

- 20C or 30C LED are not available with 530 Drive Current and 347V or 480V.
- Any Type 5 distribution, is not available with WBA.
- Any PIRx with BL30, BL50, is not available with 208V,240V, 347V, 480V or MVOLT. It is only available in 120V or 277V specified.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- 9" or 12" arm is required when two or more luminaires are oriented on a 90° drilling pattern.
- Available as a separate combination accessory: PUMBAK (finish) U.
- Mounting must be restricted to ±45° from horizontal aim per ANSI C136.10-2010. Not available with motion sensor.
- Photozell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option. Shorting cap included.
- If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Not available with DCR. Node with integral dimming. Shorting cap included.
- PIR and PIR1FC3V specify the [SensorSwitch SBGR-10-ODP](#) control; PIRH and PIRH1FC3V specify the [SensorSwitch SBGR-6-ODP](#) control. Dimming driver standard. Not available with PER5 or PER7.
- Maximum ambient temperature with 347V or 480V is 30°C.
- Reference Motion Sensor table.
- Reference PER table on page 3 to see functionality.
- Requires an additional switched circuit with same phase as main luminaire power. Supply circuit and control circuit are required to be in the same phase.
- Dimming driver standard. MVOLT only. Not available with 347V, 480V, PER5, PER7 or PNMT options.
- Also available as a separate accessory; see Accessories information.
- Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item from Acuity Brands Controls.

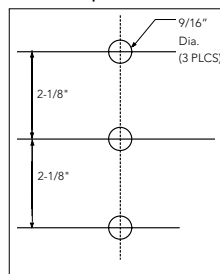
Drilling

Template #5

HANDHOLE ORIENTATION



Top of Pole



Tenon Mounting Slipfitter**

Tenon O.D.	Single Unit	2 at 180°	2 at 90° †	3 at 120°	3 at 90° †	4 at 90° †
2-3/8"	T20-190	T20-280	T20-290	T20-320 †	T20-390	T20-490
2-7/8"	T25-190	T25-280	T25-290	T25-320	T25-390	T25-490
4"	T35-190	T35-280	T35-290	T35-320	T35-390	T35-490

** For round pole mounting (RPDXX) only. † Requires 9" or 12" arm.

Pole drilling nomenclature: # of heads at degree from handhole (default side A)				
DM19	DM28	DM29	DM39	DM49
1 @ 90°	2 @ 280°	2 @ 90°	3 @ 90°	4 @ 90°
Side B	Side B & D	Side B & C	Side B, C, & D	Sides A, B, C, D

Note: Review luminaire spec sheet for specific nomenclature

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

LEDs	Drive Current (mA)	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
				Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
20C	530 mA	35W	R2	4,140	1	0	1	118	4,446	1	0	1	127	4,473	1	0	1	128
			R3	4,123	1	0	1	118	4,427	1	0	1	126	4,455	1	0	1	127
			R4	4,128	1	0	1	118	4,433	1	0	1	127	4,460	1	0	1	127
			R5	4,381	2	0	1	125	4,704	3	0	1	134	4,734	3	0	1	135
	700 mA	45W	R2	5,271	1	0	1	117	5,660	1	0	1	126	5,696	1	0	2	127
			R3	5,250	1	0	2	117	5,637	1	0	2	125	5,672	1	0	2	126
			R4	5,256	1	0	2	117	5,644	1	0	2	125	5,679	1	0	2	126
			R5	5,578	3	0	1	124	5,990	3	0	1	133	6,027	3	0	1	134
	1000 mA	73W	R2	7,344	1	0	2	101	7,886	2	0	2	108	7,935	2	0	2	109
			R3	7,314	1	0	2	100	7,854	1	0	2	108	7,903	1	0	2	108
			R4	7,322	1	0	2	100	7,863	1	0	2	108	7,912	1	0	2	108
			R5	7,771	3	0	1	106	8,345	3	0	1	114	8,397	3	0	1	115
30C	530 mA	53W	R2	6,166	1	0	2	116	6,621	1	0	2	125	6,663	1	0	2	126
			R3	6,141	1	0	2	116	6,594	1	0	2	124	6,635	1	0	2	125
			R4	6,148	1	0	2	116	6,602	1	0	2	125	6,643	1	0	2	125
			R5	6,525	3	0	1	123	7,006	3	0	1	132	7,050	3	0	1	133
	700 mA	69W	R2	7,817	2	0	2	113	8,395	2	0	2	122	8,447	2	0	2	122
			R3	7,785	1	0	2	113	8,360	2	0	2	121	8,412	2	0	2	122
			R4	7,794	1	0	2	113	8,370	1	0	2	121	8,422	1	0	2	122
			R5	8,272	3	0	2	120	8,883	3	0	2	129	8,938	3	0	2	130
	1000 mA	108W	R2	10,755	2	0	2	100	11,549	2	0	2	107	11,621	2	0	2	108
			R3	10,711	2	0	2	99	11,502	2	0	2	106	11,574	2	0	2	107
			R4	10,724	2	0	2	99	11,515	2	0	2	107	11,587	2	0	2	107
			R5	11,381	3	0	2	105	12,221	4	0	2	113	12,297	4	0	2	114
40C	530 mA	71W	R2	8,156	2	0	2	115	8,758	2	0	2	123	8,812	2	0	2	124
			R3	8,122	2	0	2	114	8,722	2	0	2	123	8,776	2	0	2	124
			R4	8,132	1	0	2	115	8,732	1	0	2	123	8,786	1	0	2	124
			R5	8,630	3	0	2	122	9,267	3	0	2	131	9,325	3	0	2	131
	700 mA	94W	R2	10,286	2	0	2	109	11,045	2	0	2	118	11,114	2	0	2	118
			R3	10,244	2	0	2	109	11,000	2	0	2	117	11,069	2	0	2	118
			R4	10,256	2	0	2	109	11,013	2	0	2	117	11,081	2	0	2	118
			R5	10,884	3	0	2	116	11,688	4	0	2	124	11,761	4	0	2	125
	1000 mA	141W	R2	13,923	2	0	2	99	14,951	2	0	2	106	15,045	2	0	2	107
			R3	13,866	2	0	3	98	14,890	2	0	3	106	14,983	2	0	3	106
			R4	13,882	2	0	3	98	14,907	2	0	3	106	15,000	2	0	3	106
			R5	14,733	4	0	2	104	15,821	4	0	2	112	15,920	4	0	2	113
60C	530 mA	103W	R2	11,996	2	0	2	116	12,882	2	0	2	125	12,963	2	0	2	126
			R3	11,947	2	0	2	116	12,829	2	0	2	125	12,909	2	0	2	125
			R4	11,961	2	0	2	116	12,844	2	0	2	125	12,925	2	0	2	125
			R5	12,694	4	0	2	123	13,632	4	0	2	132	13,717	4	0	2	133
	700 mA	137W	R2	14,927	2	0	2	109	16,029	3	0	3	117	16,130	3	0	3	118
			R3	14,866	2	0	3	109	15,964	2	0	3	117	16,063	2	0	3	117
			R4	14,884	2	0	2	109	15,982	2	0	3	117	16,082	2	0	3	117
			R5	15,796	4	0	2	115	16,962	4	0	2	124	17,068	4	0	2	125
	1000 mA	216W	R2	19,328	3	0	3	89	20,754	3	0	3	96	20,884	3	0	3	97
			R3	19,248	3	0	3	89	20,669	3	0	4	96	20,799	3	0	4	96
			R4	19,271	3	0	3	89	20,693	3	0	4	96	20,823	3	0	4	96
			R5	20,452	4	0	2	95	21,962	4	0	2	102	22,099	4	0	2	102

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	1.00
40°C	104°F	0.99

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **KAD LED** platform in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	KAD LED 60C 1000			
	1.0	0.91	0.86	0.76
	KAD LED 40C 1000			
	1.0	0.93	0.88	0.79
	KAD LED 60C 700			
	1.0	0.98	0.97	0.94

Motion Sensor Default Settings

Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

*For use when motion sensor is used as dusk to dawn control

PER Table

Control	PER (3 wire)	PER5 (5 wire)		PER7 (7 wire)	
		Wire 4/Wire5	Wire 4/Wire5	Wire 4/Wire5	Wire 6/Wire7
Photocontrol Only (On/Off)	✓	⚠	Wired to dimming leads on driver	⚠	Wires Capped inside fixture
ROAM	✗	✓	Wired to dimming leads on driver	⚠	Wires Capped inside fixture
ROAM with Motion (ROAM on/off only)	✗	⚠	Wires Capped inside fixture	⚠	Wires Capped inside fixture
Future-proof*	✗	⚠	Wired to dimming leads on driver	✓	Wires Capped inside fixture
Future-proof* with Motion	✗	⚠	Wires Capped inside fixture	✓	Wires Capped inside fixture

- ✓ Recommended
- ✗ Will not work
- ⚠ Alternate

*Future-proof means: Ability to change controls in the future.

Electrical Load

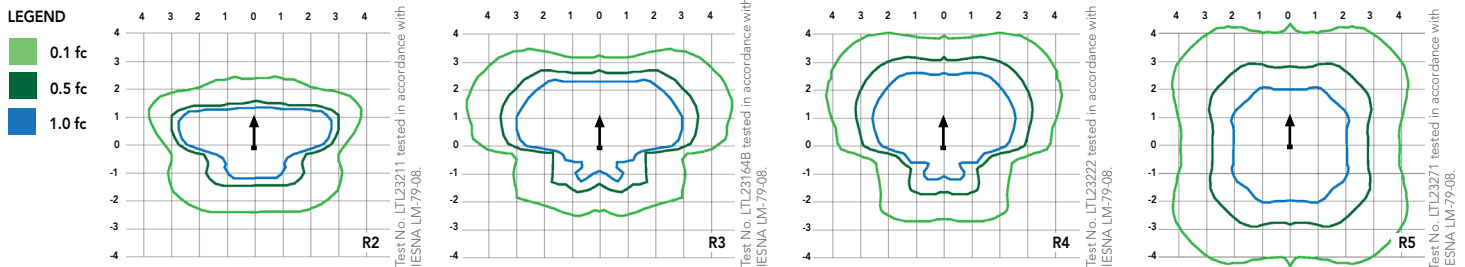
Number of LEDs	Drive Current (mA)	System Watts	Current (A)					
			120	208	240	277	347	480
20	530	35	0.30	0.18	0.16	0.15	-	-
	700	45	0.39	0.23	0.20	0.18	0.15	0.12
	1000	73	0.61	0.35	0.31	0.27	0.22	0.17
30	530	53	0.44	0.26	0.23	0.20	-	-
	700	69	0.58	0.34	0.29	0.26	0.21	0.16
	1000	108	0.90	0.52	0.46	0.40	0.32	0.24
40	530	71	0.60	0.35	0.32	0.29	0.21	0.16
	700	94	0.79	0.46	0.41	0.36	0.27	0.20
	1000	141	1.18	0.68	0.59	0.52	0.42	0.30
60	530	103	0.87	0.50	0.44	0.39	0.29	0.22
	700	137	1.15	0.66	0.58	0.51	0.40	0.29
	1000	216	1.81	1.04	0.92	0.81	0.63	0.47

NOTE: All ratings in this table are for a nominal system operated at 25°C ambient temperature. Current and power specifications in this table do not include branch circuit derating specified in the National Electrical Code. Please observe all applicable electrical codes and ratings.

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [KAD LED homepage](#).

Isofootcandle plots for the KAD LED 60C 1000 40K. Distances are in units of mounting height (20').



FEATURES & SPECIFICATIONS

INTENDED USE

The energy savings and long life of the KAD LED area luminaire make it a reliable choice for illuminating streets, walkways, parking lots, and surrounding areas.

CONSTRUCTION

Single-piece die-cast, aluminum housing with contoured edges has a 0.12" nominal wall thickness. Die-cast door frame has an impact-resistant, tempered glass lens that is fully gasketed with one piece tubular silicone.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling.

OPTICS

Precision-molded refractive acrylic lenses are available in four distributions. Light engines are available in standard 4000K, 3000K or 5000K (70 CRI) configurations.

ELECTRICAL

Light engine consists of high-efficacy LEDs mounted to a metal-core circuit board and aluminum heat sink, ensuring optimal thermal management and long life. Class 1 electronic driver has a power factor >90%, THD <20%, and has an expected life of 100,000 hours with <1% failure rate. Easily-serviceable surge protection device meets a minimum Category C Low (per ANSI/IEEE C62.41.2).

INSTALLATION

Included universal mounting block and extruded aluminum arm facilitate quick and easy installation using nearly any existing drilling pattern. Stainless steel bolts fasten the luminaire to the mounting block securing it to poles or walls. The KAD LED can withstand up to a 1.5 G vibration load rating per ANSI C136.31. The KAD LED also utilizes the standard K-Series (Template #5) for pole drilling.

LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP65 rated. Rated for -40°C minimum ambient.

BUY AMERICAN ACT

This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations.

Please refer to www.acuitybrands.com/resources/buy-american for additional information.

WARRANTY

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at:

www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



COMMERCIAL OUTDOOR

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