ALW

MOONRING 1.5 & 3

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):
Brushed Aluminum, White, Black, Silver, Brass, RAL Classic Colors

CONSTRUCTION
Industrial Strength Extruded & Welded 6061 Aluminum

Intertek
ETL Listed
2108

PRODUCT SUBMITTAL WORKSHEET

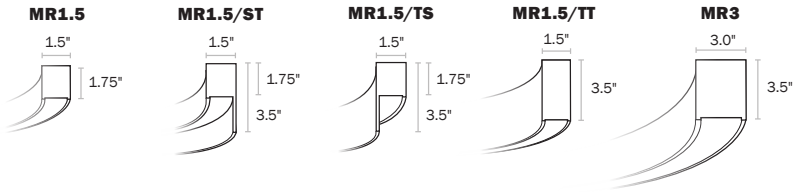
SAMPLE PRODUCT CODE

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 2 3 4 5 6 7 8 9 10 11 12 13A 13B 13C

1. BASE MODEL (CHOOSE ONE)

- ☐ **MR1.5** — 1.5", inside short wall, outside short wall
- ☐ **MR1.5/ST** — 1.5", inside short wall, outside tall wall
- ☐ **MR1.5/TS** — 1.5", inside tall wall, outside short wall
- ☐ **MR1.5/TT** — 1.5", inside tall wall, outside tall wall
- ☐ **MR3** — 3.0", equal wall



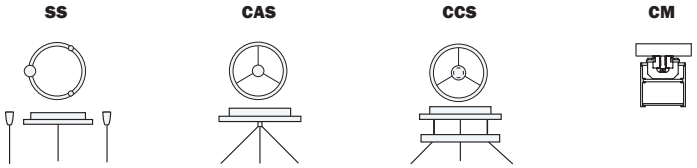
2. NOMINAL SIZE (CHOOSE ONE)

- ☐ **D2** — 2' (24") outer diameter
- ☐ **D3** — 3' (36") outer diameter
- ☐ **D4** — 4' (48") outer diameter
- ☐ **D5** — 5' (60") outer diameter
- ☐ **D6** — 6' (72") outer diameter
- ☐ **D7** — 7' (84") outer diameter
- ☐ **D8** — 8' (96") outer diameter
- ☐ **D10** — 10' (120") outer diameter
- ☐ **D12** — 12' (144") outer diameter
- ☐ **D14** — 14' (168") outer diameter
- ☐ **D16** — 16' (192") outer diameter

3. MOUNTING (CHOOSE ONE)

- ☐ **SS** — Standard Suspension
- ☐ **CAS**[1] — Central Axis Suspension
- ☐ **CCS**[1] — Collared Central Suspension
- ☐ **CM**[1] — Ceiling Mounted (Not available with indirect lamping)

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



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

A. OUTPUT[2]

- ☐ **MIN**
- ☐ **LOW**
- ☐ **MED**
- ☐ **HI**
- ☐ **TUNE** (80CRI, 2700K-6500K White)
- ☐ **RGB**
- ☐ **RGBW** (80CRI, 4000K White)

B. CRI[3]

- ☐ **80**
- ☐ **90**

C. CCT[3]

- ☐ **2700K**
- ☐ **3000K**
- ☐ **3500K**
- ☐ **4000K**

DELIVERED LUMENS (LM)	WATTS (W)
See pages 6-7 for complete details.	

[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 8 and LED driver footnotes.*

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

5. REMOTE DRIVER — DIRECT (CHOOSE ONE)

- ☐ **0/10V/S** 0-10V dimming down to 5% (Standard Dimming — Down to 10% for TUNE lamping)
- ☐ **0/10V/1%**[4] 0-10V dimming down to 1%
- ☐ **0/10V/0%**[5] 0-10V premium dimming down to 0%
- ☐ **DALI**[5] DALI flicker-free dimming down to 0% (Not compatible with TUNE lamping)
- ☐ **DMX** DMX flicker-free dimming down to 0% (Select for RGB and RGBW lamping)
- ☐ **ECOSYS1** Lutron Hi-lume 1% EcoSystem, constant current (Not compatible with TUNE lamping)
- ☐ **ECOSYS5** Lutron 5-Series 5% EcoSystem, constant current (Not compatible with TUNE lamping)
- ☐ **LTEA** Lutron Hi-lume 1% 2-wire TRIAC dimming (120V forward-phase only), constant current

[4]*If choosing HIGH output for the DIRECT lamping option, INDIRECT lamping is unavailable for rings D7 and above.*
[5]*If choosing HIGH output for the DIRECT lamping option, INDIRECT lamping is unavailable for rings D8 and D16. Also not available in 347V driver models (#12).*

6. LENS — DIRECT

- ■ **LENS** 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.*

A. OUTPUT[6]	B. CRI[7]	C. CCT[7]
☐ **MIN**	☐ **80**	☐ **2700K**
☐ **LOW**	☐ **90**	☐ **3000K**
☐ **MED**		☐ **3500K**
☐ **HI**		☐ **4000K**
☐ **TUNE** (80CRI, 2700K-6500K White)		
☐ **RGB**		
☐ **RGBW** (80CRI, 4000K White)		

DELIVERED LUMENS (LM)	WATTS (W)
See pages 6-7 for complete details.	

[6]*Direct/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.*
[7]*CRI/CCT options not applicable for RGB lamping.*

8. REMOTE DRIVER — INDIRECT (CHOOSE ONE — NOT AVAILABLE WITH CEILING MOUNTING)

- ☐ **N** None. *Choose when indirect lamping is not desired.*
- ☐ **0/10V/S** 0-10V dimming down to 5% (Standard Dimming — Down to 10% for TUNE lamping)
- ☐ **0/10V/1%**[8] 0-10V dimming down to 1%
- ☐ **0/10V/0%**[9] 0-10V premium dimming down to 0%
- ☐ **DALI**[9] DALI flicker-free dimming down to 0% (Not compatible with TUNE lamping)
- ☐ **DMX** DMX flicker-free dimming down to 0% (Select for RGB and RGBW lamping)
- ☐ **ECOSYS1** Lutron Hi-lume 1% EcoSystem, constant current (Not compatible with TUNE lamping)
- ☐ **ECOSYS5** Lutron 5-Series 5% EcoSystem, constant current (Not compatible with TUNE lamping)
- ☐ **LTEA** Lutron Hi-lume 1% 2-wire TRIAC dimming (120V forward-phase only), constant current (Not compatible with TUNE lamping)

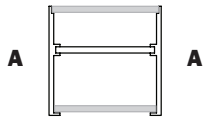
[8]*If choosing HI output for the DIRECT lamping option, INDIRECT lamping is unavailable for rings D7 and above.*
[9]*If choosing HI output for the DIRECT lamping option, INDIRECT lamping is unavailable for rings D8 and D16. Also not available in 347V driver models (#12).*

9. LENS — INDIRECT (CHOOSE ONE)

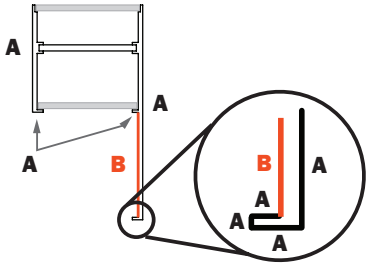
- ☐ **N** None. *Choose when indirect lamping is not desired. Fixture will be supplied with an aluminum cover in place of a lens to match the exterior finish.*
- ☐ **LENS** Extra diffuse lens
- ☐ **HT**[10] High transmission, near-clear lens

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

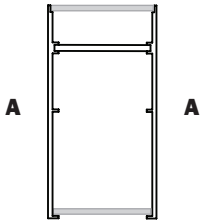
MR1.5 & MR3



MR1.5/ST & TS



MR1.5/TT



10. FINISH — SURFACE (A) (CHOOSE ONE)

- ☐ **BAL** Brushed Aluminum
- ☐ **BK** Black Powder Coat
- ☐ **BRS** Brass Metallic Powder Coat
- ☐ **SV** Silver Powder Coat
- ☐ **WH** White Powder Coat
- ☐ **WH/AM** White Antimicrobial Powder Coat (for healthcare environments)
- ☐ **RAL____** Specify RAL Classic Color code *(ex: RAL3003)* ralcolorchart.com/ral-classic

11. FINISH — SURFACE (B) (CHOOSE ONE - NOT APPLICABLE FOR *MR1.5*, *MR1.5/TT,* AND *MR3* BASE MODELS)

- ☐ **BAL** Brushed Aluminum
- ☐ **BK** Black Powder Coat
- ☐ **BRS** Brass Metallic Powder Coat
- ☐ **SV** Silver Powder Coat
- ☐ **WH** White Powder Coat
- ☐ **WH/AM** White Antimicrobial Powder Coat (for healthcare environments)
- ☐ **RAL____** Specify RAL Classic Color code *(ex: RAL3003)* ralcolorchart.com/ral-classic

12. VOLTAGE (CHOOSE ONE)

- ☐ **UNV** Universal Voltage (120VAC-277VAC)
- ☐ **347** 347 Volt *(Driver options may be limited)*

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

A. EMERGENCY OPTIONS

- ☐ **EMB/__**[11] Emergency Battery *(indicate quantity — each battery powers 4 linear feet)*
- ☐ **EMC/__**[11] Emergency Circuit *(indicate quantity of 4 linear foot section to be illuminated by emergency circuit)*

[11]*Consult ALW for more details.*

B. SENSOR OPTIONS (COMPATIBLE ONLY WITH 0-10V DRIVERS — INDICATE QUANTITY IF DESIRED, OTHERWISE IT WILL AUTOMATICALLY BE CALCULATED)

- ☐ **ENLGHT/__**[12] Enlighted® remote smart sensor *(occupancy, daylight, networking, and more)*
- ☐ **OS/__** 0-10V remote occupancy sensor
- ☐ **PH/__** 0-10V remote photocell/daylight sensor

[12]*Enlighted® Gateway and Energy Manager (by others) plus programming required. Learn more at enlightedinc.com.*

C. ADDITIONAL OPTIONS (NOT APPLICABLE FOR CEILING MOUNT)

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

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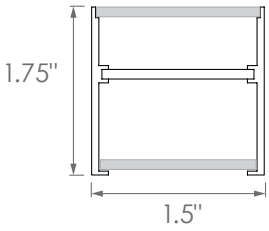
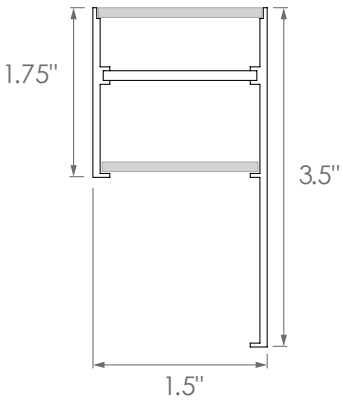
MECHANICAL DIAGRAMS

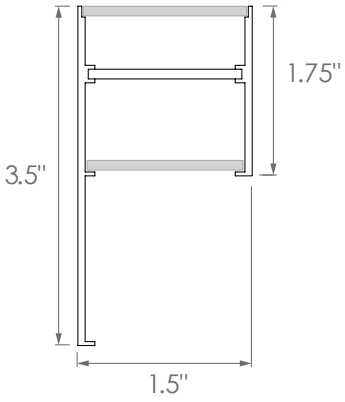
MR1.5
Inside Short Wall
Outside Short Wall



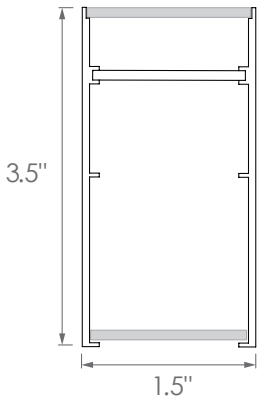
MR1.5/ST
Inside Short Wall
Outside Tall Wall



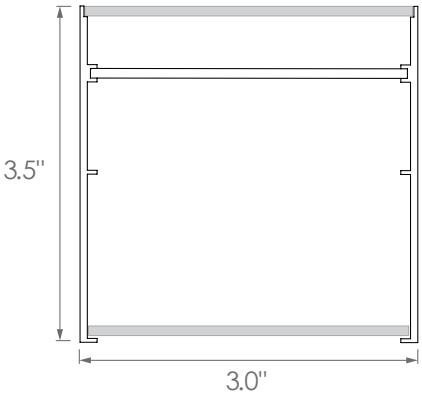
MR1.5/TS
Inside Tall Wall
Outside Short Wall



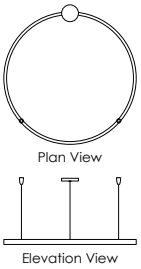
MR1.5/TT
Inside Tall Wall
Outside Tall Wall



MR3
Inside Wall (3.5")
Outside Wall (3.5")

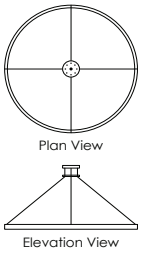


MOUNTING OPTIONS



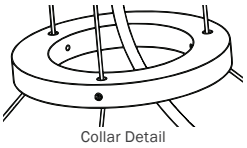
Standard Suspension (SS)

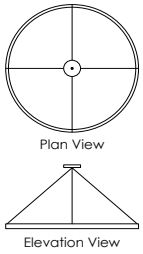
(1) 4.5" white canopy per power feed location
(1) bullet mount
(1) 8' aircraft cable and
(1) 2" white canopy (for use with T-bar mounting) per suspension point



Central Collared Suspension (CCS)

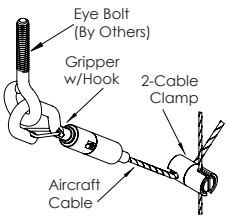
(1) 5" white central axis canopy and
(1) 5" collared ring (color matches specified body finish) that all aircraft cables and power feeds route through.





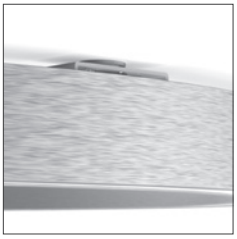
Central Axis Suspension (CAS)

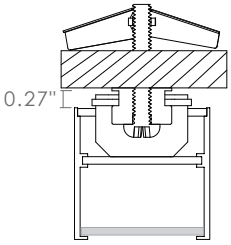
(1) 5" white central axis canopy per fixture that all aircraft cables/power feeds route into, as shown.



Seismic Bracing (SB)

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





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 and aircraft cable suspension mounting. Canopy finish is always white. Contact ALW for alternate colors.

PERFORMANCE & MOUNTING DETAILS — MR1.5[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
D2 (MR1.5)	MIN	1500 1650	22 44	1 1	1 1	3	1x Ring	12.5	YES
	LOW	2250 2500	35 70	1 1	1 1				
	MED	3000 3350	47 94	1 1	1 1				
	HI	4500 5050	70 140	1 1	1 1				
	RGB/RGBW	TBD	47/59 94/118	1 2	1 2				
	TUNABLE	TBD	64 128	1 1	1 2				
D3 (MR1.5)	MIN	2250 2525	34 68	1 1	1 1	3	1x Ring	18.75	YES
	LOW	3375 3750	54 108	1 1	1 1				
	MED	4500 5050	72 144	1 1	1 1				
	HI	6750 7575	108 216	1 2	1 2				
	RGB/RGBW	TBD	74/92 148/184	1 2	1 2				
	TUNABLE	TBD	98 196	1 2	2 4				
D4 (MR1.5)	MIN	3000 3350	46 92	1 1	1 1	3	1x Ring	25	YES
	LOW	4500 5050	73 146	1 1	1 1				
	MED	6000 6750	97 194	1 2	1 2				
	HI	9000 10100	145 290	1 2	1 2				
	RGB/RGBW	TBD	101/126 202/252	1/2 2/2	1/2 2/4				
	TUNABLE	TBD	133 266	1 2	2 4				
D5 (MR1.5)	MIN	3750 4200	58 116	1 1	1 1	3	1x Ring	31.75	YES
	LOW	5600 6300	92 184	1 1	1 1				
	MED	7500 8400	122 244	1 2	1 2				
	HI	11250 12625	183 366	1 2	1 2				
	RGB/RGBW	TBD	123/157 246/314	2 2	2 4				
	TUNABLE	TBD	168 336	1 2	2 4				

[13] *Performance calculations are based on LM-79 test of MAX output at 80 CRI and 4000K. MIN, LOW, MED and HIGH calculations are extrapolated values.*
[14] *Power 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.*
[15] *One or more drivers may be enclosed in each Remote Driver Box. See your final drawing/submittal for details.*
[16] *Applies to 0/10V/S drivers (or DMX for RGB/RGBW). For additional info on other driver models see your final drawing/submittal.*

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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
D6 (MR1.5)	MIN	4500 5050	70 140	1 1	1 2	3	1x Ring	37.5	YES
	LOW	6750 7575	110 220	1 2	1 2				
	MED	9000 10100	147 294	1 2	1 2				
	HI	13500 15150	220 440	2 2	2 4				
	RGB/RGBW	TBD	150/191 300/382	2 2	2 4				
	TUNABLE	TBD	202 404	2 2	3 6				
D7 (MR1.5)	MIN	5250 5900	81 162	2 2	2 2	4	2x Joined Arcs	40.75	NO
	LOW	7900 8850	129 258	2 2	2 2				
	MED	10500 11800	172 344	2 2	2 2				
	HI	15750 17700	257 514	2 2	2 4				
	RGB/RGBW	TBD	174/220 348/440	2/2 2 / N/A	2/4 4 / N/A				
	TUNABLE	TBD	234 468	2 N/A	4 N/A				
D8 (MR1.5)	MIN	6000 6725	93 186	2 2	2 2	4	2x Joined Arcs	50	NO
	LOW	9000 10100	147 294	2 2	2 2				
	MED	12000 13475	196 392	2 2	2 4				
	HI	18000 20200	295 590	2 2	2 4				
	RGB/RGBW	TBD	202/256 404/512	2/2 2 / N/A	2/4 4 / N/A				
	TUNABLE	TBD	270 540	2 N/A	4 N/A				
D10 (MR1.5)	MIN	7500 8425	117 234	4 4	4 4	8	4x Joined Arcs	62.5	NO
	LOW	11250 12625	185 370	4 4	4 4				
	MED	15000 16850	246 492	4 4	4 4				
	HI	22500 25250	369 738	4 4	4 4				
	RGB/RGBW	TBD	240/312 480/624	4 4	2 8				
	TUNABLE	TBD	332 664	4 4	2 8				

[13] *Performance calculations are based on LM-79 test of MAX output at 80 CRI and 4000K. MIN, LOW, MED and HIGH calculations are extrapolated values.*
[14] *Power 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.*
[15] *One or more drivers may be enclosed in each Remote Driver Box. See your final drawing/submittal for details.*
[16] *Applies to 0/10V/S drivers (or DMX for RGB/RGBW). For additional info on other driver models see your final drawing/submittal.*

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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
D12 (MR1.5)	MIN	9000 10100	140 280	4 4	4 4	8	4x Joined Arcs	75	NO
	LOW	13500 15150	222 444	4 4	4 4				
	MED	18000 20200	296 592	4 4	4 4				
	HI	27000 30300	444 888	4 4	4 8				
	RGB/RGBW	TBD	4 4	4 4	2 8				
	TUNABLE	TBD	4 N/A	4 N/A	8 N/A				
D14 (MR1.5)	MIN	10500 11800	163 326	4 4	4 4	8	4x Joined Arcs	87.5	NO
	LOW	15750 17700	259 518	4 4	4 4				
	MED	21000 23575	346 692	4 4	4 4				
	HI	31500 35350	518 1036	4 4	4 8				
	RGB/RGBW	TBD	348/448 696/896	4/4 4 / N/A	2/8 8 / N/A				
	TUNABLE	TBD	472 944	4 N/A	8 N/A				
D16 (MR1.5)	MIN	12000 13500	188 378	4 4	4 4	8	4x Joined Arcs	100	NO
	LOW	18000 20200	298 596	4 4	4 4				
	MED	24000 27000	397 794	4 4	4 8				
	HI	36000 40400	595 1190	4 4	4 8				
	RGB/RGBW	TBD	404/512 808/1024	4/4 4 / N/A	2/8 8 / N/A				
	TUNABLE	TBD	544 1088	4 N/A	8 N/A				

[13]Performance calculations are based on LM-79 test of MAX output at 80 CRI and 4000K. MIN, LOW, MED and HIGH calculations are extrapolated values.
[14]Power 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.
[15]One or more drivers may be enclosed in each Remote Driver Box. See your final drawing/submittal for details.
[16]Applies 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 — MR3[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
D2 (MR3)	MIN	2350 2650	22 44	1 1	1 1	3	1x Ring	13.75	YES
	LOW	3550 3975	35 70	1 1	1 1				
	MED	4725 5300	47 94	1 1	1 1				
	HI	7100 8000	70 140	1 1	1 1				
	RGB/RGBW	TBD	47/59 94/118	1 2	1 2				
	TUNABLE	TBD	64 128	1 1	1 2				
D3 (MR3)	MIN	3550 3975	34 68	1 1	1 1	3	1x Ring	20.75	YES
	LOW	5300 5950	54 108	1 1	1 1				
	MED	7100 7950	72 144	1 1	1 1				
	HI	10625 11925	108 216	1 2	1 2				
	RGB/RGBW	TBD	74/92 148/184	1 2	1 2				
	TUNABLE	TBD	98 196	1 2	2 4				
D4 (MR3)	MIN	4725 5300	46 92	1 1	1 1	3	1x Ring	27.5	YES
	LOW	7100 7950	73 146	1 1	1 1				
	MED	9450 10625	97 194	1 2	1 2				
	HI	14200 15925	145 290	1 2	1 2				
	RGB/RGBW	TBD	101/126 202/252	1/2 2/2	1/2 2/4				
	TUNABLE	TBD	133 266	1 2	2 4				
D5 (MR3)	MIN	5900 6625	58 116	1 1	1 1	3	1x Ring	35	YES
	LOW	8900 9950	92 184	1 1	1 1				
	MED	11800 13275	122 244	1 2	1 2				
	HI	17700 19900	183 366	1 2	1 2				
	RGB/RGBW	TBD	123/157 246/314	2 2	2 4				
	TUNABLE	TBD	168 336	1 2	2 4				

[13] *Performance calculations are based on LM-79 test of MAX output at 80 CRI and 4000K. MIN, LOW, MED and HIGH calculations are extrapolated values.*
[14] *Power 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.*
[15] *One or more drivers may be enclosed in each Remote Driver Box. See your final drawing/submittal for details.*
[16] *Applies to 0/10V/S drivers (or 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.)[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	3	1x Ring	41.25	YES
	LOW	10625 11925	110 220	1 2	1 2				
	MED	14200 15925	147 294	1 2	1 2				
	HI	21300 23900	220 440	2 2	2 4				
	RGB/RGBW	TBD	150/191 300/382	2 2	2 4				
	TUNABLE	TBD	202 404	2 2	3 6				
D7 (MR3)	MIN	8300 9275	81 162	2 2	2 2	4	2x Joined Arcs	44.75	NO
	LOW	12400 13925	129 258	2 2	2 2				
	MED	16550 18575	172 344	2 2	2 2				
	HI	24800 27850	257 514	2 2	2 4				
	RGB/RGBW	TBD	174/220 348/440	2/2 2 / N/A	2/4 4 / N/A				
	TUNABLE	TBD	234 468	2 N/A	4 N/A				
D8 (MR3)	MIN	9450 10600	93 186	2 2	2 2	4	2x Joined Arcs	55	NO
	LOW	14200 15900	147 294	2 2	2 2				
	MED	18900 21225	196 392	2 2	2 4				
	HI	28350 31850	295 590	2 2	2 4				
	RGB/RGBW	TBD	202/256 404/512	2/2 2 / N/A	2/4 4 / N/A				
	TUNABLE	TBD	270 540	2 N/A	4 N/A				
D10 (MR3)	MIN	11800 13250	117 234	4 4	4 4	8	4x Joined Arcs	68.75	NO
	LOW	17700 19900	185 370	4 4	4 4				
	MED	23600 26550	246 492	4 4	4 4				
	HI	35500 39800	369 738	4 4	4 4				
	RGB/RGBW	TBD	240/312 480/624	4 4	2 8				
	TUNABLE	TBD	332 664	4 4	2 8				

[13]Performance calculations are based on LM-79 test of MAX output at 80 CRI and 4000K. MIN, LOW, MED and HIGH calculations are extrapolated values.
[14]Power 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.
[15]One or more drivers may be enclosed in each Remote Driver Box. See your final drawing/submittal for details.
[16]Applies to 0/10V/S drivers (or 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.)[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
D12 (MR3)	MIN	14200 15900	140 280	4 4	4 4	8	4x Joined Arcs	82.5	NO
	LOW	21300 23850	222 444	4 4	4 4				
	MED	28350 31850	296 592	4 4	4 4				
	HI	42500 47775	444 888	4 4	4 8				
	RGB/RGBW	TBD	4 4	4 4	2 8				
	TUNABLE	TBD	4 N/A	4 N/A	8 N/A				
D14 (MR3)	MIN	16550 18550	163 326	4 4	4 4	8	4x Joined Arcs	96.25	NO
	LOW	24800 27850	259 518	4 4	4 4				
	MED	33100 37150	346 692	4 4	4 4				
	HI	49600 55725	518 1036	4 4	4 8				
	RGB/RGBW	TBD	348/448 696/896	4/4 4 / N/A	2/8 8 / N/A				
	TUNABLE	TBD	472 944	4 N/A	8 N/A				
D16 (MR3)	MIN	18900 21200	188 378	4 4	4 4	8	4x Joined Arcs	110	NO
	LOW	28350 31825	298 596	4 4	4 4				
	MED	37800 42475	397 794	4 4	4 8				
	HI	56700 63700	595 1190	4 4	4 8				
	RGB/RGBW	TBD	404/512 808/1024	4/4 4 / N/A	2/8 8 / N/A				
	TUNABLE	TBD	544 1088	4 N/A	8 N/A				

[13]Performance calculations are based on LM-79 test of MAX output at 80 CRI and 4000K. MIN, LOW, MED and HIGH calculations are extrapolated values.
[14]Power 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.
[15]One or more drivers may be enclosed in each Remote Driver Box. See your final drawing/submittal for details.
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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	✓	✓	✓			✓	✓	✓

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.

ADDITIONAL OPTIONS & SPECIFICATIONS

LENS

Direct: Extra diffused opal acrylic lens (LENS).
Indirect: Extra diffused opal acrylic lens (LENS) OR clear high transmission lens (HT).

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

SENSOR OPTIONS

Optional, occupancy detection (OS) and/or daylight harvesting (PS) sensor available. Or upgrade to an optional Enlighted® Smart Sensor (ENLGHT) for additional capabilities. Contact ALW for details.

FINISH

Brushed Aluminum | White* | Black | Silver | Brass | RAL Classic

For healthcare environments, a white antimicrobial finish (WH/AM) is also available.