



MR1.5/MR3 | SUSPENDED, CEILING

STANDARD SIZES

1.5" or 3" Aperture Ring diameters from 2 feet to 16 feet

LAMPING

LED - Direct & Indirect - 80/90 CRI - 2700K/3000K/3500K/4000K Output Options: MIN/LOW/MED/HI/Tunable White/RGB/RGB+W Dimming down to 0%

FINISH

Two Tone Paint Options (Select Models): 18 standard finishes available at no extra charge RAL classic colors, TCI / Tiger Drylac catalog colors, and custom color match also available

CONSTRUCTION

Industrial Strength Extruded & Welded 6061 Aluminum



MR – SPECIFICATIONS SUSPENDED, CEILING



PRODUCT SUBMITTAL WORKSHEET

SAMPLE PRODUCT CODE

MR1.5/TS - D3 - SS - MED/90/3500 - 0/10V/0% - LENS - LOW/90/3500 - 0/10V/0% - HT - BK - RAL1001 - UNV - EMB/1 - OS/1 - SB/1 -1 2 3 4 5 6 7 8 9 10 11 12 **13**A 13B **13**c

1. BASE MODEL (CHOOSE ONE)

 MR1.5 MR1.5/ST MR1.5/TS MR1.5/TT MR3 	1 1 1	L.5", inside short wall, outside short wall L.5", inside short wall, outside tall wall L.5", inside tall wall, outside short wall L.5", inside tall wall, outside tall wall B.0", equal wall	MR1.5 1.5" 1.75"	MR1.5/ST 1.5" [] 1.75" 3.5"	MR1.5/TS	MR1.5/TT	MR3 3.0" 3.5"
2. NOMINAL D2 D3 D4 D5 D6 D7	2 QS 3 QS 4 QS 5 QS 6	CHOOSE ONE) 2' (24") outer diameter 3' (36") outer diameter 4' (48") outer diameter 5' (60") outer diameter 6' (72") outer diameter 7' (84") outer diameter	D8 D10 D12 D14 D16	10' (1) 12' (1) 14' (1)	") outer diamete 20") outer diam 44") outer diam 58") outer diam 92") outer diam	eter eter eter	
3. MOUNTING SS CAS ¹ CCS ¹ CM ¹	QS S QS C QS C QS C	SE ONE) Standard Suspension Central Axis Suspension Collared Central Suspension Ceiling Mounted (Not available with indirect la	amping)		NS	ccs	СМ

¹Unavailable for rings D7, D8, D10, D12, D14 or D16

4. LED LAMPING - DIRECT (CHOOSE ONE UNDER A, B, & C)

A. OUTPUT* ²	B. CRI ³	C. CCT ³	DELIVERED WATTO (W			
🗌 QS MIN	🗌 QS 80	2700K	LUMENS (LM) WATTS (W)		
🗌 QS LOW	🗌 QS 90	🗌 QS 3000K	Coo portos 9.12 for complete detail			
🗌 QS MED		🗌 QS 3500K	See pages 8-13 for complete details	5.		
🗌 QS HI		🗌 QS 4000K				
	0K-6500K, 80CRI)					

QS RGBW (80CRI, 3500K White) *Consult ALW for custom lumen packages.

QS RGB

²Direct/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 8 and LED driver footnotes.

³CRI/CCT options not applicable for TUNE, RGB, or RGBW lamping.

QS = QuickShip-qualifying option. For the entire luminaire configuration to be QuickShip-eligible, ALL options specified in the configuration must be ones notated with "QS". NOTE: Maximum 25 rings of QuickShip-eligible product per order.



5. REMOTE DRIVER⁴ — DIRECT (CHOOSE ONE .STD, TUNE & RGB(W) TABLE INDICATES COMPATIBLE LED LAMPING)

STD	
□ 0/10V/S QS • • 0-10V dimming down to 5% (Standard Dimming – Down to 10% for	r TUNE lamping)
□ 0/10V/1% QS • • 0-10V dimming down to 1%	
O/10V/0% QS • • 0-10V premium dimming down to 0%	
ECOSYS1 • (LDE1) Lutron Hi-lume 1% EcoSystem LED driver with Soft-on, Fade	e-to-Black dimming technology
LITEA • Lutron Hi-lume 1% 2-wire TRIAC dimming (120V forward-phase onl	ly).
DALI DALI flicker-free dimming down to 0%	
DMX QS • • DMX flicker-free dimming down to 0%	

⁴Driver specifications provided upon request.

⁵Lutron Vive Control Systems is compatible only with STD lamping. See more information for compatible Driver under 'Sensor Options'.

6. LENS – DIRECT

LENS QS Extra diffuse lens

7. LED LAMPING - INDIRECT (CHOOSE NONE OR ONE UNDER A, B, & C - NOT AVAILABLE WITH CEILING MOUNTING)

N

None. Choose when indirect lamping is not desired.



QS **RGBW** (80CRI, 3500K White)

*Consult ALW for custom lumen packages.

⁶Direct/Indirect lamping combinations are limited when specifying HIGH OUTPUT due to increased thermal temperatures and/or driver type limitations. See the 'Direct/Indirect LED Lamping Chart' on page 8 and LED driver footnotes. TUNE: Indirect lamping unavailable for D12 - D14 rings. RGB/W: Indirect lamping unavailable for D7 - D14 rings. ⁷CRI/CCT options not applicable for RGB lamping.

8. REMOTE DRIVER⁸ — INDIRECT (CHOOSE ONE .STD, TUNE & RGB(W) TABLE INDICATES COMPATIBLE LED LAMPING)

		6 QI	UNE	GB(W)
 ○/10V/S ○/10V/1% ○/10V/0% ECOSYS1 LTEA 		•	•	 O-10V dimming down to 5% (Standard Dimming – Down to 10% for TUNE lamping) O-10V dimming down to 1% O-10V premium dimming down to 0% (LDE1) Lutron Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology Lutron Hi-lume 1% 2-wire TRIAC dimming (120V forward-phase only).
DALI	QS	•	•	 DALI flicker-free dimming down to 0% DMX flicker-free dimming down to 0%

⁸Driver specifications provided upon request.

⁹Lutron Vive Control Systems is compatible only with STD lamping. See more information for compatible Driver under 'Sensor Options'.

QS = QuickShip-qualifying option. For the entire luminaire configuration to be QuickShip-eligible, <u>ALL</u> options specified in the configuration <u>must be</u> ones notated with "QS". NOTE: Maximum 25 rings of QuickShip-eligible product per order.



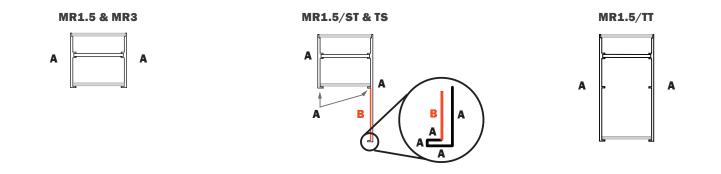
9. LENS - INDIRECT (CHOOSE ONE)

□ QS N
 □ QS LENS
 □ QS HT¹⁰

None. Choose when indirect lamping is not desired. Fixture will be supplied with an aluminum cover in place of a lens to match the exterior finish. Extra diffuse lens

High transmission, near-clear lens

¹⁰High transmission lens increases lumen output by ~14%, but LED chip is visible. Recommended only when top-side of fixture is not directly visible.



13. FINISH - SURFACE (A) (CHOOSE ONE. SEE PAGE 15 FOR LARGER SWATCHES AND ADDITIONAL INFORMATION)

STANDARD FINISHES ALUMINUM BA QS Brushed Aluminum	
BASIC POWDER COAT GW Gloss White SW Satin White AW Antimicrobial Satin White TW Textured Matte White TB Textured Matte Black	METALLIC POWDER COAT SG Silver Gray CG Charcoal Gray CU Copper BR Brass
SATIN ANODIZED EFFECT POWDER COAT CS Clear Silver OB Oil-Rubbed Bronze DB Dark Bronze SB QS SPECIAL ORDER FINISHES	GLOSS POWDER COAT (80-95% GLOSS) GO GO GR Red (RAL 2003) GR GM GB Blue (RAL 3020) GB Blue (RAL 4010) GB GB

RAL____ > Specify RAL Classic Color (Ex: RAL 3003) - Most RAL Colors are available for powder coat. See www.alwusa.com/finishes CAT____ > Specify Catalog Colors - Specify colors from the Tiger Drylac and TCI catalogs CCM____ Custom Color Match - Specify a custom powder coat color match

QS = QuickShip-qualifying option. For the entire luminaire configuration to be QuickShip-eligible, <u>ALL</u> options specified in the configuration <u>must be</u> ones notated with "QS". NOTE: Maximum 25 rings of QuickShip-eligible product per order.



13. FINISH — SURFACE (B) (CHOOSE ONE. SEE PAGE 15 FOR LARGER SWATCHES AND ADDITIONAL INFORMATION)

STANDARD FINISHES

ALUMINUM

BA Brushed Aluminum

BASIC POWDER COAT

GW SW AW TW	Here	Gloss White Satin White Antimicrobial Satin White Textured Matte White
тв		Textured Matte Black

METALLIC POWDER COAT



GLOSS POWDER COAT (80-95% GLOSS)

Orange (RAL 2003)

Magenta (RAL 4010)

Red (RAL 3020)

Blue (RAL 5015)

SATIN ANODIZED EFFECT POWDER COAT

	Clear Silver
🗌 ОВ	Oil-Rubbed Bronze
DB	Dark Bronze
SB	Satin Black

SPECIAL ORDER FINISHES

RAL Specify RAL Classic Color (Ex: RAL 3003) - Most RAL Colors are available for powder coat. See www.alwusa.com/finishes Specify Catalog Colors - Specify colors from the Tiger Drylac and TCI catalogs ۵. CCM

GO

GR GR

GM GM GB

- 🌍 Custom Color Match - Specify a custom powder coat color match

12. VOLTAGE (CHOOSE ONE)

🗌 UNV	QS	Universal Voltage (120VAC-277VAC)
347		347 Volt (Driver options may be limited. Not available with EMB)

13. ADDITIONAL OPTIONS (OPTIONAL - CHOOSE ONE UNDER A, B, & C, IF DESIRED)

A. EMERGENCY OPTIONS

- **EMB¹¹** QS Emergency Battery (Not available in 347V)
- **EMC¹¹** QS Emergency Circuit

¹¹Consult ALW for more details.

B. SENSOR OPTIONS (INDICATE QUANTITY IF DESIRED, OTHERWISE IT WILL AUTOMATICALLY BE CALCULATED)

FCJS/_12	
FCJS/S/ ¹²	
ENLGHT/ ¹³	
OS/*	
PH/*	

- Lutron® Vive remote RF wireless fixture control (Lutron Part: FCJS-ECO or FCJS-010)
- Lutron® Vive remote RF wireless fixture control + daylight/occ sensor (Lutron Part: FCJS-EC0 or FCJS-010, & FC-Sensor)
- QS Enlighted® remote connected lighting smart sensor (Enlighted Part: SU-5S-H) (occupancy, daylight, networking, and more)

QS 0-10V remote occupancy sensor

QS 0-10V remote photocell/daylight sensor

*Quickship availability on occupancy and photocell/daylight sensors may vary. Contact ALW for more information. ¹²Lutron[®] Vive remote sensors are compatible with the following drivers: 0/10V/S, 0/10V/1, 0/10V/0 driver or ECOSYS. Programming required by Lutron Commissioner. ¹³Enlighted® sensors are compatible with the following drivers: 0/10V/S, 0/10V/1, 0/10V/0. Programming required by Enlighted Commissioner. Additional Enlighted sensor families included IoT Sensors and Enlighted One Sensors are also available. Contact Customer Support for more information.

C. ADDITIONAL OPTIONS (NOT APPLICABLE FOR CEILING MOUNT)

COMBO QS Combination 4.5" canopy at power feed locations to accommodate both power cord & suspension mount hardware. SB **OS** Seismic Bracing

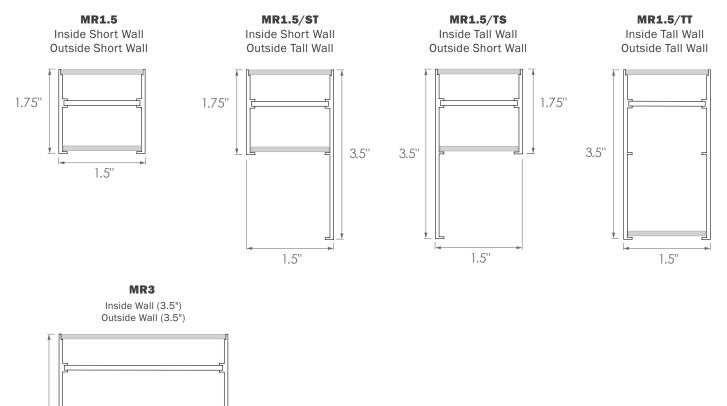
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3.5"

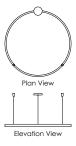
3.0"

MECHANICAL DIAGRAMS





MOUNTING OPTIONS



Standard Suspension (SS)

(1) 4.5" white canopy per power feed location
 (1) bullet mount
 (1) 8' aircraft cable and
 (1) 2" white canopy (for use with T-bar mounting)

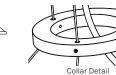




Central Collared Suspension (CCS)

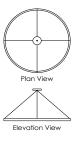
(1) 5" white central axis canopy and

(1) 5" collared ring (color matches specified body finish) that all aircraft cables and power feeds route through.



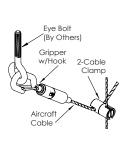
Seismic Bracing (SB)

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



Central Axis Suspension (CAS)

(1) 4.5" white central axis canopy per fixture that all aircraft cables/power feeds route into, as shown.



0.2

.27"

Ceiling Mount (CM)

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 (COMBO)

Choose option COMBO to specify 4.5" canopies at feed locations with power feed <u>and</u> aircraft cable suspension mounting. Canopy finish is always white. Contact ALW for alternate colors.



PERFORMANCE & MOUNTING DETAILS - MR1.5¹³

RING DIAMETER	OUTPUT TYPE	LUMENS (LM) direct indirect	WATTS (W) direct OR indirect direct AND indirect	POWER DROPS ¹⁴ direct OR indirect direct AND indirect (Standard Driver) ¹⁶	REMOTE DRIVER BOXES ¹⁵ direct OR indirect direct AND indirect (Standard Driver) ¹⁶	SUSPENSION POINTS	FIXTURE SECTIONS	APPROX. WEIGHT (LBS)	CENTRAL AXIS, COLLARED OR CEILING
	MIN	1500 1650	22 44	1 1	1				
	LOW	2250 2500	35 70	1 1	1 1				
D2	MED	3000 3350	47 94	1	1				
(MR1.5)	ні	4500 N/A	70 N/A	1 N/A	1 N/A	3	1x Ring	12.5	YES
	RGB/RGBW	1750/3200 1950/3600	47/59 94/118	1 2	1 2				
	TUNABLE	4450 4950	64 128	1	1 2	_			
	MIN	2250 2525	34 68	1	1				
	LOW	3375 3750	54 108	1	1	-			
D3	MED	4500 5050	72 144	1	1	- 3	1x Ring		
(MR1.5)	ні	6750 N/A	108 N/A	1 N/A	1 N/A			18.75	YES
	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	-	1x Ring	25	
	LOW	4500 5050	73 146	1	1				
D4	MED	6000 6750	97 194	1 2	1 2	-			
(MR1.5)	ні	9000 N/A	145 N/A	1 2	1 2	3			YES
	RGB/RGBW	3500/6400 3900/7150	101/126 202/252	1/2 2/2	1/2 2/4	-			
	TUNABLE	8900 9900	133 266	1 2	2 4				
	MIN	3750 4200	58 116	1 1	1				
	LOW	5600 6300	92 184	1 1	1				
D5	MED	7500 8400	122 244	1 2	1 2				
(MR1.5)	ні	11250 N/A	183 N/A	1 N/A	1 N/A	- 3	1x Ring	31.75	YES
	RGB/RGBW	4350/8000 4850/8900	123/157 246/314	2 2	2 4				
	TUNABLE	11150 12400	168 336	1 2	2 4	-			

¹³Performance calculations are based on LM-79 test of MAX output at 80 CRI and 4000K. MIN, LOW, MED and HIGH calculations are extrapolated values.
 ¹⁴Power 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.

¹⁵One or more drivers may be enclosed in each Remote Driver Box. See your final drawing/submittal for details.

¹⁶Applies to 0/10V/S drivers (or DMX for RGB/RGBW). For additional info on other driver models see your final drawing/submittal.

MR – SPECIFICATIONS SUSPENDED, CEILING



PERFORMANCE & MOUNTING DETAILS – MR1.5 (CONT.)¹³

RING DIAMETER	OUTPUT TYPE	LUMENS (LM) direct indirect	WATTS (W) direct OR indirect direct AND indirect	POWER DROPS ¹⁴ direct OR indirect direct AND indirect (Standard Driver) ¹⁶	REMOTE DRIVER BOXES ¹⁵ direct OR indirect direct AND indirect (Standard Driver) ¹⁶	SUSPENSION POINTS	FIXTURE SECTIONS	APPROX. WEIGHT (LBS)	CENTRAL AXIS, COLLARED OR CEILING
	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		4 51 1	075	2/50
(MR1.5)	ні	13500 N/A	220 N/A	2 N/A	2 N/A	3	1x Ring	37.5	YES
	RGB/RGBW	5250/9600 5850/10700	150/191 300/382	2 2	2 4				
	TUNABLE	13350 14850	202 404	2 2	3 6				
	MIN	5250 5900	81 162	2 2	2				NO
	LOW	7900 8850	129 258	2 2	2 2	-	2x Joined Arcs	40.75	
D7	MED	10500 11800	172 344	2 2	2 2	- 4			
(MR1.5)	н	15750 N/A	257 N/A	2 N/A	2 N/A				
	RGB/RGBW	6100/11200 N/A	174/220 N/A	2/2 N/A	2/4 N/A				
	TUNABLE	15600 17350	234 468	2 2	4 4				
	MIN	6000 6725	93 186	2 2	2 2	_	2x Joined Arcs	50	NO
	LOW	9000 10100	147 294	2 2	2 2				
D8	MED	12000 13475	196 392	2 2	2 4				
(MR1.5)	ні	18000 N/A	295 N/A	2 N/A	2 N/A	- 4			
	RGB/RGBW	7000/12800 N/A	202/256 N/A	2/2 N/A	2/4 N/A				
	TUNABLE	17800 19800	270 540	2 2	4 4				
	MIN	7500 8425	117 234	4 4	4 4				
	LOW	11250 12625	185 370	4 4	4 4				
D10	MED	15000 16850	246 492	4 4	4 4	- 8	4x Joined		
(MR1.5)	ні	22500 N/A	369 N/A	4 N/A	4 N/A		Arcs	62.5	NO
	RGB/RGBW	8700/16000 N/A	240/312 N/A	4 N/A	2 N/A				
	TUNABLE	22250 24750	332 664	4 4	2 2				

¹³Performance calculations are based on LM-79 test of MAX output at 80 CRI and 4000K. MIN, LOW, MED and HIGH calculations are extrapolated values.
 ¹⁴Power 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.

¹⁵One or more drivers may be enclosed in each Remote Driver Box. See your final drawing/submittal for details.

¹⁶Applies to 0/10V/S drivers (or DMX for RGB/RGBW). For additional info on other driver models see your final drawing/submittal.

MR – SPECIFICATIONS SUSPENDED, CEILING ALWUSA.COM 9 of 16



PERFORMANCE & MOUNTING DETAILS – MR1.5 (CONT.)¹³

RING DIAMETER	OUTPUT TYPE	LUMENS (LM) direct indirect	WATTS (W) direct OR indirect direct AND indirect	POWER DROPS ¹⁴ direct OR indirect direct AND indirect (Standard Driver) ¹⁶	REMOTE DRIVER BOXES ¹⁵ direct OR indirect direct AND indirect (Standard Driver) ¹⁶	SUSPENSION POINTS	FIXTURE SECTIONS	APPROX. WEIGHT (LBS)	CENTRAL AXIS, COLLARED OR CEILING
	MIN	9000 10100	140 280	4 4	4 4				
	LOW	13500 15150	222 444	4 4	4 4	-			
D12	MED	18000 20200	296 592	4	4 4	-	4x Joined		
(MR1.5)	ні	27000 N/A	444 N/A	4 N/A	4 N/A	8	Arcs	75	NO
	RGB/RGBW	10450/19200 N/A	304/384 N/A	4 N/A	2 N/A	-			
	TUNABLE	26700 29700	404 N/A	4	8	-			
	MIN	10500 11800	163 326	4	4 4	- 8	4x Joined Arcs	87.5	NO
	LOW	15750 17700	259 518	4	4 4				
D14	MED	21000 23575	346 692	4	4 4				
(MR1.5)	ні	31500 N/A	518 N/A	4 N/A	4 N/A				
	RGB/RGBW	12200/22350 N/A	348/448 N/A	4/4 N/A	2/8 N/A				
	TUNABLE	34650 N/A	472 N/A	4 N/A	8 N/A	-			
	MIN	12000 13500	188 378	4 4	4 4				
	LOW	18000 20200	298 596	4 4	4 4	-			
D16	MED	24000 27000	397 794	4 4	4 8	-	4x Joined		
(MR1.5)	ні	36000 N/A	595 N/A	4 N/A	4 N/A	8	Arcs	100	NO
	RGB/RGBW	13950/25550 N/A	404/512 N/A	4/4 N/A	2/8 N/A				
	TUNABLE	35600 N/A	544 N/A	4 N/A	8 N/A				

¹³Performance calculations are based on LM-79 test of MAX output at 80 CRI and 4000K. MIN, LOW, MED and HIGH calculations are extrapolated values.
 ¹⁴Power 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.

¹⁵One or more drivers may be enclosed in each Remote Driver Box. See your final drawing/submittal for details.

¹⁶Applies to 0/10V/S drivers (or DMX for RGB/RGBW). For additional info on other driver models see your final drawing/submittal.



PERFORMANCE & MOUNTING DETAILS – MR3¹³

RING DIAMETER	OUTPUT TYPE	LUMENS (LM) direct indirect	WATTS (W) direct OR indirect direct AND indirect	POWER DROPS ¹⁴ direct OR indirect direct AND indirect (Standard Driver) ¹⁶	REMOTE DRIVER BOXES ¹⁵ direct OR indirect direct AND indirect (Standard Driver) ¹⁶	SUSPENSION POINTS	FIXTURE SECTIONS	APPROX. WEIGHT (LBS)	CENTRAL AXIS, COLLARED OR CEILING
	MIN	2350 2650	22 44	1	1				
D2 (MR3)	LOW	3550 3975	35 70	1	1	-			
	MED	4725 5300	47 94	1	1	-	4 81 4		
	ні	7100 N/A	70 N/A	1 N/A	1 N/A	- 3	1x Ring	13.75	YES
	RGB/RGBW	1850/3400 2075/3825	47/59 94/118	1 2	1 2	-			
	TUNABLE	4725 5300	64 128	1	1 2	-			
	MIN	3550 3975	34 68	1 1	1				
	LOW	5300 5950	54 108	1	1	-			
D3	MED	7100 7950	72 144	1	1	-	1x Ring	20.75	
(MR3)	ні	10625 N/A	108 N/A	1 N/A	1 N/A	- 3			YES
	RGB/RGBW	2775/5100 3125/5725	74/92 148/184	1 2	1 2	-			
	TUNABLE	7075	98 196	1 2	2 2 4	-			
	MIN	4725 5300	46	1	1				
	LOW	7100 7950	73 146	1 1	1	-			
D4	MED	9450 10625	97 194	1 2	1 2	-			
(MR3)	ні	14200 N/A	145 N/A	1 N/A	1 N/A	- 3	1x Ring	27.5	YES
	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				
	LOW	8900 9950	92 184	1 1	1	-			
D5	MED	11800 13275	122 244	1 1 2	1 2	-			
(MR3)	ні	17700 N/A	183 N/A	1 N/A	1 N/A	- 3	1x Ring	35	YES
	RGB/RGBW	4625/8475 5200/9525	123/157 246/314	2 2	2 4	-			
	TUNABLE	11800 13275	168 336	1 2	2 4	-			

¹³Performance calculations are based on LM-79 test of MAX output at 80 CRI and 4000K. MIN, LOW, MED and HIGH calculations are extrapolated values.
 ¹⁴Power 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.

¹⁵One or more drivers may be enclosed in each Remote Driver Box. See your final drawing/submittal for details.

¹⁶Applies to 0/10V/S drivers (or DMX for RGB/RGBW). For additional info on other driver models see your final drawing/submittal.

MR – SPECIFICATIONS SUSPENDED, CEILING



PERFORMANCE & MOUNTING DETAILS - MR3 (CONT.)¹³

RING DIAMETER	OUTPUT TYPE	LUMENS (LM) direct indirect	WATTS (W) direct OR indirect direct AND indirect	POWER DROPS ¹⁴ direct OR indirect direct AND indirect (Standard Driver) ¹⁶	REMOTE DRIVER BOXES ¹⁵ direct OR indirect direct AND indirect (Standard Driver) ¹⁶	SUSPENSION POINTS	FIXTURE SECTIONS	APPROX. WEIGHT (LBS)	CENTRAL AXIS, COLLARED OR CEILING
D6 (MR3)	MIN	7100 7950	70 140	1 1	1 2				
	LOW	10625 11925	110 220	1 2	1 2	-			
	MED	14200 15925	147 294	1 2	1 2				2/50
	ні	21300 N/A	220 N/A	2 N/A	2 N/A	3	1x Ring	41.25	YES
	RGB/RGBW	5550/10175 6225/11450	150/191 300/382	2 2	2 4	-			
	TUNABLE	14175 15925	202 404	2 2	3 6	-			
	MIN	8300 9275	81 162	2	2 2				
	LOW	12400 13925	129 258	2 2	2 2	-		44.75	
D7	MED	16550 18575	172 344	2	2 2	-	2x Joined		
(MR3)	ні	24800 N/A	257 N/A	2 N/A	2 N/A	4	Arcs		NO
	RGB/RGBW	6475/11875 N/A	174/220 N/A	2/2 N/A	2/4 N/A	-			
	TUNABLE	16525 18600	234 468	2 N/A	4 N/A	-			
	MIN	9450 10600	93 186	2 2	2 2			55	
	LOW	14200 15900	147 294	2	2 2	-			
D8	MED	18900 21225	196 392	2	2 4	-	2x Joined Arcs		
(MR3)	ні	28350 N/A	295 N/A	2 N/A	2 N/A	4			NO
	RGB/RGBW	7400/13575 N/A	202/256 N/A	2/2 N/A	2/4 N/A	-			
	TUNABLE	18900 21250	270 540	2 N/A	4 N/A	-			
	MIN	11800 13250	117 234	4 4	4 4				
	LOW	17700 19900	185 370	4 4	4 4				
D10	MED	23600 26550	246 492	4 4	4 4		4x Joined		
(MR3)	ні	35500 N/A	369 N/A	4 N/A	4 N/A	8	Arcs	68.75	NO
	RGB/RGBW	9250/16950 N/A	240/312 N/A	4 N/A	2 N/A				
	TUNABLE	23600 26550	332 664	4 4	2 8				

¹³Performance calculations are based on LM-79 test of MAX output at 80 CRI and 4000K. MIN, LOW, MED and HIGH calculations are extrapolated values.
 ¹⁴Power 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.

¹⁵One or more drivers may be enclosed in each Remote Driver Box. See your final drawing/submittal for details.

¹⁶Applies to 0/10V/S drivers (or DMX for RGB/RGBW). For additional info on other driver models see your final drawing/submittal.

MR – SPECIFICATIONS SUSPENDED, CEILING



PERFORMANCE & MOUNTING DETAILS - MR3 (CONT.)¹³

RING DIAMETER	OUTPUT TYPE	LUMENS (LM) direct indirect	WATTS (W) direct OR indirect direct AND indirect	POWER DROPS ¹⁴ direct OR indirect direct AND indirect (Standard Driver) ¹⁶	REMOTE DRIVER BOXES ¹⁵ direct OR indirect direct AND indirect (Standard Driver) ¹⁶	SUSPENSION POINTS	FIXTURE SECTIONS	APPROX. WEIGHT (LBS)	CENTRAL AXIS, COLLARED OR CEILING
	MIN	14200 15900	140 280	4 4	4 4				
	LOW	21300 23850	222 444	4 4	4 4	-			
D12	MED	28350 31850	296 592	4 4	4 4	- 8	4x Joined	00 F	NO
(MR3)	н	42500 N/A	444 N/A	4 N/A	4 N/A	ð	Arcs	82.5	NO
	RGB/RGBW	11100/20350 N/A	4 N/A	4 N/A	2 N/A				
	TUNABLE	28325 31875	4 N/A	4 N/A	8 N/A				
	MIN	16550 18550	163 326	4 4	4 4		4x Joined	96.25	
	LOW	24800 27850	259 518	4 4	4 4				
D14	MED	33100 37150	346 692	4 4	4 4				
(MR3)	н	49600 N/A	518 N/A	4 N/A	4 N/A	8	Arcs		NO
	RGB/RGBW	12925/23750 N/A	348/448 N/A	4/4 N/A	2/8 N/A				
	TUNABLE	33050 N/A	472 N/A	4 N/A	8 N/A				
	MIN	18900 21200	188 378	4 4	4 4				
	LOW	28350 31825	298 596	4 4	4 4	1			
D16	MED	37800 42475	397 794	4 4	4 8	-	4x Joined		
(MR3)	ні	56700 N/A	595 N/A	4 N/A	4 N/A	8	Arcs	110	NO
	RGB/RGBW	14775/27125 N/A	404/512 N/A	4/4 N/A	2/8 N/A				
	TUNABLE	37775 544 4 8		1					

¹³Performance calculations are based on LM-79 test of MAX output at 80 CRI and 4000K. MIN, LOW, MED and HIGH calculations are extrapolated values.
 ¹⁴Power 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.

¹⁵One or more drivers may be enclosed in each Remote Driver Box. See your final drawing/submittal for details.

¹⁶Applies to 0/10V/S 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							
LAMPING	MED	\checkmark	\checkmark	\checkmark	\checkmark				
	HI	\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

HOW TO CALCULATE VOLTAGE DROP?

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.

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.



STANDARD FINISHES

Standard finishes are available at no additional charge.

ALUMINUM



Brushed Aluminum

QS

BASIC POWDER COAT



SATIN ANODIZED EFFECT POWDER COAT



SPECIAL ORDER FINISHES*



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

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



CATALOG COLORS: CAT____

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

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

METALLIC POWDER COAT



GLOSS POWDER COAT (80-95% GLOSS)





CUSTOM COLOR MATCH: CCM____

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



MR – SPECIFICATIONS SUSPENDED, CEILING ALWUSA.COM 15 of 16



ADDITIONAL OPTIONS & SPECIFICATIONS

LENS

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.

HOUSING

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

SAFETY & REGULATORY

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.

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.

WARRANTY

Limited 5-year warranty. Details: alwusa.com/warranty

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, 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.