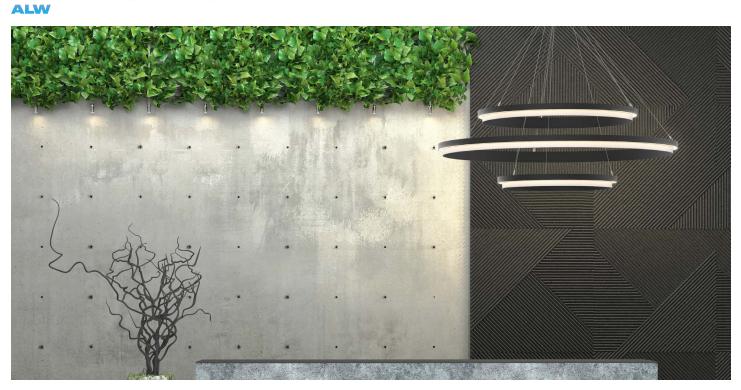
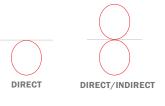
MOONRING MULTISTAK MR1.5/MR3-3M | SUSPENDED

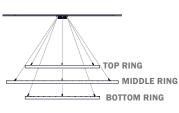


SPECIFICATIONS

SIZES 2ft 6ft. diameter (custom diameters available) LED OUTPUT 1,500lm - 15,925 lm (238/m/ft - 1129 lm/ft)
LED OUTPUT 1,500lm - 15,925 lm (238/m/ft - 1129 lm/ft)
CCT/CRI 2700K/3000K/3500K/4000K • 80 or 90+ CRI Tunable White (2700K - 6500K) • RGB and RGB+W
DIMMING/ DRIVERRemote Driver: 0-10V, DALI, DMX, eldoLED, Lutron®, PoE (Molex, Igor, NuLEDS). Dimming to 0% for select models.
POWER 22W - 404W per ring
INPUT 120VAC, 277VAC, or 347VAC
OPTICS Diffused acrylic lens – direct/indirect Optional clear (high transmission) lens – indirect
17 standard finishes at no extra chargeFINISHESCustom finishes availableTwo-tone paint (select models available with extra charge)
MATERIAL 6061 Extruded & Welded Aluminum
ENVIRONMENT Indoor, dry location only

DISTRIBUTIONS & PROFILES





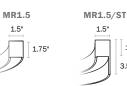
1.75"

3.5"

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

hLIGHT

O COOPER



3.5"

enlighted

VIVe

Ð

Intertek

MR3 3.0"



molex

NuLEDs

PoE Ready



*Safety and Performance information available on last page. Weights and other specifications available on pages 6-8.

Igor

PRODUCT SPECIFICATION SHEET

12b 4a 4b 4c 7a 7b 7c **10**a 10b **12**a 12c 2 3 5 6 8 9 11 EXAMPLE: MR1.5/TS - 3M/2/3/2 - CSS - MED/90/3500 - V00 - LENS - LOW/90/3500K - V00 - LENS - BA/SW - UNV - EMB - SB 3 5 6 8 9 10 **12**a 12b 12c 1 2 4 7 1. BASE MODEL (CHOOSE 1) 2. NOMINAL SIZE* (CHOOSE 1) 1.5", A: short, B: short 3M/2/3/2 Top Ring: 2ft. Middle Ring: 3ft. Bottom Ring: 2ft. MR1.5 MR1.5/ST 1.5", A: short, B: tall 3M/2/4/2 Top Ring: 2ft. Middle Ring: 4ft. Bottom Ring: 2ft. 3M/2/5/2 1.5". A: tall. B: short Top Ring: 2ft. Middle Ring: 5ft. Bottom Ring: 2ft. MR1.5/TS MR1.5/TT 1.5", A: tall, B: tall 3M/2/6/2 Top Ring: 2ft. Middle Ring: 6ft. Bottom Ring: 2ft. Top Ring: 3ft. Middle Ring: 4ft. Bottom Ring: 3ft. MR3 3.0", A: tall , B: tall 3M/3/4/3 3M/3/5/3 Top Ring: 3ft. Middle Ring: 5ft. Bottom Ring: 3ft. MR1.5 MR1.5/ST MR1.5/TS 3M/4/3/2 Top Ring: 4ft. Middle Ring: 3ft. Bottom Ring: 2ft. Top Ring: 4ft. Middle Ring: 5ft. Bottom Ring: 4ft. 3M/4/5/4 3M/4/6/4 Top Ring: 4ft. Middle Ring: 6ft. Bottom Ring: 4ft. Top Ring: 5ft. Middle Ring: 3ft. Bottom Ring: 2ft. 3M/5/3/2 TOP RIN 3M/5/4/2 Top Ring: 5ft. Middle Ring: 4ft. Bottom Ring: 2ft. 3M/5/4/3 Top Ring: 5ft. Middle Ring: 4ft. Bottom Ring: 3ft. 3M/5/6/5 Top Ring: 5ft. Middle Ring: 6ft. Bottom Ring: 5ft. MIDDLE F 3M/6/3/2 Top Ring: 6ft. Middle Ring: 3ft. Bottom Ring: 2ft. 3M/6/4/3 Top Ring: 6ft. Middle Ring: 4ft. Bottom Ring: 3ft. 3M/6/4/2 Top Ring: 6ft. Middle Ring: 4ft. Bottom Ring: 2ft. **BOTTOM RING** 3M/6/5/2 Top Ring: 6ft. Middle Ring: 5ft. Bottom Ring: 2ft. 3M/6/5/3 Top Ring: 6ft. Middle Ring: 5ft. Bottom Ring: 3ft. *Top, Middle, and Bottom rings may be interchanged by cutting aircraft cables to desired lengths. Rings may be mounted at a maximum recommended angle of 20° from the horizontal.

3. MOUN	TING	4. LED LAMPING - DIRECT	(CHOOSE	E 1 FOR EACH)	5. REMOTE DRIVER - DIRECT ^{6,7} (CHOOSE 1)	6. LENS - DIR	ECT		
CSS	STAKedTM Canopy (Central Stacked	A. OUTPUT (MR1.5/MR3) ¹	B. CRI ⁵	C. CCT ⁵	V00 (0-10V, dim to 0%)	LENS	Extra diffuse lens		
	Suspension). Patent pending canopy	MIN (1500/2350 lm/ft)	80	2700K	V01 (0-10V, dim to 1%)				
	that all aircraft cables and power cords	LOW (2250/3550 lm/ft)	90	3000K	V05 (0-10V, dim to 5%)				
	feed into.	MED (3000/4725 lm/ft)		3500K	LDE1 (Lutron ECOSYS1, 0-10V, dim to 1%)				
*Requires n	nounting directly to blocking/framing. See page	HI2 (4500/7100 lm/ft)		4000K	DALI (DALI, dim to 0%)				
4 for more		TUNE ³ (27K-65K, 4450/4	725 lm/ft)		DMX (DMX, dim to 0%)				
		RGB ³ (1750/1850 lm/ft)			POEM (POE Molex)				
		RGBW ³ (3500K, White, 1	950/2075	lm/ft)					
		CSTM/4(Enter lum		uct code above.	POEN (POE Nuleds)				
		Ex. 0100=:	100lm/ft)		POE [®] (POE Ready)				
		*Choose when TUNE, RGB, or RK *For delivered lumens and watts ?Refer to additional footnotes b *TUNE and RGBW only available *Consult ALW for custom lumen *CR/CCT options not applicable lamping	s, see "Perf elow for mo in 80CRI packages.	ormance Details" ore information	⁹ Driver specifications provided upon request. See page 10 for driver details 'Refer to all 'Driver', 'Sensor' and lamping charts for compatibility Proposed deviced RE colution and listed Contact outcomer				

7. LED LAMPING - INDIRECT (CHOOSE 1 FOR EACH)	8. REMOTE DRIVER - INDIRECT ^{6,7} (CHOOSE 1)	9. LENS - INDIRECT (CHOOSE 1)	10. FINISH* (CHOOSE 1 FOR EACH WALL)
N (None) A. OUTPUT (MR1.5/MR3) ¹ B. CRI ⁵ C. CCT ⁵ MIN (1650/2650 lm/ft) 80 2700K LOW (2500/3975 lm/ft) 90 3000K MED (3350/5300 lm/ft) 3500K HI ² (N/A) HUNE ² (27K-65K, 4950/5300 lm/ft) 4000K	N (None) VOO (0-10V, dim to 0%) VO1 (0-10V, dim to 1%) VO5 (0-10V, dim to 5%) LDE1 (Lutron ECOSYS1, 0-10V, dim to 1%) DALI (DALI, dim to 0%) DMX (DMX, dim to 0%)	N None LENS Extra diffuse lens HT* High transmission, near-clear lens *High transmission lens increases lumen output by ~14%, but LED chip is visible. Recommended only when top-side of fixture is not directly visible.	A B STANDARD FINISHES SW Satin White SB Satin Black AS Aluminum Silver Anodized Effect TB Textured Black BA Brushed Aluminum PREMIUM FINISHES
CSTM/4 (Enter lumens in product code above. Ex. 0100=100/m/ft)	POEM (POE Molex) POEI (POE IGOR) POEN (POE Nuleds) POE [®] (POE Ready)		See chart on page 5 for premium finishes. Manually type in the finish code (Ex: OB = Oil-Rubbed Bronze)
Choose when TUNE, RGB, or RGBW is desired output For delivered lumens and watts, see "Performance Details" Refer to additional footnotes below for more information TUNE and RGBW only available in 80CRI Consult ALW for custom lumen packages. CRI/CCT options not applicable for TUNE, RGB, or RGBW lamping	⁶ Driver specifications provided upon request. See page 10 for driver details "Refer to all "Driver', "Sensor' and lamping charts for compatibility "Choose desired PoE solution not listed. Contact customer service to review and confirm the PoE system of your choice		SPECIAL ORDER FINISHES* RAL Specify RAL Classic Color (Ex: RAL 3003) CCM Custom Color Match *A: Inside Wall, B: Outside Wall, Wall diagram on page 5. Leave "B" unselected for MR1.5 SS, TT, and MR3. Manually type in the finish code for special order finishes.

CONTINUES ON NEXT PAGE

Rev 112023

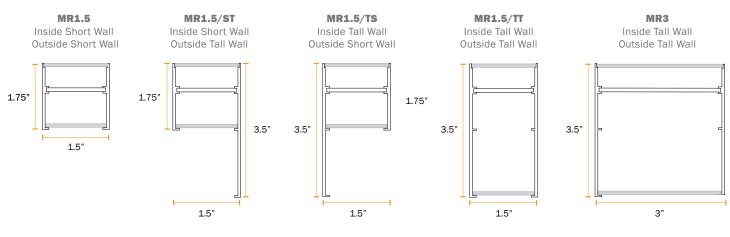
MR MULTI- SPECIFICATIONS SUSPENDED ALW-INC.COM 2 of 13



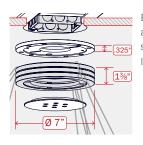
PRODUCT SPECIFICATION SHEET

11. VOLT/	GE (CHOOSE 1)	12a. EMER	GENCY OPTIONS (OPTIONAL, CHOOSE 1)	12b. SENSOR OPTIONS* (OPTIONAL, CHOOSE	1) 12c. Additional options (Optional)
UNV 347	Universal Voltage (120VAC-277VAC) 347 Volt (Driver options may be limited. Not available with EMB)	power to a 2	Emergency Battery (Not available in 347 V) Emergency Circuit lirect lamping only. EMB will deliver constant 2ft arc of a ring for 90min. Total lumens: 2jims, MR3: 2256lms. Consult ALW for s.	N (None) WLNX/ (Cooper Wavelinx) ENLGHT/ (Enlighted) FCJS/S/ (Lutron) FCJS/S/ (Lutron, occ/daylight sensor) MLX (Molex POE) NLT (nLight wired) NLTAIR (nLight AIR wireless) OS/PH/HV/ (Hubbel WASP remote occ/ daylight sensor) *Default quantity is 1 sensor per 8ft, type alternate quantity into product code above if desired. Sensor descriptions available on page 11. *Not all sensors are compatible with all drivers. See 'Driver',	SB Seismic Bracing

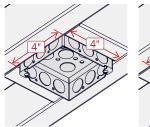
MECHANICAL DIAGRAMS

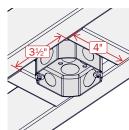


MOUNTING - STAK™ CANOPY (CENTRAL STACKED SUSPENSION)

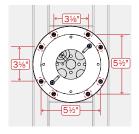


Brushed aluminum stacked central axis canopy that all aircraft/power cables feed into. The standard stacked canopy (for 3 rings) weighs approximately 4 lbs. Dimensions are shown.

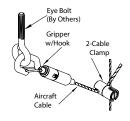




Compatible with square or octagonal 4x4 J-Boxes (not included). Framing must be installed to the given dimensions for canopy and fixture to be properly supported.



The canopy must be secured directly to framing/ blocking using eight (8) #10 screws (min. 2" length) to support the fixture, as shown.



SEISMIC BRACING (SB)

Add-on hardware includes cable gripper with hook, 2-cable clamp and specified length of aircraft cable per suspension point.



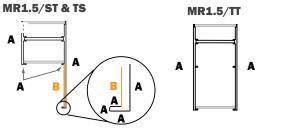
FINISHES -

Standard finishes are available at no additional charge and no extended lead time for standard configurations. Two-tone paint options available for select models with extra charge.

STANDARD FINISHES





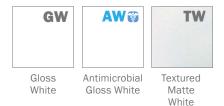




Satin Black

PREMIUM FINISHES

BASIC POWDER COAT



Textured

Black

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.alw-inc.com/resources/finishes

*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



CUSTOM COLOR MATCH: CCM____

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



PERFORMANCE DETAILS - MR1.5¹¹ -

RING DIAMETER	OUTPUT TYPE	LUME	NS (LM)	WATT	'S (W)	DRO	NER PS ¹² I Driver) ¹⁴	вох	DRIVER ES ¹³ Driver) ¹⁴	SUSPENSION POINTS	FIXTURE SECTIONS	APPROX. WEIGHT (LBS)
DIAMETER		Direct	Indirect	Direct OR Indirect	Direct AND Indirect	Direct OR Indirect	Direct AND Indirect	Direct OR Indirect	Direct AND Indirect			
	MIN	1500	1650	22	44	1	1	1	1			
	LOW	2250	2500	35	70	1	1	1	1			
D2	MED	3000	3350	47	94	1	1	1	1		1. Die d	
(MR1.5)	н	4500	N/A	70	N/A	1	N/A	1	N/A	3	1x Ring	12.5
	RGB RGBW	1750 3200	1950 3600	47 59	94 118	1	2	1	2			
	TUNABLE	4450	4950	64	128	1	1	1	2			
	MIN	2250	2525	34	68	1	1	1	1			
	LOW	3375	3750	54	108	1	1	1	1		1y Ping	
D3	MED	4500	5050	72	144	1	1	1	1	- 3		
(MR1.5)	ні	6750	N/A	108	N/A	1	N/A	1	N/A	- 3	1x Ring	18.75
	RGB RGBW	2600 4800	2950 5350	74 92	148 184	1	2	1	2			
	TUNABLE	6700	7450	98	196	1	2	2	4			
	MIN	3000	3350	46	92	1	1	1	1			
	LOW	4500	5050	73	146	1	1	1	1			
D4	MED	6000	6750	97	194	1	2	1	2			05
(MR1.5)	ні	9000	N/A	145	N/A	1	2	1	2	3	1x Ring	25
	RGB RGBW	3500 6400	3900 7150	101 126	202 252	1 2	2 2	1 2	2 4			
	TUNABLE	8900	9900	132	266	1	2	2	4			
	MIN	3750	4200	58	116	1	1	1	1			
	LOW	5600	6300	92	184	1	1	1	1	1		
D5	MED	7500	8400	122	244	1	2	1	2		4. D	24 75
(MR1.5)	ні	11250	N/A	183	N/A	1	N/A	1	N/A	3	1x Ring	31.75
	RGB RGBW	4350 8000	4850 8900	123 157	246 314	2	2	2	4			
	TUNABLE	11150	12400	168	336	1	2	2	4	1		

¹¹Performance calculations are based on LM-79 test of MAX output at 80 CRI and 4000K. MIN, LOW, MED and HIGH calculations are extrapolated values.
 ¹²Power Drop refers to the total quantity of canopies dropping low voltage power to the fixture. Each canopy may have one or multiple wire feeds supplying power to the fixture.

¹³One or more drivers may be enclosed in each Remote Driver Box. See your final drawing/submittal for details.

¹⁴Applies to V05 drivers (or DMX for RGB/RGBW). For additional info on other driver models see your final drawing/submittal.



PERFORMANCE DETAILS - MR1.5 (CONT'D)¹¹ -

RING DIAMETER	OUTPUT TYPE	LUMENS (LM)		WATTS (W)		POWER DROPS ¹² (Standard Driver) ¹⁴		REMOTE DRIVER BOXES ¹³ (Standard Driver) ¹⁴		SUSPENSION POINTS	FIXTURE SECTIONS	APPROX. WEIGHT (LBS)
		Direct	Indirect	Direct OR Indirect	Direct AND Indirect	Direct OR Indirect	Direct AND Indirect	Direct OR Indirect	Direct AND Indirect			
	MIN	4500	5050	70	140	1	1	1	2			
	LOW	6750	7575	110	220	1	2	1	2	-		
D6	MED	9000	10100	147	294	1	2	1	2		1. Die d	27.5
(MR1.5)	н	13500	N/A	220	N/A	2	N/A	2	N/A	3	1x Ring	37.5
	RGB RGBW	5250 9600	5850 10700	150 191	300 382	2	2	2	4	1		
	TUNABLE	13350	14850	202	404	2	2	3	6			

PERFORMANCE DETAILS - MR3 (CONT'D)¹¹ -

RING DIAMETER	OUTPUT TYPE	LUMENS (LM)		WATTS (W)		POWER DROPS ¹² (Standard Driver) ¹⁴		REMOTE DRIVER BOXES ¹³ (Standard Driver) ¹⁴		SUSPENSION POINTS	FIXTURE SECTIONS	APPROX. WEIGHT (LBS)
		Direct	Indirect	Direct OR Indirect	Direct AND Indirect	Direct OR Indirect	Direct AND Indirect	Direct OR Indirect	Direct AND Indirect			
	MIN	2350	2650	22	44	1	1	1	1			
	LOW	3550	3975	35	70	1	1	1	1	-	1x Ring	
D2	MED	4725	5300	47	94	1	1	1	1	3		13.75
(MR3)	HI	7100	N/A	70	N/A	1	N/A	1	N/A			
	RGB RGBW	1850 3400	2075 3825	47 59	94 118	1	2	1	2			
	TUNABLE	4725	5300	64	128	1	1	1	2	-		
	MIN	3550	3975	34	68	1	1	1	1			
	LOW	5300	5950	54	108	1	1	1	1	-		
D3	MED	7100	7950	72	144	1	1	1	1	3		00.75
(MR3)	HI	10625	N/A	108	N/A	1	N/A	1	N/A		1x Ring	20.75
	RGB RGBW	2775 5100	3125 5725	74 92	148 184	1	2	1	2			
	TUNABLE	7075	7975	98	196	1	2	2	4			

¹¹Performance calculations are based on LM-79 test of MAX output at 80 CRI and 4000K. MIN, LOW, MED and HIGH calculations are extrapolated values. ¹²Power Drop refers to the total quantity of canopies dropping low voltage power to the fixture. Each canopy may have one or multiple wire feeds supplying

power to the fixture.

¹³One or more drivers may be enclosed in each Remote Driver Box. See your final drawing/submittal for details.

¹⁴Applies to V05 drivers (or DMX for RGB/RGBW). For additional info on other driver models see your final drawing/submittal.



PERFORMANCE DETAILS - MR1.5 (CONT'D)¹¹ -

RING DIAMETER	OUTPUT TYPE	LUMEN	NS (LM)	WATT	'S (W)	DRO	NER PPS ¹² d Driver) ¹⁴	BOX	DRIVER ES ¹³ I Driver) ¹⁴	SUSPENSION POINTS	FIXTURE SECTIONS	APPROX. WEIGHT (LBS)
		Direct	Indirect	Direct OR Indirect	Direct AND Indirect	Direct OR Indirect	Direct AND Indirect	Direct OR Indirect	Direct AND Indirect			
	MIN	4725	5300	46	92	1	1	1	1			
	LOW	7100	7950	73	146	1	1	1	1			
D4	MED	9450	10625	97	194	1	2	1	2		1x Ring	
(MR3)	ні	14200	N/A	145	N/A	1	N/A	1	N/A	3		27.5
	RGB RGBW	3700 6775	4150 7625	101 126	202 252	1 2	2 2	1 2	2 4	-		
	TUNABLE	9450	10625	133	266	1	2	2	4			
	MIN	5900	6625	58	116	1	1	1	1			35
	LOW	8900	9950	92	184	1	1	1	1		1x Ring	
D5	MED	11800	13275	122	244	1	2	1	2	_		
(MR3)	н	17700	N/A	183	N/A	1	N/A	1	N/A	3		
	RGB RGBW	4625 8475	5200 9525	123 157	246 314	2	2	2	4	-		
	TUNABLE	11800	13275	168	336	1	2	2	4	-		
	MIN	7100	7950	70	140	1	1	1	2			
	LOW	10625	11925	110	220	1	2	1	2	-		
D6	MED	14200	15925	147	294	1	2	1	2			
(MR3)	ні	21300	N/A	220	N/A	2	N/A	2	N/A	3	1x Ring	41.25
	RGB RGBW	5550 10175	6225 11450	150 191	300 382	2	2	2	4			
	TUNABLE	14175	15925	202	404	2	2	3	6			

¹¹Performance calculations are based on LM-79 test of MAX output at 80 CRI and 4000K. MIN, LOW, MED and HIGH calculations are extrapolated values.
¹²Power Drop refers to the total quantity of canopies dropping low voltage power to the fixture. Each canopy may have one or multiple wire feeds supplying power to the fixture.

¹³One or more drivers may be enclosed in each Remote Driver Box. See your final drawing/submittal for details.

¹⁴Applies to V05 drivers (or DMX for RGB/RGBW). For additional info on other driver models see your final drawing/submittal.



DIRECT/INDIRECT LED LAMPING CHART

Due to high thermal conditions, Direct & Indirect Lamping combinations are limited to the options below. Additional lamping combinations may be limited to the driver specified.

					INDIRECT	LAMPING			
		NONE	MIN	LOW	MED	HI	RGB	RGBW	TUNE
	MIN	\checkmark							
5	LOW	\checkmark							
AMPING	MED	\checkmark	\checkmark	\checkmark	\checkmark				
	н	\checkmark	\checkmark	\checkmark					
DIRECT	RGB	\checkmark	\checkmark	\checkmark			\checkmark	\checkmark	\checkmark
ā	RGBW	\checkmark	\checkmark	\checkmark			\checkmark	\checkmark	\checkmark
	TUNE	\checkmark	\checkmark	\checkmark			\checkmark	\checkmark	\checkmark

VOLTAGE DROP DETAILS –

VOLTAGE DROP CALCULATION DIRECTIONS

Your MOONRING may be powered with more than 1x Class 2 LED driver. Let's use the White LED, 33VDC chart below as an example.

1. Determine Load Size of Each Circuit

- a. Open the driver enclosure and you'll see a silver sticker that indicates the Power (Wattage).
- b. Let's say the load is 45W. Round up to the nearest load, which is 50W (we're using the White LED, 33VDC chart in this example).

2. Determine Distance from Driver to Load

Let's assume the distance is 60 ft. I f you need to determine your wire gauge and driver distance before you receive the product, use 95W as your worst case load rating. All drivers are Class 2 and each circuit will never exceed 95W.

3. Determine Wire Gauge

In this example, ALW recommends to install 16 AWG wire between the Driver and Canopy (where power drops to the ring).

MOONRING VOLTAGE DROP CHART FOR REMOTE DRIVERS - WHITE LED, 33VDC

For best performance, ensure proper wire gauge is installed between the remote LED driver and canopy that is dropping power to your fixture. This chart only applies to MOONRING White LEDs at 33VDC. Do not use this chart to calculate voltage drop for other fixtures.

WIRE GAUGE	20W 0.61A	30W 0.91A	40W 1.21A	50W 1.52A	60W 1.82A	70W 2.12A	80W 2.42A	90W 2.73A	100W 3.03A
18 AWG	119 ft.	77 ft.	55 ft.	43 ft.	34 ft.	28 ft.	23 ft.	20 ft.	17 ft.
16 AWG	195 ft.	127 ft.	93 ft.	73 ft.	59 ft.	50 ft.	42 ft.	37 ft.	32 ft.
14 AWG	315 ft.	207 ft.	153 ft.	121 ft.	99 ft.	84 ft.	72 ft.	63 ft.	56 ft.
12 AWG	506 ft.	334 ft.	249 ft.	197 ft.	163 ft.	138 ft.	120 ft.	106 ft.	94 ft.
10 AWG	809 ft.	537 ft.	400 ft.	319 ft.	264 ft.	225 ft.	196 ft.	173 ft.	155 ft.

MOONRING VOLTAGE DROP CHART FOR REMOTE DRIVERS - RGB LED, 24VDC

For best performance, ensure proper wire gauge is installed between the remote LED driver and canopy that is dropping power to your fixture. This chart only applies to MOONRING RGB fixtures at 24VDC. Do not use this chart to calculate voltage drop for other fixtures.

WIRE GAUGE	20W 0.83A	30W 1.25A	40W 1.67A	50W 2.08A	60W 2.50A	70W 2.92A	80W 3.33A	90W 3.75A	100W 4.20A
18 AWG	59 ft.	37 ft.	25 ft.	19 ft.	14 ft.	11 ft.	8 ft.	7 ft.	5 ft.
16 AWG	99 ft.	63 ft.	45 ft.	35 ft.	27 ft.	22 ft.	18 ft.	15 ft.	13 ft.
14 AWG	163 ft.	106 ft.	77 ft.	60 ft.	49 ft.	40 ft.	34 ft.	30 ft.	26 ft.
12 AWG	264 ft.	173 ft.	128 ft.	100 ft.	82 ft.	69 ft.	60 ft.	52 ft.	46 ft.
10 AWG	424 ft.	280 ft.	208 ft.	164 ft.	136 ft.	115 ft.	100 ft.	88 ft.	78 ft.



PRODUCT CODE	DESCRIPTION
N	None. Choose when indirect lamping is not desired.
V00	0-10V dimming down to 0% (dim to off).
V01	0-10V dimming down to 1%.
V05	0-10V dimming down to 5% (Down to 10% for TUNE lamping).
LDE1	(LDE1) Lutron Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology.
DALI	DALI flicker-free dimming down to 0%.
DMX	DMX flicker-free dimming down to 0%.
POEM	Molex CoreSync PoE LED Driver. Contact ALW to assist with your project.
POEI	IGOR PoE LED Driver. Contact ALW to assist with your project.
POEN	NuLEDS PoE LED Driver. Contact ALW to assist with your project.
POE	Specify a PoE driver of your choice. Fixture comes with low voltage leads and no LED driver. Contact ALW to assist with your project

*Most drivers can be programmed to specific dimming levels if desired. 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	TUNE	RGB	RGB(W)	CA TITLE 24 JA8/JA10 ¹⁵	IEEE P1789 & HD TV STUDIO* ¹⁶		
V00	•	•			•			
V01	•	•			•			
V05	•	•			•			
LDE1	•				•	•		
DALI	•	•			•			
DMX	•	•		•	PER REQUEST	PER REQUEST		
POEM	PER REQUEST				•	•		
POEI	PER REQUEST				•	•		
POEN	PER REQUEST				•	•		

Indicates compatibility

- *Standard lamping (STD) MIN/LOW/MED/HI
- ¹⁵Fixtures 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
- ¹⁶The 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.



PRODUCT DESCRIPTION Location CODE Ν None. Choose when sensors are not desired. COOPER Fixture is built with 0/10V wiring to connect to Wavelinx Wireless sensors and power/relay packs WLNX Remote WAVELINX (sensors and equipment not provided by ALW) **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** Molex PoE sensors for use with Molex/PoE drivers. Customer will need to determine who to purchase PoE equipment from MLX Remote CORESYNC **NLIGHT**® Fixture is built with wiring connections to connect to nLight® Wired remote sensors and power/relay packs purchased through NLT Remote WIRED distributor by agency NLIGHT Fixture is built with wiring connections to connect to nLight® Air remote sensors and power/relay packs purchased through NLTAIR Remote WIRELESS distributor by agency Hubbell WASP High Voltage 0-10V remote surface mount occ/daylight sensor. 120/277/347VAC input (Hubbell Part: WSPDSMUNV) VALUE OS/PH/HV Automated Dimming Functionality: Connect fixture 0/10V wires to sensor in the field. Adjust occ/photocell settings as desired. Remote SENSORS 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.

*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*	TUNE	RGB	RGB(W)		
COOPER WAVELINX	WLNX		15 ft	•	•					
ENLIGHTED	ENLGHT	OCCUPANCY/PHOTOCELL	40 ft	•	•	CUSTOM REQUEST				
LUTRON VIVE	FCJS	WIRELESS CONTROL	12 ft	•	•					
	FCJS/S	OCCUPANCY/PHOTOCELL	12 ft	•	•					
MOLEX POE CORESYNC	MLX		16 ft	•	•		CUSTOM REQUEST	CUSTOM REQUEST		
NLIGHT WIRED	NLT		15 ft	•	•					
NLIGHT AIR WIRELESS	NLTAIR		15 ft (average)	•	•					
VALUE SENSORS	OS/PH/HV	OCCUPANCY/PHOTOCELL	45 ft	•	•					

Indicates compatibility
 On/off sensor functionality only

*Standard lamping (STD) - MIN/LOW/MED/HI



	DRIVER/SENSOR COMPATIBILITY										
	WLNX	ENLGHT	FCJS	FCJS/S /	MLX	NLT	NLTAIR	OS/PH/HV	NO SENSOR		
V00	•	•	•	•					•		
V01	•	•	•	•					•		
V05	•	•	•	•					•		
LDE1			•	•					•		
DALI									•		
DMX									•		
POEM					•				•		
POEI	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.										
POE	Sensor types will depend on the PoE system configuration. Contact ALW for details.										

Indicates compatibility
 Driver/sensor can have dimming OR on/off functionality but not both
 On/off sensor functionality only

*Driver specifications provided upon request **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.



ADDITIONAL OPTIONS & SPECIFICATIONS

LED PERFORMANCE

> 54,000 hours at 70% lumen maintenance, LM80 / TM-21

HOUSING

100% recyclable, extruded architectural grade 6061 aluminum with a 0.075" minimum wall thickness.

OPTICS

Direct: Extra diffused opal acrylic lens (LENS). **Indirect:** Extra diffused opal acrylic lens (LENS) OR clear high transmission lens (HT). HT lens increases lumen output by ~15%, but LED chips are visible. Recommended only when top-side of fixture is not directly visible

SAFETY & REGULATORY

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. EldoLED drivers can conform to IEEE P1789 Flicker Standard: 'IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers .

Contact ALW customer support today and we can help you with your project requirements.

ETL Listed (U.S. & Canada). Suitable for dry locations only. Conforms to UL std. 2108, Low Voltage Luminaires / Low Voltage Lighting Systems. Certified to CSA std. C22.2#250.0:2008 Ed. 3+G1;G2.

WARRANTY

Limited 11 year warranty. Details: alw-inc.com.

OPERATING TEMPERATURE

LLuminaire should be installed and operated ONLY in dry environments where the ambient temperature ranges from -4°F to 122°F (-20°C to 50°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.y.

POWER CABLES

Power cables come standard in a transparent sheathing to match steel aircraft suspension cables. Please contact customer support if custom cables are required for your application. Power cables cannot be swapped in the field as it will void the ETL Safety Listing and Product Warranty.



WEIGHT

Approximately 12.5lbs. - 110lbs. per ring. Weight may vary depending on additional options selected.

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.