



MOONRING ELLIPSES

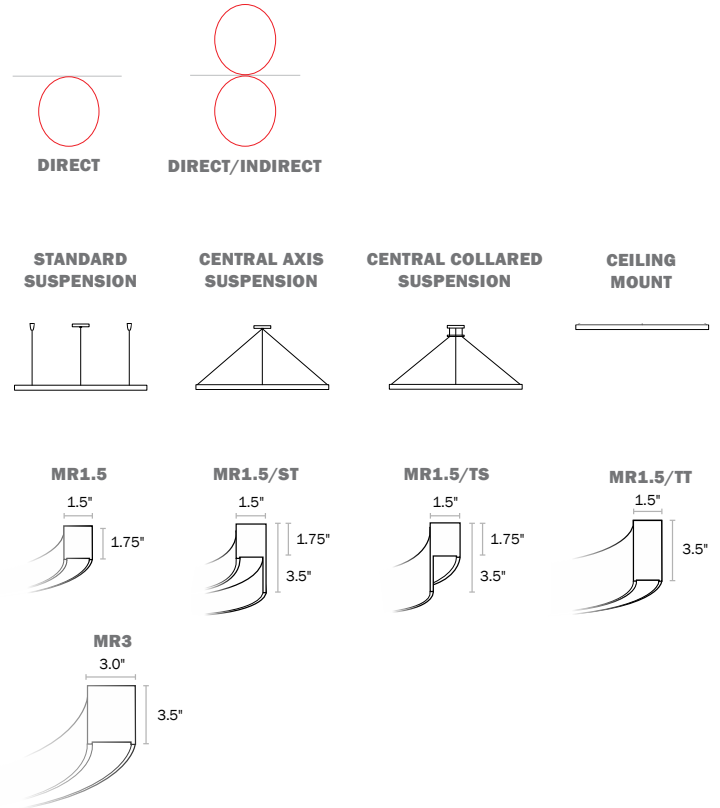
MR1.5/MR3-E | SUSPENDED, CEILING



SPECIFICATIONS

PROFILE	1.5" or 3" Aperture
SIZES	Ellipse sizes from 5' (60"x30") to 12' (144"x72")
LED OUTPUT	2,900lm - 24,600lm
CCT/CRI	2700K/3000K/3500K/4000K • 80 or 90+ CRI Tunable White (2700K – 6500K) • RGB and RGB+W
DIMMING/ DRIVER	Remote Driver: 0-10V, DALI, DMX, Lutron®, PoE (Molex, Igor, NuLEDs). Dimming to 0% for select models.
POWER	46W - 440W per ring
INPUT	120VAC, 277VAC, or 347VAC
OPTICS	Diffused opal acrylic lens – direct Diffused opal acrylic lens or clear high transmission lens – indirect
FINISHES	17 standard finishes at no extra charge Custom finishes available Two-tone paint (<i>select models available with extra charge</i>)
MATERIAL	6061 Extruded & Welded Aluminum
ENVIRONMENT	Dry location only

DISTRIBUTIONS & PROFILES



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



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

MR ELLIPSES – SPECIFICATIONS
SUSPENDED, CEILING

ALW-INC.COM



PRODUCT SPECIFICATION SHEET

1	2	3	4a	4b	4c	5	6	7a	7b	7c	8	9	10a	10b	11	12a	12b	12c
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EXAMPLE: MR1.5/TS — D3 — SS — MED/90/3500 — V00 — LENS — LOW/90/3500K — V00 — HT — SB/RAL1001 — UNV — EMB — NLT — SB
1 2 3 4 5 6 7 8 9 10A 10B 11 12A 12B 12C

1. BASE MODEL (CHOOSE 1)	2. NOMINAL SIZE (CHOOSE 1)	3. MOUNTING (CHOOSE 1)	4. LED LAMPING - DIRECT (CHOOSE 1 FOR EACH)
MR1.5 1.5", A: short, B: short MR1.5/ST 1.5", A: short, B: tall MR1.5/TS 1.5", A: tall, B: short MR1.5/TT 1.5", A: tall, B: tall MR3 3.0", equal	E5 5" ellipse (60in. x 30in.) E6 6" ellipse (72in. x 36in.) E7 7" ellipse (84in. x 42in.) E8 8" ellipse (96in. x 48in.) E12 12" ellipse (144in. x 72in.)	SS Standard Suspension CAS Central Axis Suspension CCS Collared Central Suspension CM Ceiling Mounted (Not available with indirect lamping) Unavailable for E7, E8, and E12 ellipse sizes.	A. OUTPUT ² MIN (2900/4550 lm) LOW (4325/6825 lm) MED (5775/9100 lm) HI (8650/13625 lm) TUNE (8550, 9075 lm) RGB (3350/3550 lm) RGBW (3725, 4000 lm) CSTM/_____ (Enter lumens in product code above. Ex. 0100=100lm) B. CRI ³ C. CCT ³ NO CRI/CCT 80 2700K 90 3000K 3500K 4000K ³ Choose when TUNE, RGB, or RGBW is desired output ² Direct/Indirect lamping combinations are limited when specifying HI OUTPUT due to increased thermal temperatures and/or driver type limitations. See the 'Direct/Indirect LED Lamping Chart' on page 9 and LED driver footnotes. ³ CRI/CCT options not applicable for TUNE, RGB, or RGBW lamping.

5. REMOTE DRIVER - DIRECT (CHOOSE 1)	6. LENS — DIRECT	7. LED LAMPING - INDIRECT (CHOOSE 1 FOR EACH)	8. REMOTE DRIVER - INDIRECT (CHOOSE 1)
V00 (0-10V, dim to 0%) V01 (0-10V, dim to 1%) V05 (0-10V, dim to 5%) P01 (Phase, dim to 1%) LDE1 (Lutron ECOSYS1, 0-10V, dim to 1%) DALI (DALI, dim to 0%) DMX (DMX, dim to 0%) POEM (POE Molex) POEI (POE IGOR) POEN (POE Nuleds) POE (POE Ready)	LENS Extra diffuse lens	N None A. OUTPUT ² MIN (3250/5125 lm) LOW (4875/7675 lm) MED (6500/10225 lm) HI (N/A) TUNE (9500/10225 lm) RGB (6150/6525 lm) RGBW (6825/7350 lm) CSTM/_____ (Enter lumens in product code above. Ex. 0100=100lm) B. CRI ³ C. CCT ³ NO CRI/CCT 80 2700K 90 3000K 4000K ² Choose when TUNE, RGB, or RGBW is desired output ² Direct/Indirect lamping combinations are limited when specifying HI OUTPUT due to increased thermal temperatures and/or driver type limitations. See the 'Direct/Indirect LED Lamping Chart' on page 9 and LED driver footnotes. ³ CRI/CCT options not applicable for TUNE, RGB, or RGBW lamping.	V00 (0-10V, dim to 0%) V01 (0-10V, dim to 1%) V05 (0-10V, dim to 5%) P01 (Phase, dim to 1%) LDE1 (Lutron ECOSYS1, 0-10V, dim to 1%) DALI (DALI, dim to 0%) DMX (DMX, dim to 0%) POEM (POE Molex) POEI (POE IGOR) POEN (POE Nuleds) POE (POE Ready)

⁴Driver specifications provided upon request
See page 11 for driver details
⁵Choose desired PoE solution not listed. Contact customer service to review and confirm the PoE system of your choice

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See page 11 for driver details
⁵Choose desired PoE solution not listed. Contact customer service to review and confirm the PoE system of your choice

9. LENS — INDIRECT (CHOOSE 1)	10. FINISH (CHOOSE 1 FOR EACH WALL)	11. VOLTAGE (CHOOSE 1)	12a. EMERGENCY OPTIONS (OPTIONAL, CHOOSE 1)
N None. LENS Extra diffuse lens HT High transmission, near-clear lens ⁶ Fixture will be supplied with an aluminum cover in place of a lens to match the exterior finish. ⁷ 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 <input type="checkbox"/> Satin White SB <input checked="" type="checkbox"/> Satin Black AS <input type="checkbox"/> Aluminum Silver Anodized Effect TB <input type="checkbox"/> Textured Black BA <input type="checkbox"/> Brushed Aluminum PREMIUM FINISHES — See chart on page 5 for premium finishes. Manually type in the finish code (Ex: OB = Oil-Rubbed Bronze) SPECIAL ORDER FINISHES RAL_____ Specify RAL Classic Color (Ex: RAL 3003) CCM_____ Custom Color Match ⁸ 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.	UNV Universal Voltage (120VAC-277VAC) 347 347 Volt (Driver options may be limited. Not available with EMB)	EMB Emergency Battery (Not available in 347 V) EMC Emergency Circuit ⁹ Consult ALW for more details.

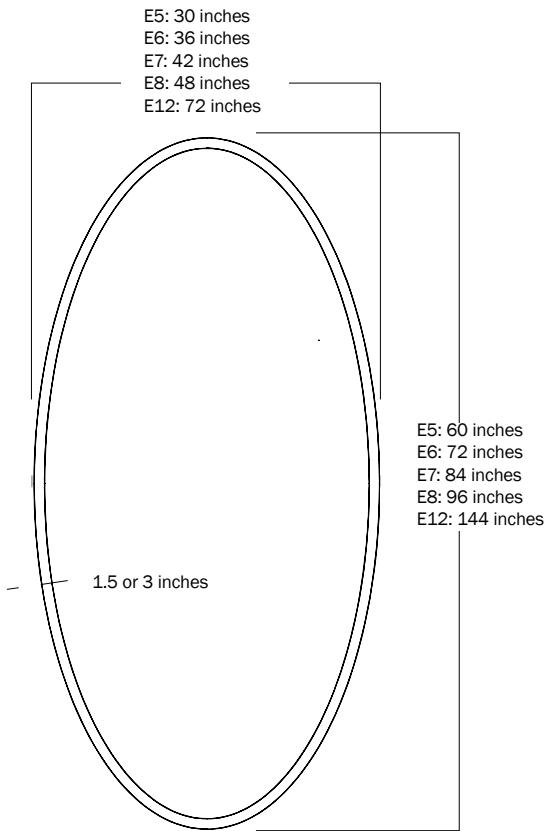
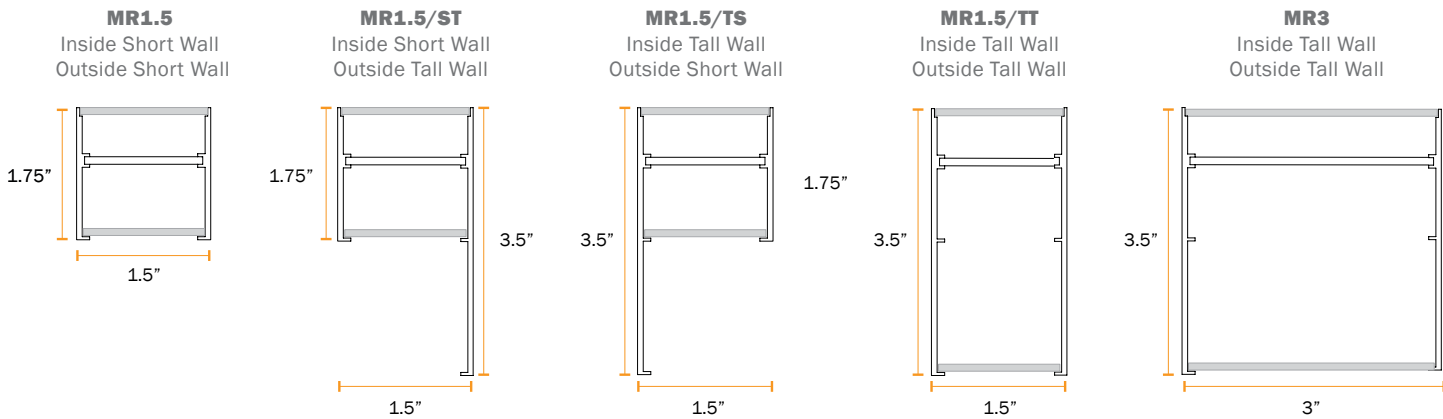
12b. SENSOR OPTIONS (OPTIONAL, CHOOSE 1)	12c. ADDITIONAL OPTIONS (OPTIONAL)
N (None) WLNX/___ (Cooper Wavelinx) ENLGH/___ (Enlighted) FCJS/___ (Lutron) FCJS/S/___ (Lutron, occ/daylight sensor)	MLX (Molex POE) NLT (nlight Wired) NLTAIR (nlight Air wireless) OS/PH/HV/___ (Hubbel WASP occ/daylight sensor) SB Seismic Bracing

⁶All sensors to be remotely located
⁷Sensor descriptions available on pages 12-13.
Default quantity is 1 sensor per 8ft, manually type in sensor quantity per ring (Ex: 1 = 1x remote sensor)

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MECHANICAL DIAGRAMS

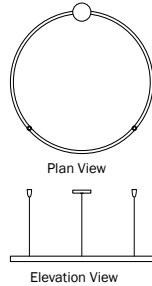




MOUNTING OPTIONS

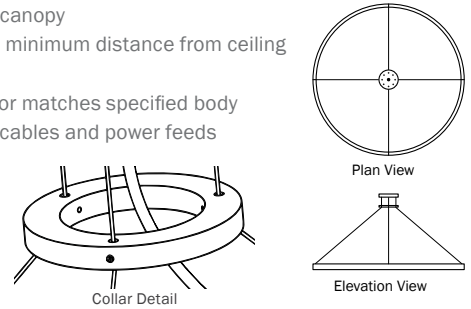
STANDARD SUSPENSION (SS)

- 4.5" white canopy per power feed location
- Bullet mount
- 8' aircraft cable (longer suspension cables available upon request)
- 2" white canopy (for use with T-bar mounting) per suspension point



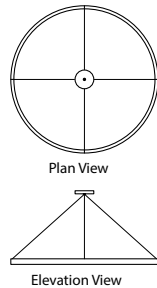
CENTRAL COLLARED SUSPENSION (CCS)

- 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.



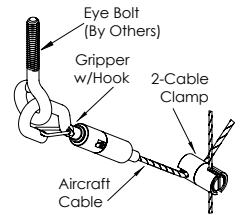
CENTRAL AXIS SUSPENSION (CAS)

- 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 ceiling to fixture.



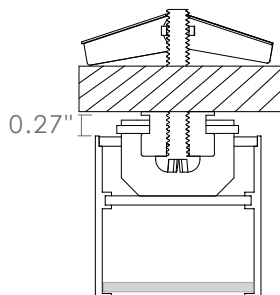
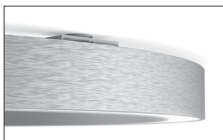
SEISMIC BRACING (SB)

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



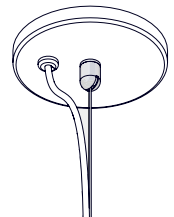
CEILING MOUNT (CM)

Ceiling mount is for horizontal, ceiling mounting only. The fixture is not compatible with indirect lighting 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.





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



Brushed
Aluminum



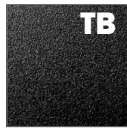
Aluminum Silver
Anodized Effect



Satin
White

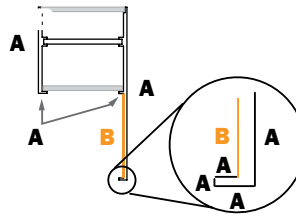


Satin
Black

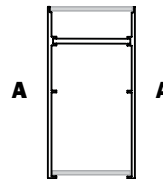


Textured
Black

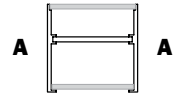
MR1.5/ST & TS



MR1.5/TT



MR1.5 & MR3



PREMIUM FINISHES

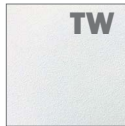
BASIC POWDER COAT



Gloss
White

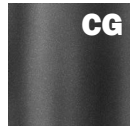


Antimicrobial
Gloss White



Textured
Matte
White

METALLIC POWDER COAT



Charcoal
Gray



Copper



Brass

SATIN ANODIZED EFFECT POWDER COAT



Oil-Rubbed
Bronze



Dark
Bronze

GLOSS POWDER COAT (80-95% GLOSS)



Orange
RAL 2003



Red
RAL 3020



Magenta
RAL 4010



Blue
RAL 5015

Contact ALW Quotes for sample paint finish swatches.

SPECIAL ORDER FINISHES*



RAL CLASSIC COLORS (80-95% GLOSS): RAL_ _ _ _

Most RAL Classic Colors are available for a minimum setup fee. On your specification submittal choose your RAL color by entering the 4-digit RAL code (Ex: RAL 3003). See www.alw-inc.com/resources/finishes



CUSTOM COLOR MATCH: CCM_ _ _ _

Custom powder coat color matching is available for a premium setup fee. Consult [ALW](http://www.alw-inc.com) for additional information.

*An individual setup fee will apply to each unique Special Order Finish per purchase order.
(ex: RAL 5023 and RAL 2008 are specified for multiple line items on a purchase order. 2x setup fees will apply)

*Printed or on-screen colors are only approximations - consult actual Color Chip Set before specifying

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PERFORMANCE DETAILS - MR1.5⁹

RING DIAMETER	OUTPUT TYPE	LUMENS (LM)		WATTS (W)		POWER DROPS ¹⁰ (Standard Driver) ¹²		REMOTE DRIVER BOXES ¹¹ (Standard Driver) ¹²		SUSPENSION POINTS	FIXTURE SECTIONS	APPROX. WEIGHT (LBS)	CENTRAL AXIS, COLLARED OR CEILING
		Direct	Indirect	Direct OR Indirect	Direct AND Indirect	Direct OR Indirect	Direct AND Indirect	Direct OR Indirect	Direct AND Indirect				
E5 (MR1.5)	MIN	2900	3250	46	92	1	1	1	1	4	1x Ring	24	YES
	LOW	4325	4875	69	138	1	1	1	1				
	MED	5775	6500	92	184	1	1	1	1				
	HI	8650	N/A	137	N/A	1	N/A	1	N/A				
	RGB RGBW	3350 3725	6150 6825	26 52	31 62	2	4	2	4				
	TUNABLE	8550	9500	36	72	1	1	1	2				
E6 (MR1.5)	MIN	3475	3900	55	110	1	1	1	1	4	1x Ring	29.5	YES
	LOW	5200	5850	82	164	1	1	1	1				
	MED	6925	7775	110	220	1	1	1	1				
	HI	10375	N/A	164	N/A	1	N/A	1	N/A				
	RGB RGBW	4025 4465	7375 8195	32 64	37 74	2	4	2	4				
	TUNABLE	10250	11410	43	86	1	1	1	2				
E7 (MR1.5)	MIN	4050	4550	64	128	2	2	2	2	4	2x Fixture Sections	34.25	NO
	LOW	6075	6825	96	192	2	2	2	2				
	MED	8075	9075	128	256	2	2	2	2				
	HI	12125	N/A	192	N/A	2	N/A	2	N/A				
	RGB RGBW	4675 5200	8600 9550	37 74	43 86	2	2	2	4				
	TUNABLE	11975	13300	50	100	2	2	2	4				
E8 (MR1.5)	MIN	4625	5200	73	146	2	2	2	2	4	2x Fixture Sections	38.5	NO
	LOW	6925	7775	110	220	2	2	2	2				
	MED	9225	10375	146	292	2	2	2	2				
	HI	13850	N/A	219	N/A	2	N/A	2	N/A				
	RGB RGBW	5350 5950	9825 10925	42 84	50 100	2	2	2	4				
	TUNABLE	13675	15200	57	114	2	2	2	4				

⁹Performance calculations are based on LM-79 test of MAX output at 80 CRI and 4000K. MIN, LOW, MED and HIGH calculations are extrapolated values.

¹⁰Power 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.

¹¹One or more drivers may be enclosed in each Remote Driver Box. See your final drawing/submittal for details.

¹²Applies 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 - MR1.5⁹

RING DIAMETER	OUTPUT TYPE	LUMENS (LM)		WATTS (W)		POWER DROPS ¹⁰ (Standard Driver) ¹²		REMOTE DRIVER BOXES ¹¹ (Standard Driver) ¹²		SUSPENSION POINTS	FIXTURE SECTIONS	APPROX. WEIGHT (LBS)	CENTRAL AXIS, COLLARED OR CEILING
		Direct	Indirect	Direct OR Indirect	Direct AND Indirect	Direct OR Indirect	Direct AND Indirect	Direct OR Indirect	Direct AND Indirect				
E12 (MR1.5)	MIN	6950	7800	110	220	4	4	4	4	8	4x Fixture Sections	58	NO
	LOW	10425	11700	165	330	4	4	4	4				
	MED	13875	15600	220	440	4	4	4	4				
	HI	20825	N/A	330	N/A	4	N/A	4	N/A				
	RGB RGBW	8050 8950	14775 16425	64 128	75 151	4	2	4	8				
	TUNABLE	20575	22875	86	172	4	2	4	8				

PERFORMANCE DETAILS - MR3⁹

RING DIAMETER	OUTPUT TYPE	LUMENS (LM)		WATTS (W)		POWER DROPS ¹⁰ (Standard Driver) ¹²		REMOTE DRIVER BOXES ¹¹ (Standard Driver) ¹²		SUSPENSION POINTS	FIXTURE SECTIONS	APPROX. WEIGHT (LBS)	CENTRAL AXIS, COLLARED OR CEILING
		Direct	Indirect	Direct OR Indirect	Direct AND Indirect	Direct OR Indirect	Direct AND Indirect	Direct OR Indirect	Direct AND Indirect				
E5 (MR3)	MIN	4550	5125	46	92	1	1	1	1	4	1x Ring	26.5	YES
	LOW	6825	7675	69	138	1	1	1	1				
	MED	9100	10225	92	184	1	1	1	1				
	HI	13625	N/A	137	N/A	1	N/A	1	N/A				
	RGB RGBW	3550 4000	6525 7350	26 52	31 62	2	4	2	4				
	TUNABLE	9075	10225	36	72	1	1	1	2				
E6 (MR3)	MIN	5450	6125	55	110	1	1	1	1	4	1x Ring	32.5	YES
	LOW	8175	9200	82	164	1	1	1	1				
	MED	10900	12250	110	220	1	1	1	2				
	HI	16350	N/A	164	N/A	1	N/A	1	N/A				
	RGB RGBW	4275 4800	7825 8825	32 64	37 74	2	4	2	4				
	TUNABLE	10900	12275	43	86	1	1	1	2				

⁹Performance calculations are based on LM-79 test of MAX output at 80 CRI and 4000K. MIN, LOW, MED and HIGH calculations are extrapolated values.

¹⁰Power 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.

¹¹One or more drivers may be enclosed in each Remote Driver Box. See your final drawing/submittal for details.

¹²Applies 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)⁹

RING DIAMETER	OUTPUT TYPE	LUMENS (LM)		WATTS (W)		POWER DROPS ¹⁰ (Standard Driver) ¹²		REMOTE DRIVER BOXES ¹¹ (Standard Driver) ¹²		SUSPENSION POINTS	FIXTURE SECTIONS	APPROX. WEIGHT (LBS)	CENTRAL AXIS, COLLARED OR CEILING
		Direct	Indirect	Direct OR Indirect	Direct AND Indirect	Direct OR Indirect	Direct AND Indirect	Direct OR Indirect	Direct AND Indirect				
E7 (MR3)	MIN	6375	7150	64	125	2	2	2	2	4	2x Fixture Sections	37.75	NO
	LOW	9550	10725	96	192	2	2	2	2				
	MED	12725	14300	128	256	2	2	2	2				
	HI	19075	N/A	192	N/A	2	N/A	2	N/A				
	RGB RGBW	4975 5600	9125 10275	37 74	43 86	2	2	2	4				
	TUNABLE	12700	14300	50	100	2	2	2	4				
E8 (MR3)	MIN	7275	8175	73	146	2	2	2	2	4	2x Fixture Sections	42.5	NO
	LOW	10900	12025	110	220	2	2	2	2				
	MED	14550	16325	146	292	2	2	2	2				
	HI	21800	N/A	219	N/A	2	N/A	2	N/A				
	RGB RGBW	5675 6400	10425 11750	42 84	50 100	2	2	2	4				
	TUNABLE	14525	16350	57	114	2	2	2	4				
E12 (MR3)	MIN	10950	12300	110	220	4	4	4	4	8	4x Fixture Sections	63.75	NO
	LOW	16400	18425	165	330	4	4	4	4				
	MED	21875	24575	220	440	4	4	4	4				
	HI	32800	N/A	330	N/A	4	N/A	4	N/A				
	RGB RGBW	8550 9625	15700 17675	64 128	75 151	4	2	4	8				
	TUNABLE	21850	24600	86	172	4	2	4	8				

⁹Performance calculations are based on LM-79 test of MAX output at 80 CRI and 4000K. MIN, LOW, MED and HIGH calculations are extrapolated values.

¹⁰Power 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.

¹¹One or more drivers may be enclosed in each Remote Driver Box. See your final drawing/submittal for details.

¹²Applies to V05 drivers (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
DIRECT LAMPING	MIN	✓	✓	✓	✓	✓	✓	✓	✓
	LOW	✓	✓	✓	✓	✓	✓	✓	✓
	MED	✓	✓	✓	✓				
	HI	✓	✓	✓					
	RGB	✓	✓	✓			✓	✓	✓
	RGBW	✓	✓	✓			✓	✓	✓
	TUNE	✓	✓	✓			✓	✓	✓

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

- Open the driver enclosure and you'll see a silver sticker that indicates the Power (Wattage).
- 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. If 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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DRIVERS

PRODUCT CODE	DESCRIPTION
N	None. Choose when indirect lighting 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 lighting).
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.
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 ¹³	IEEE P1789 & HD TV STUDIO* ¹⁴
V00	●	●			●	
V01	●	●			●	
V05	●	●			●	
P01	●				●	
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

¹³Fixtures 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

¹⁴The following drivers conform to IEEE P1789 Flicker Standard: 'IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers'. These drivers may also be installed in HD TV Studio applications utilizing high frequency camera equipment.



SENSORS

	PRODUCT CODE	DESCRIPTION	Location
	N	None. Choose when sensors are not desired.	-
COOPER WAVELINX	WLNx	Fixture is built with 0/10V wiring to connect to Wavelinx Wireless sensors and power/relay packs (sensors and equipment not provided by ALW)	Remote
ENLIGHTED™	ENLGHt	Enlighted remote connected lighting smart sensor - occ/daylight/networking (Enlighted Part: SU-5S-H-CL)	Remote
LUTRON VIVE	FCJS	Lutron® Vive remote RF wireless fixture control (Lutron Part: FCJS-ECO or FCJS-010)	Remote
	FCJS/S	Lutron® Vive remote RF wireless fixture control + daylight/occ sensor (Lutron Part: FCJS-ECO or FCJS-010, & FC-Sensor)	Remote
MOLEX POE CORESYNC	MLX	Molex PoE sensors for use with Molex/PoE drivers. Customer will need to determine who to purchase PoE equipment from	Remote
NLIGHT® WIRED	NLT	Fixture is built with wiring connections to connect to nLight® Wired remote sensors and power/relay packs purchased through distributor by agency	Remote
NLIGHT WIRELESS	NLTAIR	Fixture is built with wiring connections to connect to nLight® Air remote sensors and power/relay packs purchased through distributor by agency	Remote
VALUE SENSORS	OS/PH/HV	Hubbell WASP High Voltage 0-10V remote surface mount occ/daylight sensor. 120/277/347VAC input (Hubbell Part: WSPDSMUNV) Automated Dimming Functionality: Connect fixture 0/10V wires to sensor in the field. Adjust occ/photocell settings as desired On/Off or Manual Dimming Functionality: Turn photocell functionality OFF. Cap off 0/10V wires on sensor. Connect fixture 0/10V wires to wall dimmer in the field.	Remote

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

SENSOR COMPATIBILITY								
PRODUCT CODE		SENSOR TYPE	MAX MT HT	CA TITLE 24	STD*	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

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SENSORS (CONT'D)

DRIVER/SENSOR COMPATIBILITY									
	WLNK	ENLGHT	FCJS	FCJS/S /	MLX	NLT	NLTAIR	OS/PH/HV	NO SENSOR
V00	●	●	●	●				▲	●
V01	●	●	●	●				▲	●
V05	●	●	●	●				▲	●
P01								■	●
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.								

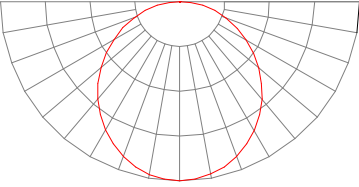
● - Indicates compatibility ▲ - Driver/sensor can have dimming OR on/off functionality but not both ■ - On/off sensor functionality only

* 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.



PHOTOMETRICS

OPTIC	POLAR PLOT (CD)	MTG HEIGHT	LIGHT LEVEL (FC)	SPACING CRITERION (SC) ¹⁵ (0°- 180°) (90°- 270°)	MAX INTENSITY (CD)	OUTPUT (LM)
MR1.5E		6 ft	84.1	1.26 1.26	3028	8650
		8 ft	47.3			
		10 ft	30.3			
		12 ft	21			
		14 ft	15.4			
		16 ft	18			

*Photometric calculations based on HI 4000K 80 CRI D2 fixture combination. Actual results may vary in the field.
 For footcandle and output multipliers refer to the [ALW IES File Multipliers Chart](#).
¹⁵Spacing 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

> 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

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.



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.