CRESCENT MOONRING

STANDALONE & CONTINUOUS/ROTATABLE SHAPES

MR1.5/MR3-Q | SUSPENDED, CEILING



SPECIFICATIONS

ALW

PROFILE	Crescents (quarter rings), 1.5" - 3" aperture $-$ 1.5in. to 3in. wall height	
SIZES	2ft 16ft. diameter (custom diameters available)	
LED OUTPUT	750lm - 14,175 lm (277lm/ft - 1267 lm/ft)	
CCT/CRI	2700K/3000K/3500K/4000K • 80 or 90+ CRI Tunable White (2700K – 6500K) • RGB and RGB+W	s
DIMMING/ DRIVER	Remote Driver: 0-10V, DALI, DMX, eldoLED, Lutron®, PoE (Molex, Igor, NuLEDS). Dimming to 0% for select models.	
POWER	11W - 258W per ring	
INPUT	120VAC, 277VAC, or 347VAC	
OPTICS	Diffused acrylic lens — direct/indirect Optional clear (high transmission) lens — indirect	
FINISHES	17 standard finishes at no extra charge Custom finishes available Two-tone paint (select models available with extra charge)	
MATERIAL	6061 Extruded & Welded Aluminum	
ENVIRONMENT	Indoor, dry location only	Not

*Safety and Performance information available on last page. Weights and other specifications available on pages 4-10.

DISTRIBUTIONS & PROFILES



STANDARD

CEILING MOUNT

MR1.5/ST

1.75"

3.5"

1.5"







MR3





MR1.5/TS 1.5" 1.75" 3.5"



ot to scale. Dimensions are nominal. Consult factory for CAD drawing





HOW TO SUBMIT YOUR CRESCENT MOONRING CONFIGURATION (SKIP IF SPECIFYING STANDALONE CRESCENTS)

1. SKETCH YOUR DESIGN ON PAGE 3.

Alternatively, you can create your design using the CAD-ready STEP files provided on the CRESCENT MOONRING product page. Save your CAD assembly as a .STEP AP214 file and submit to ALW at quotes@alwusa.com.



2. TALLY UP EACH DESIRED CRESCENT SIZE & COMPLETE THE **PRODUCT SUBMITTAL WORKSHEET** (PGS. 6-7).

Count all of the Crescents sketched in step one, and indicate the quantity of each Crescent size in step 2 of the product submittal worksheet (pg. 4).



3. SUBMIT FORMS BELOW TO ALW FOR REVIEW.

- 1. CONFIGURATION GRAPH (PG. 3) or STEP AP214 FILE
- 2. PRODUCT SUBMITTAL WORKSHEET (PGS. 4-7)



HOW TO SUBMIT YOUR CRESCENT MOONRING ROTATABLE CONFIGURATION (CONT.) -

DESIRED CONFIGURATION (LOOKING FROM CEILING DOWNWARDS)

PRODUCT SPECIFICATION SHEET -----

ALW

1 2a 2b 2c 3	4a 4b 4c 5 6	7a 7b 7c 8 9	10a 10b 11 12a
- EXAMPLE: MR1.5/ 12b 12c 1	IS - Q24/RQ24/20/CQ24/15 - SS - MED/90/ 2 3 4	/3500 - V00 - LENS - LOW/90/3500K - V00 5 6 7 8	-HT-BA/SW-UNV-EMB/1-NLT-SB 9 10 11 12a 12b 12c
1. BASE MODEL (CHOOSE 1)	2. NOMINAL SIZE		
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	Q24 24" Radius (1/4 of D4 ring) Q36 30" Radius (1/4 of D5 ring) Q36 36" Radius (1/4 of D5 ring) Q42 42" Radius (1/4 of D7 ring) Q48 48" Radius (1/4 of D7 ring) Q40 60" Radius (1/4 of D10 ring) Q72 72" Radius (1/4 of D12 ring) Q84 84" Radius (1/4 of D14 ring) Q96 96" Radius (1/4 of D16 ring) "Single sections" "	RQ24/24" Radius (indicate quantity) RQ36/30" Radius (indicate quantity) RQ36/36" Radius (indicate quantity) RQ42/42" Radius (indicate quantity) RQ48/48" Radius (indicate quantity) RQ60/60" Radius (indicate quantity) RQ84/72" Radius (indicate quantity) RQ84/72" Radius (indicate quantity) S/10" Linear section (indicate total feet) 'Indicate quy of sections / length of linear 'Rotatable configurations. max 20" tilt from horizontal. 'Direct lamping only 'Can select multiple sizes for Crescent Configurations	C. COMMUNICATION CONTRACTOR CONTR
3. MOUNTING (CHOOSE 1)	4. LED LAMPING - DIRECT (CHOOSE 1 FOR EACH)	5. REMOTE DRIVER - DIRECT ^{6, 7} (CHOOSE 1)	6. LENS - DIRECT
SS Standard Suspension CM ¹ Ceiling Mounted ³ Not available with indirect lamping SS CM CM CM	A. OUTPUT (MR1.5/MR3) B. CRI ⁵ C. CCT ⁵ MIN (239/376 lm/ft) NO CRI/CCT* LOW (358/564 lm/ft) 80 2700K MED (477/752 lm/ft) 90 3000K HI ² (716/1128 lm/ft) 3500K TUNE ³ (27K-65K, 707/752 lm/ft) 4000K RGB ³ (277/294 lm/ft) RGB ⁴ (3500K, White, 739/786 lm/ft) CSTM/ (Enter lumens in product code above. Ex. 0100=100lm/ft) *Choose when TUNE, RGB, or RGBW is desired output * *LNE and RGB ⁴ only available in 80CRI * *CRI/CCT options not applicable for TUNE, RGB, or RGBW lamping. *	V00 (0-10V, dim to 0%) POEM (POE Molex) V01 (0-10V, dim to 1%) POEI (POE IGOR) V05 (0-10V, dim to 5%) POEN (POE Nuleds) P01 (Phase, dim to 1%) POE® (POE Ready) LDE1 (Lutron ECOSYS1, 0-10V, dim to 1%) ELDV0 (eldoLED, 0-10V, dim to 0%) DALI (DALI, dim to 0%) DMX (DMX, dim to 0%) DMX (DMX, dim to 0%) Fortiver specifications provided upon request. See page 11 for driver details * Choose desired PoE Solution not listed. Contact customer service to review and confirm the PoE system of your choice	LENS Extra diffuse lens
T. LED LAMPING - INDIRECT (CHOOSE 1 FOR EA) N (None) A. OUTPUT (MR1.5/MR3) B. CRI® C. CCT® MIN (268/422 lm/ft) NO CRI/CCT LOW (402/633 lm/ft) 80 2700k MED (536/845 lm/ft) 90 3000k HI (N/A) 3500k TUNE® (27k-65k, 787/845 lm/ft) 4000k RGB® (308/331 lm/ft) RGBW ³ (3500K, White, 822/883 lm/ft) CSTM/4 [Enter lumens in product code above. Ex. 0100=100lm/ft) *Choose when TUNE, RGB, or RGBW is desired autput *Refer to additional footnoises below for more information *UNE and RGBW only available in 80CRI Consult AUM for custom lumen packages. *GH/CCT options not applicable for TUNE, RGB, or RGBW lamping.	8. REMOTE DRIVER - INDIRECT ^{6,7} (CHOOSE 1) V00 (0-10V, dim to 0%) POEM (POE Molex) V01 (0-10V, dim to 1%) POEI (POE IGOR) V05 (0-10V, dim to 5%) POEN (POE Nuleds) P01 (Phase, dim to 1%) POE [®] (POE Ready) LDE1 (Lutron ECOSYS1, 0-10V, dim to 1%) ELDV0 (eidoLED, 0-10V, dim to 1%) BLI (DALL, dim to 0%) DMX (DMX, dim to 0%) *Driver specifications provided upon request. See page 11 for driver details *Choose desire POE Solution not listed. Contact customer service to review and confirm the PoE system of your choice	9. LENS - INDIRECT (CHOOSE 1) N° None LENS Extra diffuse lens HT ¹⁰ High transmission, near-clear lens °Choose when specifying rotatable connectors or when indirect lamping is not desired. The lens will be subsituted with an aluminum cover to match the exterior finish. High transmission lens increases lumen output by ~14%, but LED chip is visible. Recommended only when top-side of fixture is not directly visible.	 10. FINISH* (CHOOSE 1 FOR EACH WALL) A B STANDARD FINISHES SW Satin White SB Satin Black AS Aluminum Silver Anodized Effect TB Textured Black BA Brushed Aluminum PREMIUM FINISHES Premium finishes. Manually type in the finish code (Ex: OB - OI-Rubbed Bronze) 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 11. Leave "B" unselected for ME1.5 SS, TT, and MR3. Manually type in the finish code for special order finishes.
		co	NTINUES ON NEXT PAGE

CRESCENT MR – SPECIFICATIONS SUSPENDED, CEILING

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PRODUCT SPECIFICATION SHEET —

					*
11. VOLTA	GE (CHOOSE 1)	12a. EMERGE	ENCY 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)	EMB/ ¹¹ EMC/ ¹¹	Emergency Battery (indicate quantity – each battery powers 2 linear feet. Not available in 347V) Emergency Circuit (indicate quantit	N (None) WLNX/ (Cooper Wavelinx) ENLGHT/ (Enlighted) FCJS/ (Lutron) Y FCJS/S/ (Lutron, occ/daylight sensor)	SB Seismic Bracing
		¹¹ For fixtures un illuminated wi ALW for more	of 4 infeat root section to be illuminated by emergency circuit) der 4ft in length, entire fixture will be th a proportional lumen output. Consult details.	MLX (Molex POE) NLT (nLight wired) NLTAIR (nLight AIR wireless) OS/PH/HV/ (Hubbel WASP remote occ/ daylight sensor)	
				[*] For Quickship availability on occupancy and photocell/ daylight sensors may vary. Contact ALW for more information. [*] Default quantity is 1 sensor per 8ft, type alternate quantity into product code above if desired. Sensor descriptions available on page 7. [*] Not all sensors are compatible with all drivers. See 'Driver',	

MECHANICAL DIAGRAMS



MOUNTING OPTIONS

STANDARD SUSPENSION (SS)

- 4.5" white canopy per power feed location

CENTRAL AXIS SUSPENSION (CAS)

-4.5" white central axis canopy per fixture that all

aircraft cables/power feeds route into, as shown.

- 8' aircraft cable. 18" minimum distance from

- Bullet mount
- 8' aircraft cable (longer suspension cables available upon request)

- 2" white canopy (for use with T-bar mounting) per suspension point





Plan View

Elevation View

CENTRAL COLLARED SUSPENSION (CCS)

- 5" white central axis canopy
- 8' aircraft cable. 18" minimum distance from ceiling to fixture.
- 15" collared ring (color matches specified body finish) that all aircraft cables and power feeds route through.





SEISMIC BRACING (SB)

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



CEILING MOUNT (CM)

ceiling to fixture.

Ceiling mount is for horizontal, ceiling mounting only. The fixture is not compatible with indirect lamping or vertical surface mounting (i.e. on a wall). Three ceiling-mount brackets per fixture. Surface Mount hardware adds 0.27" height to all options, as shown.





COMBO CANOPY

Suspended options come with standard 4.5" canopies at feed locations with power feed and aircraft cable suspension mounting. Canopy finish is always white. Contact ALW for alternate colors.



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CRESCENT MOONRING

Shown with Radius and Arc Chord Lengths



Note: Each crescent is one welded aluminum section. Crescents Q42 - Q96 have two lenses installed in each single crescent. Lenses are designed to eliminate all light leak/gaps for a high-quality aesthetic appearance.

ROTATING CONNECTORS (RQ)



⊙ Ø 2" 3/8"



MR3

MR1.5

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EXAMPLE CONFIGURATIONS (ILLUSTRATED WITH ROTATABLE CONNECTORS)



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SAMPLE CONFIGURATION DIAGRAMS (ILLUSTRATED WITH ROTATABLE CONNECTORS) -

STADIUM OVALS & ROUNDED RECTANGLES







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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.

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PERFORMANCE DETAILS - MR1.5¹¹ -

RING	OUTPUT TYPE	LUMEN	NS (LM)	WATT	'S (W)	POV DRO	NER PS ¹² 1 Driver) ¹⁴	REMOTE BOX (Standard	DRIVER (ES ¹³ (Driver) ¹⁴	SUSPENSION POINTS	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	750	850	11	22	1	1	1	1		
	LOW	1125	1250	17	34	1	1	1	1	-	
Q24	MED	1500	1700	23	46	1	1	1	1		
(MR1.5)	HI	2250	N/A	34	N/A	1	N/A	1	N/A	- 3	8.25
	RGB RGBW	875 1600	975 1800	26 31	52 62	1	2	1	2		
	TUNABLE	2225	2475	18	36	1	1	1	2		
	MIN	950	1050	14	28	1	1	1	1		
	LOW 1 MED 1	1400	1575	22	44	1	1	1	1	-	
Q30	MED	1875	5 2100 28 56 1 1 1 1 5 N/A 43 N/A 1 1 1 N/A	1		8					
(MR1.5)	ні	2825	N/A	43	N/A	1	1	1	N/A	3	8
	RGB RGBW	1100 1225	2000 2225	32 64	39 75	1	1	1	2		
	TUNABLE	2785	3100	22	44	1	1	1	2		
	MIN	1125	1275	17	34	1	1	1	1		
	LOW	1700	1900	26	52	1	1	1	1		
Q36	MED	2250	2525	35	70	1	1	1	1	2	0.5
(MR1.5)	HI	3375	N/A	52	N/A	1	N/A	1	N/A	3	9.5
	RGB RGBW	1325 1475	2400 2675	40 80	48 96	1	1	1	2		
	TUNABLE	3325	3700	27	54	1	1	1	2		
	MIN	1325	1475	20	40	1	1	1	1		
	LOW	1975	2225	30	60	1	1	1	1		
Q42	MED	2625	2950	40	80	1	1	1	1	- 3	10.5
(MR1.5)	HI	3950	N/A	61	N/A	1	N/A	1	N/A		10.5
	RGB RGBW	1525 1700	2800 3100	46 92	55 110	1	1	1	2		
	TUNABLE	3800	4325	31	62	1	1	1	2		

¹¹Performance calculations are based on LM-79 test of MAX output at 80 CRI and 4000K with a standard extra diffuse lens (LENS). HT Lenses provide approx. 14% more light output from these advertised values. 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 (DMX for RGB/RGBW). For additional info on other driver models see your final drawing/submittal.

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

RING	OUTPUT TYPE	LUMEN	IS (LM)	WATT	'S (W)	POV DRO	VER PS ¹² I Driver) ¹⁴	REMOTE BOX (Standard	DRIVER (ES ¹³ I Driver) ¹⁴	SUSPENSION POINTS	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	1675	23	46	1	1	1	1		
	LOW	2250	2525	35	70	1	1	1	1	-	
048	MED	3000	3375	46	92	1	1	1	1	_	
(MR1.5)	ні	4500	N/A	70	N/A	1	N/A	1	N/A	3	12.5
	RGB RGBW	1750 1925	3200 3550	54 108	63 126	1	1	1	2	-	
	TUNABLE	4450	4950	36	72	1	1	1	2	-	
	MIN	1875	2100	29	58	1	1	1	1		
	LOW	2825	3150	44 88 1 1 1 1	-						
060	MED	3750	4225	58	116	1	1	1 1 1 3	-		
(MR1.5)	ні	5625	N/A	87	N/A	1	N/A	1	N/A	3	16
	RGB RGBW	2175 2425	4000 4450	66 132	80 160	1	1	1	2		
	TUNABLE	5550	6175	45	90	1	1	1	2		
	MIN	2250	2525	35	70	1	1	1	1		
	LOW	3375	3800	52	104	1	1	1	1	-	
Q72	MED	4500	5050	70	140	1	1	1	2		
(MR1.5)	HI	6750	N/A	105	N/A	1	N/A	1	N/A	3	19
	RGB RGBW	2625 2900	4800 5325	80 160	97 194	1	1	1	2	-	
	TUNABLE	6675	7425	54	108	1	1	1	2	-	
	MIN	2625	2950	41	82	1	1	1	1		
	LOW	3950	4425	61	122	1	1	1	1	-	
Q84	MED	5250	5900	82	164	1	1	1	2		22
(MR1.5)	HI	7875	N/A	122	N/A	1	N/A	1	N/A		22
	RGB RGBW	3050 3375	5575 6225	94 188	112 224	1	1	1/2	N/A	1	
	TUNABLE	7775	8650	63	126	1	1	1	2		

¹¹Performance calculations are based on LM-79 test of MAX output at 80 CRI and 4000K with a standard extra diffuse lens (LENS). HT Lenses provide approx. 14% more light output from these advertised values. 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 (DMX for RGB/RGBW). For additional info on other driver models see your final drawing/submittal.

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

RING	OUTPUT TYPE	LUMEN	IS (LM)	WATTS (W)		POV DRO (Standard	VER PS ¹² Driver) ¹⁴	REMOTE BOX (Standard	DRIVER ES ¹³ Driver) ¹⁴	SUSPENSION POINTS	APPROX. WEIGHT (LBS)
		Direct	Indirect	Direct OR Indirect	Direct AND Indirect	Direct OR Indirect	Direct AND Indirect	Direct OR Indirect	Direct AND Indirect		
	MIN	3000	3375	47	94	1	1	1	1		
	LOW	4500 5050		70	140	1	1	1	2		
Q96	MED	6000	6750	94	188	1	1	1	2	2	25
(MR1.5)	HI	9000	N/A	140	N/A	1	N/A	1	N/A	5	25
	RGB RGBW	3475 3875	6400 7100	108 216	129 158	1	N/A	1	N/A		
	TUNABLE	3875 7100 8900 9875		73	146	5 1 1		1	2		

¹¹Performance calculations are based on LM-79 test of MAX output at 80 CRI and 4000K with a standard extra diffuse lens (LENS). HT Lenses provide approx. 14% more light output from these advertised values. 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 (DMX for RGB/RGBW). For additional info on other driver models see your final drawing/submittal.



PERFORMANCE DETAILS - MR3¹¹ -

RING	OUTPUT TYPE	LUMEN	IS (LM)	WATT	'S (W)	POV DRO	NER PS ¹² I Driver) ¹⁴	REMOTE BOX (Standard	DRIVER (ES ¹³ (Driver) ¹⁴	SUSPENSION POINTS	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	1175	1325	11	22	1	1	1	1		
	LOW	1775	2000	17	34	1	1	1	1		
Q24	MED	2375	2650	23	46	1	1	1	1 N/A 3	7	
(MR3)	HI	3550	N/A	34	N/A	1	N/A	1	N/A	- 3	(
	RGB RGBW	925 1050	1700 1900	26 52	31 62	1	1	1	2	-	
	TUNABLE	2350	3650	18	36	1	1	1	2		
	MIN	1475	1650	14	28	1	1	1	1		
	LOW	2225	2500	22	44	1	1	1	1		
Q30	MED	2950	3325	28	56	1	1	1	1		
(MR3)	HI	4425	N/A	43	N/A	1	N/A	1	N/A	3	9
	RGB RGBW	1150 1300	2125 2375	32 64	39 78	1	1	1	2		
	TUNABLE	2950	3325	22	44	1	1	1	2		
	MIN	1775	2000	17	34	1	1	1	1		
	LOW	2650	2975	26	52	1	1	1	1		
Q36	MED	3550	3975	35	70	1	1	1	1		10 5
(MR3)	н	5325	N/A	52	N/A	1	N/A	1	N/A	3	10.5
	RGB RGBW	1375 1550	2550 2850	40 80	48 96	1	1	1	2	-	
	TUNABLE	3450	3975	27	54	1	1	1	2		
	MIN	2075	2325	20	40	1	1	1	1		
	LOW	3100	3475	30	60	1	1	1	1		
Q42	MED	4150	4650	40	80	1	1	1	1		11 75
(MR3)	HI	6200	N/A	61	N/A	1	N/A	1	N/A	3	11.75
	RGB RGBW	1625 1825	2975 3350	46 92	55 110	1	1	1	2		
	TUNABLE	4125	4650	31	62	1	1	1	2]	

¹¹Performance calculations are based on LM-79 test of MAX output at 80 CRI and 4000K with a standard extra diffuse lens (LENS). HT Lenses provide approx. 14% more light output from these advertised values. 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 (DMX for RGB/RGBW). For additional info on other driver models see your final drawing/submittal.

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PERFORMANCE & MOUNTING DETAILS - MR3 (CONT.)¹¹ -

RING	OUTPUT TYPE	LUMEN	IS (LM)	WATT	'S (W)	POV DRO	VER PS ¹² I Driver) ¹⁴	REMOTE BOX (Standard	DRIVER (ES ¹³ (Driver) ¹⁴	SUSPENSION POINTS	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	2375	2650	23	46	1	1	1	1		
	LOW	3550	3975	35	70	1	1	1	1		
Q48	MED	4725	5300	46	92	1	1	1	1		
(MR3)	HI	7100	N/A	70	N/A	1	N/A	1	N/A	3	14
	RGB RGBW	1850 2075	3400 3825	54 108	63 126	1	1	1	2	-	
	TUNABLE	4725	5300	36	72	1	1 1 1 2 1 1 1 1 1 1 1 1				
	MIN	2950	3325	29	58	1					
	LOW	4425	4975	44	88	1	1	1	1		47.75
Q60	MED	5900	6650	58	116	1	1	1	1	1 3 N/A 2 2	
(MR3)	HI	8875	N/A	87	N/A	1	N/A	1	N/A		17.75
	RGB RGBW	2300 2600	4250 4775	66 132	80 160	1	1	1	2		
	TUNABLE	5900	6650	45	90	1	1	1	2		
	MIN	3350	3975	35	70	1	1	1	1		
	LOW	5325	5975	52	104	1	1	1	1	-	
Q72	MED	7100	7975	70	140	1	1	1	2		01
(MR3)	н	10625	N/A	105	N/A	1	N/A	1	N/A	3	21
	RGB RGBW	2775 3125	5100 5725	80 160	97 194	1	1	1	2	-	
	TUNABLE	7075	7975	54	108	1	1	1	2	-	
	MIN	4150	4650	41	82	1	1	1	1		
	LOW	6200	6975	61	122	1	1	1	1	-	
Q84	MED	8275	9300	82	164	1	1	1	2	2	24 5
(MR3)	HI	12400	N/A	122	N/A	1	N/A	1	N/A	3	∠4.0
	RGB RGBW	3225 3625	5925 6675	94 188	112 224	1	1/N/A	1/2	2 / N/A		
	TUNABLE	8275	9300	63	126	1	1	1	2		

¹¹Performance calculations are based on LM-79 test of MAX output at 80 CRI and 4000K with a standard extra diffuse lens (LENS). HT Lenses provide approx. 14% more light output from these advertised values. 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 (DMX for RGB/RGBW). For additional info on other driver models see your final drawing/submittal.

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PERFORMANCE & MOUNTING DETAILS - MR3 (CONT.)¹¹ -

RING DIAMETER	OUTPUT TYPE	LUMEN	IS (LM)	WATTS (W)		POV DRO (Standard	VER PS ¹² Driver) ¹⁴	REMOTE BOX (Standard	DRIVER ES ¹³ Driver) ¹⁴	SUSPENSION POINTS	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	47	94	1	1	1	1		
	LOW	7100 7950		70 140		1	1	1	1		
Q96	MED	9450	10625	94	188	1	1	1	2	2	07.75
(MR3)	Η	14175	N/A	140	N/A	1	N/A	1	N/A	5	21.15
	RGB RGBW	3700 4150	6775 7625	108 216	129 258	1	N/A	2	N/A		
	TUNABLE	3100 0110 4150 7625 9450 10625		73	146	1	1	1	2		

¹¹Performance calculations are based on LM-79 test of MAX output at 80 CRI and 4000K with a standard extra diffuse lens (LENS). HT Lenses provide approx. 14% more light output from these advertised values. 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 (DMX for RGB/RGBW). For additional info on other driver models see your final drawing/submittal.

VOLTAGE DROP DETAILS

					INDIRECT	LAMPING			
		NONE	MIN	LOW	MED	н	RGB	RGBW	TUNE
	MIN	\checkmark							
5	LOW	\checkmark							
MPIN	MED	\checkmark	\checkmark	\checkmark	\checkmark				
TLA	HI	\checkmark	\checkmark	\checkmark					
REC	RGB	\checkmark	\checkmark	\checkmark			\checkmark	\checkmark	\checkmark
ā	RGBW	\checkmark	\checkmark	\checkmark			\checkmark	\checkmark	\checkmark
	TUNE	\checkmark	\checkmark	\checkmark			\checkmark	\checkmark	\checkmark

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.

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.

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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).					
P01	ELV/TRIAC Phase dimming down to 1%					
LDE1	(LDE1) Lutron Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology.					
ELDVO	eldoLED 0/10V dimming down to 0% (when choosing nLight Air integral sensors a compatible eldoLED LEDcode version will be specified)					
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	•	•			•				
P01	•				•				
LDE1	•				•	•			
ELDVO	•	PER REQUEST			•	•			
DALI	•	•			•				
DMX	•	•		•	PER REQUEST	PER REQUEST			
POEM		PER RE	•	•					
POEI		PER RE		•	•				
POEN		PER RE		•	•				

Indicates compatibility
 Standard lamping (STD) - 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

16 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.



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** MLX Molex PoE sensors for use with Molex/PoE drivers. Customer will need to determine who to purchase PoE equipment from 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										
PRODUC	CT 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				
	FCJS	WIRELESS CONTROL	12 ft	•	•					
LUIRON VIVE	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	•	•	•	•					•		
P01									•		
LDE1			•	•					•		
ELDVO						•	•	A	•		
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 config	guration. Contact	ALW for details.				

鱼 - 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 ~14%, 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 at alw-inc.com.

OPERATING TEMPERATURE

Luminaire 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.

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. - 27.5lbs. per fixture. 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, nLight, Cooper Wavelinx, eldoLED, Molex PoE, NuLEDS PoE, Igor PoE, 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.