

APPENDIX

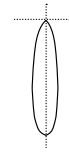


LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LIGHT SOURCE	INPUT (W)	OUTPUT (LM)	CCT (K)	COUNT	NOTES
RR1	LARGE CIRCULAR PENDANT IN CUPOLA	FLOS	F0408030	LED	54	2751	3000	1	TYPE F0418030 MOUNTING
RR2	SMALL CIRCULAR PENDANT IN CUPOLA	FLOS	F0407030	LED	35	1770	3000	1	TYPE F0418030 MOUNTING
RR3	LARGE GLOBE PENDANT	FLOS	F3176059	LED	17	2000	3000	18	
RR4	SMALL GLOBE PENDANT	FLOS	F3175059	LED	10	900	3000	12	
RR5	GLOBE WALL SCONCE MOUNTED AT 7'	FLOS	F3179059	LED	17	2000	3000	12	
RR6	6" RECESSED LINEAR WITH FLUSH LENS	FOCAL POINT	FSM6L-FL-625LF-30K-1C- UNV-LD1	LED	31	625 LF	3000	28	
RR7	WALL WASH SLOT	FOCAL POINT	FWSL-FL-250LF-30K-1C- UNV-LD1	LED	3.75 LF	450 LF	3000	394'	
RR8	4' 30X60 ACCENT LINEAR	LUMENPULSE	LOGN-4W-48V-48-DWH- 30X60-CL-X	LED	16	938	3000	20	ALSO USED IN FAÇADE DESIGN.
RR9	GLOBE TABLE LAMP (FOR TASK)	PABLO	BOLA-SPH-TBL-12BRA	LED BULB (DIMMABLE)	9.5	800	3000	24	
L1	2" ADJUSTABLE DOWNLIGHT, 20 DEG	GOTHAM	ICO2ADJ-30/02-WR-FL-TFC- LD-20D-120	LED	3	249	3000	16	
L2	BRASS PENDANT OVER DESK	TECH LIGHTING	700MDP3-C-R-R	LED	44	1430	3000	2	
L3	1" RECESSED LINEAR WITH FLUSH LENS	FOCAL POINT	FSM1-FL-125LF-30K-1C- UNV-LD1	LED	1.5 LF	125 LF	3000	208'	ALSO USED IN SPECIAL COLLECTIONS DESIGN.
L4	FIBER OPTIC STAR CEILING KIT (SINGLE DIODES)	UNLIMITED LIGHT	XLS336	LED	75 (TOTAL)	50 (APPROX.)	3000	64 (1 KIT)	
T1	1" RECESSED COLOR CHANGE LINEAR	ALCON	12100-10-R-RGBW-4- RGBW30K-RTL-WH-DMX	LED	2 LF	77.5 LF (WHITE), 46.25 LF (RGBW)	3000	384'	
T2	8X8 COLOR CHANGING LINEAR	LUMENPULSE	LOGNH-4W-48V-48-RGBW- 8X8-HFR-WH	LED	4 LF	181 LF	3000	40'	
T3	WALL WASH COLOR CHANGING LINEAR	LUMENPULSE	LOGN-4W-48V-48-RGBW- WW-FR-WH	LED	4 LF	181 LF	3000	84'	
C1	60" QUARTER RING DIRECT/INDIRECT PENDANT	ALW	MR1.5-RQ60-SS-MIN-80- 3500K	LED	58	1875/2100	3500	3	
C2	36" QUARTER RING DIRECT/INDIRECT PENDANT	ALW	MR1.5-RQ36-SS-MIN-80- 3500K	LED	34	1125/1275	3500	9	
C3	30" QUARTER RING DIRECT/INDIRECT PENDANT	ALW	MR1.5-RQ30-SS-MIN-80- 3500K	LED	28	950/1050	3500	3	
C4	25" QUARTER RING DIRECT/INDIRECT PENDANT	ALW	MR1.5-RQ24-SS-MIN-80- 3500K	LED	22	750/850	3500	3	
C5	SURFACE-MOUNTED 48" QUARTER RING	ALW	LP1/MR1SMB-Q48-3500K	LED	23	1150	3500	23	
C6	SURFACE-MOUNTED 36" QUARTER RING	ALW	LP1/MR1SMB-Q36-3500K	LED	17	860	3500	14	
C7	SURFACE-MOUNTED 25" QUARTER RING	ALW	LP1/MR1SMB-Q25-3500K	LED	11	600	3500	33	
S1	LARGE DIRECT / INDIRECT CHANDELIER	TECH LIGHTING	700ARL-55-B-LED930	LED	47	2999	3000	6	
S2	WOOD PENDANT LAMP	NORMAN COPENHAGEN	N/A	LED BULB (DIMMABLE)	9	800	3000	4	

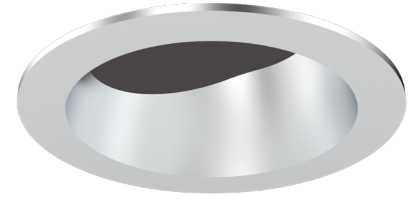
LIGHTING POWER DENSITY CALCULATIONS

SPACE	FLOOR AREA	TOTAL WATTS	LPD	LPD Req	Met?	<i>Reading Room</i>	<i>Lobby</i>	<i>Theater</i>	<i>Commons</i>	<i>Special Collections</i>	<i>Façade (wall)</i>	<i>Façade (entry)</i>
READING ROOM	12563.76	3612.5	0.28753335	1.06	YES	54	48	768	174	282	64	96
LOBBY	1973.42	523	0.26502214	0.9	YES	35	88	160	306	36		
THEATER	1765.75	1264	0.71584313	0.73	YES	306	312	336	84	72		
COMMONS	3553.43	1760	0.49529609	0.98	YES	120	75		66			
SPECIAL COLLECTIONS	1095.02	390	0.35615788	1.05	YES	204			529			
FAÇADE (WALL)	801.08	64	0.07989215	0.15	YES	868			238			
FAÇADE (ENTRY)	1130.43	96	0.08492344	0.4	YES	1477.5			363			
						320						
						228						
						3612.5	523	1264	1760	390	64	96



High Center Beam Round Adjustable Downlight

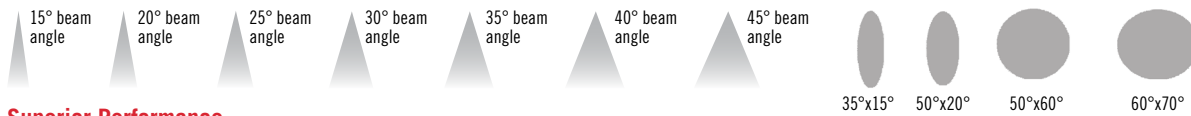
2"



Feature Set

- Eleven optimized distribution patterns allow designers to achieve tailored objectives
- Vertical tilt is self-locking from 0° - 40°; 365° of horizontal rotation. Can be hot aimed from below ceiling.
- Field interchangeable optic
- Driver and LED light engine fully serviceable from below ceiling
- 70% lumen maintenance at 60,000 hours
- 2.5 SDCM; 85 CRI typical, 90+ CRI optional
- Fixtures are wet location, covered ceiling
- ENERGY STAR® Certified product

Distribution



Superior Performance

Nominal lumens	250	500	750	1000	1500	2000
Delivered	249	530	812	1113	1668	2106
Wattage	3.1	5.6	8.6	12.0	19.7	28.4
Efficacy	80	95	94	93	85	74

*Based on 3500K 80CRI 15D AR LSS TFC @0 Degrees

Coordinated Apertures | Multiple Layers of Light



General Illumination Layer | EVO



High Center Beam Layer | Incito



EVO + Incito — Multiple Layers of Light

Core



Downlight



Adjustable



Open Wallwash



Lensed Wallwash



Cylinder



Pinhole



Bevel



Hyperbolic

Healthcare



MRI



Surgical Suite



Patient Room

Special Applications



Dynamic



Food Service



Vandal/Tamper



Clean Room



Shower



Steam Room



A+ Capable options indicated by this color background.



Design2Ship Quick Ship Program: Options in green text qualify for Design2Ship — 5 business days from order entry to ship. Refer to Design2Ship Brochure for complete program details. **Maximum Order Quantity: 50 units.**

Luminaire Type:

Catalog Number:

EXAMPLE: IC02ADJ 35/10 AR T20 LSS 20D MVOLT UGZ

Series	Color Temperature	Lumens	Reflector Color	Flange Type
IC02ADJ Incito 2in Round Adjustable Downlight	27/ 2700 K	02 250 lumens	AR Clear	(blank) Self-flanged
	30/ 3000 K	05 500 lumens	PR Pewter	FL Flangeless
	35/ 3500 K	07 750 lumens	WTR Wheat	
	40/ 4000 K	10 1000 lumens	GR Gold	
	50/ 5000 K	15 1500 lumens	WR ² White painted	
		20 2000 lumens	BR ² Black	
			BZR ² Dark Bronze painted	

Type	Reflector Finish	Lensing	Beam	Voltage
TFC Flat Cut Trim to allow tilting 0°-40°	LSS Semi-specular	(blank) Open	15D 15° beam angle	MVOLT 120V - 277V
T20³ Angle Cut Trim to allow tilting 0°-23°	LD Matte diffuse	SOL³ Solite pattern lens	20D 20° beam angle	120 120V
T40³ Angle Cut Trim to allow tilting 20°-40°			25D 25° beam angle	277 277V
			30D 30° beam angle	
			35D 35° beam angle	
			40D 40° beam angle	
			45D 45° beam angle	
			3515D Elliptical 35° x 15° beam angle	
			5020D Elliptical 50° x 20° beam angle	
			5060D Elliptical 50° x 60° beam angle	
			6070D Elliptical 60° x 70° beam angle	

Driver	Control Interface ⁶	Options
UGZ⁴ Universal dimming to 1% (0-10V, 120V TRIAC or ELV)	(blank)	90CRI¹ High CRI (90+)
EC00⁵ Lutron® EcoSystem® digital Hi-Lume <1% soft-on, fade to black. Min: 500LM; Max: 1500LM	NLT nLight® dimming pack.	NCH⁸ Structural reinforcement pan
	NLTER⁷ nLight® dimming pack for fixtures on emergency circuit	ICAT⁹ IC/Airtight housing construction
	NLTAIR2 nLight® AIR dimming pack.	CP⁹ Chicago Plenum
	NLTAIRER2⁷ nLight® AIR dimming pack for fixtures on emergency circuit	HAQ¹⁰ High ambient (40°C)
	NLTAIREM2 nLight® AIR dimming pack for fixtures on emergency circuit	N80¹³ nLight Lumen Compensation
		TRW¹¹ White painted flange
		TRBL¹² Black painted flange
		WL¹⁴ Wet Location

ACCESSORIES — order as separate catalog numbers (shipped separately)

IC020PTC XXD	Additional optics for field installation. Replace "XX" with beam angle.
IC020PTC KIT	Kit including a field interchangeable optic for each of the 13 preset beam distribution patterns
HS258	2-5/8" Hole saw
HS234FL	Hole saw for flangeless trim option
SDT 347/120 75VA	347V/120V, 75VA step down transformer. Must be remote mounted.
AW50	Allen wrench (.050") for adjusting tilt

ORDERING NOTES

- 5000K CCT not available with 90CRI.
- Not available with Reflector Finish.
- SOL lens requires TFC trim.
- Refer to [Tech 240](#) for compatible dimmers.
- Not available with Control Interfaces (nLight). Not compatible with spray foam with 1000LM, 1500LM, or 2000LM options.
- Field installed. Access required to location of remote mounted device.
- ER for use with generator supply power. Will require an emergency hot feed and normal hot feed.
- NCH is required for T-grid ceilings or where code requires.
- Not available with 1500lm or 2000lm.
- Not available with 2000lm.
- For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not available with WR (White Reflector). Not available with FL.
- For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not available with BR (Black Reflector). Not available with FL.
- Requires NLT or NLTER.
- WL requires a lens (e.g. SOL).

Optical and Trim Assembly

Fully serviceable and upgradeable lensed LED light engine suitable for field maintenance or service from above or below the ceiling.

Flangeless trim option includes proprietary Gotham mud ring enabling seamless integration into drywall applications. Mud ring ships separately. Superior 100% Virgin-silicone refractive optic, enables maximum dimensional stability and optical transmission with no discoloration over life. Field inter-changeable optics.

Electrical

The luminaire shall operate from a 50 or 60 Hz ± 3 Hz AC line over a voltage ranging from 120 VAC to 277 VAC. Support 347V via remote-mounted stepdown transformer. The fluctuations of line voltage shall have no visible effect on the luminous output.

The luminaire shall have a power factor of 90% or greater at all standard operating voltages and full luminaire output.

Sound Rated A+. Driver shall be >80% efficient at full load across all input voltages.

Controls

Luminaire shall be equipped with interface for nLight wired or nLight AIR networks with integral power supply as per specification.

Dimming

The luminaire shall be capable of continuous dimming without perceivable stroboscopic flicker as measured by flicker index (ANSI/IES RP-16-10) over a range of 100 – 1.0% of rated lumen output with a smooth shut off function to step to 0%.

Driver is inaudible in 24dB environment, and stable when input voltage conditions fluctuate over what is typically experienced in a commercial environment.

Construction

Light engine and driver are accessible from below ceiling.

Several additional mounting options available including a structural reinforcement pan, Chicago plenum, and Type IC.

Anodized extruded aluminum wiring compartment with hinged access. With two 1/2" trade-sized knockouts rated for 90°C.

Accommodates between 1/2" to 3/4"-thick ceilings.

Listings

Fixtures are UL Certified to meet US and Canadian Standards: All fixtures manufactured in strict accordance with the appropriate and current requirements of the "Standards for Safety" to UL, wet location covered ceiling. ENERGY STAR® Certified product.

IC rated with ICAT option. Fixtures with ICAT option are compatible with spray foam insulation with an R-value of 4.3 per inch or less.

Luminaire configurations are Energy Star certified through testing in EPA-recognized laboratories, with the results reviewed by an independent, accredited certification organization. Visit www.energystar.gov for specific configurations listed

Photometrics

LEDs tested to LM-80 standards. Measured by IESNA Standard LM-79-08 in an accredited lab. Lumen output shall not decrease by more than 30% over the minimum operational life of 60,000 hours.

Color appearance from luminaire to luminaire of the same type and in all configurations, shall be consistent both initially and at 6,000 hours and operate within a tolerance of <2.5 MacAdam ellipse as defined by the center of the quadrangles defined in ANSI C78.377-2015.

Warranty

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions

Note:

Actual performance may differ as a result of end user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background*
- This luminaire is part of an A+ Certified solution for nLight® control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

Lumen Output Multiplier		
CRI	CCT	Multiplier
80	2700K	0.910
	3000K	0.946
	3500K	1.000
	4000K	1.027
	5000K	1.054
90	2700K	0.784
	3000K	0.847
	3500K	0.874
	4000K	0.946

Reflector Finish Multiplier	
Reflector Finish	Multiplier
LSS - Semi Specular	1.00
LD - Matte Diffuse	1.06
Reflector Color	Multiplier
WR - White	1.05
BR - Black	0.65
BZR - Bronze	0.61
AR - Clear	1.00
GR - Gold	0.93
PR - Pewter	0.98
WTR - Wheat	0.99

Driver		Control Provided				
Nomenclature	Description	NLT	NLTER	NLTAIR2	NLTAIREM2	NLTAIRER2
UGZ	0-10V driver dims to 1%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V EM G2	RPP20 D 24V ER G2

Marked Spacing in Inches 25°C Ambient			
Lumen Package	Fixed Center to Center MIN	Fixture Center to Building Member MIN	Space Above Fixture
2000	18	9	3
1500 (HAQ)	18	9	3

*Dimensions in inches [centimeters]

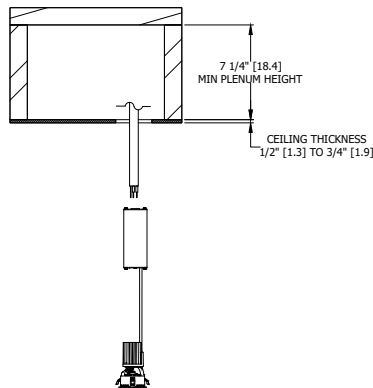
Aperture: 2-1/4" [5.7]

Ceiling Opening: 2-5/8" [6.7] self-flanged

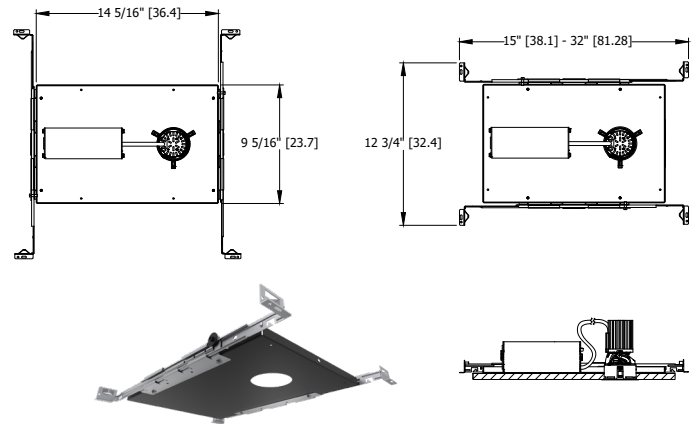
Overlap Trim: 3" [7.6]

2-3/4" [7] flangeless

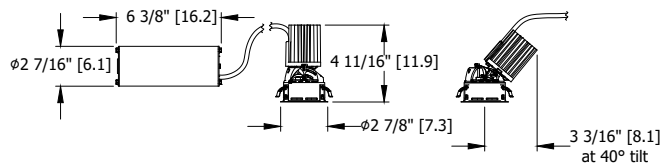
Recessed Application - Minimum Clearance Requirements



Structural Reinforcement Pan



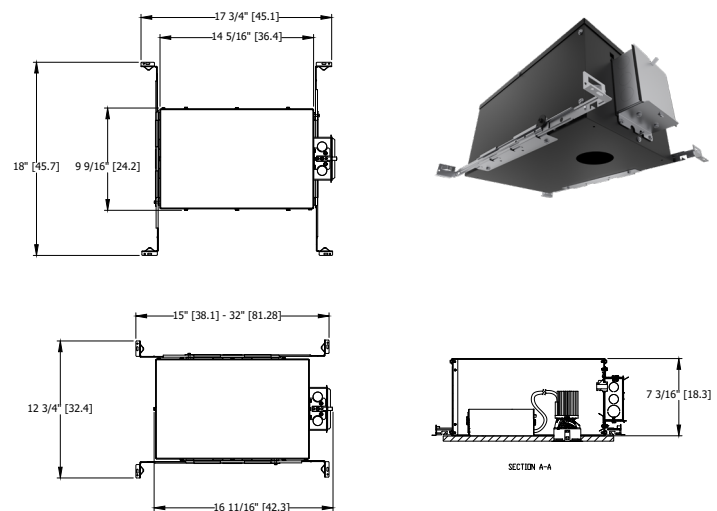
1500 Lumen and Below Install-from-Below Construction



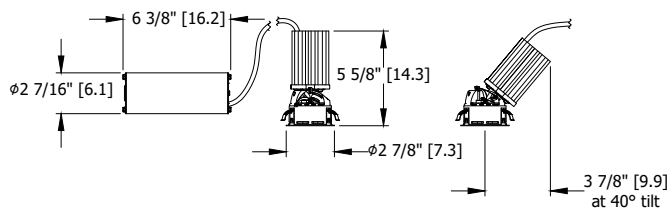
Ceiling cutout: $\phi 2 \frac{5}{8}$ " [6.7]
Flex conduit length: 16" [40.6]
Ceiling thickness range: 1/2" [1.3] to 3/4" [1.9]



IC / Airtight Housing / Chicago Plenum Construction



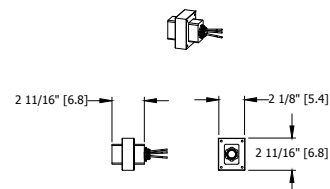
2000 Lumen or High Ambient Option Install-from-Below Construction



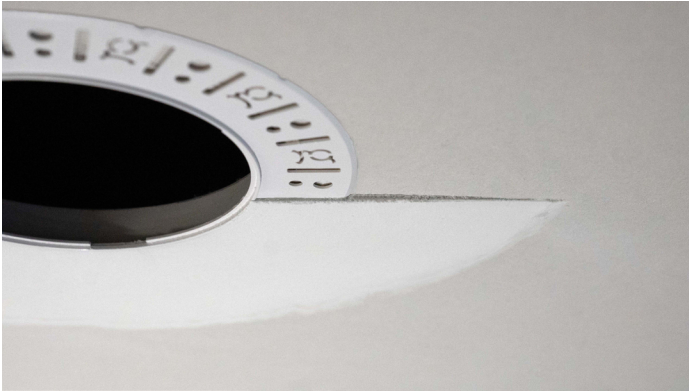
Ceiling cutout: $\phi 2 \frac{5}{8}$ " [6.7]
Flex conduit length: 16" [40.6]
Ceiling thickness range: 1/2" [1.3] to 3/4" [1.9]



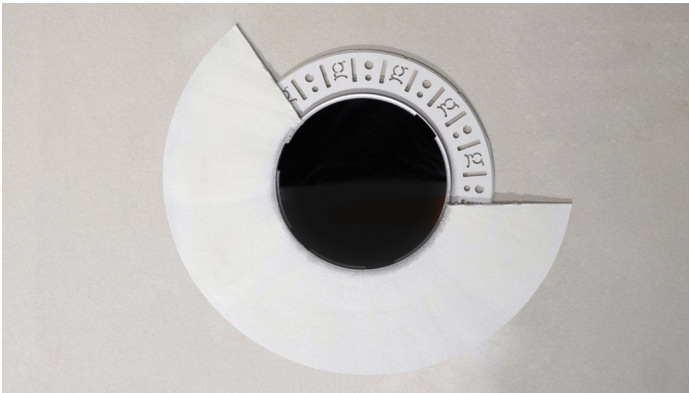
347V Transformer



347 Transformer:
Install to accessible
junction box by others



Partially finished mud ring, showing cross-section detail.



An ICO downlight requires only approximately 3" of plaster to finish.



ICO with flangeless trim

Flangeless Installation

Gotham's flangeless option utilizes a micro-thin polymer mud ring that minimizes the amount of drywall compound required to finish the ceiling. The end result is a virtually undetectable flangeless downlight installation.

The polymer mud ring is installed independent of the of the recessed frame, therefore floating with the ceiling. This innovation minimizes any surface cracks during reflector installation, ceiling movement and any future service to the recessed frame, wiring, electronics, etc.

nLight® AIR is the ideal solution for retrofit or new construction spaces where adding communication wiring is cost prohibitive. The integrated nLight AIR rPP20 Power Pack is part of each EVO Luminaire ordered with the NLTAIR option. These individually addressable controls offer the ultimate in flexibility during initial setup and for space repurposing.

nLight® AIR Control Accessories

Order as separate catalog number. Visit [nLight AIR](#).

Wall Switches

Model Number	
On/Off single pole	rPODB (color) G2
On/Off two pole	rPODB 2P (color) G2
On/Off & raise/lower single pole	rPODB DX (color) G2
On/Off & raise/lower two pole	rPODB 2P DX (color) G2

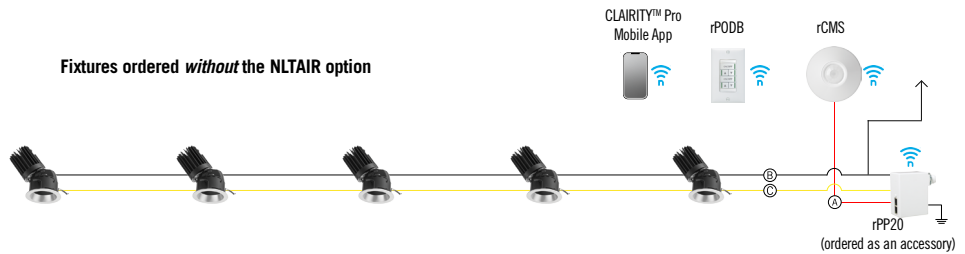
nLight® AIR Control Accessories (cont.)

Occupancy Sensors (PIR/dual tech)

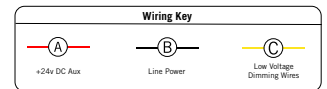
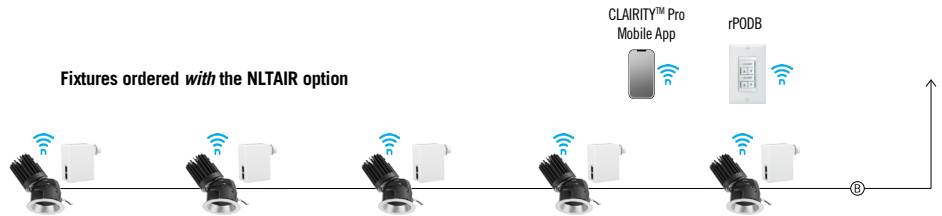
Model Number	
Small motion 360°, ceiling	rCMS 9 / rCMS PDT 9
Large motion 360°, ceiling	rCMS 10 / rCMS PDT 10

Possibilities for nLight® AIR

Fixtures ordered *without* the NLTAIR option



Fixtures ordered *with* the NLTAIR option



nLight® Wired The nLight® solution is a digital networked lighting control system that provides both energy savings and increased user configurability by cost effectively integrating time-based, daylight-based, sensor-based and manual lighting control schemes.

nLight® Wired Control Accessories

Order as separate catalog number. Visit [nLight](#).

Wall Switches

Model Number	
On/Off single pole	nPODM (XX)
On/Off two pole	nPODM 2P (XX)
On/Off & raise/lower single pole	nPOD DX (XX)
On/Off & raise/lower two pole	nPODM 2P DX (XX)
Graphic touchscreen	nPOD GFX (XX)

Photocell Controls

Dimming	nCM ADCX
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nLight® Wired Control Accessories (cont.)

Occupancy Sensors (PIR/dual tech)

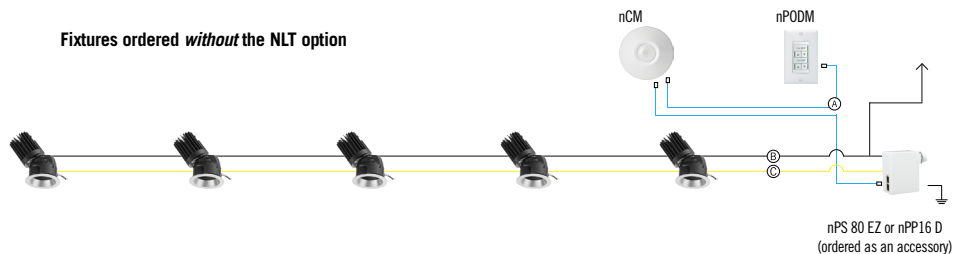
Model Number	
Small motion 360°, ceiling	nCM 9 / nCM PDT 9
Large motion 360°, ceiling	nCM 10 / nCM PDT 10
Wide View	nWV 16 / nWV PDT 16
Wall switch with raise/lower	nWSX LV DX / nWSX PDT LV DX

Cat-5 Cables (plenum rated)

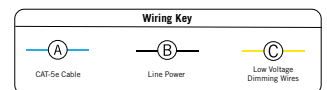
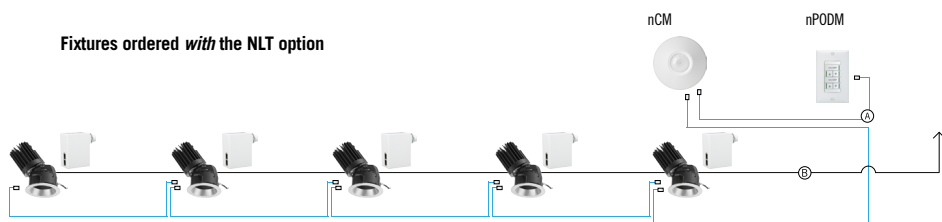
10', CAT5	CAT5 10FT J1
15', CAT5	CAT5 15FT J1

Possibilities for nLight® wired

Fixtures ordered *without* the NLT option



Fixtures ordered *with* the NLT option



AERIAL 55 CHANDELIER

PRODUCT FEATURES

- Arched rods support cylindrical LED heads which produce up and down light
- Available in matte black and aged brass finishes in two sizes, 40" and 55" diameter
- Larger 60" diameter Aerial chandelier available
- Can be installed on a sloped ceiling up to 45°
- Lamping options are compatible with most dimmers
- Protected by a 5-year warranty. please visit the "About Us" Page on techlighting.com for more for warranty details

LAMPING

Includes 120 volt 47.19 watts, 2999 total delivered lumens, 3000K LED modules. Dimmable with most LED compatible ELV and TRIAC dimmers. Ships with (4) 12in and (2) 6in rigid stems in coordinating finish. Can be installed on a sloped ceiling up to 35°.



Matte Black



Aged Brass

Matte Black

ORDERING INFORMATION

700ARL	LENGTH (A)	FINISH	LAMP
	55 55"	R AGED BRASS B MATTE BLACK	-LED930 INTEGRATED LED 90 CRI 3000K 120V (T20/T24)

700ARL _____

JOB NAME _____

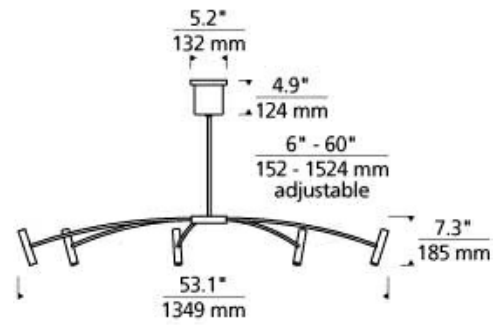
NOTES _____



AERIAL 55 CHANDELIER

SPECIFICATIONS

HARDWARE MATERIAL	Metal
SHADE MATERIAL	Aluminum
NET WEIGHT	10 lbs
HEIGHT	7in
WIDTH	53.1in
LENGTH	53.1in
UP LIGHT / DOWN LIGHT / BOTH?	
WET LISTED	
DAMP LISTED	Yes
DRY LISTED	
MIN. HANGING HEIGHT	17.9in
MAX HANGING HEIGHT	71.9in
TOTAL CORD LENGTH	
TOTAL STEM LENGTH	Up to 60in
STEM QTY	6
SLOPED CEILING ADAPTABLE?	Yes 35° Max
GENERAL LISTING	ETL Listed
INCLUDES	



LAMPING SPECIFICATIONS

	LED LAMP	INTEGRATED LED	NON LED	NO LAMP
DELIVERED LUMENS		2999		
WATTS		2.4		
MAX WATTAGE PER BULB		47.19W		
INPUT VOLTAGE		120V		
DIMMING TYPE*		ELV, TRIAC		
CCT		3000K		
CRI		90 CRI		
LED LIFETIME				
L70		>50000		
AVERAGE BULB HOURS				
FIELD SERVICEABLE LED				
LAMP BASE		Integrated LED		
LAMP SHAPE		Integrated LED		
LAMP INCLUDED?		Y		
WARRANTY**		5 Years		

* Dimming information available at www.techlighting.com/Downloads#dimming

** Visit techlighting.com for specific warranty limitations and details.

T20 / T24 INFORMATION

	Integrated LED	Replacement LED Lamp	No Lamp *
This product can be used to comply with California Building Energy Efficiency Standards 2016 Title 24 Part 6.	Yes		
This product can be used to comply with California Appliance Efficiency Standards 2016 Title 20 and may be shipped to and sold in California.	N/A		

* If a light fixture or component does not include a lamp or light source, it is the responsibility of the customer to select a lamp that meets the T24 and T20 requirements.



MODERNRAIL PENDANT

PRODUCT FEATURES

- Elegant ModernRail style in a convenient pendant size
- Classic Aged Brass finish adds charm and style
- Customizable using frosted opal glass globes or cylinders
- Ideal for both residential and commercial application
- Fully dimmable integrated LED light source
- 1-year warranty with no lamping option. 5-year warranty with LED lamping option

LAMPING

Ships with (8) 24 volt, 3 watt, 44.2 total watts, 1430.3 total delivered lumens) 3000K, integrated LED modules. Dimmable with most LED compatible ELV and TRIAC dimmers. Ships with (2) 6" stems and (4) 12" stems in coordinating finish. Remote Power Supply version T24.



Glass Cylinders



ORDERING INFORMATION

700MDP3	COLOR	FINISH	LAMP
	C GLASS CYLINDERS	R AGED BRASS	R 24V REMOTE CANOPY (T24)
	G GLASS ORBS		S 24V SURFACE CANOPY

700MDP3

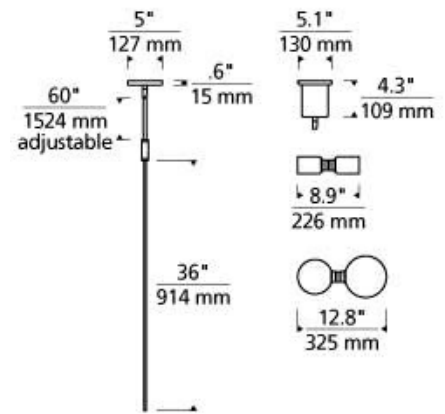
JOB NAME

NOTES

MODERNRAIL PENDANT

SPECIFICATIONS

HARDWARE MATERIAL	Metal
SHADE MATERIAL	Glass
NET WEIGHT	5.5 lbs
HEIGHT	36in
WIDTH	8.9in
LENGTH	8.9in
UP LIGHT / DOWN LIGHT / BOTH?	
WET LISTED	
DAMP LISTED	Yes
DRY LISTED	
MIN. HANGING HEIGHT	42in
MAX HANGING HEIGHT	96in
TOTAL CORD LENGTH	
TOTAL STEM LENGTH	Up to 60in
STEM QTY	6
SLOPED CEILING ADAPTABLE?	Yes 35° Max
GENERAL LISTING	ETL Listed
INCLUDES	



LAMPING SPECIFICATIONS

	LED LAMP	INTEGRATED LED	NON LED	NO LAMP
DELIVERED LUMENS		1430.3		
WATTS		44.2		
MAX WATTAGE PER BULB		44.2W		
INPUT VOLTAGE		120V		
DIMMING TYPE*		ELV, TRIAC		
CCT		3000K		
CRI		90 CRI		
LED LIFETIME				
L70		>50000		
AVERAGE BULB HOURS				
FIELD SERVICEABLE LED				
LAMP BASE		Integrated LED		
LAMP SHAPE		Integrated LED		
LAMP INCLUDED?		Y		
WARRANTY**		5 Years		

* Dimming information available at www.techlighting.com/Downloads#dimming

** Visit techlighting.com for specific warranty limitations and details.

T20 / T24 INFORMATION

	Integrated LED	Replacement LED Lamp	No Lamp *
This product can be used to comply with California Building Energy Efficiency Standards 2016 Title 24 Part 6.	Yes		
This product can be used to comply with California Appliance Efficiency Standards 2016 Title 20 and may be shipped to and sold in California.	N/A		

* If a light fixture or component does not include a lamp or light source, it is the responsibility of the customer to select a lamp that meets the T24 and T20 requirements.



Seem® 1

LED RECESSED



L3



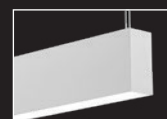
flush lens



pop-down lens



wall to ceiling
companion



suspended
companion

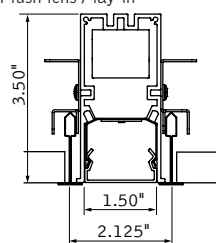


wall mount
companion

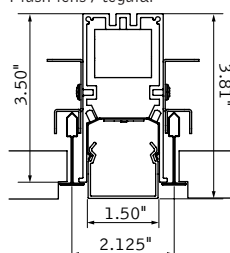
DIMENSIONAL DATA

9/16" Grid

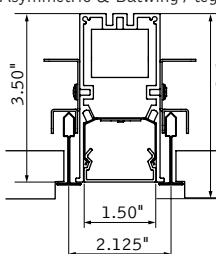
Flush lens / lay-in



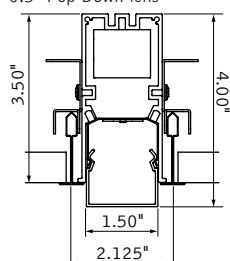
Flush lens / tegular



Asymmetric & Batwing / tegular



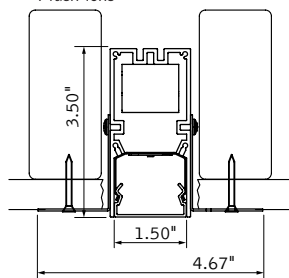
0.5" Pop-Down lens



Note: 15/16" tee spacing 2.50" on center

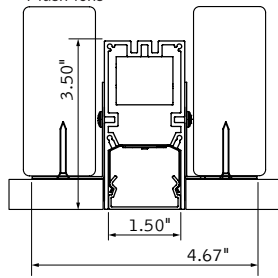
Trimless mud-in

Flush lens



Hard surface/wood

Flush lens



Note: 0.375" min-1.625" max ceiling thickness
Consult factory for thicker ceilings.

FEATURES

Narrow extruded aluminum 1.5" recessed linear slot LED with Asymmetric, Batwing and Pop-Down lens options.

Individual units and continuous runs in 1" increments.

Frosted acrylic lens provides uninterrupted illumination, without pixels or shadows.

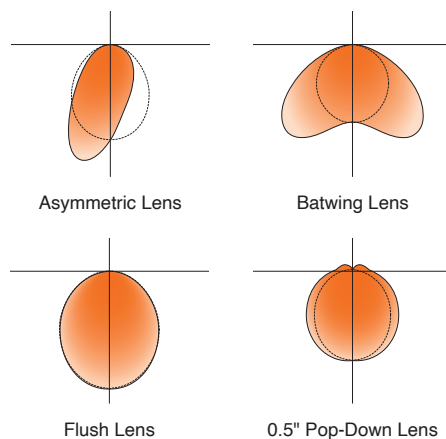
LED position and lens material optimized to provide the perfect blend of high performance and visual comfort.

Choice of output levels to meet a wide variety of application needs.

Preferred Light: Lighting for better color rendition and human preference.

PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

DISTRIBUTIONS

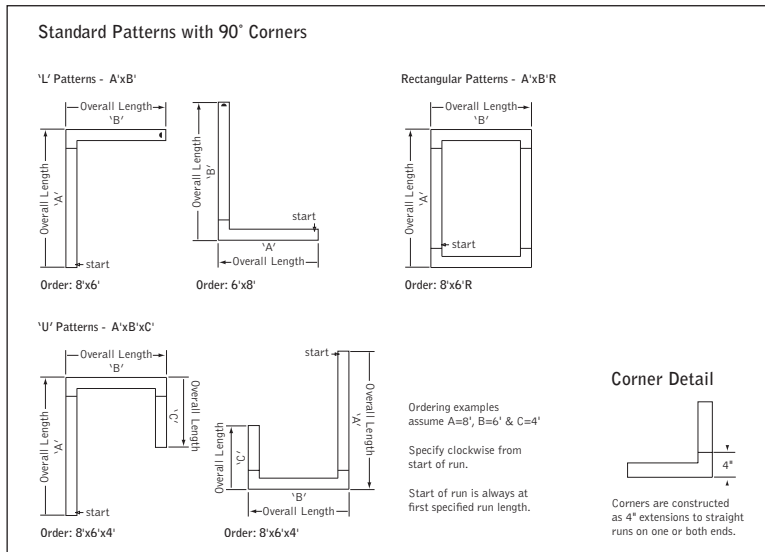


Photometric performance is measured in accordance with IESNA LM-79.
Visit focalpointlights.com for complete photometric data.

fixture:

project:

DETAILS



SPECIFICATIONS

LED System

Proprietary linear LED module incorporates premium LEDs on a robust platform to achieve excellent thermal management. LEDs are placed to promote a uniform appearance. Available in 3000K, 3500K or 4000K with both 80 and 90 CRI options. 3500K and 4000K with CRI>90 have a cyanosis observation index (COI) of 3.3 or less. LED modules and drivers are replaceable from below. Color accuracy <3 SDCM.

Construction

One piece extruded aluminum housing. 20 Ga. steel end caps. Housing for new construction applications. XFW acceptable for use with wood, consult factory for Type IC availability. 8' unit weight: 15lbs.

Optic

Reflectors fabricated of 22 Ga. steel finished in High Reflectance White powder coat. Extruded acrylic lens .07" thick with frosted finish, up to 8' continuous. 15-30" recommended distance from wall for Asymmetric Lens (AS).

Electrical

Luminaires are pre-wired with factory installed branch circuit wiring and over-molded quick connects. Standard 120-277V constant current driver includes 0-10V analog dimming. Power factor > .9. PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires. PoE runs require an independent PoE node and power feed for each luminaire section.

Emergency Battery

Emergency output - 10 watts for 90 minutes. See EM/EC Guide for default locations and ordering details.

Labels

UL and cUL listed. Suitable for Dry or Damp Locations, indoor use only.

Finish

Polyster powder coat applied over a multi-stage pre-treatment.

Lumen Maintenance

Reported: L70 at >61,000 hours Calculated: L70 at 470,000 hours
L90 at >61,000 hours L90 at 115,000 hours
Derived from EPA TM-21 calculator. Based on typical conditions, consult factory for additional data.

Reliability

At Focal Point, our products are designed to stand the test of time. Each luminaire is engineered using superior components, manufactured with the utmost care and rigorously tested. Contact us for reliability data.

Warranty

LED system rated for operation in ambient environments up to 25°C. 5-year limited warranty.

4' PERFORMANCE CHART

See page 3.

ORDERING

Luminaire Series

Seem 1 LED FSM1

Shielding

Asymmetric Lens AS

Batwing Lens BW

Flush Lens FL

0.5" Pop-Down Lens PD05
(Not available with Tegal ceiling configurations)

Lumen Output

125 Lumens per foot 125LF
(4' minimum length. Consult factory for Lutron, DALI)

250 Lumens per foot 250LF
(3' minimum length)

375 Lumens per foot 375LF

500 Lumens per foot 500LF

625 Lumens per foot 625LF

Color Temperature

3000K, 80+ CRI or 90+ CRI 30K or 930K

3500K, 80+ CRI or 90+ CRI 35K or 935K

4000K, 80+ CRI or 90+ CRI 40K or 940K

3500K, Preferred Light P35K

Circuit

Single Circuit 1C

Voltage

120/277 UNV Volt UNV

347 Volt 347
(LD1 driver only)

Low Voltage LV

Control System & Dimming Level

0-10V - 10% Dimming LD1

0-10V - 1% Dimming L11

Low Voltage, PoE compatible LVN
(No driver. Not available with EM or EC. LV Voltage only.)

Lutron Hi-Lume EcoSystem (LDE1) -

1% Dimming LH1

Lutron 5-Series EcoSystem (LDE5) -

5% Dimming LU5

DALI 1% Dimming D11

Ceiling Configuration

Std. 15/16" Lay-in G1

Std. 15/16" Tegal T1

Std. 9/16" Lay-in G2

Std. 9/16" Tegal T2

9/16" Slot-tee Tegal G3

Tall 15/16" Lay-in G4

Tall 15/16" Tegal T4

Tall 9/16" Lay-in G5

Tall 9/16" Tegal T5

Node 9/16" Tegal T6

Mud-in Trimless XFF

Non-Drywall Hard Surface XFN

Hard Surface, Wood XFW

Factory Options

Chicago Plenum CP

Emergency Circuit _EC

Emergency Battery Pack _EM

(4' minimum length. See EM/EC Guide for default locations and ordering details.)

6' New York City Flex Whip (120V) FNY1

6' New York City Flex Whip (277V) FNY2

6' Flex Whip FW

Finish

Matte White Housing WH

Luminaire Length

Specify luminaire/row length _ft _in
in 1" increments

(2' minimum, lengths are nominal 1" increments based on T-centers. Housing length is 1" shorter than specified. Leave blank for patterns. Smaller increments available, consult factory.)

Pattern Options

(3' minimum length)

'L' pattern A' x B'

'U' pattern A' x B' x C'

Rectangular pattern A' x B' R

(Consult factory for other pattern options)



10 DAY*

Options in orange qualify for the Quickship program. 1000' total, 48' maximum per pattern section. Refer to Quickship Guide for complete details including EM/EC options.

L3

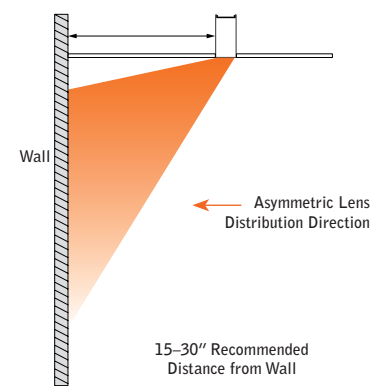
FSM

4' PERFORMANCE CHART

			Lumens Per Watt (LPW)			
Lumen Output	Delivered Lumens	Tested System Watts				
			AS	BW	FL	PD05
125LF	500	6	82	81	75	76
250LF	1000	10	105	98	98	99
375LF	1500	15	110	103	104	105
500LF	2000	19	114	106	106	107
625LF	2500	24	110	103	103	100

Based on 3500K, 4' length. Lumen multipliers: Preferred Light = 0.65, 90 CRI = 0.87.
Delivered lumens may vary +/- 5%. Actual wattage may vary +/- 5%

DIRECT ASYMMETRIC
Standard Application Example





Create a luxurious starry night almost anywhere

Create a starry night on your bedroom, bathroom or any room in the house by using our fiber optic star ceiling kit on your ceiling.

Consisting of mixed diameter fiber for a 'near + far' effect, each fiber optic star kit comes with small acrylic fittings for a neat finish in the ceiling or chosen material. Unlike other systems on the market, these fittings allow for the fiber to pass all the way through, maintaining the preferred intense star effect achieved when the fiber end is exposed while covering up any ragged edges from the drill hole. Alternatively, drill 1mm holes in the ceiling and just use the fibers on their own for an intense point of light.

These fiber optic kits are usually installed in:

- Ceilings – access is required from above, or fibers can be installed into a section of
- MDF or plasterboard in a new ceiling prior to it being elevated and lifted into place;
- Drapes – pierce the material and apply silicone to the back;
- Tiling – tails can be installed in grout between tiles.

Our Standard Kit contains:-

Harness

Illuminator

End Fittings

Full installation guide



Unlimited Light offer 3 standard tungsten halogen illuminators in these kits - 35W, 50W, 75W. Alternatively, upgrade to one of our new MicroLED illuminators. These tiny but powerful boxes combine the efficiency of LED with amazing color changing effects. The MicroLED 4000 also offer full remote control with fingertip access to any static color or color cycle effect.



35W, 50W or 75W tungsten halogen unit with 1 plug. As standard these illuminators output continuously changing colours. The colorwheel can be removed to allow for static white light output.



The MicroLED range, available as an optional upgrade. MicroLED 1000, with built in controls to control color selection and effects. Dimensions: 5.2" (L) x 3.8" (W) x 2.6" (H) MicroLED 4000, with full remote control over colors and effects. Dimensions: 5.4" (L) x 4.5" (W) x 2.9" (H)



Fiber optic harness - This will be supplied with tail lengths from 1.25m to 7.5m depending upon the kit you choose. The harness is made of mixed diameter fiber - 0.75mm and 1.0mm - to give a near and far effect.



Star bullet lenses are supplied with these kit. These can be fitted on the fiber ends for decorative effect or to hide unevenly drilled holes

Name	Standard Illuminator	Number of Tails	Length	Power Supply	Tungsten Halogen Illuminator Dimensions
SS112	35W	112 tails	4.1' - 6.56' (1.25m - 2.0m)	One 110v power supply	(L)7.1" x (W)3.9" x (H)4.1"
SS112+1	35W	112 tails	7.4' - 9.8' (2.25m - 3.0m)	One 110v power supply	(L)7.1" x (W)3.9" x (H)4.1"
MS168	50W	168 tails	6.6' - 9.8' (2.0m - 3.0m)	One 110v power supply	(L)11.3" x (W)6.1" x (H)4.7"
LS224	75W	224 tails	3.28' - 14.8' (1.0m - 4.5m)	One 110v power supply	(L)11.3" x (W)6.1" x (H)4.7"
XLS336	75W	336 tails	6.56' - 24.6' (2.0m - 7.5m)	One 110v power supply	(L)11.3" x (W)6.1" x (H)4.7"



Arrangements Round Large

by Michael Anastassiades , 2018

Diffuse light suspended lighting device. Body in extruded, curved NC-machined and black powder-coated aluminium, diffuser in platinum optical silicone.

Each component can be connected to the power pack by means of an electrical and mechanical connection system designed for customisable product set-up.

Roses available with two powers: lamp with power under 70W and lamp with power under 190W. Class III roses also available for installations with remote power supply: "surface" version for installations on cement, "recessed" version for plasterboard ceilings.

The electronics integrated in the rose enables use of dimming systems: push, 1-10, potentiometer, DALI. In the absence of these systems, the light flow can be set with the push system included in the rose.

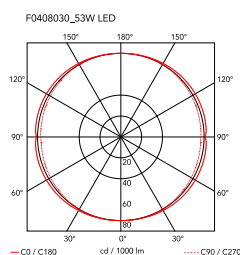
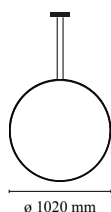
Cable length 2.4m



Mounting	Pendant
Environment	Indoor
Weight	1.3 Kg
Light sources available	1 x FLEX STRIP LED 54W 2751lm 2700K CRI90 [i]
Emergency	Without
Voltage	48V
Power	54W
Battery	No
Supply included	No

Cord Length	2400 mm
Materials	Aluminum

Colors ● F0408030 - Black



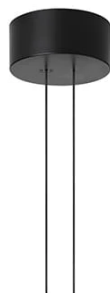
Arrangements Round Large

by Michael Anastassiades , 2018

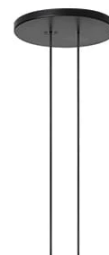
RR1/2



F0415030
Big Rose-MAX190W



F0416030
Small Rose-MAX70



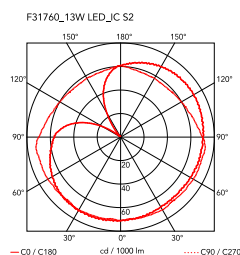
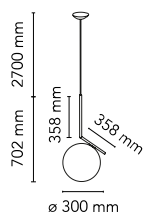
F0418030
Recessed Rose-MAX190W

IC Lights Suspension 2

by Michael Anastassiades , 2014



Suspension lamp providing diffused light. Frame in brass, brushed and transparent varnished or chrome steel. Blown glass opal diffuser.



Mounting	Pendant
Environment	Indoor
Weight	3.9 Kg
Light sources available	1 x RF26259 LED 18W E27 2700K [e] 1900lm Dimmable 1 x RF26258 LED 18W E27 3000K [e] 2000lm Dimmable 1 x RF28665 LED 15W E27 2700K [e] 2000lm Dimmable 1 x RF28666 LED 15W E27 3000K [e] 2000lm Dimmable

Emergency	Without
Voltage	220-250V
Power	MAX 205W
Battery	No
Supply included	No

Cord Length 2700 mm

Materials Blown glass, Brass, Steel

Colors	F3176035 - Red burgundy F3176030 - Black F3176057 - Chrome F3176059 - Brushed Brass
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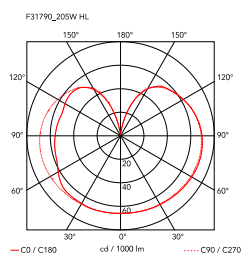
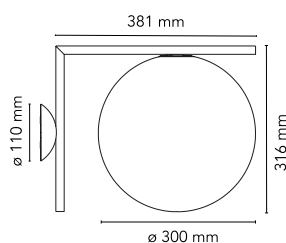


IC Lights Ceiling/Wall 2

by Michael Anastassiades , 2014



Wall-ceiling lamp providing diffused light. Frame in brass, brushed and transparent varnished or chrome steel. Blown glass opal diffuser.



Mounting	Ceiling and wall
Environment	Indoor
Weight	3.7 Kg
Light sources available	1 x RF26259 LED 17W E27 2700K [e] 1900lm Dimmable 1 x RF26258 LED 17W E27 3000K [e] 2000lm Dimmable 1 x RF28665 LED 15W E27 2700K [e] 2000lm Dimmable 1 x RF28666 LED 15W E27 3000K [e] 2000lm Dimmable

Emergency	Without
Voltage	220-250V
Power	MAX 205W
Battery	No
Supply included	No

Materials	Blown glass, Brass, Steel
------------------	---------------------------

Colors	F3179035 - Red burgundy F3179030 - Black F3179057 - Chrome F3179059 - Brushed Brass
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Certificate	
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FIXTURE SPECIFICATIONS

INTENDED USE

The integrated color-changing LED lightstrip has a 1-inch lens aperture width and is available in standard lengths of 2-foot, 4-foot, 6-foot, 8-foot and custom cuts. Our commercial-grade product with dimmable light via Android or iOS application or optional controls can be joined in seamless runs of any length. This 24-voltage lightstrip offers direct downlight secured in a military-grade, field-cutable aluminum channel.

PRODUCT FAMILY

12100-10-P | Pendant

12100-10-S | Surface

12100-10-R | Recessed

12100-10-LR | Low-Profile Recessed

12100-10-PR | Perimeter Recessed

12100-10-PR-RGBW | Perimeter Recessed RGBW

FEATURES

Construction: Durable military grade aluminum, field cutable can be installed in any drywall thickness

LED Driver: Remote non-dimming transformer is provided home run required at every 16'

Beam Angle: 120°

Lens: Glare-free snap-in frosted acrylic for even distribution

Shape Design: Fixture profile can be miter cut—in the field—to achieve desired shape design

Finish: Matte White

Voltage: 24V DC Constant Voltage

Lumens: 310 lms (White) | 185 lms (RGB)

Dimming: Light is Dimmable via iOS/Android Application or Optional Controls

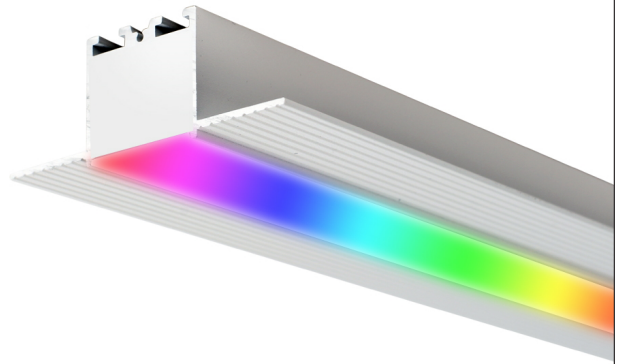
WiFi Controls: RF-WiFi: IOS or Android Lightpad App;

DMX-WiFi: IOS or Android WiFi 104 App available

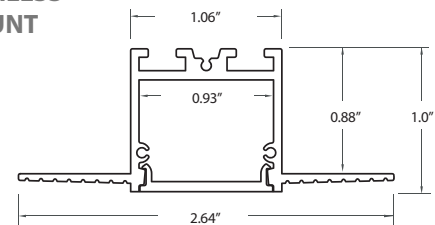
Life: 50,000 Hours

Warranty: 5 Years Carefree for Parts & Components (Labor Not Included)

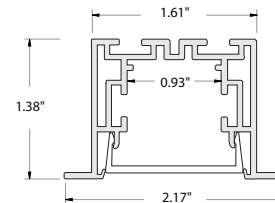
Listings: cUL Listed, Title 24 Certified, Wet Location (LED Component Only)



TRIMLESS MOUNT



T-BAR & FLANGE MOUNT



ORDERING INFORMATION Example: (12100-10-R-RGBW-2-RGBW27K-RTL-RF)

Model	Length Wattage	Color Temp	Mount Type	Flange Finish ¹	Options
12100-10-R-RGBW Recessed RGBW	2 2 Foot 10 Watts	RGBW27K RGB + 2700K	RTL Trimless	WH White	WL Wet Location IP65
	4 4 Foot 20 Watts	RGBW30K RGB + 3000K	RT T-Bar	BK Black	RF RF White Remote Control
	6 6 Foot 30 Watts	RGBW40K RGB + 4000K	RF Flanged	SL Silver	RF-WiFi RF with WiFi White Remote Control
	8 8 Foot 40 Watts	RGBW50K RGB + 5000K			DMX White Wall Control
	XX Custom Length Replace XX with Length in Feet				DMX-W-WiFi DMX with WiFi White Wall Control
					DMX-B-WiFi DMX with WiFi Black Wall Control

¹ Not required for Trimless

RGBW CONTROLS



RF Remote Control

Size: L x W x H (5.7" x 2.2" x 0.8")



RF Remote Control + WiFi

Size: L x W x H (5" x 2.9" x 1.7")

Lightpad App



iOS + Android



DMX Wall Control

Size: L x W x H (5.20" x 7.09" x 1.38")



DMX Wall Control + WiFi

Size: L x W x H (5.75" x 4.17" x 0.43")

WiFi-104



iOS + Android

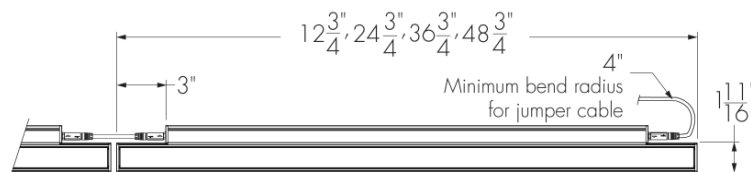
COLOR TEMPERATURE

COLOR TEMPERATURE GUIDE

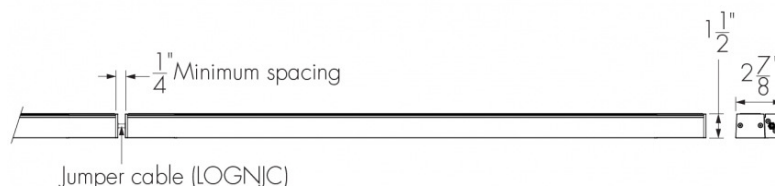
2700K WARM WHITE friendly personal intimate HOMES LIBRARIES RESTAURANTS ✓	3000K SOFT WHITE GLOW soft warm pleasing HOMES HOTEL ROOMS LOBBIES RETAIL STORES ✓	3500K NEUTRAL GLOW sociable inviting non-threatening EXECUTIVE OFFICES RECEPTION AREAS SUPERMARKETS ✗	4000K DAYLIGHT GLOW neat clean efficient OFFICES CLASSROOMS MASS MERCHANDISERS SHOWROOMS ✓	5000K CRYSTAL WHITE GLOW bright cool alert GRAPHICS INDUSTRY HOSPITALS GALLERIES BEAUTY SALONS ✓
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Project Name _____ Qty _____

Type _____ Catalog / Part Number _____



Top view



Front and side views

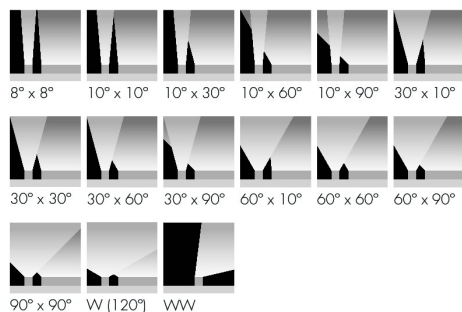
Photometric Summary

4ft, RGBW full output, DMX/RDM	Delivered output (lm)*	Intensity (peak cd)*
8°x8°	868	23,462
10°x10°	826	18,305
10°x30°	814	5,178
10°x60°	810	2,761
10°x90°	808	1,447
30°x10°	816	5,162
30°x30°	802	1,851
30°x60°	778	1,172
30°x90°	783	847
60°x10°	809	3,204
60°x60°	785	581
60°x90°	780	699
90°x90°	767	474
W (120°)	490	N/A
WW	865	4,195

Photometric performance is measured in compliance with IESNA LM 79-08.

*Estimated. Consult website for the latest IES and LDT files.

Optics



Description

The Lumenfacade Nano Horizontal Color Changing is a high-efficiency linear LED luminaire with a slim profile that makes it easy to conceal and integrate into architectural facades. Available in 12 in, 24 in, 36 in or 48 in sections, the Lumenfacade Nano Horizontal Color Changing can be configured with a wide number of options, including: optics for grazing, floodlighting, or wall washing; RGB, RGBW or RGBA color mixing; various mounting options, finishes and controls. The Lumenfacade Nano Horizontal Color Changing is also available with a unique asymmetric distribution, providing exceptional uniformity and brightness for walls and signage.

Features

Color and Color Temperature	Additive RGB, Additive RGB + white 4000K, Additive RGB + amber
Optics	8° x 8°, 10° x 10°, 10° x 30°, 10° x 60°, 10° x 90°, 30° x 10°, 30° x 30°, 30° x 60°, 30° x 90°, 60° x 10°, 60° x 60°, 60° x 90°, 90° x 90°, Wide 120°, Asymmetric Wallwash
Options	Corrosion-resistant coating for hostile environments
Power Consumption	4 W/ft
Warranty	5-year limited warranty

Performance

Delivered Output	724 lm (48 in fixture, RGB full output, 8° x 8°, UCTL), 868 lm (48 in fixture, RGBW full output, 8° x 8°, UCTL), 748 lm (48 in fixture, RGBA full output, 8° x 8°, UCTL)
Delivered Intensity	19,566 cd at nadir (48 in fixture, RGB full output, 8° x 8°, UCTL), 23,462 cd at nadir (48 in fixture, RGBW full output, 8° x 8°, UCTL), 20,211 cd at nadir (48 in fixture, RGBA full output, 8° x 8°, UCTL)
Illuminance at Distance	Minimum 1 fc at 153 ft (48 in fixture, RGB full output, 8° x 8°, UCTL), Minimum 1 fc at 168 ft (48 in fixture, RGBW full output, 8° x 8°, UCTL), Minimum 1 fc at 156 ft (48 in fixture, RGBA full output, 8° x 8°, UCTL)

Colors and Color Temperatures**Controls**

UCTL

Ratings

IP66 IK08

Certifications

Lumen Maintenance	L70 >90,000 hrs
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Physical

Housing Material	Low copper content extruded aluminum
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Lens Material	Clear tempered glass
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Hardware Material	Stainless steel
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End Cap Material	Machined aluminum
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Gasket Material	Silicone
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Surface Finish	Electrostatically applied polyester powder coat
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Weight	1.5 lbs (12 in), 3.2 lbs (24 in), 4.8 lbs (36 in), 6.5 lbs (48 in)
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Electrical and control

Voltage	48 VDC
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Resolution (DMX/RDM)	Per foot or per fixture (configured with LumenID V3 software), 8-bit or 16-bit, 3 channels (RGB) or 4 channels (RGBW, RGBA)
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RGB Color Mixing	12 LEDs per 12 in (4x Red, 4x Green, 4x Blue)
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RGBW Color Mixing	12 LEDs per 12 in (3x Red, 3x Green, 3x Blue, 3x White)
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RGBA Color Mixing	12 LEDs per 12 in (3x Red, 3x Green, 3x Blue, 3x Amber)
--------------------------	---

Control	Universal control (compatible with DMX/RDM or DALI-2 Type 8 systems)
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Environmental

Storage Temperature	-40 °F to 185 °F (device must reach start-up temperature value before operating)
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Start-up Temperature	-13 °F to 122 °F
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Operating Temperature	-40 °F to 122 °F
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Ingress Protection Rating	IP66
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Impact Resistance Rating	IK08 (IK09 for 48 in fixtures)
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Accessories (order separately)

Cables	Lumenfacade Nano Jumper Cable, Trunk Power Cable, Trunk Data Cable, Lumenfacade Nano Jumper Cable Joiner
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Control Boxes	Low-Voltage Control Box, Low-Voltage Splitter Box
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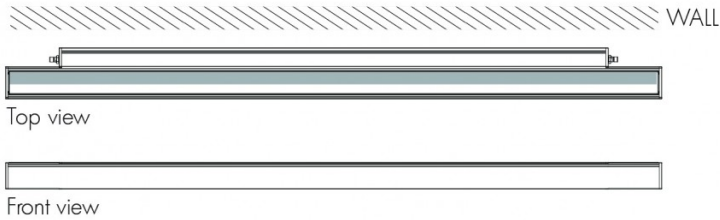
Optical Accessories	Lumenfacade Nano Visor
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Control Systems	Lumentone™ 2, Pharos® kit
------------------------	---------------------------

Diagnostic and Addressing Tools	LumenID
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Optical option installation details

HFR - Half-frosted lens



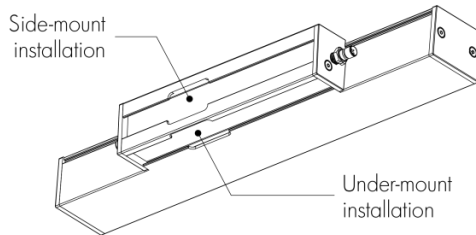
- Always position frosted side toward the wall.
- Applicable for 8° x 8°, 10° x 10° or asymmetric wallwash optics only.

WW - Asymmetric wallwash

Recommended setback from wall is 1/10 of the wall height.

Example: 2 ft setback for a 20 ft wall.

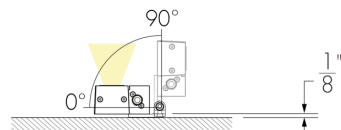
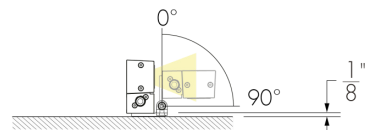
Mounting points



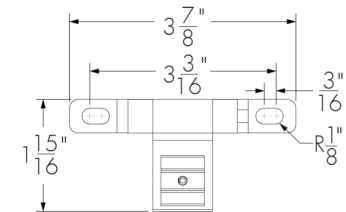
Mounting options

One mounting bracket provided for 12 in fixtures. Two mounting brackets provided for 24 in, 36 in and 48 in fixtures. See installation instructions for details.

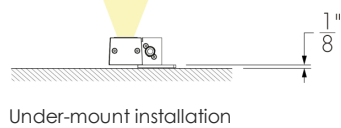
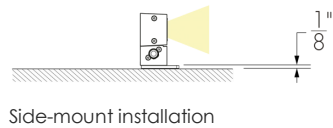
SAMNH - Slim Adjustable Mounting Nano Horizontal



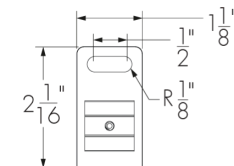
SAMNH - Mounting hole pattern



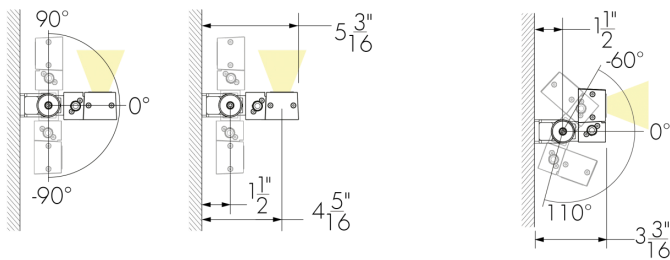
UMPNH - Fixed Mounting Nano Horizontal



UMPNH - Mounting hole pattern



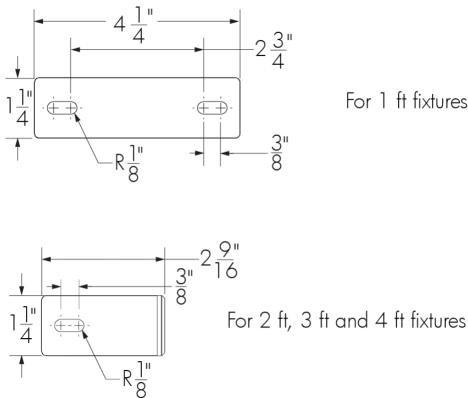
UMASNH - Universal Adjustable Mounting Nano



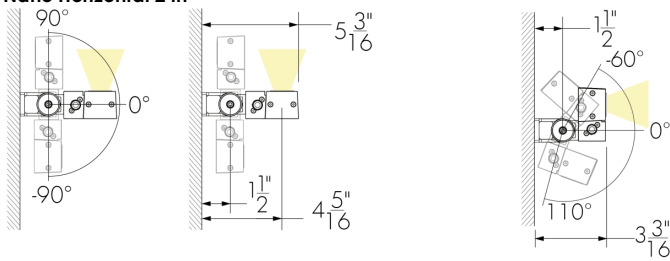
Side-mount installation

Under-mount installation

UMASNH - Mounting hole pattern



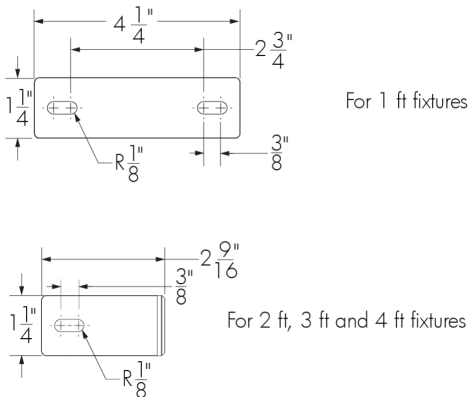
WAMNH2 - Adjustable Extended Arm Mounting Nano Horizontal 2 in



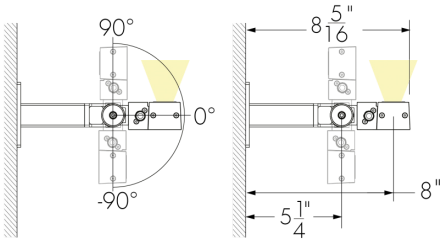
Side-mount installation

Under-mount installation

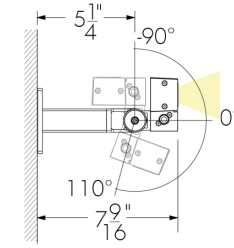
WAMNH2 - Mounting hole pattern



WAMNH6 - Adjustable Extended Arm Mounting Nano Horizontal 6 in

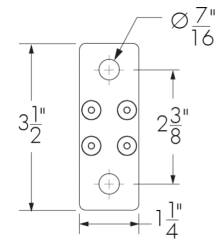


Side-mount installation

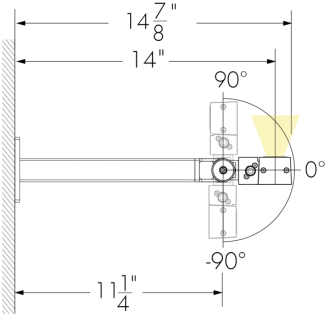


Under-mount installation

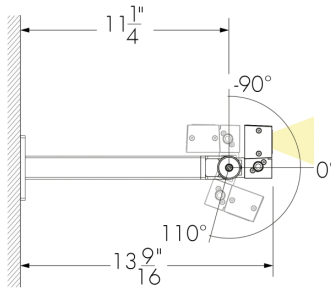
WAMNH6 - Mounting hole pattern



WAMNH12 - Adjustable Extended Arm Mounting Nano Horizontal 12 in

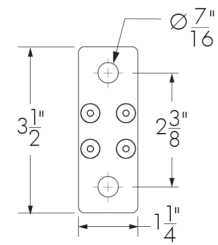


Side-mount installation

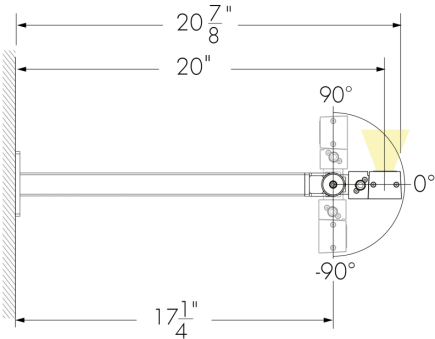


Under-mount installation

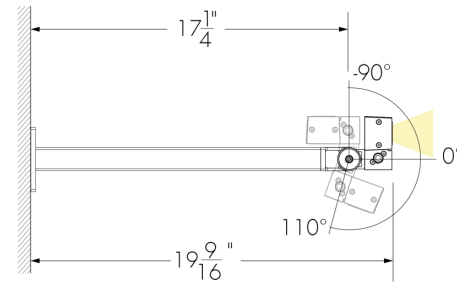
WAMNH12 - Mounting hole pattern



WAMNH18 - Adjustable Extended Arm Mounting Nano Horizontal 18 in

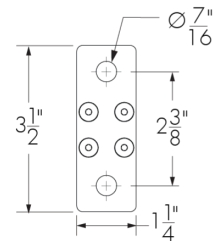


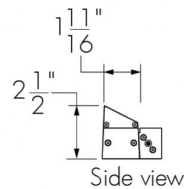
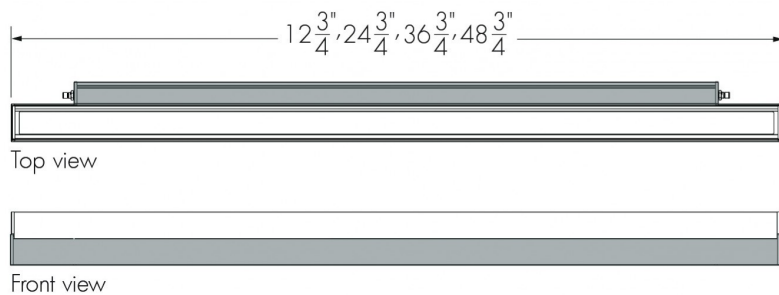
Side-mount installation



Under-mount installation

WAMNH18 - Mounting hole pattern

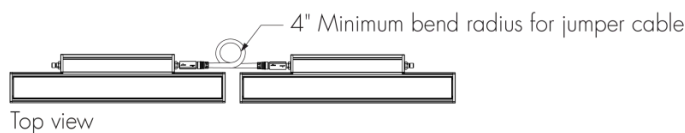


Optical accessories (order separately)**LOGNVS - Visor for Lumenfacade Nano****LOGNVS-LENGTH-FINISH-OPTIONS**

Please specify:

LENGTH: 12 in, 24 in, 36 in or 48 in; **FINISH:** BK - Black Sandtex®, BRZ - Bronze Sandtex®, SI - Silver Sandtex®, WH - Smooth white or CC - custom color and finish (please specify RAL color); **OPTIONS:** CRC - Corrosion-resistant coating for hostile environments

- The addition of a visor will affect beam distribution. Consult factory for application support.
- Not suitable for wide 120° optic.
- Maximum one accessory per fixture. Visors are field installable.

Cables (order separately)**LOGNJC - Jumper cable for Lumenfacade Nano**

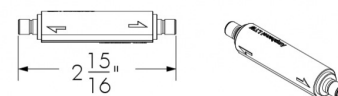
For minimal spacing between fixtures, use a 1 ft jumper cable.

LOGNJC-CERTIFICATION-LENGTH-CABLE COLOR

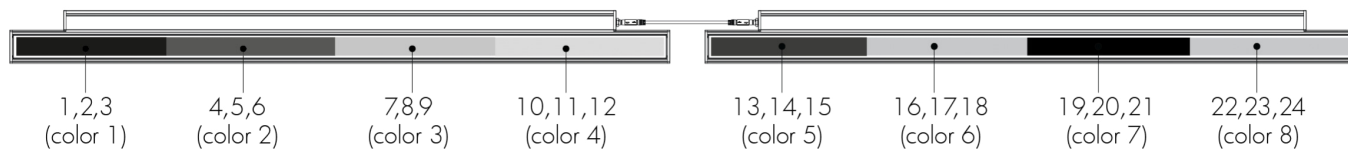
Please specify:

CERTIFICATION: UL or CE; **LENGTH:** 1 ft to 30 ft (available in 1 ft increments) or 50 ft; **CABLE COLOR:** black or white (connectors are the same color as the specified cable color).

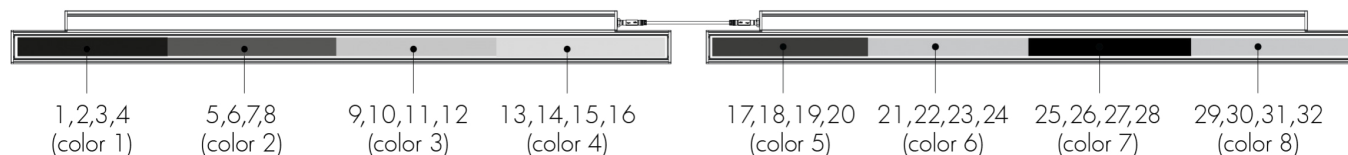
- Suitable for dimming/data and non-dimming applications.
- Consult Lumenfacade Nano jumper cable specification sheet for all available cable lengths and additional information.

Joiner (order separately)**LOGNJC-JOINER - Joiner for Lumenfacade Nano Jumper Cable**

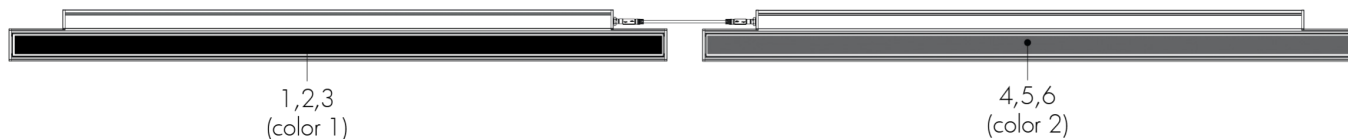
- Use joiners to connect and lengthen jumper cables.
- Joiners add voltage drops. Consult factory to confirm impact on run length.
- Available in black.

Resolution details**DMX/RDM control, resolution per foot: each 12 in section is addressed independently****DMX addresses:**

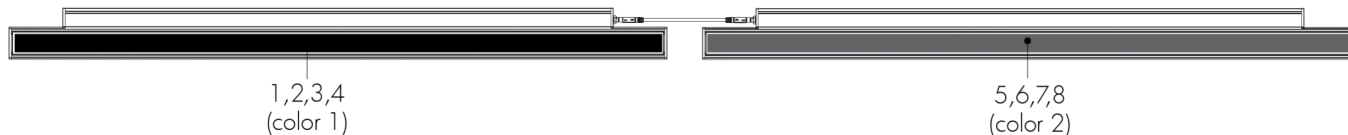
UCTL control option, RGB color mixing option.



UCTL control option, RGBW and RGBA color mixing options.

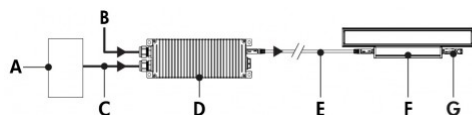
DMX/RDM control, resolution per fixture: each fixture is addressed independently**DMX addresses:**

UCTL control option, RGB color mixing option.

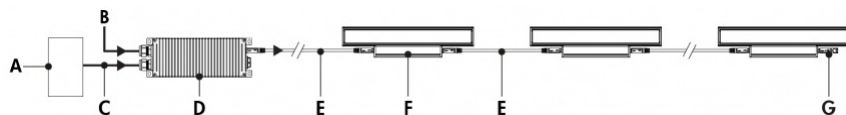


UCTL control option, RGBW, RGBA color mixing options.

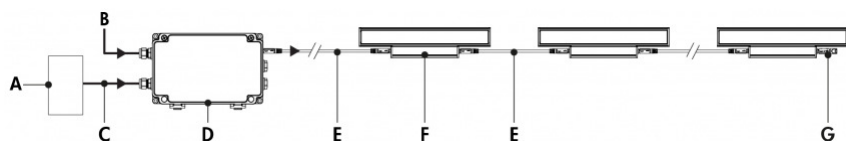
- 48 in fixtures shown.
- Fixture resolution can be configured on-site within the LumenID V3 software. A DMX/RDM enabled LCBX or DMX/RDM LSBX is required for DMX/RDM control.

Typical wiring diagrams**UCTL - Universal control****Single unit - LCBX 60W**

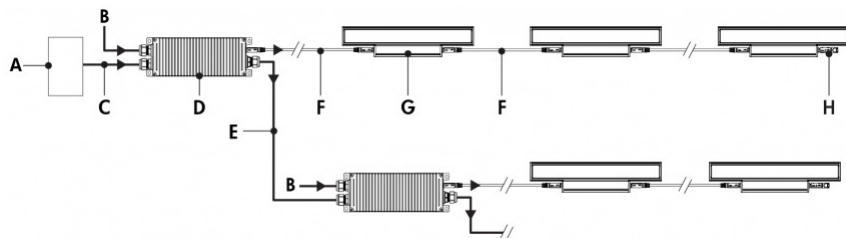
- A** - Controller (order separately from Lumenpulse, or by others)
- B** - Power input (120-277V, wiring by others)
- C** - Data input (wiring by others)
- D** - LCBX (60W)
- E** - Jumper cable (LOGNJC)
- F** - Lumenfacade Nano Horizontal
- G** - Terminator cap

Continuous run - LCBX 60W or 120W

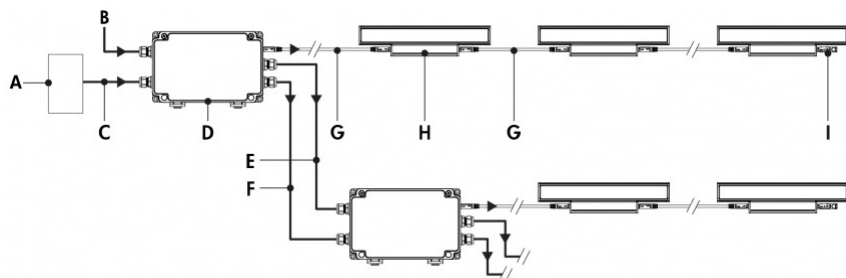
- A** - Controller (order separately from Lumenpulse, or by others)
- B** - Power input (120-277V, wiring by others)
- C** - Data input (wiring by others)
- D** - LCBX (60W or 120W)
- E** - Jumper cable (LOGNJC)
- F** - Lumenfacade Nano Horizontal
- G** - Terminator cap

Continuous run - LCBX 200W

- A** - Controller (order separately from Lumenpulse, or by others)
- B** - Power input (120-277V, wiring by others)
- C** - Data input (wiring by others)
- D** - LCBX (200W)
- E** - Jumper cable (LOGNJC)
- F** - Lumenfacade Nano Horizontal
- G** - Terminator cap

**Continuous run - Daisy chain
LCBX 60W or 120W**

- A** - Controller (order separately from Lumenpulse, or by others)
- B** - Power input (120-277V, wiring by others)
- C** - Data input (wiring by others)
- D** - LCBX (60W or 120W)
- E** - Data output to next LCBX (wiring by others)
- F** - Jumper cable (LOGNJC)
- G** - Lumenfacade Nano Horizontal
- H** - Terminator cap

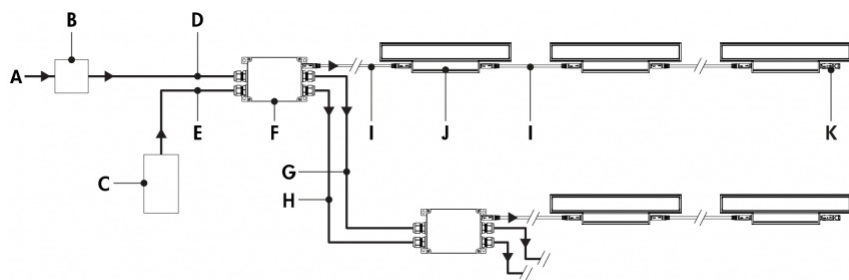
**Continuous run - Daisy chain
LCBX 200W**

- A** - Controller (order separately from Lumenpulse, or by others)
- B** - Power input (120-277V, wiring by others)
- C** - Data input (wiring by others)
- D** - LCBX (200W)
- E** - Power output to next LCBX (120-277V, wiring by others)
- F** - Data output to next LCBX (wiring by others)
- G** - Jumper cable (LOGNJC)
- H** - Lumenfacade Nano Horizontal
- I** - Terminator cap

Maximum run length per LCBX (Based on a 50 ft master jumper cable)	
Configuration	4 W/ft
LCBX 60W	12 ft
LCBX 120W	24 ft
LCBX 200W	40 ft

- Consult factory for specific applications and maximum fixture count/run length recommendations.
- For installations of 600W or more, consult factory to select the optimal system: either a daisy chain continuous run system with LCBXs or a trunk system with LSBXs.
- A maximum of 128 UCTL devices on the output port of the LCBX.
- Maximum of 1 output to fixture, or fixture run, per LCBX.
- Consult the LCBX specification sheet for more information.
- RGB color mixture option requires 3 DMX channels. RGBW color mixture option requires 4 DMX channels. RGBA color mixture option requires 4 DMX channels.
- Fixtures can be controlled via a DMX/RDM or DALI controller.
- For DALI-2 Type 8 applications:
 - The LCBX responds to RGBWAF control.
- 4 W/ft.

Trunk system - LSBX

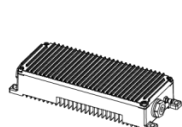


- A** - Power input (120-277V, wiring by others)
- B** - Power supply (48V, by others)
- C** - Controller (order separately from Lumenpulse, or by others)
- D** - Power input (48V, order separately from Lumenpulse - Trunk Power Cable (TKPWR), or equivalent by others)
- E** - Data input (order separately from Lumenpulse - Trunk Data Cable (TKDMX), or equivalent by others)
- F** - LSBX
- G** - Power output to next LSBX (48V, order separately from Lumenpulse - Trunk Power Cable (TKPWR), or equivalent by others)
- H** - Data output to next LSBX (order separately from Lumenpulse - Trunk Data Cable (TKDMX), or equivalent by others)
- I** - Jumper cable (LOGNJC)
- J** - Lumenfacade Nano Horizontal
- K** - Terminator cap

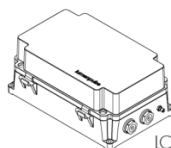
- Consult factory for specific applications and maximum fixture count/run length recommendations.
- For installations of 600W or more, consult factory to select the optimal system: either a daisy chain continuous run system with LCBXs or a trunk system with LSBXs.
- A maximum of 128 UCTL devices on the output port of the LSBX.
- Maximum of 1 output to fixture run per LSBX.
- Consult the LSBX specification sheet for more information.
- Consult factory for power supply recommendations.
- RGB color mixture option requires 3 DMX channels. RGBW color mixture option requires 4 DMX channels. RGBA color mixture option requires 4 DMX channels.
- 4 W/ft.

Control boxes (order separately)

LCBX - Low-Voltage Control Box



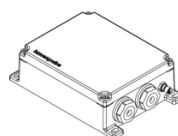
LCBX 60W & 120W



LCBX 200W

Low-voltage control and power box. One power and data output to fixture, or fixture run. Refer to LCBX specification sheet for details.

LSBX - Low-Voltage Splitter Box



Low-voltage control and power splitter box. One power and data output to fixture run. Refer to LSBX specification sheet for details.

Control systems (order separately)

LTN2 - Lumentone™ 2



Lumentone 2 is a simple pre-programmed DMX 512 controller with a push button rotary dial and live feedback.

PHAROS - Pharos® kit



The Pharos kit, available for 1 or 2 DMX universes, allows for complete control of large lighting installations. 2 DMX universes kit shown.

Diagnostic and addressing tools (order separately)

LID - LumenID



LumenID is a diagnostic and addressing DMX/RDM tool. It must be specified on all DMX applications. Consult LID specification sheet for details.

How to order

Housing	Wattage	Voltage	Length	Color and Color Temperature	Optics
LOGNH Lumenfacade™ Nano Horizontal	4W 4 W/ft	48V 48 VDC	12 12 3/4 in (1.4 lbs) 24 24 3/4 in (2.9 lbs) 36 36 3/4 in (4.4 lbs) 48 48 3/4 in (6 lbs)	RGB Additive RGB RGBW Additive RGB + white 4000K standard. 2700K, 3000K and 3500K available, consult factory. ⁽¹⁾ RGBA Additive RGB + amber	8x8 8° x 8° 10x10 10° x 10° 10x30 10° x 30° 10x60 10° x 60° 10x90 10° x 90° 30x10 30° x 10° 30x30 30° x 30° 30x60 30° x 60° 30x90 30° x 90° 60x10 60° x 10° 60x60 60° x 60° 60x90 60° x 90° 90x90 90° x 90° W Wide 120° ⁽²⁾ WW Asymmetric Wallwash

Notes:

1. Longer lead times apply for Royal Blue, 2700K, 3000K and 3500K white color temperature mixes.

2. Not compatible with visor optical accessory.

How to order

Lens	Mounting Options ⁽⁴⁾	Finish	Control ⁽¹⁰⁾	Options	Certification
CL Clear lens ⁽³⁾ FR Frosted lens ⁽⁴⁾ HFR Half-frosted lens ⁽⁵⁾	SAMNH Slim Adjustable Mounting Nano Horizontal UMPNH Fixed Mounting Nano Horizontal UMASNH Universal Adjustable Mounting Nano Horizontal WAMNH2 Adjustable Wall Mounting Nano Horizontal 2 in WAMNH6 Adjustable Extended Arm Mounting Nano Horizontal 6 in WAMNH12 Adjustable Extended Arm Mounting Nano Horizontal 12 in WAMNH18 Adjustable Extended Arm Mounting Nano Horizontal 18 in	BK Black Sandtex® BRZ Bronze Sandtex® SI Silver Sandtex® WH Smooth white CC Custom color and finish (please specify RAL color) ⁽⁷⁾ ⁽⁸⁾ ⁽⁹⁾	UCTL Universal control (compatible with DMX/RDM or DALI-2 Type 8 systems)	CRC Corrosion-resistant coating for hostile environments ⁽¹¹⁾ ⁽¹²⁾	UL UL compliant CE CE compliant

- Notes:**

3. Not available for 8x8, 10x10, W or WW optics.

4. Not available for WW optic.

5. Available for 8x8, 10x10 or WW optics only.

6. One mounting bracket provided for 12 in fixtures. Two mounting brackets provided for 24 in, 36 in and 48 in fixtures.

7. Lumenpulse offers a wide selection of RAL CLASSIC (K7) colors with a smooth texture and high-gloss finish. Please consult factory for a list of available K7 colors, other RAL textures and glosses, or to match alternate color charts. Final color matching results may vary.
8. Setup charges apply for RAL colors. Consult factory for details.

9. Longer lead times can be expected for custom RAL color finishes.

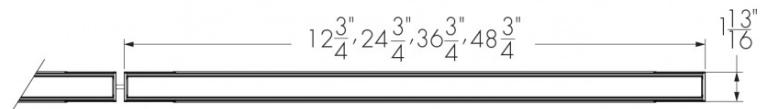
10. A Low-Voltage Control Box (LCBX) or Low-Voltage Splitter Box (LSBX) and LumenID (LID) must be specified.

11. Use only when exposed to salt spray and harsh chemicals. This option is not required for normal outdoor exposure.

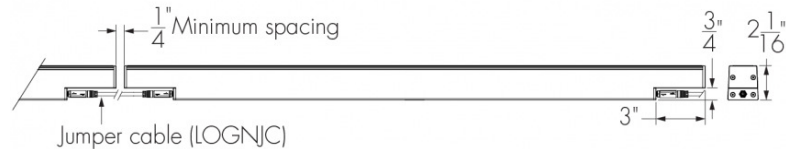
12. Setup charges apply. Consult factory for details.

Project Name _____ Qty _____

Type _____ Catalog / Part Number _____



Top view



Front and side views

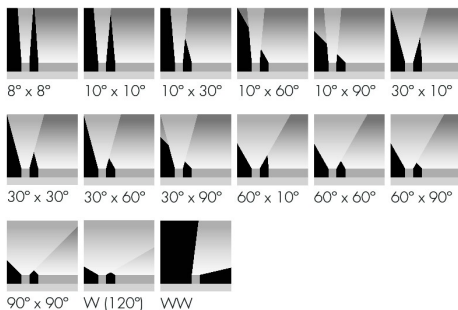
Photometric Summary

4ft, RGBW full output, DMX/RDM	Delivered output (lm)*	Intensity (peak cd)*
8°x8°	868	23,462
10°x10°	826	18,305
10°x30°	814	5,178
10°x60°	810	2,761
10°x90°	808	1,447
30°x10°	816	5,162
30°x30°	802	1,851
30°x60°	778	1,172
30°x90°	783	847
60°x10°	809	3,204
60°x60°	785	581
60°x90°	780	699
90°x90°	767	474
W (120°)	490	N/A
WW	865	4,195

Photometric performance is measured in compliance with IESNA LM 79-08.

*Estimated. Consult website for the latest IES and LDT files.

Optics



Description

The Lumenfacade Nano Color Changing is a high-efficiency linear LED luminaire that goes where no facade lighting has gone before. Available in 12 in, 24 in, 36 in or 48 in sections, the Lumenfacade Nano Color Changing packs all the bells and whistles of the larger members of the Lumenfacade family and can be configured with a wide number of options, including: optics for grazing, floodlighting, or wall washing; RGB, RGBW or RGBA color mixing; various mounting options, finishes and controls. The Lumenfacade Nano Color Changing is also available with a unique asymmetric distribution, providing exceptional uniformity and brightness for walls and signage.

Features

Color and Color Temperature	Additive RGB, Additive RGB + white 4000K, Additive RGB + amber
Optics	8° x 8°, 10° x 10°, 10° x 30°, 10° x 60°, 10° x 90°, 30° x 10°, 30° x 30°, 30° x 60°, 30° x 90°, 60° x 10°, 60° x 60°, 60° x 90°, 90° x 90°, Wide 120°, Asymmetric Wallwash
Options	Corrosion-resistant coating for hostile environments
Power Consumption	4 W/ft
Warranty	5-year limited warranty

Performance

Delivered Output	724 lm (48 in fixture, RGB full output, 8° x 8°, UCTL), 868 lm (48 in fixture, RGBW full output, 8° x 8°, UCTL), 748 lm (48 in fixture, RGBA full output, 8° x 8°, UCTL)
Delivered Intensity	19,566 cd at nadir (48 in fixture, RGB full output, 8° x 8°, UCTL), 23,462 cd at nadir (48 in fixture, RGBW full output, 8° x 8°, UCTL), 20,211 cd at nadir (48 in fixture, RGBA full output, 8° x 8°, UCTL)
Illuminance at Distance	Minimum 1 fc at 153 ft (48 in fixture, RGB full output, 8° x 8°, UCTL), Minimum 1 fc at 168 ft (48 in fixture, RGBW full output, 8° x 8°, UCTL), Minimum 1 fc at 156 ft (48 in fixture, RGBA full output, 8° x 8°, UCTL)

Colors and Color Temperatures**Controls**

UCTL

Ratings

IP66 IK08

Certifications

Lumen Maintenance L70 >90,000 hrs

Physical

Housing Material Low copper content extruded aluminum

Lens Material Clear tempered glass

Hardware Material Stainless steel

End Cap Material Machined aluminum

Gasket Material Silicone

Surface Finish Electrostatically applied polyester powder coat

Weight 1.4 lbs (12 in), 2.9 lbs (24 in), 4.4 lbs (36 in), 6 lbs (48 in)

Electrical and control

Voltage 48 VDC

Resolution (DMX/RDM) Per foot or per fixture (configured with LumenID V3 software), 8-bit or 16-bit, 3 channels (RGB) or 4 channels (RGBW, RGBA)

RGB Color Mixing 12 LEDs per 12 in (4x Red, 4x Green, 4x Blue)

RGBW Color Mixing 12 LEDs per 12 in (3x Red, 3x Green, 3x Blue, 3x White)

RGBA Color Mixing 12 LEDs per 12 in (3x Red, 3x Green, 3x Blue, 3x Amber)

Control Universal control (compatible with DMX/RDM or DALI-2 Type 8 systems)

Environmental

Storage Temperature -40 °F to 185 °F (device must reach start-up temperature value before operating)

Start-up Temperature -13 °F to 122 °F

Operating Temperature -40 °F to 122 °F

Ingress Protection Rating IP66

Impact Resistance Rating IK08 (IK09 for 48 in fixtures)

Accessories (order separately)

Cables Lumenfacade Nano Jumper Cable, Trunk Power Cable, Trunk Data Cable, Lumenfacade Nano Jumper Cable Joiner

Control Boxes Low-Voltage Control Box, Low-Voltage Splitter Box

Optical Accessories Lumenfacade Nano Visor

Control Systems Lumentone™ 2, Pharos® kit

Diagnostic and Addressing Tools LumenID

Optical option installation details

HFR - Half-frosted lens



- Always position frosted side toward the wall.
- Applicable for 8° x 8°, 10° x 10° or asymmetric wallwash optics only.

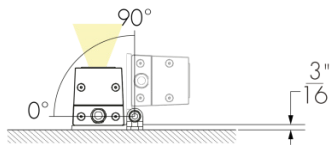
WW - Asymmetric wallwash

Recommended setback from wall is 1/10 of the wall height.
Example: 2 ft setback for a 20 ft wall.

Mounting options

One mounting bracket provided for 12 in fixtures. Two mounting brackets provided for 24 in, 36 in and 48 in fixtures. See installation instructions for details.

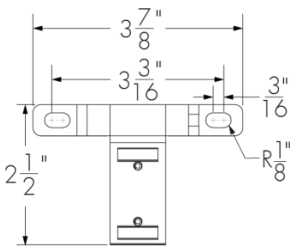
SAMN - Slim Adjustable Mounting Nano



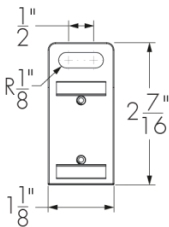
UMPN - Fixed Mounting Nano



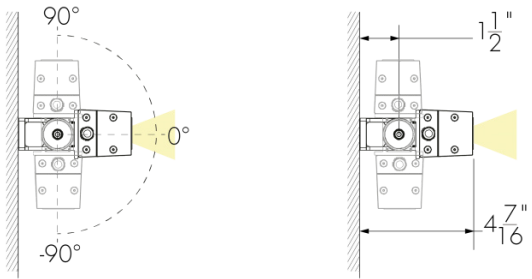
SAMN - Mounting hole pattern



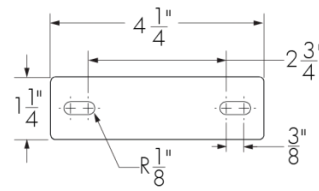
UMPN - Mounting hole pattern



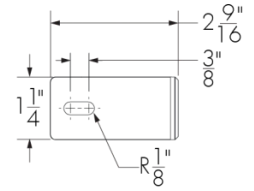
UMASN - Universal Adjustable Mounting Nano



UMASN - Mounting hole pattern

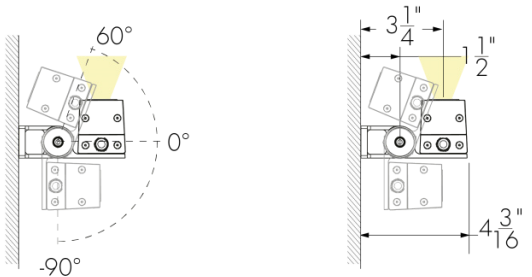


For 1 ft fixtures

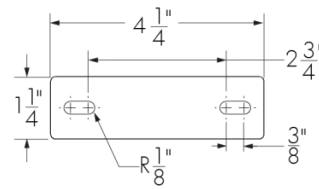


For 2 ft, 3 ft and 4 ft fixtures

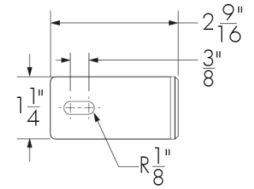
WAMN2 - Adjustable Extended Arm Mounting Nano 2 in



WAMN2 - Mounting hole pattern

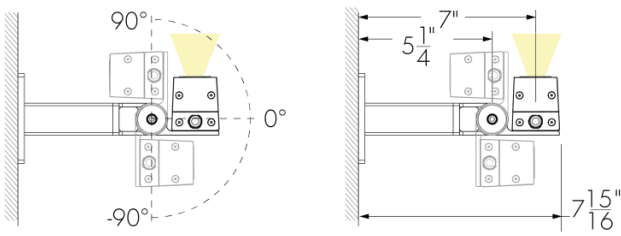


For 1 ft fixtures

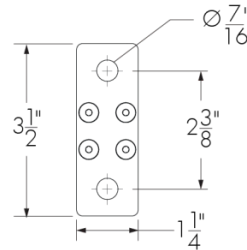


For 2 ft, 3 ft and 4 ft fixtures

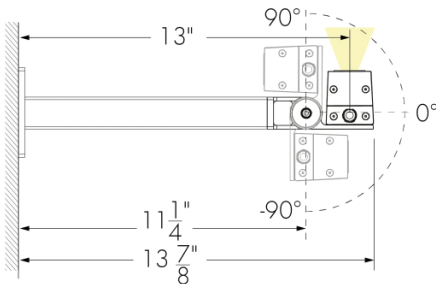
WAMN6 - Adjustable Extended Arm Mounting Nano 6 in



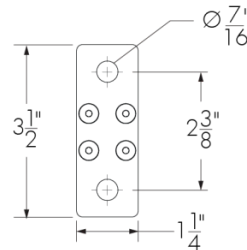
WAMN6 - Mounting hole pattern



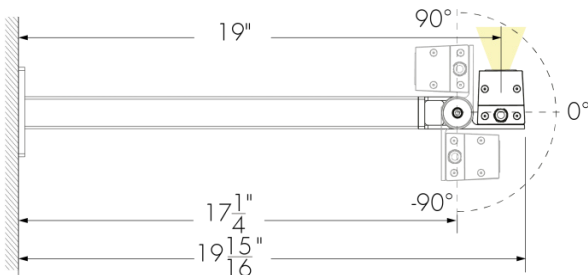
WAMN12 - Adjustable Extended Arm Mounting Nano 12 in



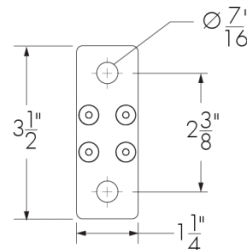
WAMN12 - Mounting hole pattern



WAMN18 - Adjustable Extended Arm Mounting Nano 18 in

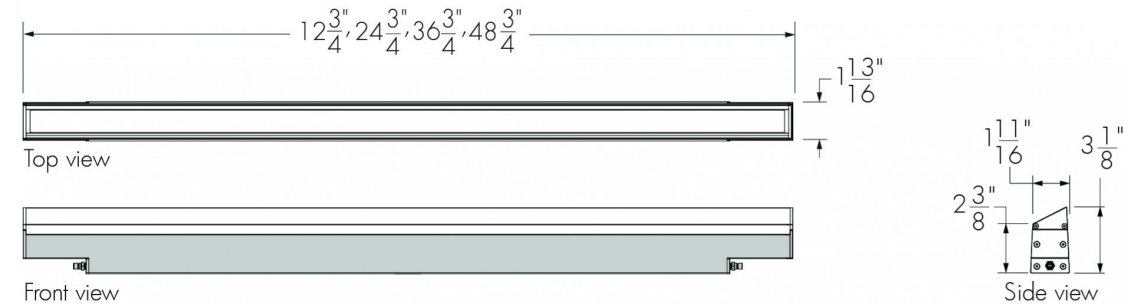


WAMN18 - Mounting hole pattern



Optical accessories (order separately)

LOGNVS - Visor for Lumenfacade Nano



LOGNVS-LENGTH-FINISH-OPTIONS

- Please specify:
- LENGTH:** 12 in, 24 in, 36 in or 48 in; **FINISH:** BK - Black Sandtex®, BRZ - Bronze Sandtex®, SI - Silver Sandtex®, WH - Smooth white or CC - custom color and finish (please specify RAL color); **OPTIONS:** CRC - Corrosion-resistant coating for hostile environments
- The addition of a visor will affect beam distribution. Consult factory for application support.
 - Not suitable for wide 120° optic.
 - Maximum one accessory per fixture. Visors are field installable.

Cables (order separately)

LOGNJC - Jumper cable for Lumenfacade Nano



Front view 4" Minimum bend radius for jumper cable

For minimal spacing between fixtures, use a 1 ft jumper cable.

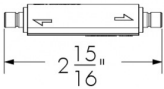
LOGNJC-CERTIFICATION-LENGTH-CABLE COLOR

Please specify:
CERTIFICATION: UL or CE; **LENGTH:** 1 ft to 30 ft (available in 1 ft increments) or 50 ft; **CABLE COLOR:** black or white (connectors are the same color as the specified cable color).

- Suitable for dimming/data and non-dimming applications.
- Consult Lumenfacade Nano jumper cable specification sheet for all available cable lengths and additional information.

Joiner (order separately)

LOGNJC-JOINER - Joiner for Lumenfacade Nano Jumper Cable

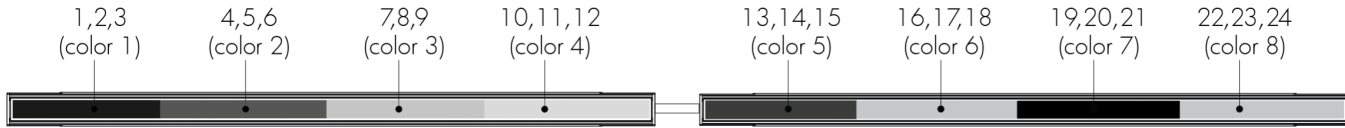


- Use joiners to connect and lengthen jumper cables.
- Joiners add voltage drops. Consult factory to confirm impact on run length.
- Available in black.

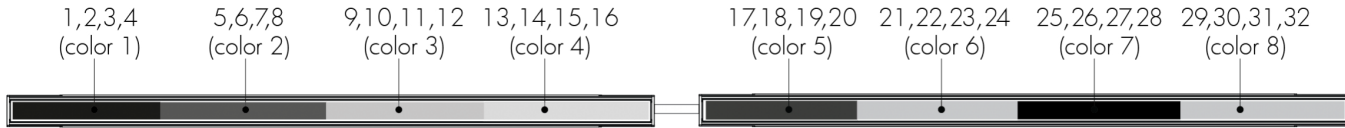
Resolution details

DMX/RDM control, resolution per foot: each 12 in section is addressed independently

DMX addresses:



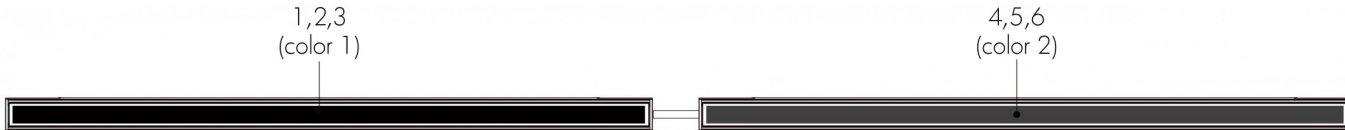
UCTL control option, RGB color mixing option.



UCTL control option, RGBW and RGBA color mixing options.

DMX/RDM control, resolution per fixture: each fixture is addressed independently

DMX addresses:



UCTL control option, RGB color mixing option.



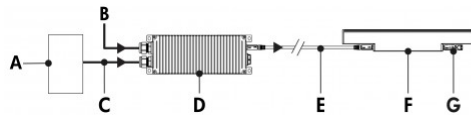
UCTL control option, RGBW, RGBA color mixing options.

- 48 in fixtures shown.
- Fixture resolution can be configured on-site within the LumenID V3 software. A DMX/RDM enabled LCBX or DMX/RDM LSBX is required for DMX/RDM control.

Typical wiring diagrams

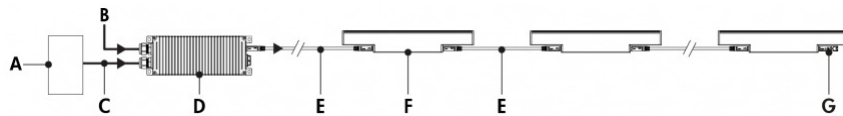
UCTL - Universal control

Single unit - LCBX 60W



- A** - Controller (order separately from Lumenpulse, or by others)
- B** - Power input (120-277V, wiring by others)
- C** - Data input (wiring by others)
- D** - LCBX (60W)
- E** - Jumper cable (LOGNJC)
- F** - Lumenfacade Nano
- G** - Terminator cap

Continuous run - LCBX 60W or 120W



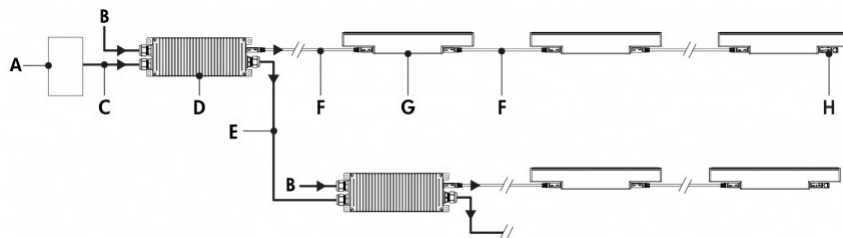
- A** - Controller (order separately from Lumenpulse, or by others)
- B** - Power input (120-277V, wiring by others)
- C** - Data input (wiring by others)
- D** - LCBX (60W or 120W)
- E** - Jumper cable (LOGNJC)
- F** - Lumenfacade Nano
- G** - Terminator cap

Continuous run - LCBX 200W



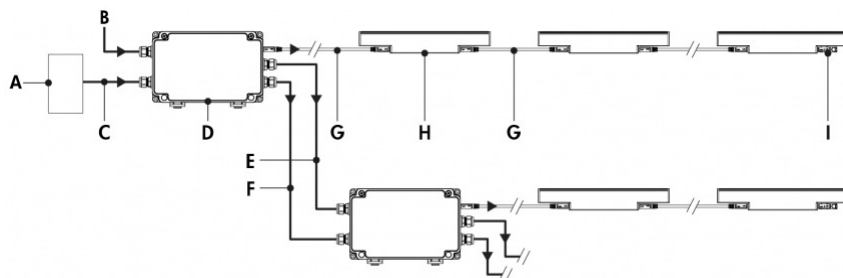
- A** - Controller (order separately from Lumenpulse, or by others)
- B** - Power input (120-277V, wiring by others)
- C** - Data input (wiring by others)
- D** - LCBX (200W)
- E** - Jumper cable (LOGNJC)
- F** - Lumenfacade Nano
- G** - Terminator cap

Continuous run - Daisy chain LCBX 60W or 120W



- A** - Controller (order separately from Lumenpulse, or by others)
- B** - Power input (120-277V, wiring by others)
- C** - Data input (wiring by others)
- D** - LCBX (60W or 120W)
- E** - Data output to next LCBX (wiring by others)
- F** - Jumper cable (LOGNJC)
- G** - Lumenfacade Nano
- H** - Terminator cap

Continuous run - Daisy chain LCBX 200W

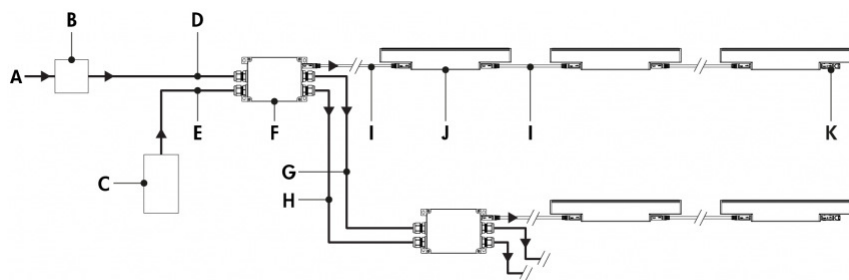


- A** - Controller (order separately from Lumenpulse, or by others)
- B** - Power input (120-277V, wiring by others)
- C** - Data input (wiring by others)
- D** - LCBX (200W)
- E** - Power output to next LCBX (120-277V, wiring by others)
- F** - Data output to next LCBX (wiring by others)
- G** - Jumper cable (LOGNJC)
- H** - Lumenfacade Nano
- I** - Terminator cap

Maximum run length per LCBX (Based on a 50 ft master jumper cable)	
Configuration	4 W/ft
LCBX 60W	12 ft
LCBX 120W	24 ft
LCBX 200W	40 ft

- Consult factory for specific applications and maximum fixture count/run length recommendations.
- For installations of 600W or more, consult factory to select the optimal system: either a daisy chain continuous run system with LCBXs or a trunk system with LSBXs.
- A maximum of 128 UCTL devices on the output port of the LCBX.
- Maximum of 1 output to fixture, or fixture run, per LCBX.
- Consult the LCBX specification sheet for more information.
- RGB color mixture option requires 3 DMX channels. RGBW color mixture option requires 4 DMX channels. RGBA color mixture option requires 4 DMX channels.
- Fixtures can be controlled via a DMX/RDM or DALI controller.
- For DALI-2 Type 8 applications:
 - The LCBX responds to RGBWAF control.
- 4 W/ft.

Trunk system - LSBX

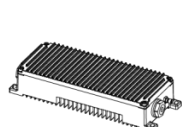


- A** - Power input (120-277V, wiring by others)
- B** - Power supply (48V, by others)
- C** - Controller (order separately from Lumenpulse, or by others)
- D** - Power input (48V, order separately from Lumenpulse - Trunk Power Cable (TKPWR), or equivalent by others)
- E** - Data input (order separately from Lumenpulse - Trunk Data Cable (TKDMX), or equivalent by others)
- F** - LSBX
- G** - Power output to next LSBX (48V, order separately from Lumenpulse - Trunk Power Cable (TKPWR), or equivalent by others)
- H** - Data output to next LSBX (order separately from Lumenpulse - Trunk Data Cable (TKDMX), or equivalent by others)
- I** - Jumper cable (LOGNJC)
- J** - Lumenfacade Nano
- K** - Terminator cap

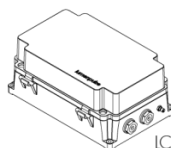
- Consult factory for specific applications and maximum fixture count/run length recommendations.
- For installations of 600W or more, consult factory to select the optimal system: either a daisy chain continuous run system with LCBXs or a trunk system with LSBXs.
- A maximum of 128 UCTL devices on the output port of the LSBX.
- Maximum of 1 output to fixture run per LSBX.
- Consult the LSBX specification sheet for more information.
- Consult factory for power supply recommendations.
- RGB color mixture option requires 3 DMX channels. RGBW color mixture option requires 4 DMX channels. RGBA color mixture option requires 4 DMX channels.
- 4 W/ft.

Control boxes (order separately)

LCBX - Low-Voltage Control Box



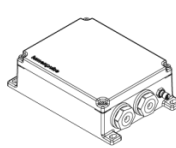
LCBX 60W & 120W



LCBX 200W

Low-voltage control and power box. One power and data output to fixture, or fixture run. Refer to LCBX specification sheet for details.

LSBX - Low-Voltage Splitter Box



Low-voltage control and power splitter box. One power and data output to fixture run. Refer to LSBX specification sheet for details.

Control systems (order separately)

LTN2 - Lumentone™ 2



Lumentone 2 is a simple pre-programmed DMX 512 controller with a push button rotary dial and live feedback.

PHAROS - Pharos® kit



The Pharos kit, available for 1 or 2 DMX universes, allows for complete control of large lighting installations. 2 DMX universes kit shown.

Diagnostic and addressing tools (order separately)

LID - LumenID



LumenID is a diagnostic and addressing DMX/RDM tool. It must be specified on all DMX applications. Consult LID specification sheet for details.

How to order

Housing	Wattage	Voltage	Length	Color and Color Temperature	Optics
LOGN Lumenfacade™ Nano	4W 4 W/ft	48V 48 VDC	12 12 3/4 in (1.4 lbs) 24 24 3/4 in (2.9 lbs) 36 36 3/4 in (4.4 lbs) 48 48 3/4 in (6 lbs)	RGB Additive RGB RGBW Additive RGB + white 4000K standard. 2700K, 3000K and 3500K available, consult factory. ⁽¹⁾ RGBA Additive RGB + amber	8x8 8° x 8° 10x10 10° x 10° 10x30 10° x 30° 10x60 10° x 60° 10x90 10° x 90° 30x10 30° x 10° 30x30 30° x 30° 30x60 30° x 60° 30x90 30° x 90° 60x10 60° x 10° 60x60 60° x 60° 60x90 60° x 90° 90x90 90° x 90° W Wide 120° ⁽²⁾ WW Asymmetric Wallwash

Notes:

1. Longer lead times apply for Royal Blue, 2700K, 3000K and 3500K white color temperature mixes.

2. Not compatible with visor optical accessory.

How to order

Lens	Mounting Options ⁽⁴⁾	Finish	Control ⁽¹⁰⁾	Options	Certification
CL Clear lens ⁽³⁾ FR Frosted lens ⁽⁴⁾ HFR Half-frosted lens ⁽⁵⁾	SAMN Slim Adjustable Mounting Nano UMPN Fixed Mounting Nano UMASN Universal Adjustable Mounting Nano WAMN2 Adjustable Wall Mounting Nano 2 in WAMN6 Adjustable Extended Arm Mounting Nano 6 in WAMN12 Adjustable Extended Arm Mounting Nano 12 in WAMN18 Adjustable Extended Arm Mounting Nano 18 in	BK Black Sandtex® BRZ Bronze Sandtex® SI Silver Sandtex® WH Smooth white CC Custom color and finish (please specify RAL color) ⁽⁷⁾ ⁽⁸⁾ ⁽⁹⁾	UCTL Universal control (compatible with DMX/RDM or DALI-2 Type 8 systems)	CRC Corrosion-resistant coating for hostile environments ⁽¹¹⁾ ⁽¹²⁾	UL UL compliant CE CE compliant

Notes:

3. Not available for 8x8, 10x10, W or WW optics.

4. Not available for WW optic.

5. Available for 8x8, 10x10 or WW optics only.

6. One mounting bracket provided for 12 in fixtures. Two mounting brackets provided for 24 in, 36 in and 48 in fixtures.

7. Lumenpulse offers a wide selection of RAL CLASSIC (K7) colors with a smooth texture and high-gloss finish. Please consult factory for a list of available K7 colors, other RAL textures and glosses, or to match alternate color charts. Final color matching results may vary.

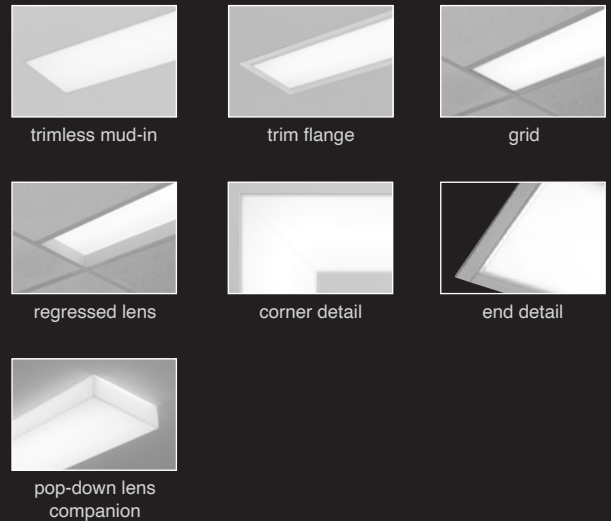
8. Setup charges apply for RAL colors. Consult factory for details.

9. Longer lead times can be expected for custom RAL color finishes.

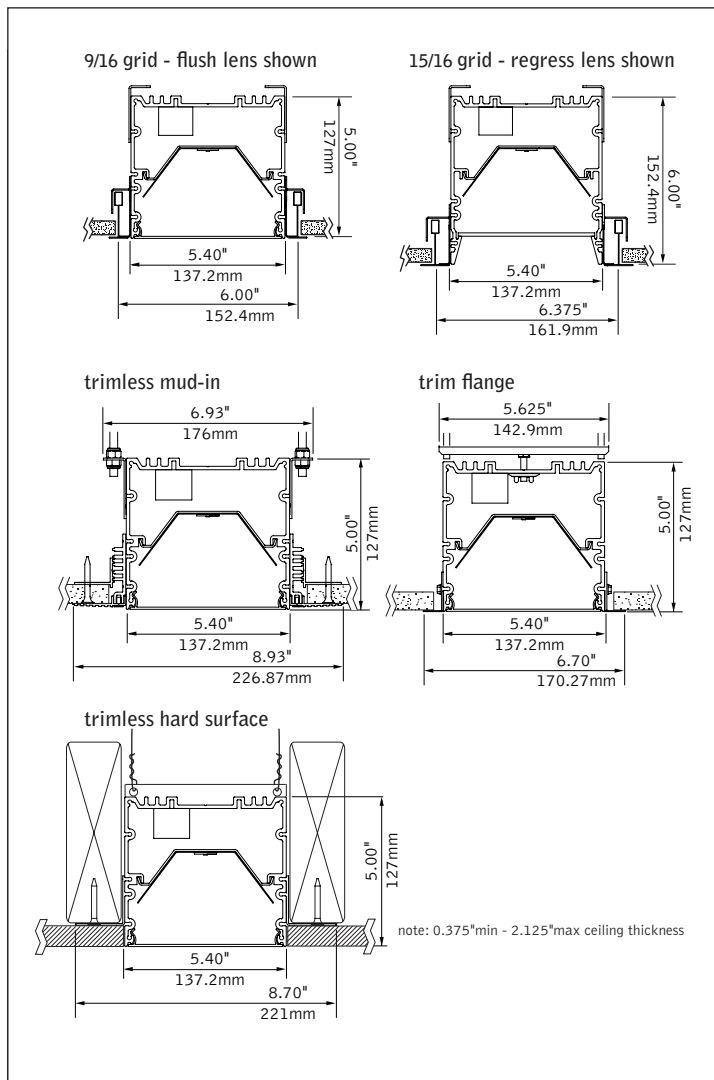
10. A Low-Voltage Control Box (LCBX) or Low-Voltage Splitter Box (LSBX) and LumenID (LID) must be specified.

11. Use only when exposed to salt spray and harsh chemicals. This option is not required for normal outdoor exposure.

12. Setup charges apply. Consult factory for details.



DIMENSIONAL DATA



FEATURES

Narrow extruded aluminum 6" aperture recessed slot LED.

Integrates with ceiling or wall in a variety of mounting styles for a clean, unobtrusive aesthetic.

Compatible with common pre-engineered grid ceiling systems requiring luminaires fitting into a 6" slot.

Individual units and continuous runs in 1" increments.

Frosted acrylic lens provides uninterrupted illumination, without pixels or shadows.

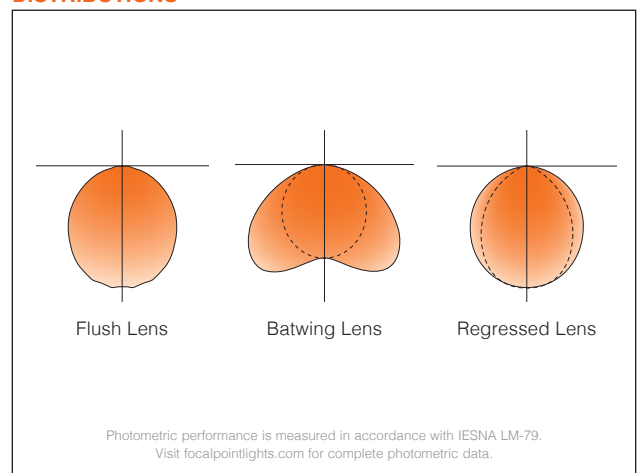
LED position and lens material optimized to provide the perfect blend of high performance and visual comfort.

Connected Solutions: Integrates with wired and wireless building lighting control systems.

Preferred Light: Lighting for better color rendition and human preference.

PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

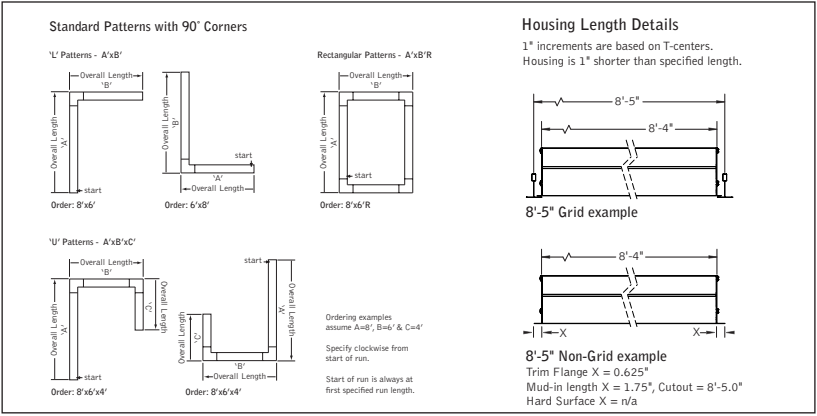
DISTRIBUTIONS



fixture:

project:

DETAILS



SPECIFICATIONS

LED System

Proprietary linear LED module incorporates premium LEDs on a robust platform to achieve excellent thermal management. LEDs are placed to promote a uniform appearance. Available in 2700K, 3000K, 3500K or 4000K with CRI>80 or CRI>90, 3 SDCM. 3500K and 4000K with CRI>90 have a cyanosis observation index (COI) of 3.3 or less. LED modules and drivers are replaceable from below.

Construction

One piece extruded aluminum housing. 20 Ga. steel end caps. Housing for new construction applications. XFW acceptable for use with wood, consult factory for Type IC availability. 2' unit weight: 18 lbs., 3' unit weight: 24 lbs., 4' unit weight: 30 lbs., 5' unit weight: 36 lbs.

Optic

Reflectors fabricated of 22 Ga. steel finished in High Reflectance White powder coat. Extruded acrylic lens .085" thick with satin finish, up to 8' continuous.

Electrical

Luminaires are pre-wired with factory installed branch circuit wiring and over-molded quick connects. Standard 120-277V constant current driver includes 0-10V analog dimming. Dimming range 100% to 10%. Power factor > .9. PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires. PoE runs require an independent PoE node and power feed for each luminaire section.

Emergency

Emergency Battery output - 10 watts for 90 minutes. Maximum mounting height: 18.8ft. Emergency Circuit with Connected Solutions (NLT1, ENL1, CLM1, CLMZ1, DLM1) shipped standard with leads to connect UL924 compliant device, by others. See EM/EC Guide for default locations and ordering details.

Labels

UL and cUL listed. Suitable for Dry or Damp Locations, indoor use only.

Finish

Polyester powder coat applied over a multi-stage pre-treatment.

Lumen Maintenance

Reported: L70 > 61,000 hours Calculated: L70 at > 350,000 hours
L90 > 61,000 hours L90 at > 90,000 hours
(Derived from EPA TM-21 calculator. Based on typical conditions, consult factory for additional data.)

Reliability

At Focal Point, our products are designed to stand the test of time. Each luminaire is engineered using superior components, manufactured with the utmost care and rigorously tested. Contact us for reliability data.

Warranty

LED system rated for operation in ambient environments up to 25°C. 5-year limited warranty.

4' PERFORMANCE CHART

Lumens Output	Delivered Lumens	Tested System Watts	LPW			
			FL	BW	SR	SRXP
375	1500	18	88	98	90	100
625	2500	31	87	98	90	100
875	3500	44	85	95	90	99
1000	4000	51	85	94	88	97
1125	4500	54	84	94	86	96
1250	5000	61	82	92	87	97

Based on 3500K, 80 CRI, 4' lengths. Lumen multipliers: Preferred Light = 0.65, 90+ CRI = 0.87.
Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.



10 DAY*

Options in orange qualify for the Quickship program. 1000' total, 48" maximum per pattern section. Refer to Quickship Guide for complete details including EM/EC options.

Focal Point LLC reserves the right to change specifications for product improvement without notification.

ORDERING

Luminaire Series

Seem 6 LED FSM6L

Shielding

Batwing Lens BW

Flush Lens FL

Regressed Lens SR

(Ceiling applications only)

Regressed High Performance Lens SRXP

(Ceiling applications only)

Lumen Output

375 Lumens per foot 375LF

(Not available with LU5 & LH1 Drivers)

625 Lumens per foot 625LF

(4' minimum with LU5 & LH1 Drivers)

875 Lumens per foot 875LF

(3' minimum with LU5 & LH1 Drivers)

1000 Lumens per foot 1000LF

1125 Lumens per foot 1125LF

1250 Lumens per foot 1250LF

Color Temperature

2700K, 80+ CRI or 90+ CRI 27K or 927K

3000K, 80+ CRI or 90+ CRI 30K or 930K

3500K, 80+ CRI or 90+ CRI 35K or 935K

4000K, 80+ CRI or 90+ CRI 40K or 940K

3500K, Preferred Light P35K

(BW & FL Lens only. 6" increments. Patterns not available.)

Circuit

Single Circuit 1C

Voltage

UNV 120/277 Volt UNV

Low voltage LV

Control System & Dimming Level

0-10V - 10% Dimming LD1

0-10V - 1% Dimming L11

Low-voltage, PoE compatible LVN

(No driver. Not available with EM or EC. LV Voltage only.)

Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming LH1

Lutron 5-Series EcoSystem (LDE5) - 5% Dimming LU5

DALI 1% Dimming (1000LF max.) D11

Acuity nLight - 1% Dimming NLT1

(Not available with CP. Grid only. 3' minimum length.)

Enlighted Smart Sensor - 1% Dimming ENL1

(3' minimum length. Grid only.)

Osram Connected Lighting Module for ENCELIUM systems - 1% Dimming CLM1

(3' minimum length. Grid only. Compatible with Osram ENCELIUM and ENCELIUM EDGE systems only)

Osram Connected Lighting Module for ZigBee Wireless Networks - 1% Dimming CLMZ1

(3' minimum length. Grid only. Not compatible with Osram ENCELIUM systems)

Wattstopper® DLM - 1% Dimming DLM1

(3' minimum length. Grid only)

Ceiling Configurations

Std. 15/16" Lay-in G1

Std. 15/16" Tegular T1

Std. 9/16" Lay-in G2

Std. 9/16" Tegular T2

9/16" Slot-tee Tegular G3

Tall 15/16" Lay-in G4

Tall 15/16" Tegular T4

Tall 9/16" Lay-in G5

Tall 9/16" Tegular T5

Node 9/16" Tegular T6

Trim Flange Drywall TF

(3' minimum with Lutron Drivers)

Trim Flange Wood TFW

(3' minimum with Lutron Drivers)

Mud-in Trimless, pre-set for 1/2" Drywall XF1

Mud-in Trimless, pre-set for 5/8" Drywall XF2

Mud-in Trimless, set thickness in field XFF

(Mounting equipment assembled in field)

Non-Drywall Hard Surface XFN

Hard Surface, Wood XFW

Factory Options

Chicago Plenum CP

(Not available with Flex Whip)

Emergency Circuit _EC

(4' minimum, 7' minimum with CLM1, CLMZ1, DLM1, ENL1 & NLT1.)

Emergency Battery Pack _EM

(4' minimum, 7' minimum with CLM1, CLMZ1, DLM1, ENL1 & NLT1. See EM/EC Guide for default locations and ordering details.)

6' New York City Flex Whip (120V) FNY1

6' New York City Flex Whip (277V) FNY2

6' Flex Whip FW

Finish

Matte White Housing WH

Luminaire Length

Specify luminaire/row length in 1" increments _ft _in

(2' minimum, lengths are nominal 1" increments based on T-centers. Housing length is 1" shorter than specified. Leave blank for patterns.)

(Smaller increments available, consult factory.)

Pattern Options

(3' minimum length)

'L' pattern A' x B'

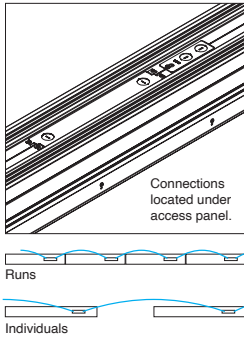
'U' pattern A' x B' x C'

Rectangular pattern A' x B' x R

(Consult factory for other pattern options)

RR6

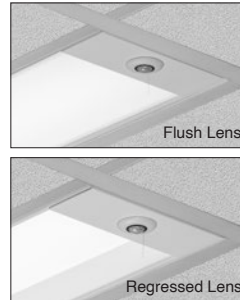
Focal Point provides flexibility in meeting the needs of each project by integrating with several building lighting control systems. A variety of sensors, drivers and other components can be specified that allow the luminaires to communicate with wired and wireless networks. All zoning can be digitally reconfigured through the application software. Daylight harvesting, occupancy sensing, integration with HVAC systems, and individual controls enable the monitoring and modulating of light levels and temperature in order to save energy, reduce costs and maximize occupants' comfort. All Connected Solutions luminaires require a compatible building control system.[†]



nLight[®] provides a two-way wired digital lighting system allowing for on/off and dimming functionality, occupancy sensing, and multi-zone daylight harvesting.

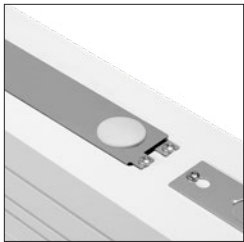
Acuity nLight - 1% Dimming (NLT1)
Acuity Model #nEPS-60-IO

CAT-5 Cable provided by others. Serial labels will be provided on outside of luminaires and control unit.



Enlighted smart sensor allows for occupancy sensing, daylight harvesting, energy usage, temperature and light level control. Communicates wirelessly with the Enlighted network.

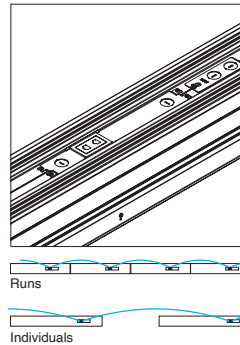
Enlighted Smart Sensor - 1% Dimming (ENL1)
Enlighted Model #SU-5E-IOT



Connected Lighting Module (CLM) enables each luminaire to be independently controlled and configured. Communicates wirelessly with Daintree Networks[®], Osram ENCELIUM[®], Osram ENCELIUM EDGE[™], and other networks using the ZigBee[®] HA communication protocol to allow for on/off and dimming functionality, occupancy sensing and multi-zone daylight harvesting.

Osram CLM - 1% Dimming (CLM1 & CLMZ1)
Osram Model #ZBHA-CLM DIM

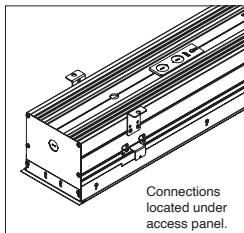
Serial labels will be provided on outside of luminaires and control unit.



A Digital Lighting Management (DLM) system that provides two-way wired communication between networked luminaires and control system to allow for on/off and dimming functionality, occupancy sensing and multi-zone daylight harvesting.

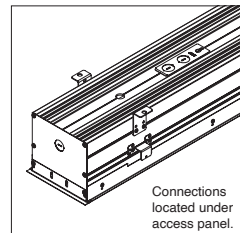
Wattstopper DLM - 1% Dimming (DLM1)
Wattstopper Model #LMFC-011

CAT-5 Cable provided by others. Serial labels will be provided on outside of luminaires and control unit.



A two-way digital network that enables on/off and dimming functionality, occupancy sensing, and multi-zone daylight harvesting working with Quantum[®], Energi Savr Node[™], and Energi TriPak[®] using EcoSystem[®] communication protocol.

Lutron Hi-Lume EcoSystem - 1% Dimming (LH1)
Lutron Model #LDE1
Lutron 5-Series EcoSystem - 5% Dimming (LU5)
Lutron Model #LDE5



A two-way digital network that enables on/off and dimming functionality, occupancy sensing, and multi-zone daylight harvesting. Communicates with Züm wireless and SpaceBuilder working with Züm hub scheduling or FUSION management.

DALI - 1% Dimming (D11)
0-10V - 1% Dimming (L11)

Note: 0-10V is not a digital network but is compatible with Crestron Züm[™] system.

CONNECTED SOLUTIONS DETAILS

Connected Solution	Model #	Protocol	Compatible Networks*	Occupancy	Daylight	Temperature Reporting	Communication to Luminaire	Drivers
Acuity nLight (NLT1)	nEPS-60-IO**	nLight	nLight	Enabled	Enabled	No	Wired	eldoLED ECOdrive , eldoLED SOLOdrive
Crestron (D11, L11)	Specified Driver	DALI 0-10V	Crestron Züm Wireless & SpaceBuilder	Enabled	Enabled	No	Wired	eldoLED ECOdrive (DALI) , Advance by Signify (0-10V)
Enlighted Smart Sensor (ENL1)	SU-5E-IOT**	Enlighted RF	Enlighted	Integrated	Integrated	Yes	Wireless	Advance by Signify , Osram Optotronic
Legrand Wattstopper DLM (DLM1)	LMFC-011**	DLM	DLM	Enabled	Enabled	No	Wired	Advance by Signify , Osram Optotronic
Lutron EcoSystem (LH1 & LU5)	LDE1**, LDE5**	EcoSystem	Quantum, Energi Savr Node, Energi TriPak	Enabled	Enabled	No	Wired	Lutron Hi-Lume Lutron 5-Series
Osram CLM for ENCELIUM systems (CLM1)	ZBHA-CLM**	ZigBee HA	Osram ENCELIUM & ENCELIUM EDGE	Enabled	Enabled	No	Wireless	Osram Optotronic
Osram CLM for ZigBee Wireless Networks (CLMZ1)	ZBHA-CLM**	ZigBee HA	Daintree Networks & open ZigBee Networks	Enabled	Enabled	No	Wireless	Osram Optotronic

*Not all compatible networks may be listed. **For performance data and additional control system details please visit the connected solutions manufacturer websites. Primary drivers are listed in **bold**. To specify a particular driver please consult factory. †Controls systems supplied by others.

[Back](#)[Shop](#) _____

Bau Lamp Large EU Nature

315.00 USD

Sorry - this product is out of stock.

Specifications

Maintenance

Light source

Materials:

Linden Wood Veneer

Size & Weight:

H: 51 x L: 57 cm

1,6 kg

Product Information:

Focus™ Wall Wash

LED



inside corner

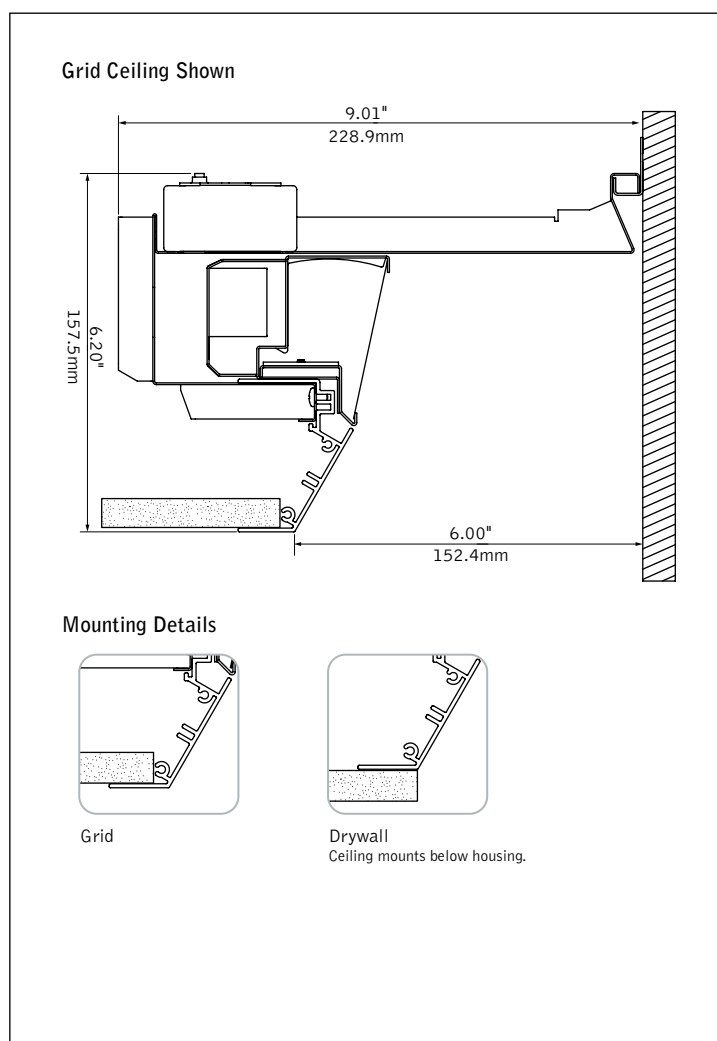


outside corner



optional flanged
end detail

DIMENSIONAL DATA



FEATURES

Low profile LED wall wash provides a glowing transition between wall and ceiling and shadow-free illumination.

Housing creates 6" architectural slot with extruded splay to conceal light source from view.

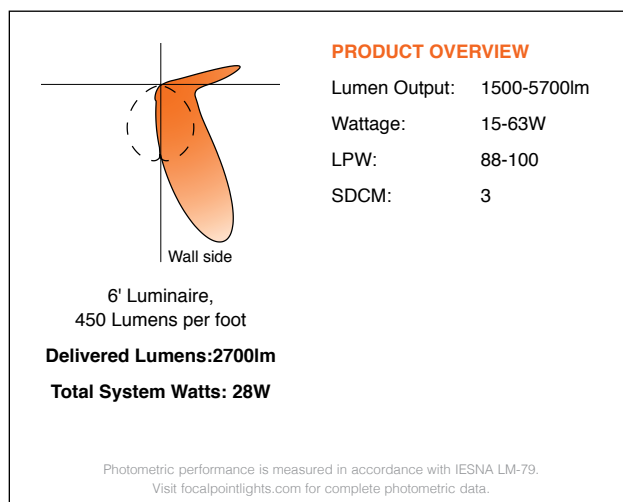
Infinite lengths with the ability for pattern creation with 90° inside and outside corners.

Ease of installation and maintenance with rough-in housing and separate snap and lock LED light module.

Integrated sliding sleeve extends to meet precise dimensions of a finished space with +/- 2" adjustment.

Preferred Light: Lighting for better color rendition and human preference.

PERFORMANCE

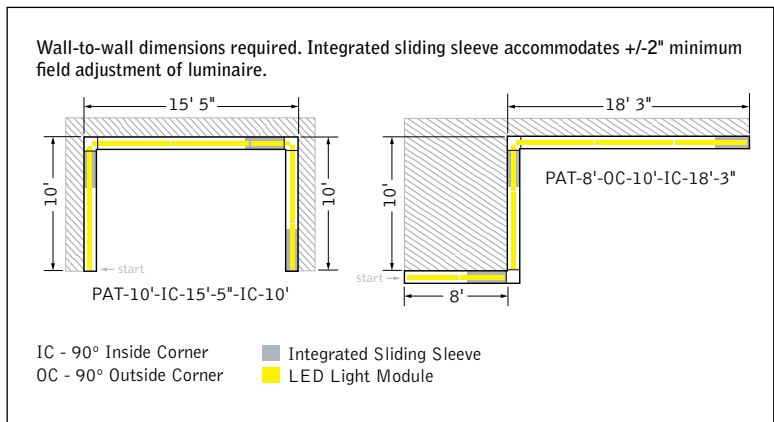


fixture:

project:

RR7

PATTERN CONFIGURATIONS (continued on page 3)



SPECIFICATIONS

LED System

Proprietary linear LED module incorporates premium LEDs on a robust platform to achieve excellent thermal management. Module is available in 2700K, 3000K, 3500K or 4000K with CRI > 80 or CRI>90. LED module and driver are replaceable from below.

Construction

One-piece, 22Ga. steel rough-in housing powder coated in matte satin white. Housing includes extruded splay in a matte satin white finish and steel alignment bracket. Light engine module constructed with 22Ga. steel and finished in matte satin white. Light engine must be installed after rough-in housing installation. Inside/outside corners and sliding sleeve fabricated with 22Ga. steel and include extruded aluminum splay.

Optic

Semi-specular aluminum optical reflector with .020" thick diffuser lens.

Electrical

Light engine module includes driver and wiring harness. Single power drop can power up to 40' or more in a single run. Galvanized feed box with access plate provided for every start of run luminaire and installed in the field. Emergency circuit feed locations are field located by positioning of feed box. Standard 120-277V driver includes 0-10V analog dimming. Power factor > .9.

Labels

UL and cUL listed. Suitable for Dry or Damp Locations, indoor use only. Suitable for wood ceiling applications.

Emergency Battery

Bodine BSL-310LP. Emergency output for 90 minutes. Maximum mounting height: 12ft.

Finish

Polyester powder coat applied over a multi-stage pre-treatment.

Lumen Maintenance

Reported: L70 > 60,000 hours Calculated: L70 at > 95,000 hours
(Derived from EPA TM-21 calculator. Based on typical conditions, consult factory for additional data.)

Reliability

At Focal Point, our products are designed to stand the test of time. Each luminaire is engineered using superior components, manufactured with the utmost care and rigorously tested. Contact us for reliability data.

Warranty

LED system rated for operation in ambient environments up to 25°C. 5 year limited warranty.

6' PERFORMANCE CHART

Lumens per Foot	Delivered Lumens	Tested System Watts	LPW
250LF	1500	15	100
450LF	2700	28	96
650LF	3900	42	92
800LF	4800	51	90
950LF	5700	63	88

Based on 3500K, 80 CRI, 6' lengths. Lumen Multipliers: Preferred Light = 0.65, 90+ CRI = 0.87.
Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

Focal Point LLC reserves the right to change specifications for product improvement without notification.

ORDERING

Luminaire Series	FWSL	FWSL
Focus Wall Wash	FWSL	
Shielding		FL
Frosted Lens	FL	
Lumen Output		
250 Lumens per foot	250LF	
450 Lumens per foot	450LF	
650 Lumens per foot	650LF	
800 Lumens per foot	800LF	
(Not available with DALI)		
950 Lumens per foot	950LF	
(Not available with Lutron or DALI drivers)		
Color Temperature		
2700K, 80+ CRI or 90+ CRI	27K or 927K	
3000K, 80+ CRI or 90+ CRI	30K or 930K	
3500K, 80+ CRI or 90+ CRI	35K or 935K	
4000K, 80+ CRI or 90+ CRI	40K or 940K	
3500K, Preferred Light	P35K	
(6" increments only)		
Circuits		1C
Single Circuit	1C	
Voltage		
120/277 UNV	UNV	
347 Volt	347	
(650LF & LD1 driver only)		
Driver		
0-10V - 10% Dimming	LD1	
0-10V - 1% Dimming	L11	
Lutron H-Series - 1% Dimming	LH1	
Lutron 5-Series - 5% Dimming	LU5	
DALI - 1% Dimming	D11	
Mounting		U
Universal	U	
Factory Options		
Air Return	AR	
Chicago Plenum	CP	
Emergency Circuit	EC	
Emergency Battery Pack	EM	
Flanged Ends	FL	
Finish		WH
Matte White Housing	WH	
Luminaire Length		ft in
(2' minimum. Leave blank for pattern ordering.)		
Specify luminaire/row length in 1" increments	_ft _in	
Pattern Options		
Specify patterns based on wall-to-wall dimensions	PAT-	
(See Pattern Configurations for example)		

Pattern Example: FWSL-FL-650LF-35K-1C-UNV-LD1-U-WH-PAT-10'-IC-20'-5"-IC-10'



Options in orange qualify for the Quickship program. 10-day up to 400ft total. Refer to Quickship Guide for complete details.

For more information visit focalpointlights.com/reference or consult factory.

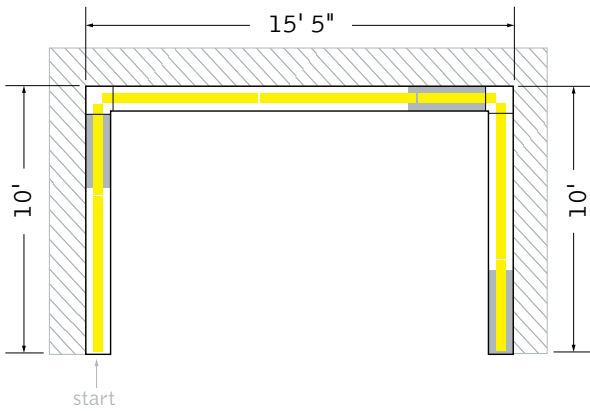
PATTERN CONFIGURATIONS

Specify wall-to-wall dimensions in feet and inches. Integrated sliding sleeve accommodates +/- 2" minimum field adjustment of luminaire at corners and end of run.

KEY

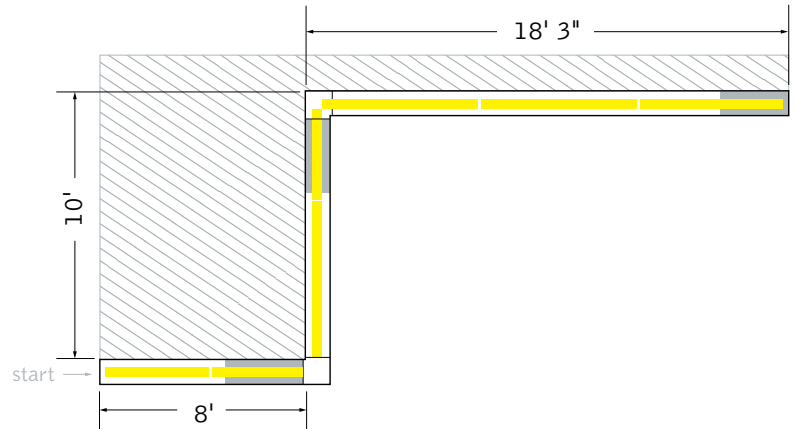
- IC - 90° Inside Corner
- OC - 90° Outside Corner
-  - Integrated Sliding Sleeve
-  - LED Light Module

U-Pattern



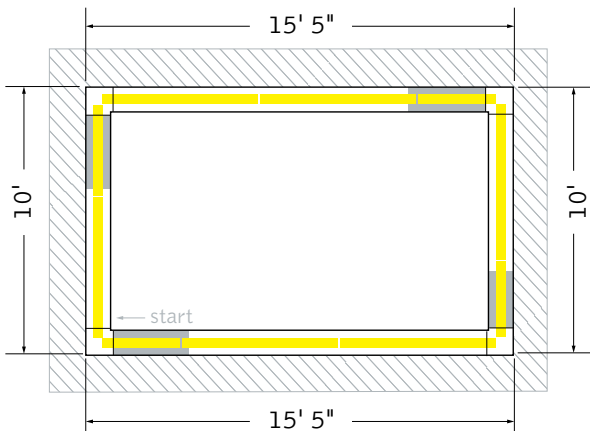
PAT-10'-IC-15'-5"-IC-10'

Z-Pattern



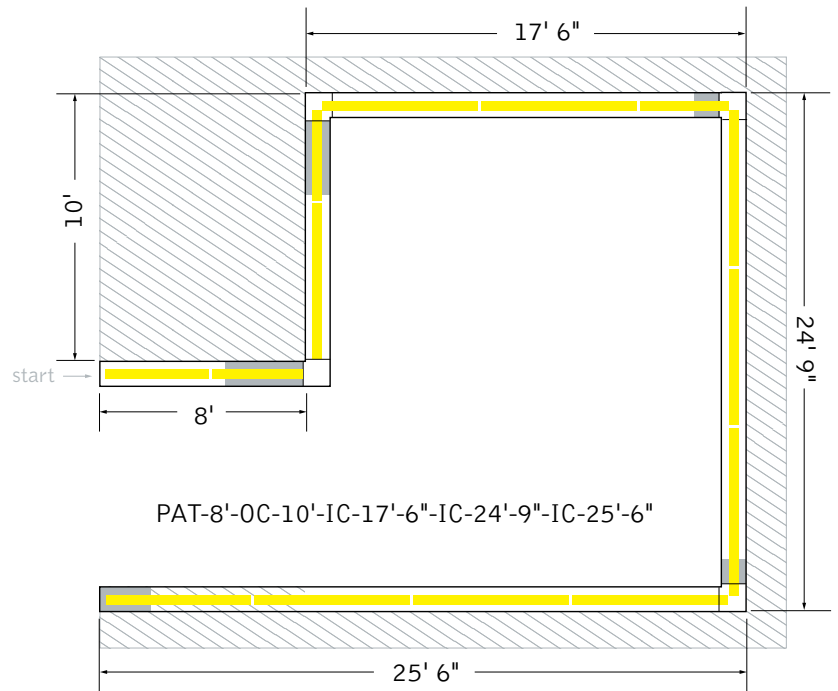
PAT-8'-OC-10'-IC-18'-3"

Square/Rectangular Pattern



PAT-10'-IC-15'-5"-IC-10'-IC-15'-5"-IC

Unique Pattern



PAT-8'-OC-10'-IC-17'-6"-IC-24'-9"-IC-25'-6"



MOONRING 1

RINGS, CRESCENTS, & CONTINUOUS/ROTATABLE SHAPES
LP1/MR1 | SUSPENDED, SURFACE

STANDARD SIZES

1" Aperture

Configurable in circles, crescents, rotatable crescents, and serpentine shapes

Radii of 25", 30", 36", and 48"

Compatible with LP1 linear sections

LAMPING

LED - Direct or Indirect - 90+ CRI - 3000K/3500K/4000K

Dimming down to 0%

FINISH

18 standard finishes available at no extra charge

RAL classic colors, TCI / Tiger Drylac catalog colors, and custom color match also available

CONSTRUCTION

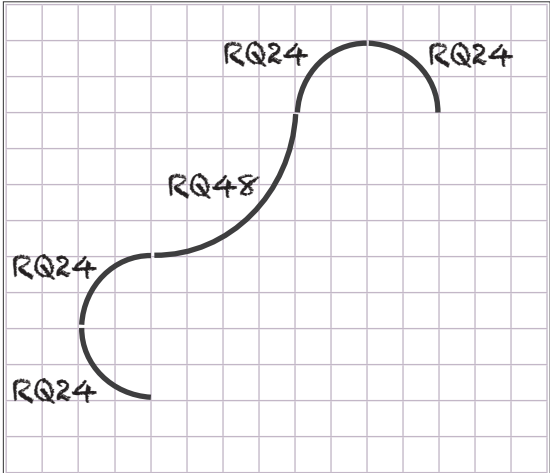
Industrial Strength Extruded 6061 Aluminum



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

1. SKETCH YOUR DESIGN ON PAGE 3.

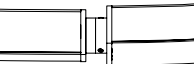
Alternatively, you can create your design using the CAD-ready STEP files provided on the [CRESCENT MOONRING](#) product page. Save your CAD assembly as a .STEP AP214 file and submit to ALW at quotes@alwusa.com.



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).

ROTATABLE CRESCENTS (SHAPES WITH ROTATABLE CONNECTORS)
INDICATE QUANTITY OF SECTIONS / LENGTH OF LINEAR

☒ RQ25/4	25" Radius <i>(indicate quantity)</i>	
☐ RQ30/___	30" Radius <i>(indicate quantity)</i>	
☐ RQ36/___	36" Radius <i>(indicate quantity)</i>	
☒ RQ48/1	48" Radius <i>(indicate quantity)</i>	
☐ S/___	Straight run LP1 section <i>(indicate total length in ft.)</i>	

*Can select multiple sizes for Crescent Configurations.

3. SUBMIT FORMS BELOW TO ALW FOR REVIEW.

1. CONFIGURATION GRAPH (PG. 3) or STEP AP214 FILE
2. PRODUCT SUBMITTAL WORKSHEET (PGS. 4-5)



C5/6/7

HOW TO SUBMIT YOUR CRESCENT MOONRING CONFIGURATION (CONT.)

DESIRED CONFIGURATION (LOOKING FROM CEILING DOWNWARDS)

SS060520-A.0



C5/6/7

PRODUCT SUBMITTAL WORKSHEET

SAMPLE PRODUCT CODE

LP1/MR1SD — D4 — DECOR/3500 — 0/10V/S — EXT/F — AL — UNV — EMB/1 — OS/2 — COMBO — SB
1 2 3 4 5 6 7 8A 8B 8C

1. BASE MODEL (CHOOSE ONE)

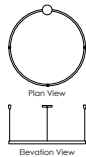
- ☐ **LP1/MR1SD** 1" Suspended, Direct
☐ **LP1/MR1SI** 1" Suspended, Indirect
☐ **LP1/MR1SMB** 1" Wall/Surface, Back-Mounted, Front-Facing

2. NOMINAL SHAPE/SIZE

FULL-CIRCLE RINGS

STANDARD SUSPENSION

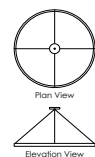
- ☐ **D4** 4' Diameter (Nominal)
☐ **D5** 5' Diameter
☐ **D6** 6' Diameter
☐ **D8** 8' Diameter



FULL-CIRCLE RINGS

CENTRAL AXIS SUSPENSION

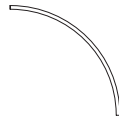
- ☐ **D4/CA** 4' Diameter (Nominal)
☐ **D5/CA** 5' Diameter
☐ **D6/CA** 6' Diameter
☐ **D8/CA** 8' Diameter



Note: See Performance Detail table on Page 11 for arc sections and mounting points.

STANDALONE CRESCENTS (SINGLE SECTIONS)

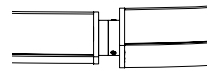
- ☐ **Q25** 25" Radius
☐ **Q30** 30" Radius
☐ **Q36** 36" Radius
☐ **Q48** 48" Radius



ROTATABLE CRESCENTS (ROTATABLE CONFIGURATIONS)

INDICATE QUANTITY OF SECTIONS / LENGTH OF LINEAR

- ☐ **RQ25/___** 25" Radius (indicate quantity)
☐ **RQ30/___** 30" Radius (indicate quantity)
☐ **RQ36/___** 36" Radius (indicate quantity)
☐ **RQ48/___** 48" Radius (indicate quantity)
☐ **S/___** Linear section (indicate total length in ft.)



*Can select multiple sizes for Crescent Configurations.

CONTINUOUS CRESCENTS (SHAPES WITH CONTINUOUS LIGHT)

INDICATE QTY OF SECTIONS / LENGTH OF LINEAR

- ☐ **CQ25/___** 25" Radius (indicate quantity)
☐ **CQ30/___** 30" Radius (indicate quantity)
☐ **CQ36/___** 36" Radius (indicate quantity)
☐ **CQ48/___** 48" Radius (indicate quantity)
☐ **S/___** Straight run LP1 section (indicate total length in ft.)



*Can select multiple sizes for Crescent Configurations.

3. LED LAMPING (CHOOSE ONE UNDER B)

A. OUTPUT

- ☒ **DECOR**
(90+ CRI)

B. CCT

- ☐ **3000K**
☐ **3500K**
☐ **4000K**

DELIVERED LUMENS (LM/FT)	WATTS (W/FT)
See page 11 for complete details.	

SS060520-A.0



4. REMOTE DRIVER^{1,2} (CHOOSE ONE)

- ☐ **0/10V/S** 0-10V dimming down to 10% (Standard Dimming)
☐ **0/10V/1%** 0-10V dimming down to 1%
☐ **0/10V/0%** 0-10V premium dimming down to 0%
☐ **DALI** DALI flicker-free dimming down to 0%
☐ **DMX** DMX flicker-free dimming down to 0%
☐ **ECOSYS1** Lutron Hi-lume 1% EcoSystem, constant voltage

¹Driver specifications provided upon request.

²See more information for compatible Driver under 'Sensor Options' for Lutron Vive Control Systems.

5. LENS

- ☒ **EXT/F** Extra diffuse, flush

6. FINISH (CHOOSE ONE. SEE PAGE 12 FOR LARGER SWATCHES AND ADDITIONAL INFORMATION)

STANDARD FINISHES

ALUMINUM

- ☐ **AL** ☒ Anodized 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** ☐ Satin Black

GLOSS POWDER COAT (80-95% GLOSS)

- ☐ **GO** ☐ Orange (RAL 2003)
☐ **GR** ☐ Red (RAL 3020)
☐ **GM** ☐ Magenta (RAL 4010)
☐ **GB** ☐ Blue (RAL 5015)

SPECIAL ORDER FINISHES

- ☐ **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

7. VOLTAGE

- ☒ **UNV** Universal Voltage (120VAC-277VAC)



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

A. EMERGENCY OPTIONS

- ☐ **EMB/___**³ Emergency Battery (*indicate quantity — each battery powers 4 linear feet with a lumen output of 755lm*)
- ☐ **EMC/___**³ Emergency Circuit (*indicate quantity of 4 linear foot sections to be illuminated by emergency circuit*)

³Consult ALW for available options.

B. SENSOR OPTIONS (DEFAULT QUANTITY IS 1 SENSOR PER UNIT, INDICATE ALTERNATE QUANTITY IF DESIRED)

- ☐ **FCJS/___**⁴ Lutron® Vive remote RF wireless fixture control (Lutron Part: FCJS-ECO or FCJS-010)
- ☐ **FCJS/S/___**⁴ Lutron® Vive remote RF wireless fixture control + daylight/occ sensor (Lutron Part: FCJS-ECO or FCJS-010, & FC-Sensor)
- ☐ **ENLGH/___**⁵ Enlighted® remote connected lighting smart sensor (Enlighted Part: SU-5S-H) (*occupancy, daylight, networking, and more*)
- ☐ **OS/___** 0-10V remote occupancy sensor
- ☐ **PH/___** 0-10V remote photocell/daylight sensor

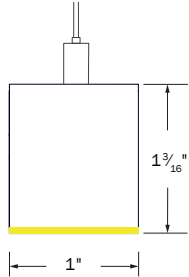
⁴Lutron® Vive remote sensors are compatible with the following drivers: 0/10V/S, 0/10V/1, 0/10V/0 driver or ECOSYS. Programming required by Lutron Commissioner.

⁵Enlighted® 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.

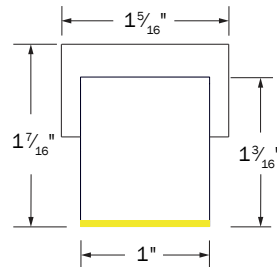
C. ADDITIONAL OPTIONS (COMPATIBLE ONLY WITH SUSPENDED MODELS)

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

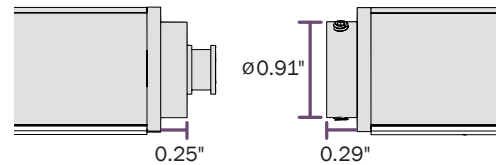
MECHANICAL DIAGRAMS – MOUNTING & DIMENSIONS



LP1/MR1SD



LP1/MR1SMB
W/ SURFACE-MOUNT BRACKET

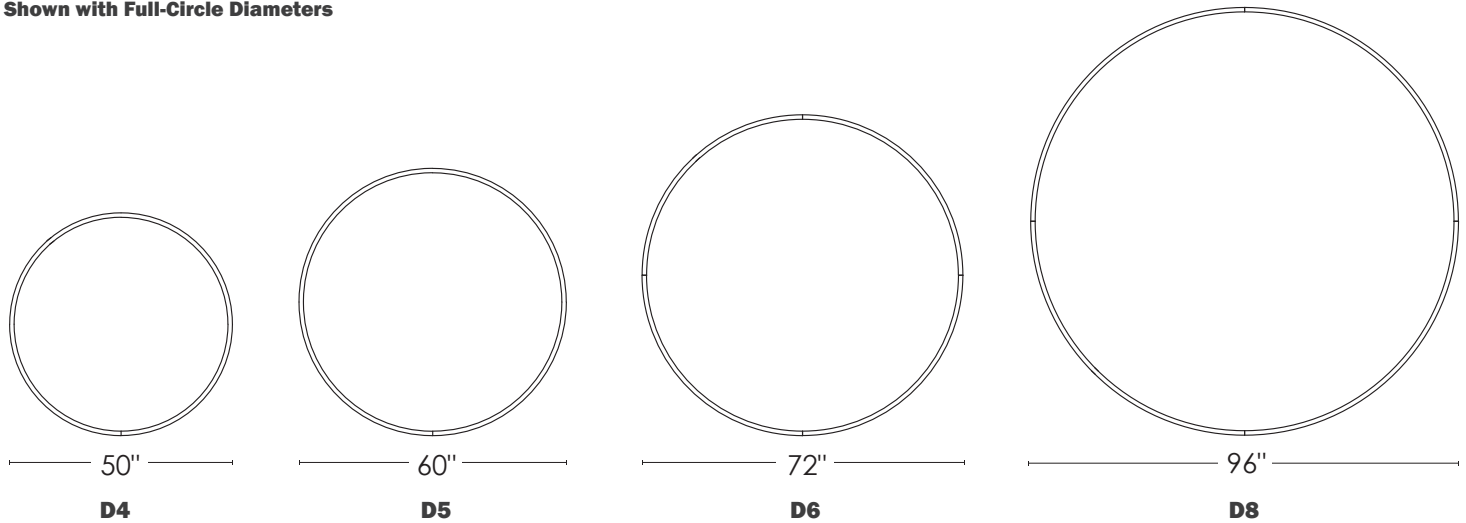


ROTATING CONNECTORS (RQ)

MECHANICAL DIAGRAMS – CONFIGURATIONS

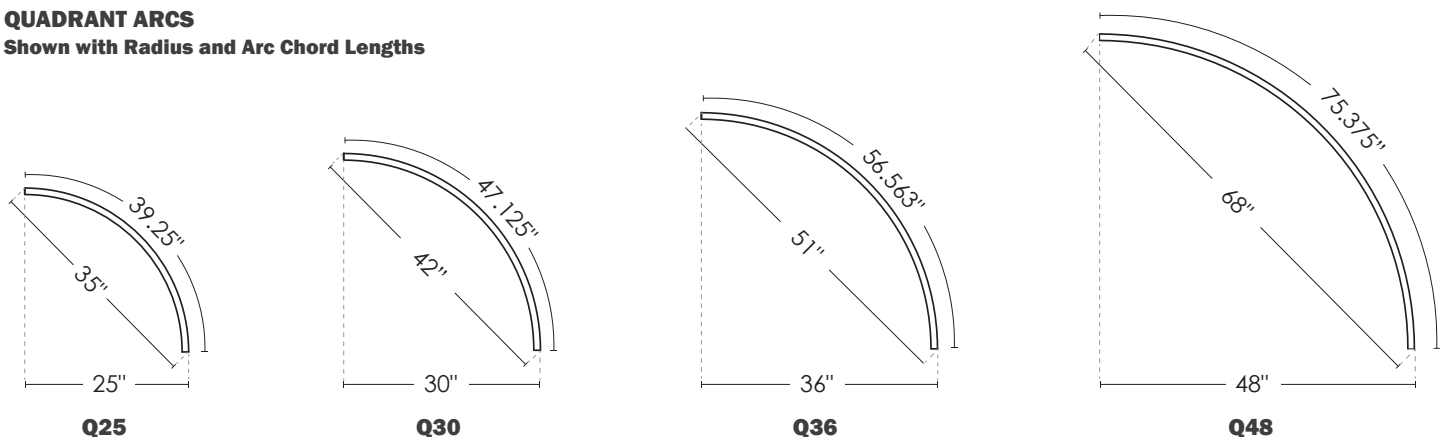
MOONRINGS

Shown with Full-Circle Diameters



QUADRANT ARCS

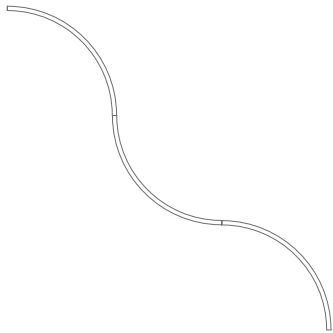
Shown with Radius and Arc Chord Lengths



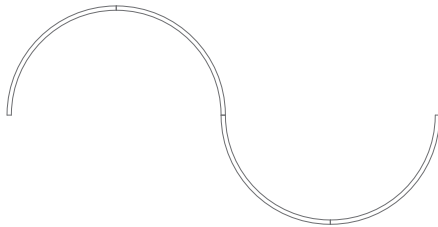
SS060520-A.0

SAMPLE CONFIGURATION DIAGRAMS

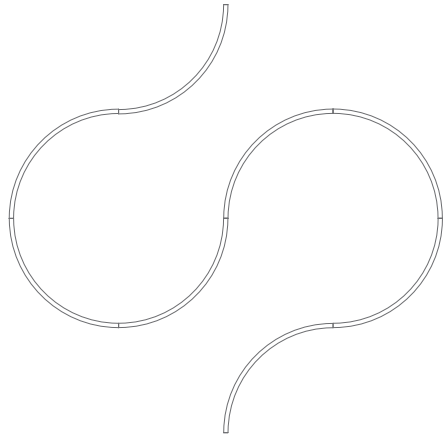
SERPENTINE SHAPES



Serpentine
 Depicted: CQ25/3
 3x 25" Arcs
 ■ **CQ25/3**

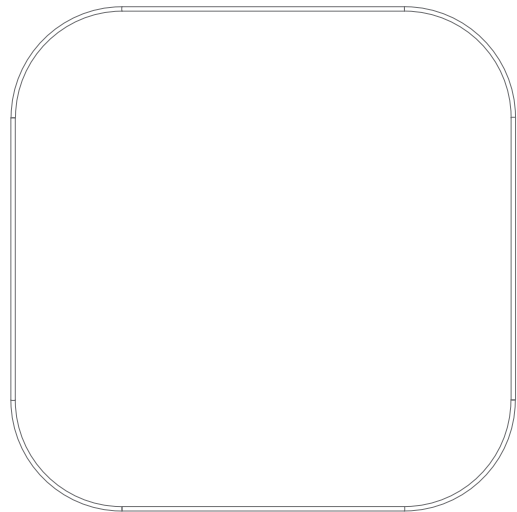
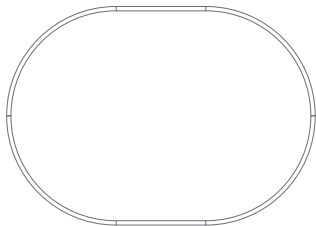


S-Shapes
 Depicted: CQ25/4
 4x 25" Arcs
 ■ **CQ25/4**



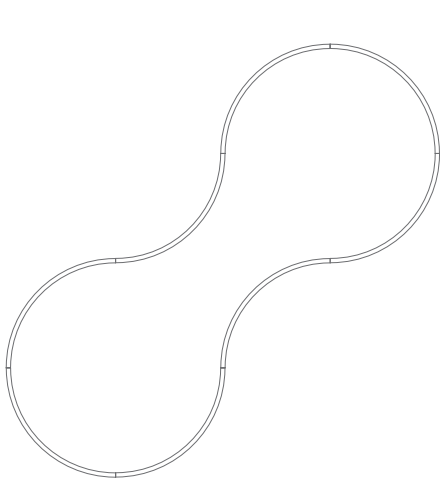
Curves
 Depicted: CQ25/8
 8x 25" Arcs
 ■ **CQ25/8**

STADIUM OVALS & ROUNDED RECTANGLES
 with compatible Lightplane 1 (LP1) linear sections

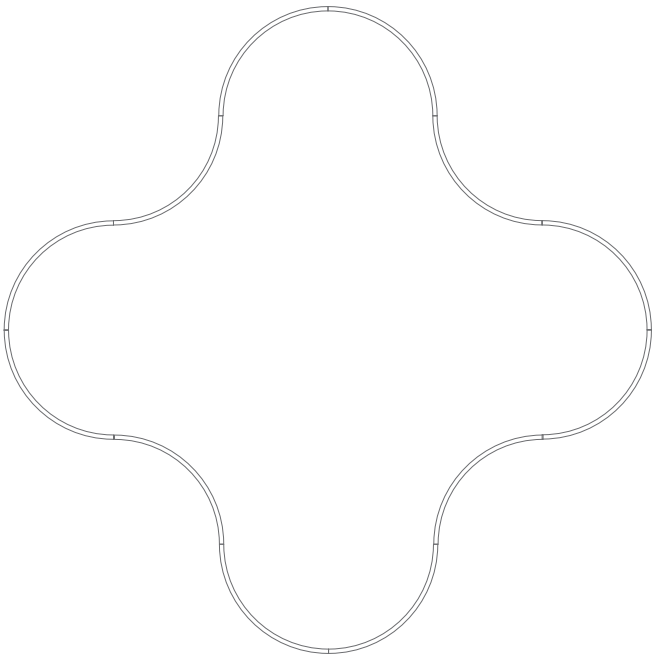
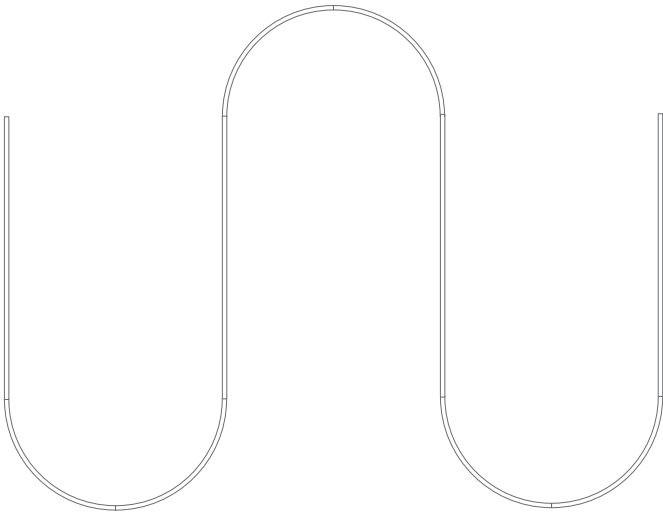


SAMPLE CONFIGURATION DIAGRAMS

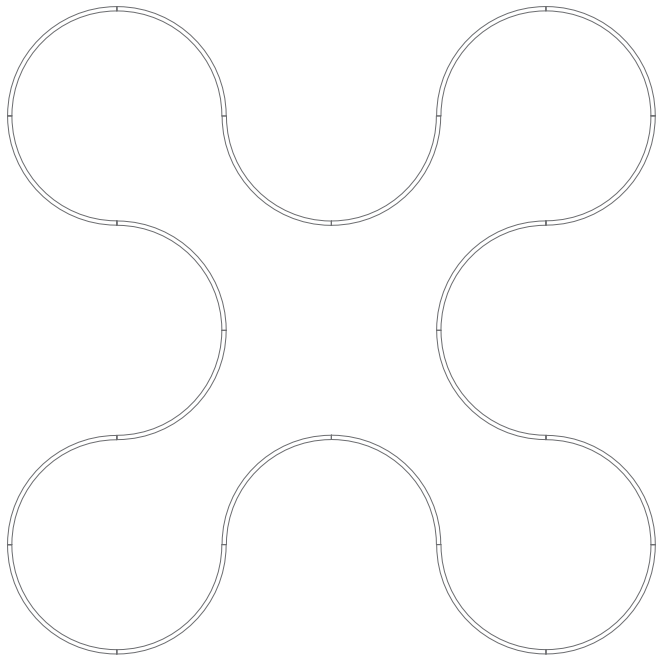
OTHER CONFIGURATIONS



Depicted: CQ25/8
8x 25" Arcs
■ **CQ25/8**

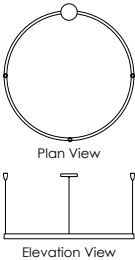


Depicted: CQ25/12
12x 25" Arcs
■ **CQ25/12**

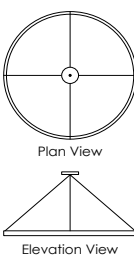


Depicted: CQ25/20
20x 25" Arcs
■ **CQ25/20**

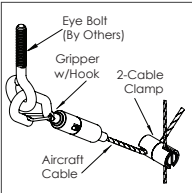
SUSPENSION OPTIONS



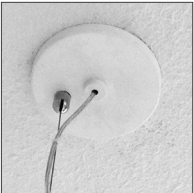
- Standard Suspension (SS)**
- (1) 4.5" white canopy per power feed location
 - (1) bullet mount
 - (1) 8' aircraft cable and
 - (1) 2" white canopy (for use with T-bar mounting) per suspension point



- Central Axis Suspension (CAS)**
- (1) 4.5"(D4 to D6) and 5"(D8) 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.



- 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.

REMOTE DRIVER VOLTAGE DROP INFORMATION (12VDC)

The below table should be used as a general guide to calculate the maximum run length between the canopy J-Box and the 0-10V remote driver. See alwusa.com/voltage-drop-calculator/ to calculate maximum recommended run length for specific wattages. Please note that the provided values are estimates only, and may vary depending on various factors such as temperature, wire/connector quality, etc. Also note that the wattages provided on the performance detail chart (pg. 8) are total watts for the fixture. The wattages for each remote driver should be indicated on the remote box, otherwise estimate watts by dividing total watts by the number of remote drivers provided.

WIRE GAUGE	20W 1.67A	30W 2.50A	40W 3.33A	50W 4.17A	60W 5.00A	70W 5.83A	80W 6.67A	90W 7.50A	100W 8.33A
18 AWG	8 ft.	3 ft.	Not recommended	Not recommended	Not recommended	Not recommended	Not recommended	Not recommended	Not recommended
16 AWG	18 ft.	9 ft.	5 ft.	2 ft.	Not recommended	Not recommended	Not recommended	Not recommended	Not recommended
14 AWG	34 ft.	20 ft.	13 ft.	9 ft.	6 ft.	4 ft.	2 ft.	Not recommended	Not recommended
12 AWG	60 ft.	37 ft.	26 ft.	19 ft.	14 ft.	11 ft.	9 ft.	7 ft.	5 ft.
10 AWG	100 ft.	64 ft.	46 ft.	35 ft.	28 ft.	22 ft.	19 ft.	16 ft.	13 ft.



PERFORMANCE DETAILS – LED LAMPING

FIXTURE TYPE	SIZE	DELIVERED LUMENS ³ (LM)	WATTS ⁶ (W)	MOUNTING OPTIONS	TOTAL FIXTURE SECTIONS	SUSPENSION POINTS	POWER DROPS ⁷		REMOTE DRIVER BOXES		APPROX. WEIGHT (LBS)
							0-10V, DALI, DMX	ECOSYS	0-10V, DALI, DMX	ECOSYS	
D4	4ft. Dia. (Nominal)	2390	57.5	Surface or Suspended	1x Joined Arc	4x Total	1	1	1	1	18
D5	5ft. Dia.	2870	69				1	1	1	1	22.5
D6	6ft. Dia.	3440	82.8		4x Joined Arcs	4x Total, 1x Per Arc	1	2	1	2	27
D8	8ft. Dia.	4590	110.4			6x Total, Across 4x Arcs	1	2	1	2	36
D4/CA	4ft. Dia. (Nominal)	2390	57.5	Suspended (With Central Axis Canopy)	4x Joined Arc	4x Total	1	1	1	1	18
D5/CA	5ft. Dia.	2870	69				1	1	1	1	22.5
D6/CA	6ft. Dia.	3440	82.8		4x Joined Arcs	4x Total, 1x Per Arc	1	1	1	2	27
D8/CA	8ft. Dia.	4590	110.4			6x Total, Across 4x Arcs	1	1	1	2	36
Q25	25in. Radius	600	14.4	Surface or Suspended	1x Arc	3x Total	1	1	1	1	4.5
Q30	30in. Radius	720	17.3								5.63
Q36	36in. Radius	860	20.7								6.75
Q48	48in. Radius	1150	27.6								9

⁶Performance calculations derived from actual IES test of D2 LED/3500K 0/10V driver

⁷Power 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.

STANDARD FINISHES

Standard finishes are available at no additional charge.

ALUMINUM



Anodized
Aluminum

BASIC POWDER COAT



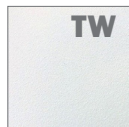
Gloss
White



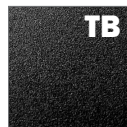
Satin
White



Antimicrobial
Satin
White



Textured
Matte
White



Textured
Matte
Black

METALLIC POWDER COAT



Silver
Gray



Charcoal
Gray



Copper

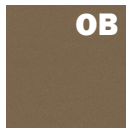


Brass

SATIN ANODIZED EFFECT POWDER COAT



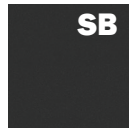
Clear
Silver



Oil-Rubbed
Bronze



Dark
Bronze



Satin
Black

GLOSS POWDER COAT (80-95% GLOSS)



Orange
RAL 2003



Red
RAL 3020



Magenta
RAL 4010



Blue
RAL 5015

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



CUSTOM COLOR MATCH: CCM_ _ _ _

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



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)

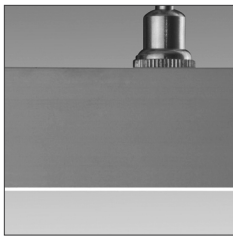
ADDITIONAL OPTIONS & SPECIFICATIONS

ELECTRICAL PERFORMANCE

Class 2 LED remote drivers are provided with 10' plenum-rated cable. 80+ CRI. Luminous flux +/- 5%.

LENS

Extruded, twin-layered, high-impact acrylic. EXT is white and extra diffuse with minimal- to no-source visibility.



FLUSH LENS – EXT/F

HOUSING

100% recyclable, extruded architectural grade 6061 aluminum with a 0.08" minimum wall thickness.

SAFETY & REGULATORY

ETL Listed (U.S. & Canada). Suitable for dry or damp locations. 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 CONDITIONS

Luminaire should be installed and operated ONLY in dry or damp locations 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.



C1/2/3/4



CRESCENT MOONRING

STANDALONE & CONTINUOUS/ROTATABLE SHAPES

MR1.5/MR3-Q | SUSPENDED, CEILING

STANDARD SIZES

1.5" or 3" Aperture

Crescents (quarter rings) with radii from 24in. to 96in

Standalone Crescents & Connectable via Rotatable Connectors

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

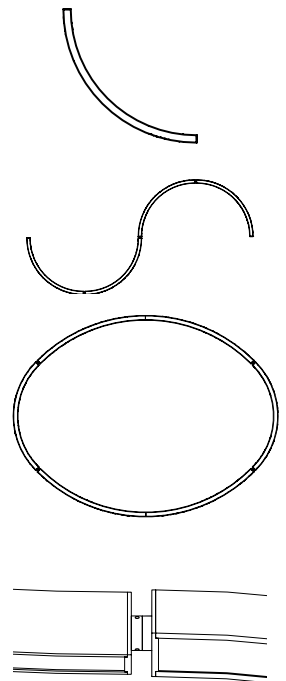
Two Tone Paint Options (Select Models):

18 standard finishes available at no extra charge

RAL classic colors, TCI / Tiger Drylac catalog colors, and custom color match also available

CONSTRUCTION

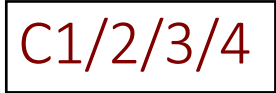
Industrial Strength Extruded & Welded 6061 Aluminum



enlighted **VIVE** by **LUTRON**

CRESCENT MR – SPECIFICATIONS
SUSPENDED, CEILING

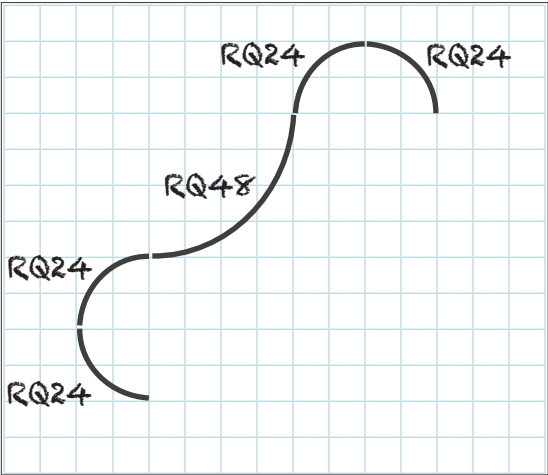
ALWUSA.COM



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).

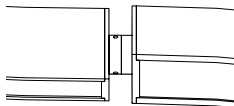
Count all of the Crescents sketched in step one, and indicate the quantity of each Crescent size in step 2 of the product submittal worksheet (pg. 4).

CONFIGURATIONS (INDICATE QTY OF CRESCENTS, NOT AVAILABLE WITH TS OR ST BASE MODELS)

CRESCENTS WITH ROTATABLE CONNECTORS* (MAX 20° TILT FROM HORIZONTAL)

- ☒ **RQ24/4** 24" Radius (*indicate quantity*)
- ☐ **RQ30/___** 30" Radius (*indicate quantity*)
- ☐ **RQ36/___** 36" Radius (*indicate quantity*)
- ☐ **RQ42/___** 42" Radius (*indicate quantity*)
- ☒ **RQ48/1** 48" Radius (*indicate quantity*)
- ☐ **RQ60/___** 60" Radius (*indicate quantity*)
- ☐ **RQ72/___** 72" Radius (*indicate quantity*)
- ☐ **RQ84/___** 84" Radius (*indicate quantity*)
- ☐ **RQ96/___** 96" Radius (*indicate quantity*)

*Can select multiple sizes for Crescent Configurations.



3. SUBMIT FORMS BELOW TO ALW FOR REVIEW.

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



C1/2/3/4

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

DESIRED CONFIGURATION (LOOKING FROM CEILING DOWNWARDS)

PRODUCT SUBMITTAL WORKSHEET

SAMPLE PRODUCT CODE

MR1.5/TS — Q24 — 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)

STANDALONE CRESCENT

- ☐ **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

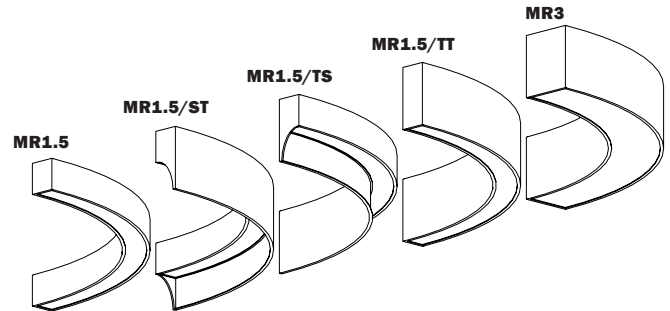
ROTATABLE CRESCENTS (DIRECT LAMPING ONLY)

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

*See pages 7-8 for dimensions.

CONTINUOUS CRESCENTS

- ☐ **MR1.5** 1.5", inside short wall, outside short wall



2. NOMINAL SIZE

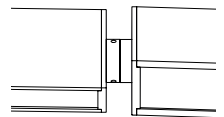
STANDALONE CRESCENTS (SINGLE SECTIONS)

- ☐ **Q24** 24" Radius (1/4 of D4 ring)
☐ **Q30** 30" Radius (1/4 of D5 ring)
☐ **Q36** 36" Radius (1/4 of D6 ring)
☐ **Q42** 42" Radius (1/4 of D7 ring)
☐ **Q48** 48" Radius (1/4 of D8 ring)
☐ **Q60** 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)

ROTATABLE CRESCENTS (ROTATABLE CONFIGURATIONS. MAX 20° TILT FROM HORIZONTAL)

INDICATE QTY OF SECTIONS / LENGTH OF LINEAR

- ☐ **RQ24/___** 24" Radius (indicate quantity)
☐ **RQ30/___** 30" Radius (indicate quantity)
☐ **RQ36/___** 36" Radius (indicate quantity)
☐ **RQ42/___** 42" Radius (indicate quantity)
☐ **RQ48/___** 48" Radius (indicate quantity)
☐ **RQ60/___** 60" Radius (indicate quantity)
☐ **RQ72/___** 72" Radius (indicate quantity)
☐ **RQ84/___** 84" Radius (indicate quantity)
☐ **RQ96/___** 96" Radius (indicate quantity)
☐ **S/___** Linear section (indicate total feet)

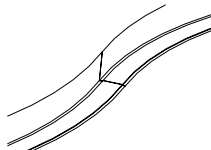


*Direct Lamping Only. Can select multiple sizes for Crescent Configurations.

CONTINUOUS CRESCENTS (SHAPES WITH CONTINUOUS LIGHT)

INDICATE QTY OF SECTIONS / LENGTH OF LINEAR

- ☐ **CQ24/___** 24" Radius (indicate quantity)
☐ **CQ30/___** 30" Radius (indicate quantity)
☐ **CQ36/___** 36" Radius (indicate quantity)
☐ **CQ42/___** 42" Radius (indicate quantity)
☐ **CQ48/___** 48" Radius (indicate quantity)
☐ **CQ60/___** 60" Radius (indicate quantity)
☐ **CQ72/___** 72" Radius (indicate quantity)
☐ **CQ84/___** 84" Radius (indicate quantity)
☐ **CQ96/___** 96" Radius (indicate quantity)
☐ **S/___** Linear section (indicate total feet)



*Can select multiple sizes for Crescent Configurations.

*Use chart on page # to calculate total linear length of section in feet

NOTE: 0.125 inch tolerance applies to "actual" measurements

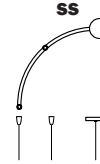
SS012720-C.0



C1/2/3/4

3. MOUNTING (CHOOSE ONE)

- ☐ **SS** Standard Suspension
- ☐ **CM** Ceiling Mounted (Not available with indirect lighting)



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

A. OUTPUT¹

- ☐ **MIN**
- ☐ **LOW**
- ☐ **MED**
- ☐ **HI**
- ☐ **TUNE** (2700K-6500K, 80CRI)
- ☐ **RGB**
- ☐ **RGBW** (80CRI, 3500K White)

B. CRI²

- ☐ **80**
- ☐ **90**

C. CCT²

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

DELIVERED
LUMENS (LM)

WATTS (W)

See pages 6-7 for complete details.

¹Direct/Indirect lighting combinations are limited when specifying HI OUTPUT due to increased thermal temperatures and/or driver type limitations. See the 'Direct/Indirect LED Lighting Chart' on page 8 and LED driver footnotes.

²CRI/CCT options not applicable for TUNE, RGB, or RGBW lighting.

5. REMOTE DRIVER³ — DIRECT (CHOOSE ONE .STD, TUNE & RGB(W) TABLE INDICATES COMPATIBLE LED LAMPING)

	STD ⁴	TUNE	RGB(W)
☐ 0/10V/S	●	●	0-10V dimming down to 5% (Standard Dimming — Down to 10% for TUNE lighting)
☐ 0/10V/1%	●	●	0-10V dimming down to 1%
☐ 0/10V/0%	●	●	0-10V premium dimming down to 0%
☐ ECOSYS1	●	●	(LDE1) Lutron Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology
☐ ECOSYS5	●	●	(LDE5) Lutron 5-Series Ecosystem LED driver (Dims to 5%)
☐ LTEA	●	●	Lutron Hi-lume 1% 2-wire TRIAC dimming (120V forward-phase only).
☐ DALI	●	●	DALI flicker-free dimming down to 0%
☐ DMX	●	●	DMX flicker-free dimming down to 0%

³Driver specifications provided upon request.

⁴Lutron Vive Control Systems is compatible only with STD lighting. See more information for compatible Driver under 'Sensor Options'.

6. LENS — DIRECT

- ☒ **LENS** Extra diffuse lens

SS012720-C.0



C1/2/3/4

7. LED LAMPING — INDIRECT (CHOOSE NONE OR ONE UNDER A, B, & C)

☐ **N** None. Choose when specifying rotatable connectors or when indirect lamping is not desired.

A. OUTPUT⁵

- ☐ **MIN**
☐ **LOW**
☐ **MED**
☐ **HI**
☐ **TUNE** (2700K-6500K, 80CRI)
☐ **RGB**
☐ **RGBW** (80CRI, 3500K White)

B. CRI⁶

- ☐ **80**
☐ **90**

C. CCT⁶

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

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

⁵Direct/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.

⁶CRI/CCT options not applicable for TUNE, RGB, or RGBW lamping.

8. REMOTE DRIVER⁷ — INDIRECT (CHOOSE ONE .STD, TUNE & RGB(W) TABLE INDICATES COMPATIBLE LED LAMPING)

	STD ⁸	TUNE	RGB(W)	
☐ 0/10V/S	●	●		0-10V dimming down to 5% (Standard Dimming — Down to 10% for TUNE lamping)
☐ 0/10V/1%	●	●		0-10V dimming down to 1%
☐ 0/10V/0%	●	●		0-10V premium dimming down to 0%
☐ ECOSYS1	●			(LDE1) Lutron Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology
☐ ECOSYS5	●			(LDE5) Lutron 5-Series Ecosystem LED driver (Dims to 5%)
☐ LTEA	●			Lutron Hi-lume 1% 2-wire TRIAC dimming (120V forward-phase only).
☐ DALI	●			DALI flicker-free dimming down to 0%
☐ DMX	●	●	●	DMX flicker-free dimming down to 0%

⁷Driver specifications provided upon request.

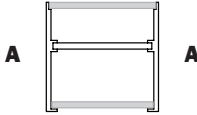
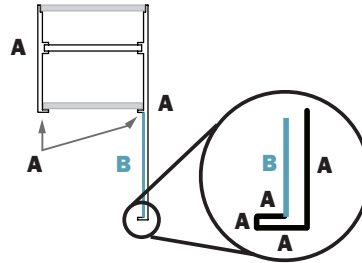
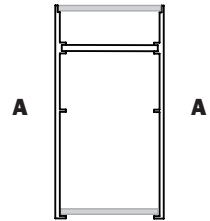
⁸Lutron Vive Control Systems is compatible only with STD lamping. See more information for compatible Driver under 'Sensor Options'.

9. LENS — INDIRECT (CHOOSE ONE)

- ☐ **N** None. Choose when specifying rotatable connectors or when indirect lamping is not desired. The lens will be substituted with an aluminum cover to match the exterior finish.
☐ **LENS** Extra diffuse lens
☐ **HT⁹** High transmission, near-clear lens

⁹High transmission lens increases lumen output by ~14%, but LED chip is visible. Recommended only when top-side of fixture is not directly visible.

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MR1.5 & MR3

MR1.5/ST & TS

MR1.5/TT


10. FINISH — SURFACE (A) (CHOOSE ONE. SEE PAGE 20 FOR LARGER SWATCHES AND ADDITIONAL INFORMATION)

STANDARD FINISHES

ALUMINUM

- ☐ **BA**  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 | ☐ Satin Black |

GLOSS POWDER COAT (80-95% GLOSS)

- | | |
|------------------------------------|---|
| ☐ GO | ☐ Orange (RAL 2003) |
| ☐ GR | ☐ Red (RAL 3020) |
| ☐ GM | ☐ Magenta (RAL 4010) |
| ☐ GB | ☐ Blue (RAL 5015) |

SPECIAL ORDER FINISHES

- ☐ **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

**11. FINISH — SURFACE (B)** (CHOOSE ONE. SEE PAGE 20 FOR LARGER SWATCHES AND ADDITIONAL INFORMATION)**STANDARD FINISHES****ALUMINUM**

- ☐ **BA**  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**  Satin Black

GLOSS POWDER COAT (80-95% GLOSS)

- ☐ **GO**  Orange (RAL 2003)
☐ **GR**  Red (RAL 3020)
☐ **GM**  Magenta (RAL 4010)
☐ **GB**  Blue (RAL 5015)

SPECIAL ORDER FINISHES

- ☐ **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

12. VOLTAGE (CHOOSE ONE)

- ☐ **UNV** 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** (INDICATE QUANTITY IF DESIRED, OTHERWISE IT WILL AUTOMATICALLY BE CALCULATED)

- ☐ **EMB/___¹⁰** Emergency Battery (*indicate quantity — each battery powers 2 linear feet. Not available in 347V*)
☐ **EMC/___¹⁰** Emergency Circuit (*indicate quantity of 4 linear foot section to be illuminated by emergency circuit*)

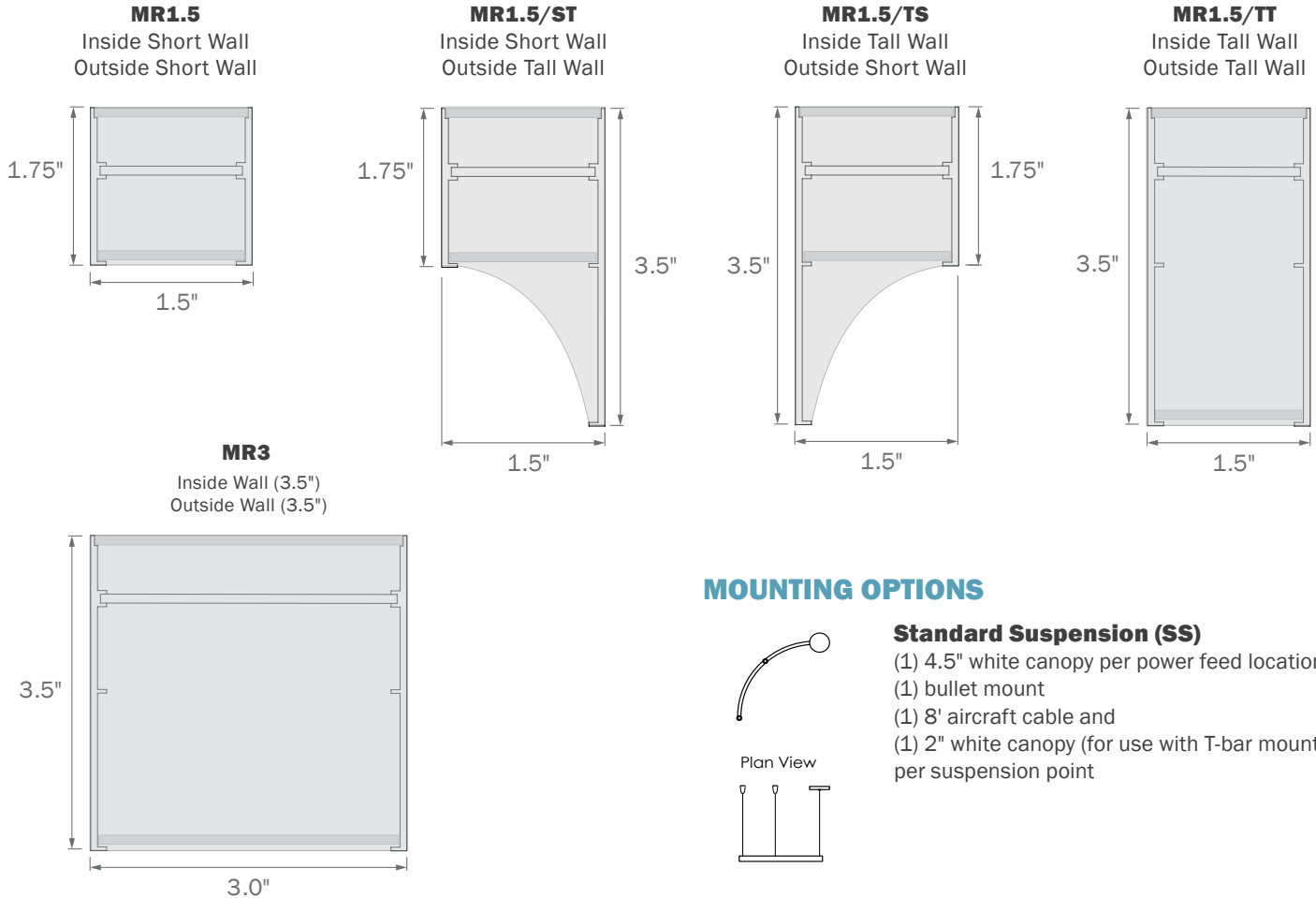
¹¹Consult ALW for more details.**B. SENSOR OPTIONS** (INDICATE QUANTITY IF DESIRED, OTHERWISE IT WILL AUTOMATICALLY BE CALCULATED)

- ☐ **FCJS/___¹¹** Lutron® Vive remote RF wireless fixture control (Lutron Part: FCJS-ECO or FCJS-010)
☐ **FCJS/S/___¹¹** Lutron® Vive remote RF wireless fixture control + daylight/occ sensor (Lutron Part: FCJS-ECO or FCJS-010, & FC-Sensor)
☐ **ENLGHT/___¹²** Enlighted® remote connected lighting smart sensor (Enlighted Part: SU-5S-H) (*occupancy, daylight, networking, and more*)
☐ **OS/___** 0-10V remote occupancy sensor
☐ **PH/___** 0-10V remote photocell/daylight sensor

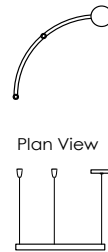
¹¹Lutron® Vive remote sensors are compatible with the following drivers: 0/10V/S, 0/10V/1, 0/10V/0 driver or ECOSYS. Programming required by Lutron Commissioner.¹²Enlighted® sensors are compatible with the following drivers: 0/10V/S, 0/10V/1, 0/10V/0. Programming required by Enlighted Commissioner. Additional 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** Combination 4.5" canopy at power feed locations to accommodate both power cord & suspension mount hardware.
☐ **SB** Seismic Bracing

MECHANICAL DIAGRAMS

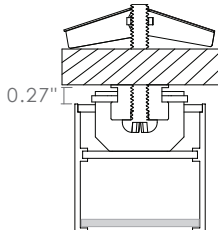


MOUNTING OPTIONS



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) per suspension point



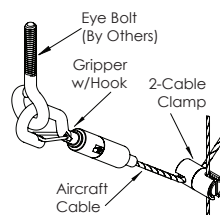
Ceiling Mount (CM)

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 (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.



Seismic Bracing (SB)

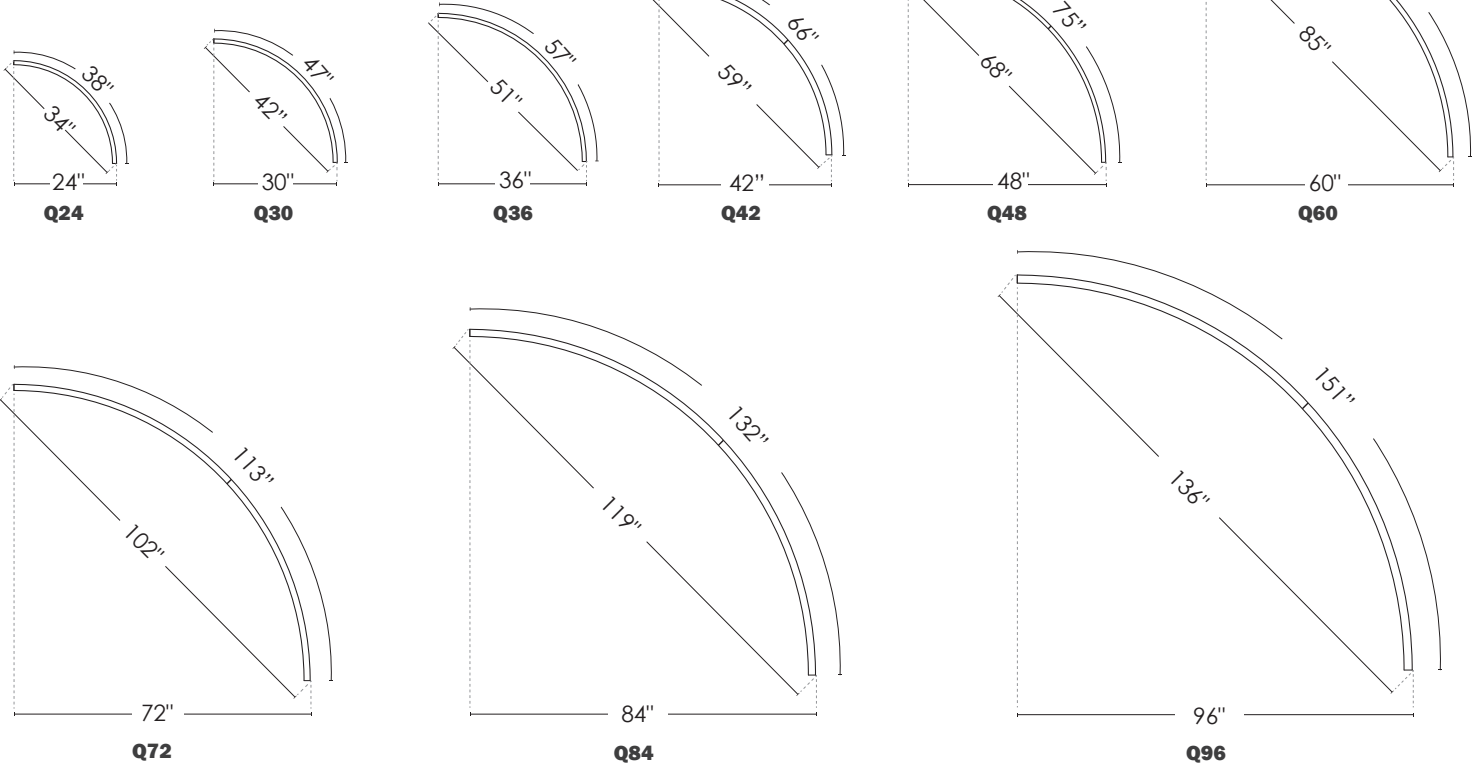
Add-on hardware includes cable gripper with hook, 2-cable clamp and specified length of aircraft cable per suspension point.

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DIMENSIONS

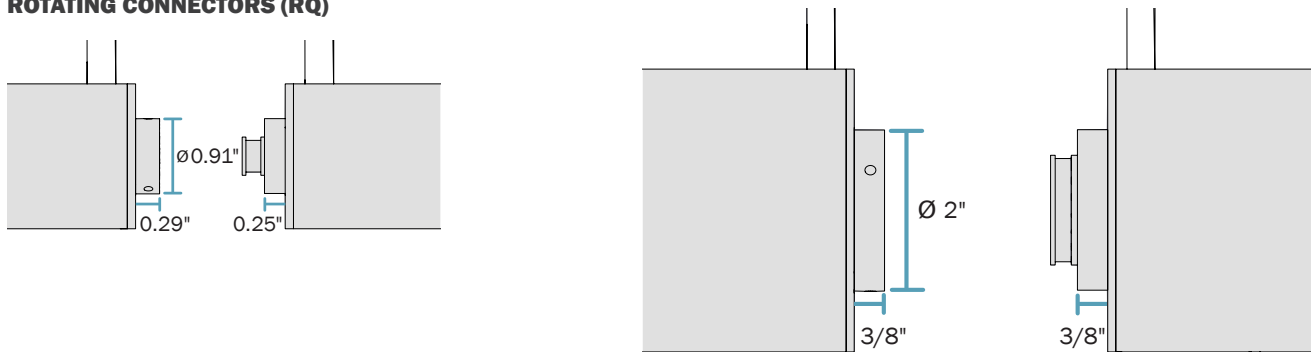
CRESCENT MOONRING

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)

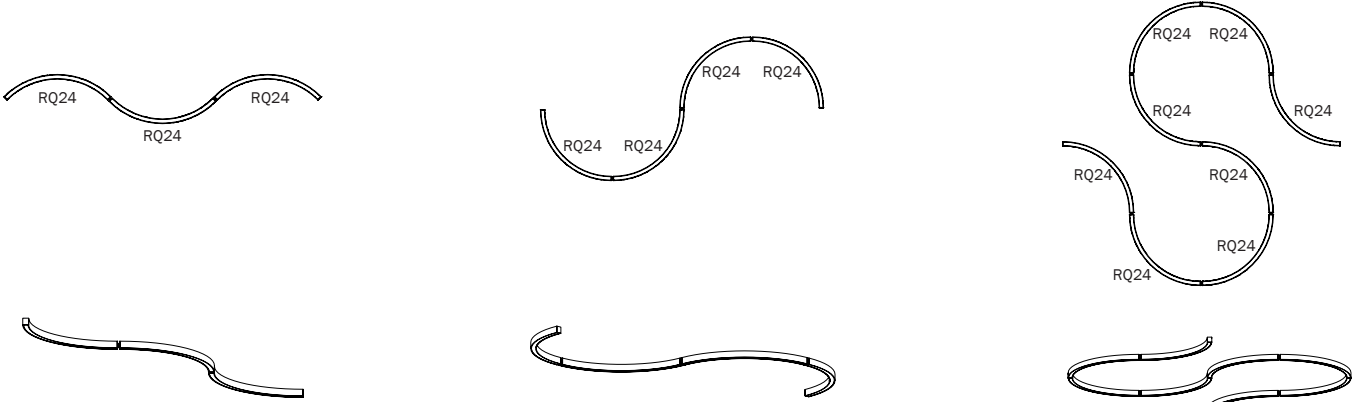


MR1.5

MR3

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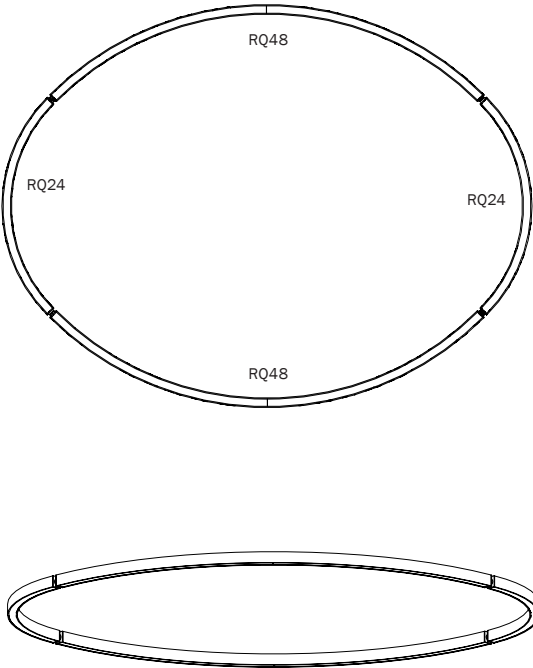
EXAMPLE CONFIGURATIONS (ILLUSTRATED WITH ROTATABL CONNECTORS)



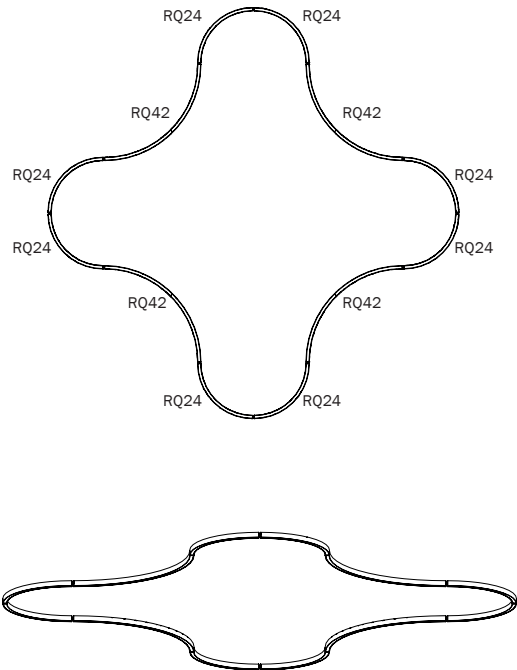
Serpentine
Depicted: RQ24/3
3x 24" Crescents
■ **RQ24/3**

S-Shapes
Depicted: RQ24/4
4x 24" Crescents
■ **RQ24/4**

Curves
Depicted: RQ24/8
8x 24" Crescents
■ **RQ24/8**



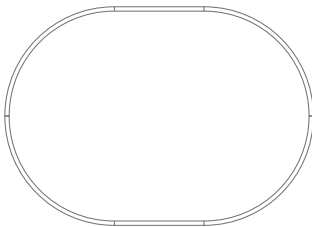
OVAL
Depicted: RQ24/2/RQ48/2
2x 24" and 2x 48" Crescents
■ **RQ24/2**
□ **RQ30/2**
□ **RQ36/2**
□ **RQ42/2**
■ **RQ48/2**



CLOVER
Depicted: RQ24/8/RQ42/4
8x 24" and 2x 42" Crescents
■ **RQ24/8**
□ **RQ30/4**
□ **RQ36/4**
■ **RQ42/2**

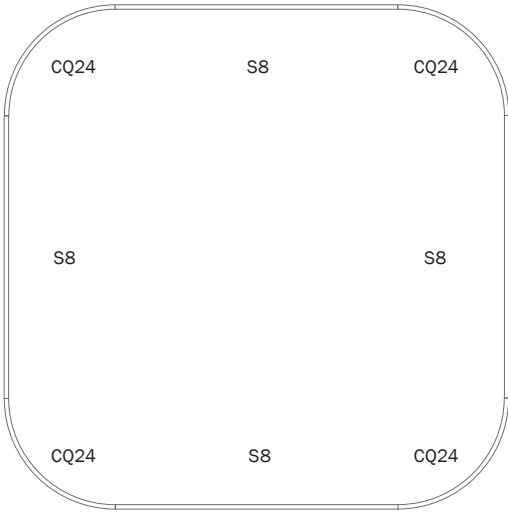
SAMPLE CONFIGURATION DIAGRAMS (ILLUSTRATED WITH ROTATABLE CONNECTORS)

STADIUM OVALS & ROUNDED RECTANGLES



Depicted: RQ24/4-S8
4x 24" Crescents and 2x 4ft. Straight Sections

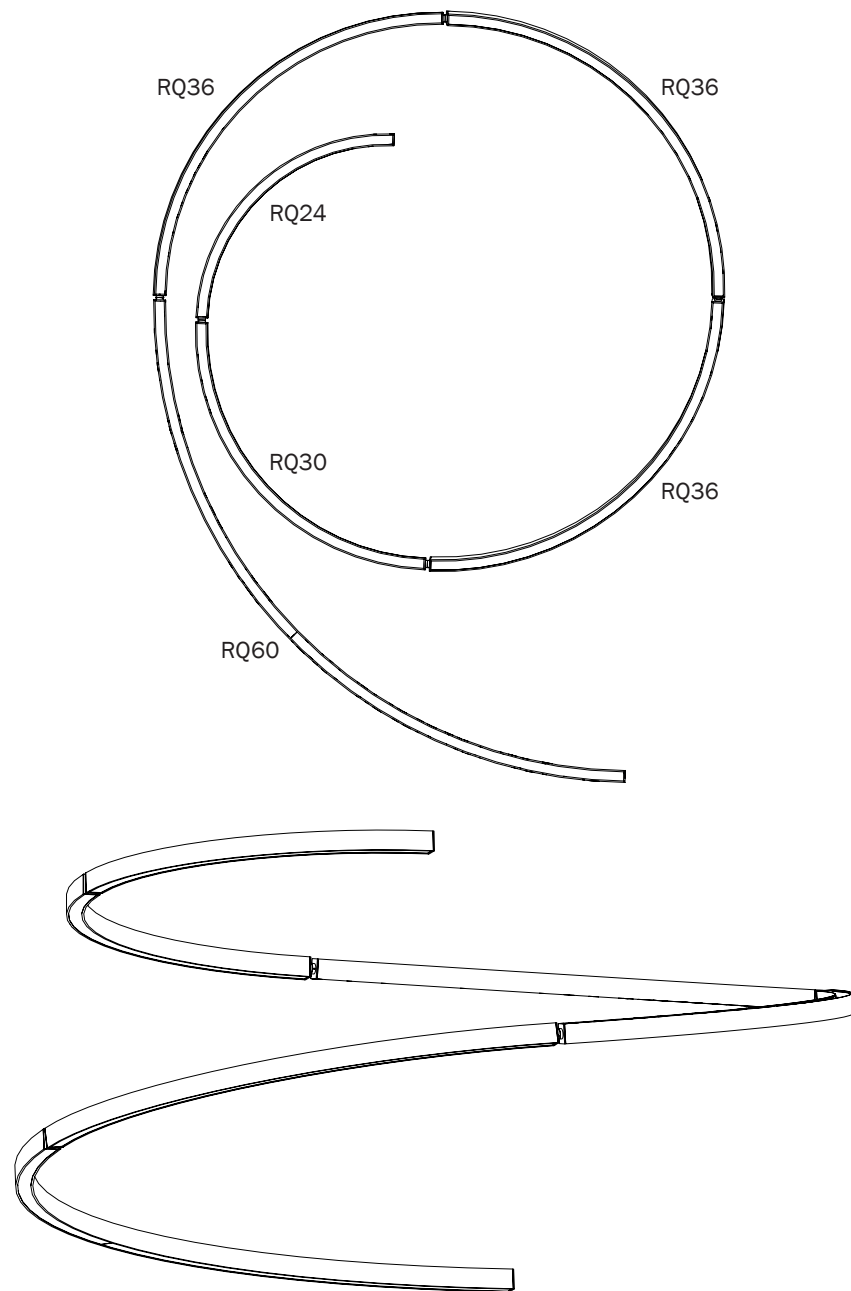
- **RQ24/4**
- **S8**



Depicted: RQ24/4-S32
4x 24" Crescents and 4x 8ft. Straight Sections

- **RQ24/4**
- **S32**

EXAMPLE CONFIGURATIONS (ILLUSTRATED WITH ROTATABL CONNECTORS)



SPIRAL/CORKSCREW

Depicted: RQ24/1/RQ30/1/RQ36/3/RQ60/1
1x 24", 1x 30", 3x 36", and 1x 60" Crescents

- ☒ RQ24/1
- ☒ RQ30/1
- ☒ RQ36/3
- ☐ RQ42/_
- ☐ RQ48/_
- ☒ RQ60/1



PERFORMANCE & MOUNTING DETAILS – MR1.5⁸

RING DIAMETER	OUTPUT TYPE	LUMENS (LM) <i>direct</i> <i>indirect</i>	WATTS (W) <i>direct OR indirect</i> <i>direct AND indirect</i>	POWER DROPS ⁹ <i>direct OR indirect</i> <i>direct AND indirect</i> <i>(Standard Driver)¹¹</i>	REMOTE DRIVER BOXES ¹⁰ <i>direct OR indirect</i> <i>direct AND indirect</i> <i>(Standard Driver)¹¹</i>	SUSPENSION POINTS	APPROX. WEIGHT (LBS)
Q24 (MR1.5)	MIN	750 850	11 22	1 1	1 1	3	6.25
	LOW	1125 1250	17 34	1 1	1 1		
	MED	1500 1700	23 46	1 1	1 1		
	HI	2250 N/A	34 N/A	1 N/A	1 N/A		
	RGB/RGBW	875/1600 975/1800	26/31 52/62	1 1	1 2		
	TUNABLE	2225 2475	18 36	1 1	1 2		
Q30 (MR1.5)	MIN	950 1050	14 28	1 1	1 1	3	8
	LOW	1400 1575	22 44	1 1	1 1		
	MED	1875 2100	28 56	1 1	1 1		
	HI	2825 N/A	43 N/A	1 1	1 N/A		
	RGB/RGBW	1100/2000 1225/2225	32/39 64/78	1 1	1 2		
	TUNABLE	2785 3100	22 44	1 1	1 2		
Q36 (MR1.5)	MIN	1125 1275	17 34	1 1	1 1	3	9.5
	LOW	1700 1900	26 52	1 1	1 1		
	MED	2250 2525	35 70	1 1	1 1		
	HI	3375 N/A	52 N/A	1 N/A	1 N/A		
	RGB/RGBW	1325/2400 1475/2675	40/48 80/96	1 1	1 2		
	TUNABLE	3325 3700	27 54	1 1	1 2		
Q42 (MR1.5)	MIN	1325 1475	20 40	1 1	1 1	3	10.5
	LOW	1975 2225	30 60	1 1	1 1		
	MED	2625 2950	40 80	1 1	1 1		
	HI	3950 N/A	61 N/A	1 N/A	1 N/A		
	RGB/RGBW	1525/2800 1700/3100	46/55 92/110	1 1	1 2		
	TUNABLE	3800 4325	31 62	1 1	1 2		

⁸Performance calculations are based on LM-T9 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.

⁹Power 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.

¹⁰One or more drivers may be enclosed in each Remote Driver Box. See your final drawing/submittal for details.

¹¹Applies to 0/10V/S drivers (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.)⁸**

RING DIAMETER	OUTPUT TYPE	LUMENS (LM) <i>direct indirect</i>	WATTS (W) <i>direct OR indirect direct AND indirect</i>	POWER DROPS⁹ <i>direct OR indirect direct AND indirect (Standard Driver)¹¹</i>	REMOTE DRIVER BOXES¹⁰ <i>direct OR indirect direct AND indirect (Standard Driver)¹¹</i>	SUSPENSION POINTS	APPROX. WEIGHT (LBS)
Q48 (MR1.5)	MIN	1500 1675	23 46	1 1	1 1	3	12.5
	LOW	2250 2525	35 70	1 1	1 1		
	MED	3000 3375	46 92	1 1	1 1		
	HI	4500 N/A	70 N/A	1 N/A	1 N/A		
	RGB/RGBW	1750/3200 1925/3550	54/63 108/126	1 1	1 2		
	TUNABLE	4450 4950	36 72	1 1	1 2		
Q60 (MR1.5)	MIN	1875 2100	29 58	1 1	1 1	3	16
	LOW	2825 3150	44 88	1 1	1 1		
	MED	3750 4225	58 116	1 1	1 1		
	HI	5625 N/A	87 N/A	1 N/A	1 N/A		
	RGB/RGBW	2175/4000 2425/4450	66/80 132/160	1 1	1 2		
	TUNABLE	5550 6175	45 90	1 1	1 2		
Q72 (MR1.5)	MIN	2250 2525	35 70	1 1	1 1	3	19
	LOW	3375 3800	52 104	1 1	1 1		
	MED	4500 5050	70 140	1 1	1 2		
	HI	6750 N/A	105 N/A	1 N/A	1 N/A		
	RGB/RGBW	2625/4800 2900/5325	80/97 160/194	1 1	1 2		
	TUNABLE	6675 7425	54 108	1 1	1 2		
Q84 (MR1.5)	MIN	2625 2950	41 82	1 1	1 1	3	22
	LOW	3950 4425	61 122	1 1	1 1		
	MED	5250 5900	82 164	1 1	1 2		
	HI	7875 N/A	122 N/A	1 N/A	1 N/A		
	RGB/RGBW	3050/5575 3375/6225	94/112 188/224	1 1	1/2 N/A		
	TUNABLE	7775 8650	63 126	1 1	1 2		

⁸Performance 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.

⁹Power 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.

¹⁰One or more drivers may be enclosed in each Remote Driver Box. See your final drawing/submittal for details.

¹¹Applies to 0/10V/S drivers (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.)⁸

RING DIAMETER	OUTPUT TYPE	LUMENS (LM) <i>direct indirect</i>	WATTS (W) <i>direct OR indirect direct AND indirect</i>	POWER DROPS ⁹ <i>direct OR indirect direct AND indirect (Standard Driver)¹¹</i>	REMOTE DRIVER BOXES ¹⁰ <i>direct OR indirect direct AND indirect (Standard Driver)¹¹</i>	SUSPENSION POINTS	APPROX. WEIGHT (LBS)
Q96 (MR1.5)	MIN	3000 3375	47 94	1 1	1 1	3	25
	LOW	4500 5050	70 140	1 1	1 2		
	MED	6000 6750	94 188	1 1	1 2		
	HI	9000 N/A	140 N/A	1 N/A	1 N/A		
	RGB/RGBW	3475/6400 3875/7100	108/129 216/258	1 N/A	1 N/A		
	TUNABLE	8900 9875	73 146	1 1	1 2		

PERFORMANCE & MOUNTING DETAILS – MR3⁸

RING DIAMETER	OUTPUT TYPE	LUMENS (LM) <i>direct indirect</i>	WATTS (W) <i>direct OR indirect direct AND indirect</i>	POWER DROPS ⁹ <i>direct OR indirect direct AND indirect (Standard Driver)¹¹</i>	REMOTE DRIVER BOXES ¹⁰ <i>direct OR indirect direct AND indirect (Standard Driver)¹¹</i>	SUSPENSION POINTS	APPROX. WEIGHT (LBS)
Q24 (MR3)	MIN	1175 1325	11 22	1 1	1 1	3	7
	LOW	1775 2000	17 34	1 1	1 1		
	MED	2375 2650	23 46	1 1	1 1		
	HI	3550 N/A	34 N/A	1 N/A	1 N/A		
	RGB/RGBW	925/1700 1050/1900	26/31 52/62	1 1	1 2		
	TUNABLE	2350 2650	18 36	1 1	1 2		
Q30 (MR3)	MIN	1475 1650	14 28	1 1	1 1	3	9
	LOW	2225 2500	22 44	1 1	1 1		
	MED	2950 3325	28 56	1 1	1 1		
	HI	4425 N/A	43 N/A	1 N/A	1 N/A		
	RGB/RGBW	1150/2125 1300/2375	32/39 64/78	1 1	1 2		
	TUNABLE	2950 3325	22 44	1 1	1 2		

⁸Performance 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.

⁹Power 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.

¹⁰One or more drivers may be enclosed in each Remote Driver Box. See your final drawing/submittal for details.

¹¹Applies to 0/10V/S drivers (DMX for RGB/RGBW). For additional info on other driver models see your final drawing/submittal.



PERFORMANCE & MOUNTING DETAILS – MR3 (CONT.)⁸

RING DIAMETER	OUTPUT TYPE	LUMENS (LM) <i>direct</i> <i>indirect</i>	WATTS (W) <i>direct OR indirect</i> <i>direct AND indirect</i>	POWER DROPS ⁹ <i>direct OR indirect</i> <i>direct AND indirect</i> <i>(Standard Driver)¹¹</i>	REMOTE DRIVER BOXES ¹⁰ <i>direct OR indirect</i> <i>direct AND indirect</i> <i>(Standard Driver)¹¹</i>	SUSPENSION POINTS	APPROX. WEIGHT (LBS)
Q36 (MR3)	MIN	1775 2000	17 34	1 1	1 1	3	10.5
	LOW	2650 2975	26 52	1 1	1 1		
	MED	3550 3975	35 70	1 1	1 1		
	HI	5325 N/A	52 N/A	1 N/A	1 N/A		
	RGB/RGBW	1375/2550 1550/2850	40/48 80/96	1 1	1 2		
	TUNABLE	3450 3975	27 54	1 1	1 2		
Q42 (MR3)	MIN	2075 2325	20 40	1 1	1 1	3	11.75
	LOW	3100 3475	30 60	1 1	1 1		
	MED	4150 4650	40 80	1 1	1 1		
	HI	6200 N/A	61 N/A	1 N/A	1 N/A		
	RGB/RGBW	1625/2975 1825/3350	46/55 92/110	1 1	1 2		
	TUNABLE	4125 4650	31 62	1 1	1 2		
Q48 (MR3)	MIN	2375 2650	23 46	1 1	1 1	3	14
	LOW	3550 3975	35 70	1 1	1 1		
	MED	4725 5300	46 92	1 1	1 1		
	HI	7100 N/A	70 N/A	1 N/A	1 N/A		
	RGB/RGBW	1850/3400 2075/3825	54/63 108/126	1 1	1 2		
	TUNABLE	4725 5300	36 72	1 1	1 2		
Q60 (MR3)	MIN	2950 3325	29 58	1 1	1 1	3	17.75
	LOW	4425 4975	44 88	1 1	1 1		
	MED	5900 6650	58 116	1 1	1 1		
	HI	8875 N/A	87 N/A	1 N/A	1 N/A		
	RGB/RGBW	2300/4250 2600/4775	66/80 132/160	1 1	1 2		
	TUNABLE	5900 6650	45 90	1 1	1 2		

⁸Performance 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.

⁹Power 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.

¹⁰One or more drivers may be enclosed in each Remote Driver Box. See your final drawing/submittal for details.

¹¹Applies to 0/10V/S drivers (DMX for RGB/RGBW). For additional info on other driver models see your final drawing/submittal.

SS012720-C.0



PERFORMANCE & MOUNTING DETAILS – MR3 (CONT.)⁸

RING DIAMETER	OUTPUT TYPE	LUMENS (LM) <i>direct indirect</i>	WATTS (W) <i>direct OR indirect direct AND indirect</i>	POWER DROPS ⁹ <i>direct OR indirect direct AND indirect (Standard Driver)¹¹</i>	REMOTE DRIVER BOXES ¹⁰ <i>direct OR indirect direct AND indirect (Standard Driver)¹¹</i>	SUSPENSION POINTS	APPROX. WEIGHT (LBS)
Q72 (MR3)	MIN	3350 3975	35 70	1 1	1 1	3	21
	LOW	5325 5975	52 104	1 1	1 1		
	MED	7100 7975	70 140	1 1	1 2		
	HI	10625 N/A	105 N/A	1 N/A	1 N/A		
	RGB/RGBW	2775/5100 3125/5725	80/97 160/194	1 1	1 2		
	TUNABLE	7075 7975	54 108	1 1	1 2		
Q84 (MR3)	MIN	4150 4650	41 82	1 1	1 1	3	24.5
	LOW	6200 6975	61 122	1 1	1 1		
	MED	8275 9300	82 164	1 1	1 2		
	HI	12400 N/A	122 N/A	1 N/A	1 N/A		
	RGB/RGBW	3225/5925 3625/6675	94/112 188/224	1 1 / N/A	1/2 2 / N/A		
	TUNABLE	8275 9300	63 126	1 1	1 2		
Q96 (MR3)	MIN	4725 5300	47 94	1 1	1 1	3	27.75
	LOW	7100 7950	70 140	1 1	1 1		
	MED	9450 10625	94 188	1 1	1 2		
	HI	14175 N/A	140 N/A	1 N/A	1 N/A		
	RGB/RGBW	3700/6775 4150/7625	108/129 216/258	1 N/A	2 N/A		
	TUNABLE	9450 10625	73 146	1 1	1 2		

⁸Performance 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.

⁹Power 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.

¹⁰One or more drivers may be enclosed in each Remote Driver Box. See your final drawing/submittal for details.

¹¹Applies to 0/10V/S 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	✓	✓	✓			✓	✓	✓

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

- Use the charts above to determine power consumption of the crescent in question, and refer to final/record drawings to determine number of remote drivers.
- Let's say the load is 160W, and there are two remote drivers. This is approximately 80W (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 14 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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STANDARD FINISHES

Standard finishes are available at no additional charge.

ALUMINUM



Brushed
Aluminum

BASIC POWDER COAT



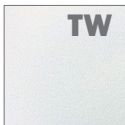
Gloss
White



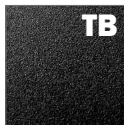
Satin
White



Antimicrobial
Satin
White



Textured
Matte
White



Textured
Matte
Black

METALLIC POWDER COAT



Silver
Gray



Charcoal
Gray



Copper



Brass

SATIN ANODIZED EFFECT POWDER COAT



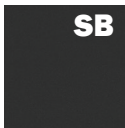
Clear
Silver



Oil-Rubbed
Bronze



Dark
Bronze



Satin
Black

GLOSS POWDER COAT (80-95% GLOSS)



Orange
RAL 2003



Red
RAL 3020



Magenta
RAL 4010



Blue
RAL 5015

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



CUSTOM COLOR MATCH: CCM_ _ _ _

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



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)

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 ~14%, 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.

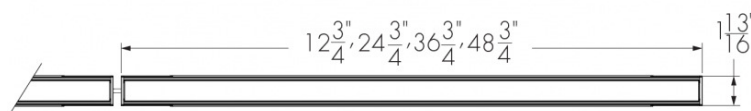


CONTROLS, SENSORS, & LED DRIVER

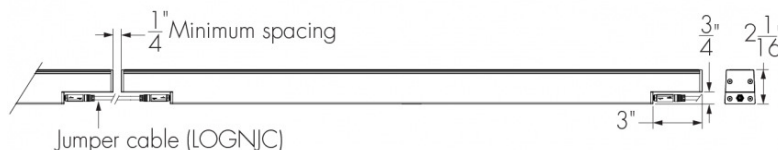
ALW lighting fixtures are intended for use with a wide range of sensors, lighting controls, LED drivers, and building management systems. Our component portfolio is continually expanding to adopt to the latest technologies and specification needs. We currently support integration with Lutron, Enlighted, 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.

Project Name _____ Qty _____

Type _____ Catalog / Part Number _____



Top view



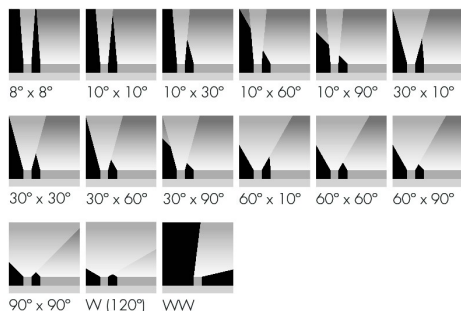
Front and side views

Photometric Summary

4ft, 4 W/ft, 4000K	Delivered output (lm)	Intensity (peak cd)
8°x8°	1,530	41,352
10°x10°	1,456	32,262
10°x30°	1,435	9,126
10°x60°	1,427	4,867
10°x90°	1,424	2,551
30°x10°	1,439	9,098
30°x30°	1,767	4,079
30°x60°	1,713	2,581
30°x90°	1,726	1,865
60°x10°	1,426	5,647
60°x60°	1,730	1,279
60°x90°	1,719	1,540
90°x90°	1,690	1,045
W (120°)	864	N/A
WW	1,524	7,393

Photometric performance is measured in compliance with IESNA LM 79-08.

Optics



Description

The Lumenfacade Nano White and Static Colors is a high-efficiency linear LED luminaire that goes where no facade lighting has gone before. Available in 12 in, 24 in, 36 in or 48 in sections, the Lumenfacade Nano is the right fit for general urban structures, historical buildings and those hardest to reach places. The Lumenfacade Nano packs all the bells and whistles of the larger members of the Lumenfacade family and can be configured with a wide number of options, including: optics for grazing, floodlighting or wall washing; a choice of outputs; various color temperatures or static colors; various mounting options, finishes, accessories and controls. The Lumenfacade Nano is also available with a unique asymmetric distribution, providing exceptional uniformity and brightness for walls and signage.

Features

Color and Color Temperature	2200K, 2700K, 3000K, 3500K, 4000K, Red, Green, Blue
Optics	8° x 8°, 10° x 10°, 10° x 30°, 10° x 60°, 10° x 90°, 30° x 10°, 30° x 30°, 30° x 60°, 30° x 90°, 60° x 10°, 60° x 60°, 60° x 90°, 90° x 90°, Wide 120°, Asymmetric Wallwash
Options	Corrosion-resistant coating for hostile environments
Power Consumption	2 W/ft, 4 W/ft
Warranty	5-year limited warranty

Performance

Delivered Output	884 lm (2 W/ft, 48 in fixture, 4000K, 30° x 30°, UCTL), 1,767 lm (4 W/ft, 48 in fixture, 4000K, 30° x 30°, UCTL)
Delivered Intensity	20,676 cd at nadir (2 W/ft, 48 in fixture, 4000K, 8° x 8°, UCTL), 41,352 cd at nadir (4 W/ft, 48 in fixture, 4000K, 8° x 8°, UCTL)
Illuminance at Distance	Minimum 1 fc at 144 ft (2 W/ft, 48 in fixture, 4000K, 8° x 8°, UCTL), Minimum 1 fc at 203 ft (4 W/ft, 48 in fixture, 4000K, 8° x 8°, UCTL)
Color Consistency	3 SDCM (2 SDCM for 8° x 8°, 10° x 10°, 10° x 30°, 10° x 60°, 10° x 90°, 30° x 10°, 60° x 10°, W and WW optics)

Colors and Color Temperatures**Controls**

ON/OFF UCTL

Ratings

IP66 IK08

Certifications

Color Rendering	CRI 80+
Lumen Maintenance	L70 >90,000 hrs

Physical

Housing Material	Low copper content extruded aluminum
Lens Material	Clear tempered glass
Hardware Material	Stainless steel
End Cap Material	Machined aluminum
Gasket Material	Silicone
Surface Finish	Electrostatically applied polyester powder coat
Weight	1.4 lbs (12 in), 2.9 lbs (24 in), 4.4 lbs (36 in), 6 lbs (48 in)

Electrical and control

Voltage	48 VDC
Resolution (DMX/RDM)	Per fixture, 8-bit or 16-bit
Control	On/Off control, Universal control (compatible with 0-10V, DALI or DMX/RDM systems)

Environmental

Storage Temperature	-40 °F to 185 °F (device must reach start-up temperature value before operating)
Start-up Temperature	-13 °F to 122 °F
Operating Temperature	-40 °F to 122 °F
Ingress Protection Rating	IP66
Impact Resistance Rating	IK08 (IK09 for 48 in fixtures)

Accessories (order separately)

Cables	Lumenfacade Nano Jumper Cable, Trunk Power Cable, Trunk Data Cable, Lumenfacade Nano Jumper Cable Joiner
Control Boxes	Low-Voltage Control Box, Low-Voltage Splitter Box
Optical Accessories	Lumenfacade Nano Radial Louver, Lumenfacade Nano Visor
Control Systems	Lumentone™ 2, Pharos® kit
Diagnostic and Addressing Tools	LumenID

Optical option installation details

HFR - Half-frosted lens



- Always position frosted side toward the wall.
- Applicable for 8° x 8°, 10° x 10° or asymmetric wallwash optics only.

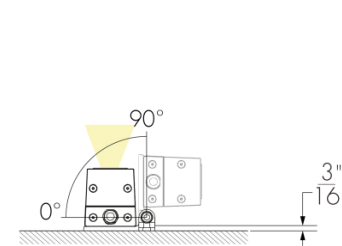
WW - Asymmetric wallwash

Recommended setback from wall is 1/10 of the wall height.
Example: 2 ft setback for a 20 ft wall.

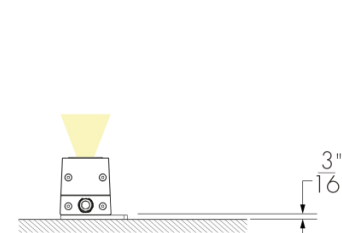
Mounting options

One mounting bracket provided for 12 in fixtures. Two mounting brackets provided for 24 in, 36 in and 48 in fixtures. See installation instructions for details.

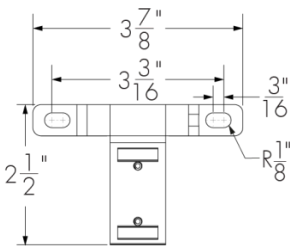
SAMN - Slim Adjustable Mounting Nano



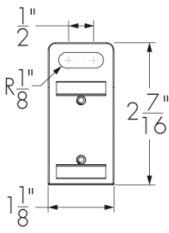
UMPN - Fixed Mounting Nano



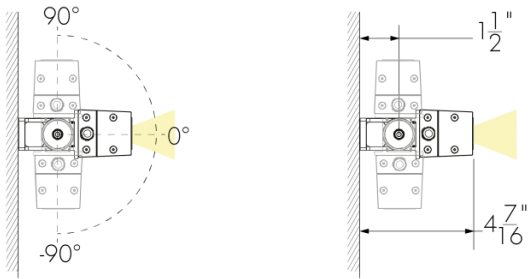
SAMN - Mounting hole pattern



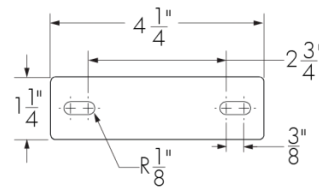
UMPN - Mounting hole pattern



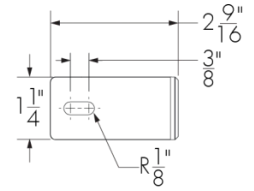
UMASN - Universal Adjustable Mounting Nano



UMASN - Mounting hole pattern

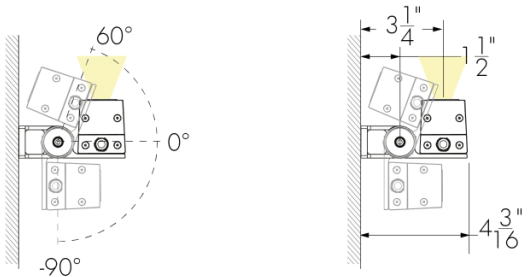


For 1 ft fixtures

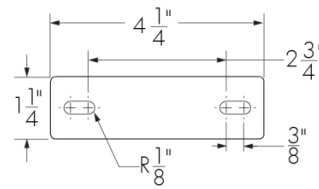


For 2 ft, 3 ft and 4 ft fixtures

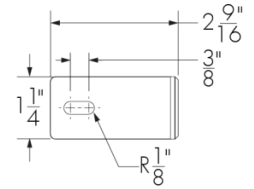
WAMN2 - Adjustable Extended Arm Mounting Nano 2 in



WAMN2 - Mounting hole pattern

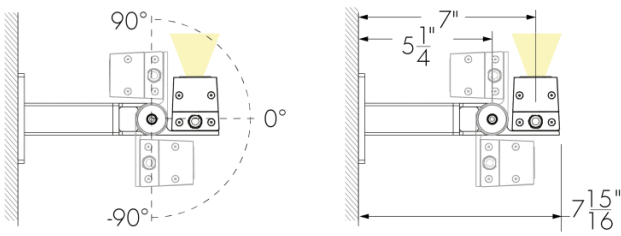


For 1 ft fixtures

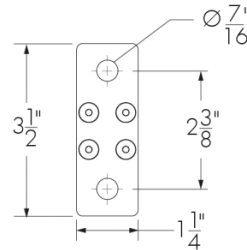


For 2 ft, 3 ft and 4 ft fixtures

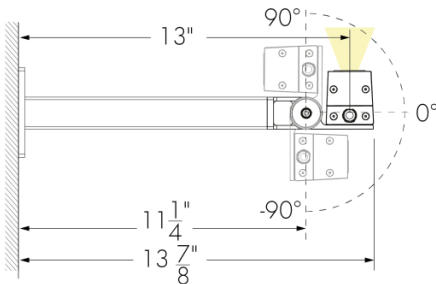
WAMN6 - Adjustable Extended Arm Mounting Nano 6 in



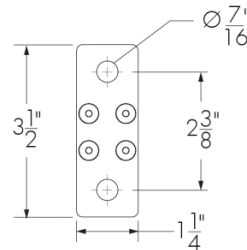
WAMN6 - Mounting hole pattern



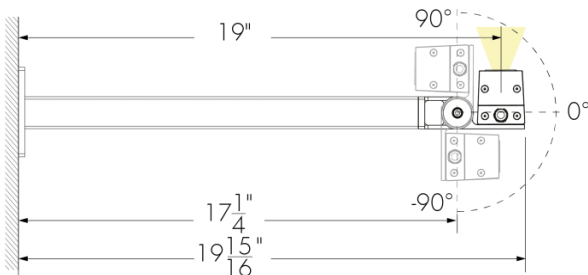
WAMN12 - Adjustable Extended Arm Mounting Nano 12 in



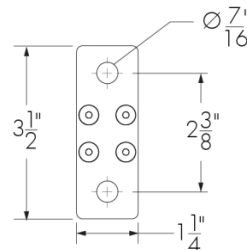
WAMN12 - Mounting hole pattern



WAMN18 - Adjustable Extended Arm Mounting Nano 18 in

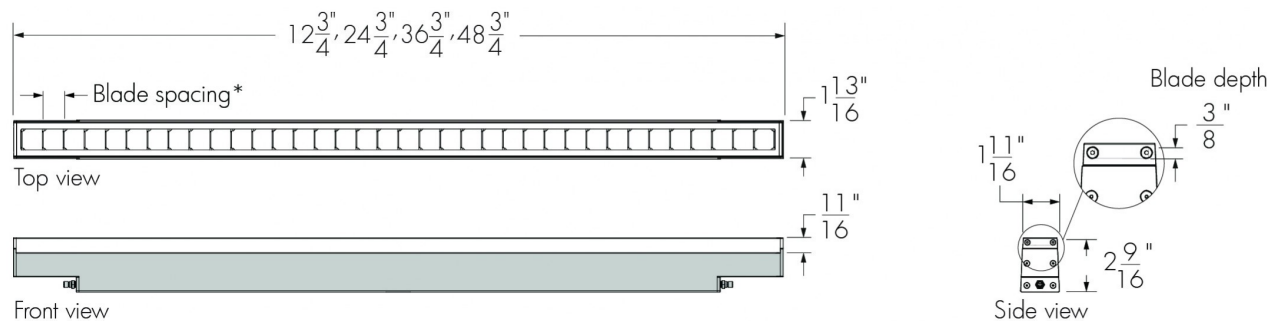


WAMN18 - Mounting hole pattern



Optical accessories (order separately)

LOGNRD - Radial louver for Lumenfacade Nano



*15/16 in blade spacing for 8° x 8°, 10° x 10°, 10° x 30°, 10° x 60°, 10° x 90°, 30° x 10° and 60° x 10° optics.

*1 15/16 in blade spacing for 30° x 30°, 30° x 60°, 30° x 90°, 60° x 60°, 60° x 90° and 90° x 90° optics.

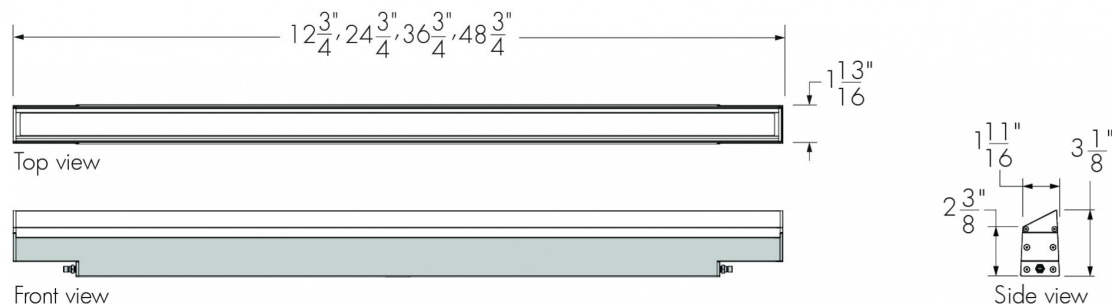
LOGNRD-LENGTH-FINISH-OPTIONS

Please specify:

LENGTH: 12 in, 24 in, 36 in or 48 in; **FINISH:** BK - Black Sandtex®, BRZ - Bronze Sandtex®, SI - Silver Sandtex®, WH - Smooth white or CC - custom color and finish (please specify RAL color); **OPTIONS:** CRC - Corrosion-resistant coating for hostile environments

- The addition of a louver will affect beam distribution. Consult factory for application support.
- Not suitable for wide 120° and asymmetric wallwash optics.
- Maximum one accessory per fixture. Louvers are field installable.

LOGNVS - Visor for Lumenfacade Nano



LOGNVS-LENGTH-FINISH-OPTIONS

Please specify:

LENGTH: 12 in, 24 in, 36 in or 48 in; **FINISH:** BK - Black Sandtex®, BRZ - Bronze Sandtex®, SI - Silver Sandtex®, WH - Smooth white or CC - custom color and finish (please specify RAL color); **OPTIONS:** CRC - Corrosion-resistant coating for hostile environments

- The addition of a visor will affect beam distribution. Consult factory for application support.
- Not suitable for wide 120° optic.
- Maximum one accessory per fixture. Visors are field installable.

Cables (order separately)

LOGNJC - Jumper cable for Lumenfacade Nano



Front view 4" Minimum bend radius for jumper cable

For minimal spacing between fixtures, use a 1 ft jumper cable.

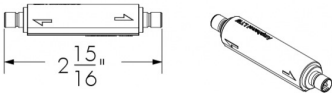
LOGNJC-CERTIFICATION-LENGTH-CABLE COLOR

Please specify: **CERTIFICATION:** UL or CE; **LENGTH:** 1 ft to 30 ft (available in 1 ft increments) or 50 ft; **CABLE COLOR:** black or white (connectors are the same color as the specified cable color).

- Suitable for dimming/data and non-dimming applications.
- Consult Lumenfacade Nano jumper cable specification sheet for all available cable lengths and additional information.

Joiner (order separately)

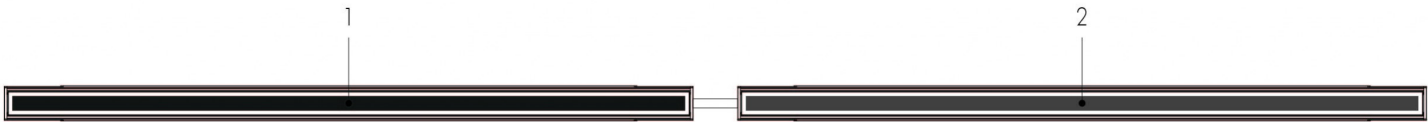
LOGNJC-JOINER - Joiner for Lumenfacade Nano Jumper Cable



- Use joiners to connect and lengthen jumper cables.
- Joiners add voltage drops. Consult factory to confirm impact on run length.
- Available in black.

Resolution details

DMX/RDM control, resolution per fixture: each fixture is addressed independently
DMX addresses:



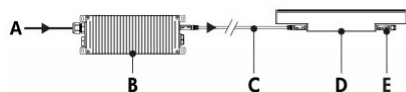
UCTL control option

- 48 in fixtures shown.
- Applicable for UCTL control only. A DMX/RDM enabled LCBX or LSBX is required for DMX/RDM control

Typical wiring diagrams

On/Off Control (NO)

Single unit - LCBX 60W



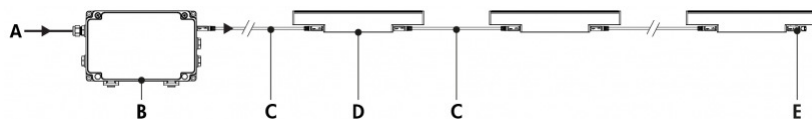
- A - Power input (120-277V, wiring by others)
- B - LCBX (60W)
- C - Jumper cable (LOGNJC)
- D - Lumenfacade Nano
- E - Terminator cap

Continuous run - LCBX 60W or 120W



- A - Power input (120-277V, wiring by others)
- B - LCBX (60W or 120W)
- C - Jumper cable (LOGNJC)
- D - Lumenfacade Nano
- E - Terminator cap

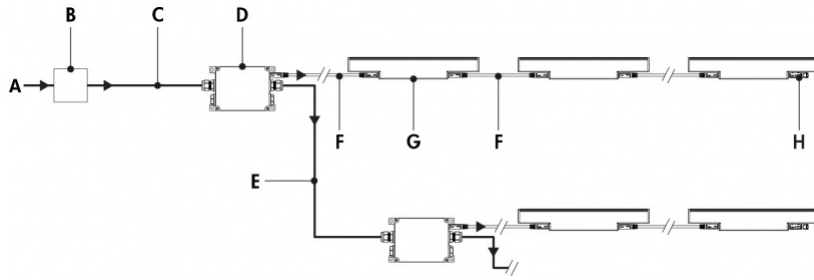
Continuous run - LCBX 200W



- A - Power input (120-277V, wiring by others)
- B - LCBX (200W)
- C - Jumper cable (LOGNJC)
- D - Lumenfacade Nano
- E - Terminator cap

- Consult factory for specific applications and maximum fixture count/run length recommendations.
- For installations of 600W or more, consult factory to select the optimal system: either a daisy chain continuous run system with LCBXs or a trunk system with LSBXs.
- Maximum of 1 output to fixture, or fixture run, per LCBX.
- Consult the LCBX specification sheet for more information.
- 2W version: 2 W/ft; 4W version: 4 W/ft.

Trunk system - LSBX

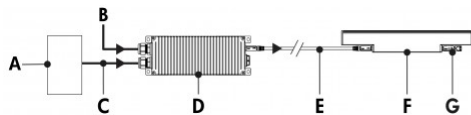


- A** - Power input (120-277V, wiring by others)
- B** - Power supply (48V, by others)
- C** - Power input (48V, order separately from Lumenpulse - Trunk Power Cable (TKPWR), or equivalent by others)
- D** - LSBX
- E** - Power output to next LSBX (48V, order separately from Lumenpulse - Trunk Power Cable (TKPWR), or equivalent by others)
- F** - Jumper cable (LOGNJC)
- G** - Lumenfacade Nano
- H** - Terminator cap

- Consult factory for specific applications and maximum fixture count/run length recommendations.
- For installations of 600W or more, consult factory to select the optimal system: either a daisy chain continuous run system with LCBXs or a trunk system with LSBXs.
- Maximum of 1 output to fixture run per LSBX.
- Consult the LSBX specification sheet for more information.
- Consult factory for power supply recommendations.
- 2W version: 2 W/ft; 4W version: 4 W/ft.

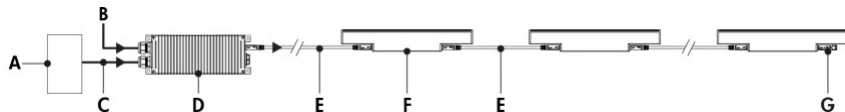
UCTL - Universal control

Single unit - LCBX 60W



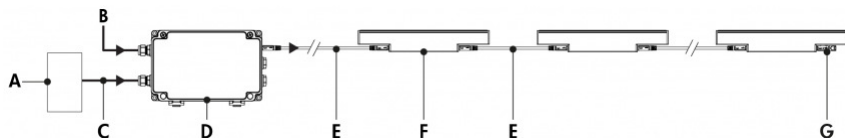
- A** - Dimmer/controller (order separately from Lumenpulse, or by others)
- B** - Power input (120-277V, wiring by others)
- C** - Data input (wiring by others)
- D** - LCBX (60W)
- E** - Jumper cable (LOGNJC)
- F** - Lumenfacade Nano
- G** - Terminator cap

Continuous run - LCBX 60W or 120W



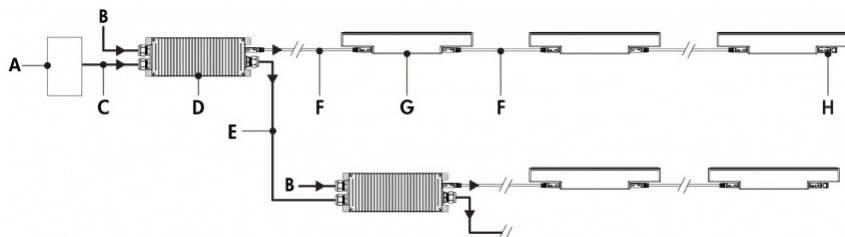
- A** - Dimmer/controller (order separately from Lumenpulse, or by others)
- B** - Power input (120-277V, wiring by others)
- C** - Data input (wiring by others)
- D** - LCBX (60W or 120W)
- E** - Jumper cable (LOGNJC)
- F** - Lumenfacade Nano
- G** - Terminator cap

Continuous run - LCBX 200W



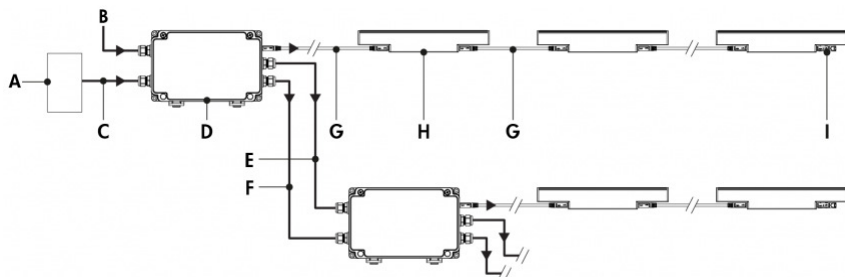
- A** - Dimmer/controller (order separately from Lumenpulse, or by others)
- B** - Power input (120-277V, wiring by others)
- C** - Data input (wiring by others)
- D** - LCBX (200W)
- E** - Jumper cable (LOGNJC)
- F** - Lumenfacade Nano
- G** - Terminator cap

Continuous run - Daisy chain LCBX 60W or 120W



- A** - Dimmer/controller (order separately from Lumenpulse, or by others)
- B** - Power input (120-277V, wiring by others)
- C** - Data input (wiring by others)
- D** - LCBX (60W or 120W)
- E** - Data output to next LCBX (wiring by others)
- F** - Jumper cable (LOGNJC)
- G** - Lumenfacade Nano
- H** - Terminator cap

Continuous run - Daisy chain LCBX 200W

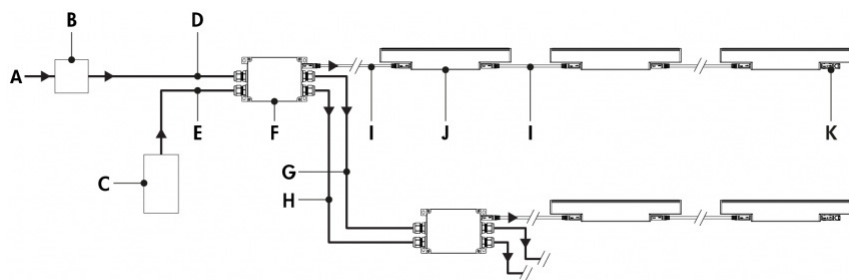


- A** - Dimmer/controller (order separately from Lumenpulse, or by others)
- B** - Power input (120-277V, wiring by others)
- C** - Data input (wiring by others)
- D** - LCBX (200W)
- E** - Power output to next LCBX (120-277V, wiring by others)
- F** - Data output to next LCBX (wiring by others)
- G** - Jumper cable (LOGNJC)
- H** - Lumenfacade Nano
- I** - Terminator cap

Maximum run length per LCBX (Based on a 50 ft master jumper cable)		
Configuration	2 W/ft	4 W/ft
LCBX 60W	28 ft	12 ft
LCBX 120W	52 ft	24 ft
LCBX 200W	76 ft	40 ft

- Consult factory for specific applications and maximum fixture count/run length recommendations.
- For installations of 600W or more, consult factory to select the optimal system: either a daisy chain continuous run system with LCBXs or a trunk system with LSBXs.
- Maximum of 1 output to fixture, or fixture run, per LCBX.
- Consult the LCBX specification sheet for more information.
- UCTL can be controlled via a 0-10V dimmer, DALI controller or DMX/RDM controller.
- For 0-10V dimming applications:
 - 0-10V mA ratings: Current Sink Mode: 25µA per LCBX; Current Source Mode: 2.5mA per LCBX.
- For DALI applications:
 - A maximum of 64 DALI fixtures per DALI loop.
- For DMX/RDM applications:
 - Each fixture requires 1 DMX channel.
 - A maximum of 128 UCTL devices on the output port of the LCBX.
- 1% minimum dimming value.
- 2W version: 2 W/ft; 4W version: 4 W/ft.

Trunk system - LSBX

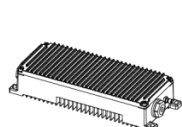


- A** - Power input (120-277V, wiring by others)
- B** - Power supply (48V, by others)
- C** - Controller (order separately from Lumenpulse, or by others)
- D** - Power input (48V, order separately from Lumenpulse - Trunk Power Cable (TKPWR), or equivalent by others)
- E** - Data input (order separately from Lumenpulse - Trunk Data Cable (TKDMX), or equivalent by others)
- F** - LSBX
- G** - Power output to next LSBX (48V, order separately from Lumenpulse - Trunk Power Cable (TKPWR), or equivalent by others)
- H** - Data output to next LSBX (order separately from Lumenpulse - Trunk Data Cable (TKDMX), or equivalent by others)
- I** - Jumper cable (LOGNJC)
- J** - Lumenfacade Nano
- K** - Terminator cap

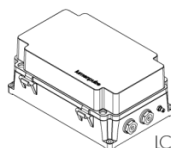
- Consult factory for specific applications and maximum fixture count/run length recommendations.
- For installations of 600W or more, consult factory to select the optimal system: either a daisy chain continuous run system with LCBXs or a trunk system with LSBXs.
- A maximum of 128 UCTL devices on the output port of the LSBX.
- Maximum of 1 output to fixture run per LSBX.
- Consult the LSBX specification sheet for more information.
- Consult factory for power supply recommendations.
- Each fixture requires 1 DMX channel.
- 1% minimum dimming value.
- 2W version: 2 W/ft; 4W version: 4 W/ft.

Control boxes (order separately)

LCBX - Low-Voltage Control Box



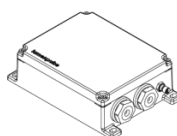
LCBX 60W & 120W



LCBX 200W

Low-voltage control and power box. One power and data output to fixture, or fixture run. Refer to LCBX specification sheet for details.

LSBX - Low-Voltage Splitter Box



Low-voltage control and power splitter box. One power and data output to fixture run. Refer to LSBX specification sheet for details.

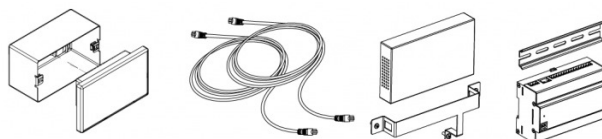
Control systems (order separately)

LTN2 - Lumentone™ 2



Lumentone 2 is a simple pre-programmed DMX 512 controller with a push button rotary dial and live feedback.

PHAROS - Pharos® kit



The Pharos kit, available for 1 or 2 DMX universes, allows for complete control of large lighting installations. 2 DMX universes kit shown.

Diagnostic and addressing tools (order separately)

LID - LumenID



LumenID is a diagnostic and addressing DMX/RDM tool. It must be specified on all DMX applications. Consult LID specification sheet for details.

How to order

Housing	Wattage	Voltage	Length	Color and Color Temperature ⁽²⁾	Optics
LOGN Lumenfacade™ Nano	2W 2 W/ft ⁽¹⁾ 4W 4 W/ft	48V 48 VDC	12 12 3/4 in (1.4 lbs) 24 24 3/4 in (2.9 lbs) 36 36 3/4 in (4.4 lbs) 48 48 3/4 in (6 lbs)	22K 2200K 27K 2700K 30K 3000K 35K 3500K 40K 4000K RD Red ⁽³⁾ GR Green ⁽³⁾ BL Blue ⁽³⁾	8x8 8° x 8° 10x10 10° x 10° 10x30 10° x 30° 10x60 10° x 60° 10x90 10° x 90° 30x10 30° x 10° 30x30 30° x 30° 30x60 30° x 60° 30x90 30° x 90° 60x10 60° x 10° 60x60 60° x 60° 60x90 60° x 90° 90x90 90° x 90° W Wide 120° ⁽⁴⁾ WW Asymmetric Wallwash ⁽⁵⁾

Notes:

1. Not available for static red, green or blue color options.

2. Consult factory for availability of static Royal Blue, 6500K and 90+ CRI.

3. Static colors made to order 8-10 weeks.

4. Not compatible with louver or visor optical accessories.

5. Not compatible with louver optical accessory.



How to order

Lens	Mounting Options ⁽⁹⁾	Finish	Control ⁽¹³⁾	Options	Certification
CL Clear lens ⁽⁶⁾	SAMN Slim Adjustable Mounting Nano	BK Black Sandtex®	NO On/Off control	CRC Corrosion-resistant coating for hostile environments ⁽¹⁴⁾ ⁽¹⁵⁾	UL UL compliant
FR Frosted lens ⁽⁷⁾	UMPN Fixed Mounting Nano	BRZ Bronze Sandtex®	UCTL Universal control (compatible with 0-10V, DALI or DMX/RDM systems)		CE CE compliant
HFR Half-frosted lens ⁽⁸⁾	UMASN Universal Adjustable Mounting Nano	SI Silver Sandtex®			
	WAMN2 Adjustable Wall Mounting Nano 2 in	WH Smooth white			
	WAMN6 Adjustable Extended Arm Mounting Nano 6 in	CC Custom color and finish (please specify RAL color) ⁽¹⁰⁾ ⁽¹¹⁾ ⁽¹²⁾			
	WAMN12 Adjustable Extended Arm Mounting Nano 12 in				
	WAMN18 Adjustable Extended Arm Mounting Nano 18 in				

- Notes:**

6. Not available for 8x8, 10x10, W or WW optics.

7. Not available for WW optic.

8. Available for 8x8, 10x10 or WW optics only.

9. One mounting bracket provided for 12 in fixtures. Two mounting brackets provided for 24 in, 36 in and 48 in fixtures.

10. Lumenpulse offers a wide selection of RAL CLASSIC (K7) colors with a smooth texture and high-gloss finish. Please consult factory for a list of available K7 colors, other RAL textures and glosses, or to match alternate color charts. Final color matching results may vary.
11. Setup charges apply for RAL colors. Consult factory for details.

12. Longer lead times can be expected for custom RAL color finishes.

13. A Low-Voltage Control Box (LCBX) or Low-Voltage Splitter Box (LSBX) and LumenID (LID) must be specified.

14. Use only when exposed to salt spray and harsh chemicals. This option is not required for normal outdoor exposure.

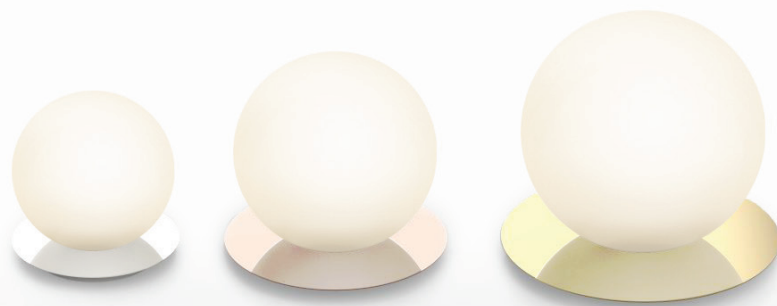
15. Setup charges apply. Consult factory for details.

BOLA SPHERE TABLE

RR9

DESCRIPTION

The Bola Sphere Table series fuses an elegant blown opal glass sphere with a mirrored disc base in polished stainless steel to give the illusion of a floating orb in space. Taking its cues from the Bola Family Collection, the new table version brings this magical combination to a table surface, allowing for full range dimming and is available in 3 distinct Globe sizes: 8" (20cm), 10" (25.5cm), and 12" (30.5cm). Its mating base is available in 3 corresponding diameters: 9.5" (24cm), 12" (30.5cm), and 14" (36cm) in 3 exquisit finishes: chrome, brass, and rose gold. Each finish provides a distinct personality for any residential, contract, or hospitality environment.



FIXTURE TYPE

Table

LIGHT SOURCE

A19 LED Bulb, Warm Dim

LIGHT CONTROL

In-line dimmer

MODELS

Bola Sphere Table 8
Bola Sphere Table 10
Bola Sphere Table 12

FEATURES

Fully dimmable

SPECIFICATIONS

Voltage: 120V or 240V, 50/60Hz
LED Warm Dim Bulb: 9.5W (60W equivalent)
Color Temperature: 2200-2700K
Luminosity: 800 Lumens
Luminaire Efficacy: 84 Lumens/Watt MAX
Cord Length: 6' (1.8m)

CERTIFICATIONS



PRODUCT CODES

Bola Sphere 8 (Chrome): BOLA SPH TBL 8 CRM
Bola Sphere 10(Chrome): BOLA SPH TBL 10 CRM
Bola Sphere 12 (Chrome): BOLA SPH TBL 12 CRM

Bola Sphere 8 (Brass) : BOLA SPH TBL 8 BRA
Bola Sphere 10(Brass) : BOLA SPH TBL 10 BRA
Bola Sphere 12 (Brass) : BOLA SPH TBL 12 BRA

Bola Sphere 8 (Rose Gold): BOLA SPH TBL 8 RGD
Bola Sphere 10(Rose Gold) : BOLA SPH TBL 10 RGD
Bola Sphere 12 (Rose Gold) : BOLA SPH TBL 12 RGD

FINISHES

BOLA SPHERE TABLE



CHROME



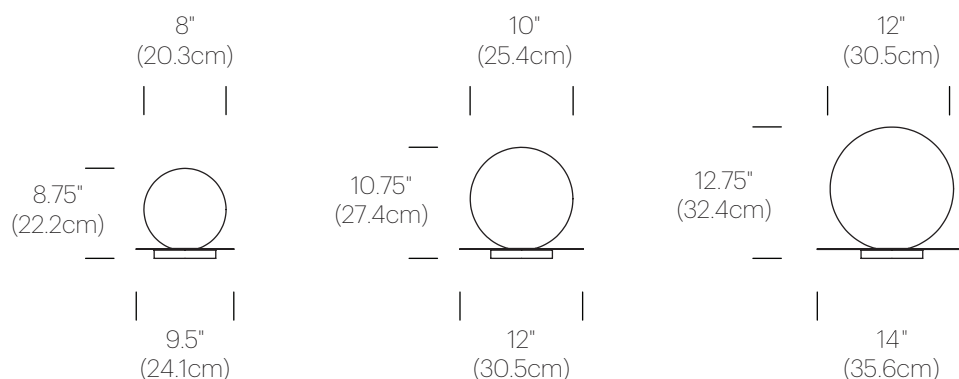
BRASS



ROSE GOLD

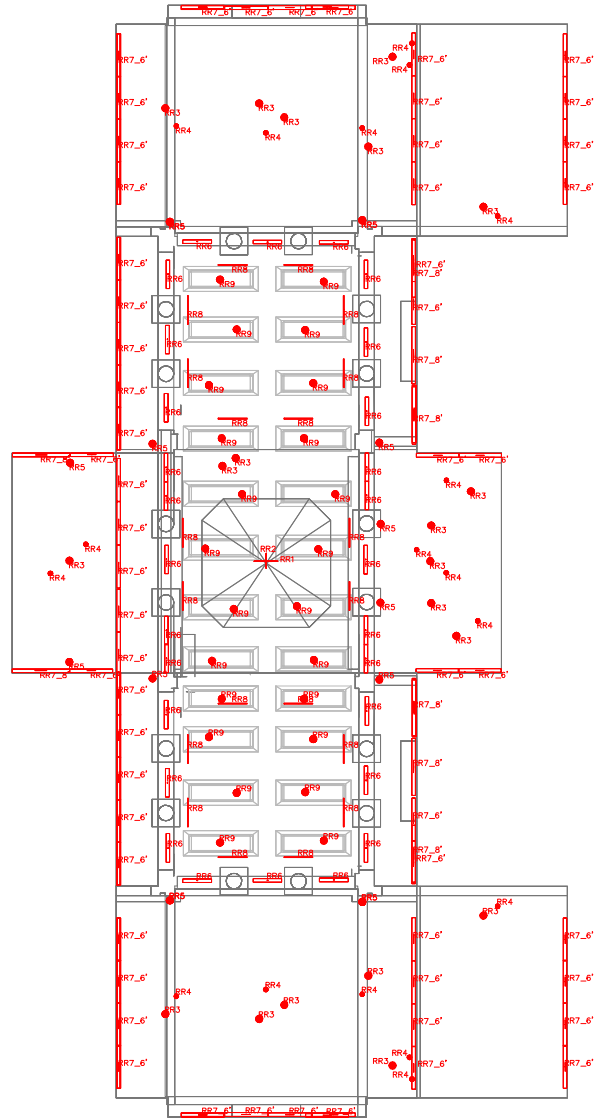
DIMENSIONS

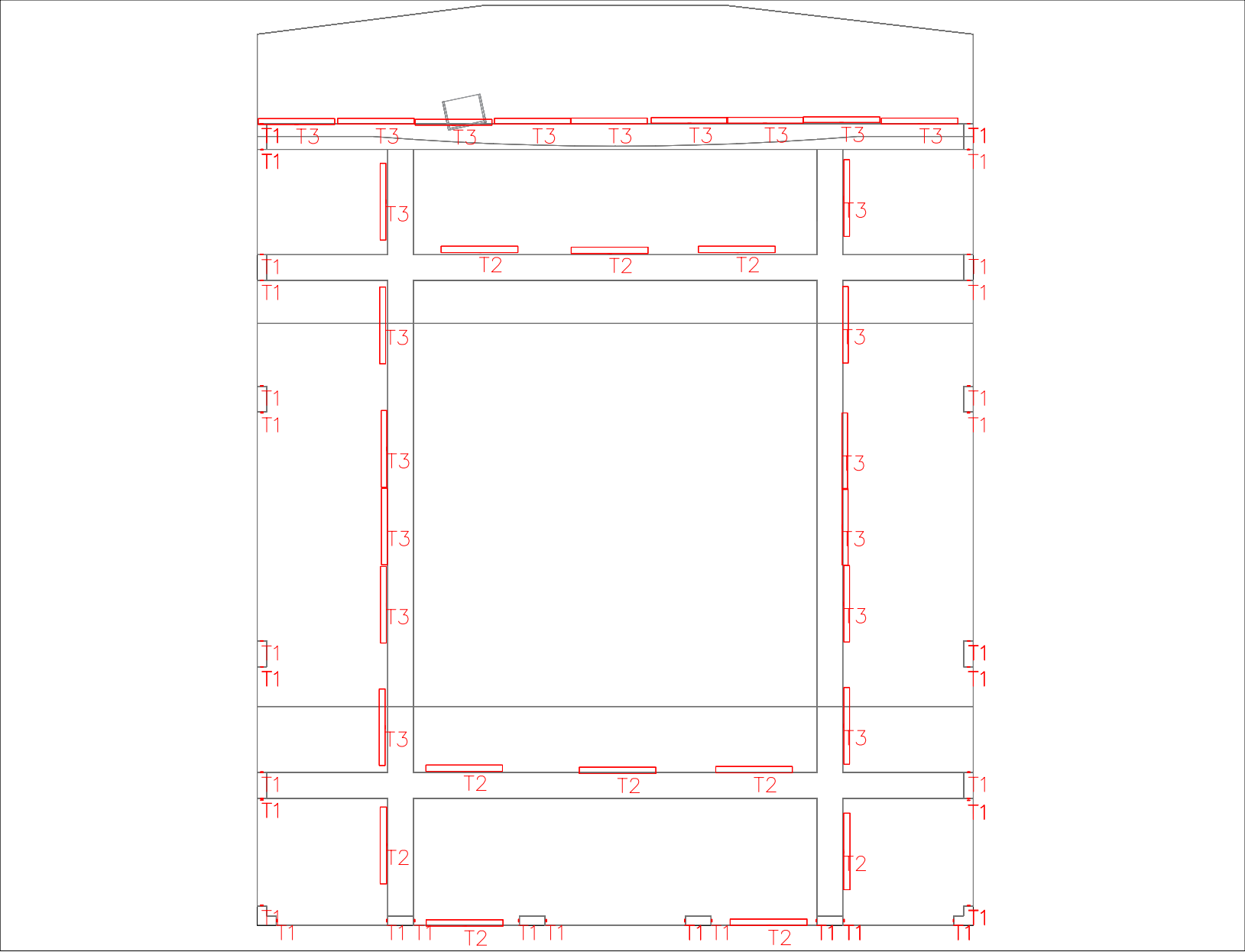
BOLA SPHERE 8, 10, 12

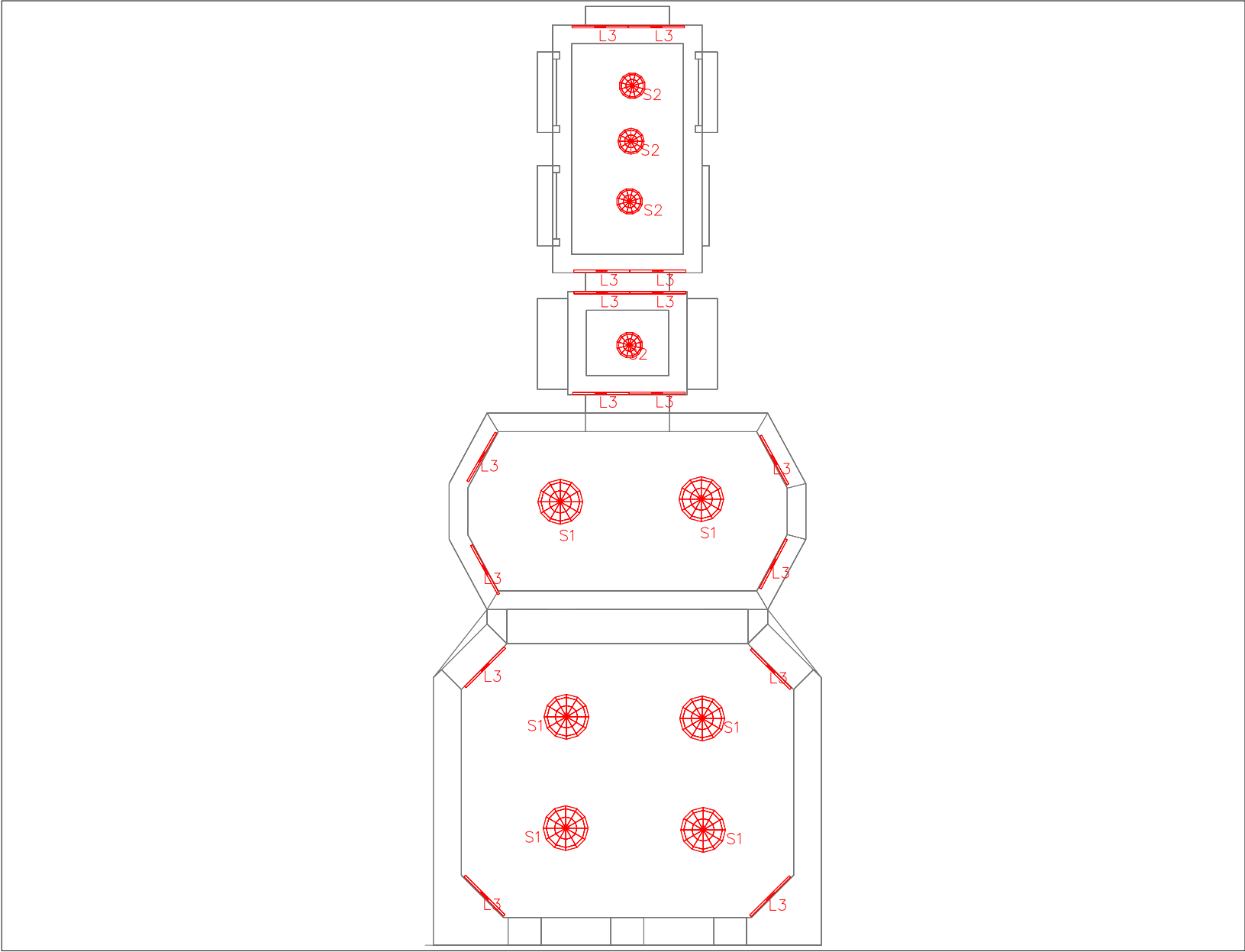


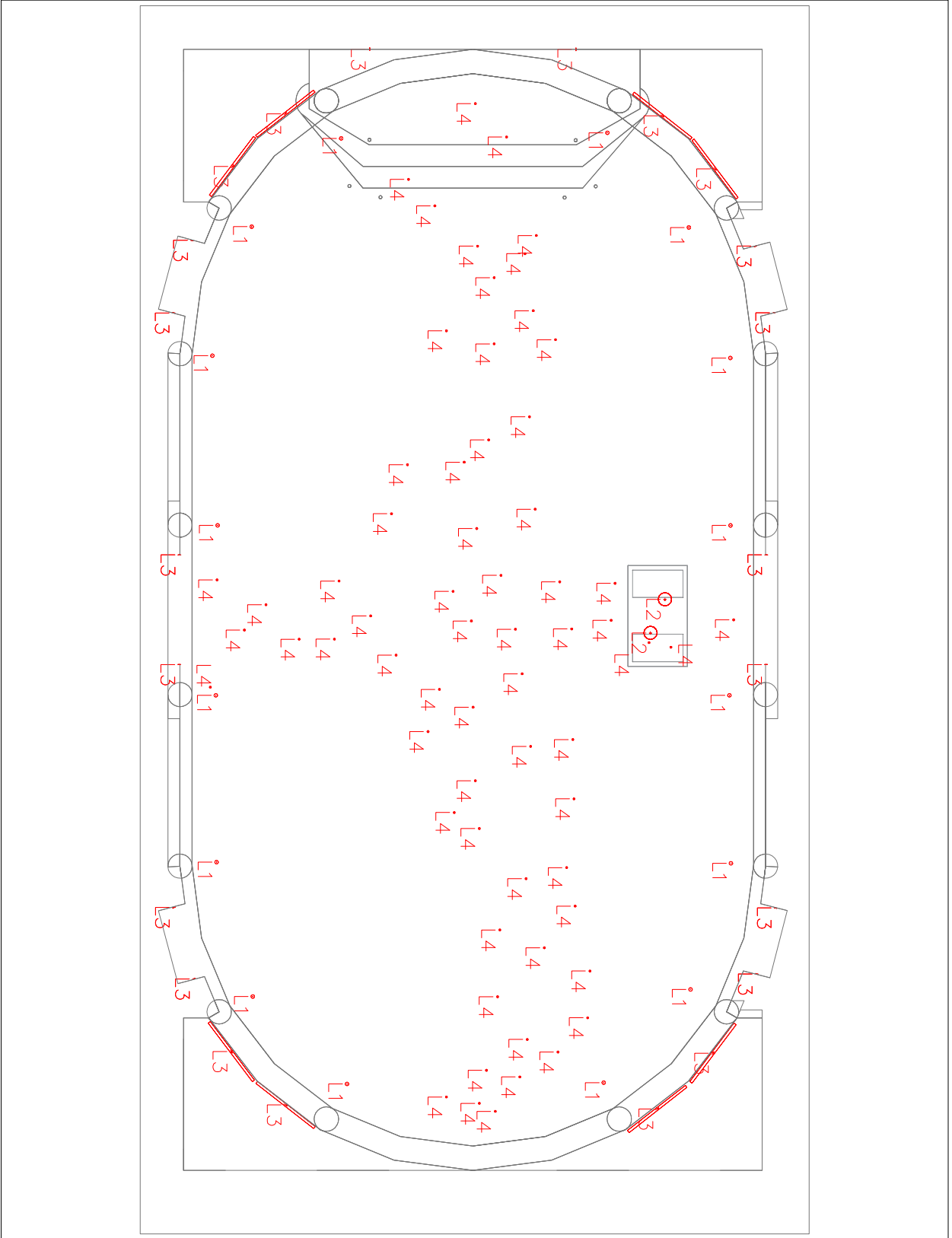
PACKAGING WEIGHT AND DIMENSIONS

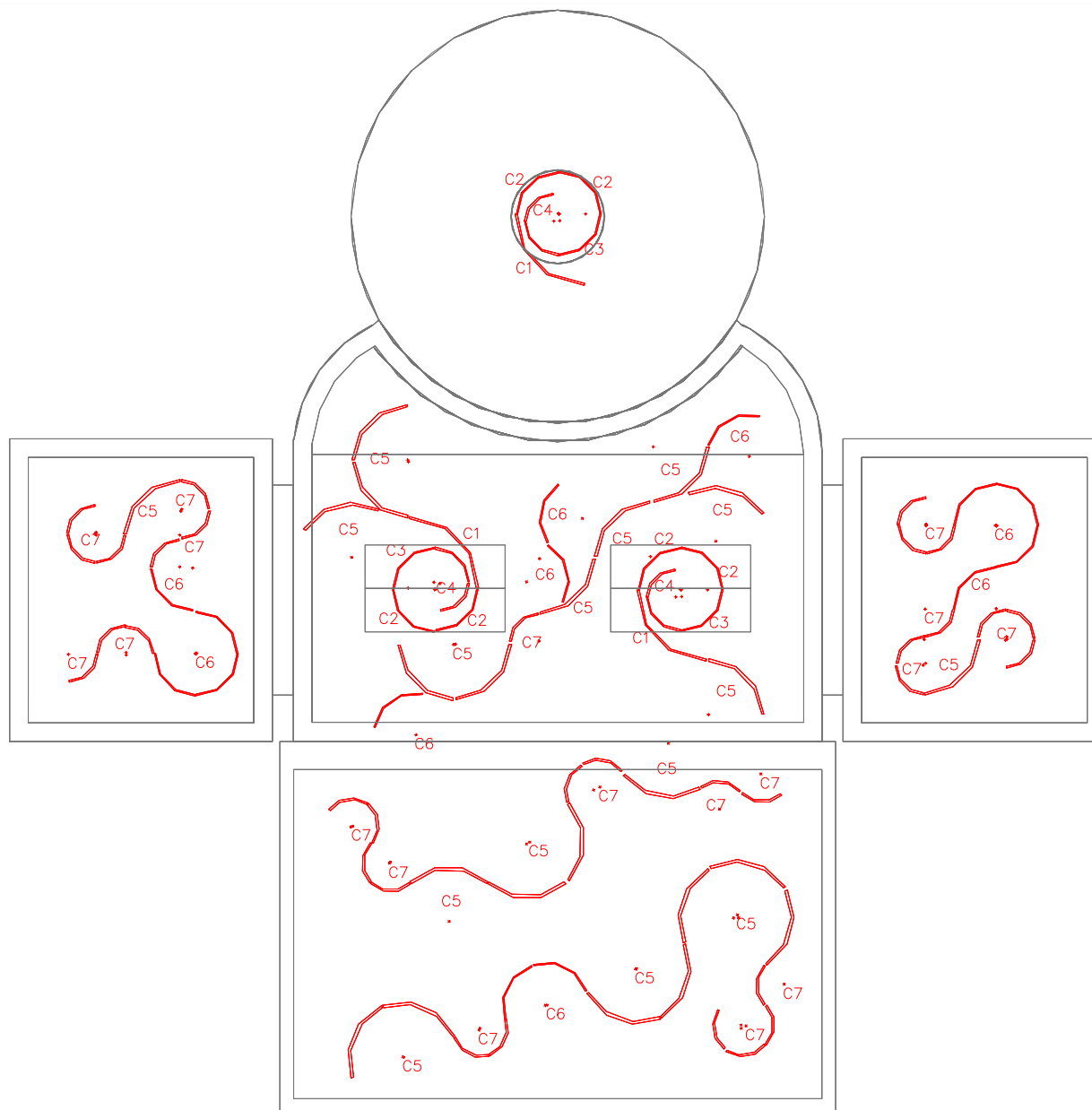
BOLA SPH 8	4LBS	10" X 10" X 14.5"
	1.8KG	25cm X 25cm X 37cm
BOLA SPH 10	4.2LBS	13" X 13" X 18"
	1.9KG	33cm X 33cm X 46cm
BOLA SPH 12	5.2LBS	16" X 16" X 21"
	2.4KG	40cm X 40cm X 53cm











READING ROOM CALCULATION REGIONS AND POINTS

If desired, contact msh5424@psu.edu for the full calculation grid. Because the space was modeled as two stacked floors, readability outside of AGI32 is low, so a summary has been included instead.

East Hall Floor 1

Illuminance (Fc)

Average=26.07 Maximum=38.6 Minimum=9.2 Avg/Min=2.83 Max/Min=4.20

East Hall Floor 2

Illuminance (Fc)

Average=14.18 Maximum=26.0 Minimum=6.7 Avg/Min=2.12 Max/Min=3.88

Entry Floor 1

Illuminance (Fc)

Average=18.72 Maximum=25.4 Minimum=13.4 Avg/Min=1.40 Max/Min=1.90

Forward Study Floor 2

Illuminance (Fc)

Average=12.24 Maximum=20.9 Minimum=7.4 Avg/Min=1.65 Max/Min=2.82

Main Cupola Floor 1

Illuminance (Fc)

Average=22.66 Maximum=47.0 Minimum=13.3 Avg/Min=1.70 Max/Min=3.53

Main Cupola Floor 1

Illuminance (Fc)

Average=22.66 Maximum=47.0 Minimum=13.3 Avg/Min=1.70 Max/Min=3.53

Rear Study Floor 2

Illuminance (Fc)

Average=18.52 Maximum=29.2 Minimum=13.5 Avg/Min=1.37 Max/Min=2.16

Skylight Floor 1

Illuminance (Fc)

Average=20.63 Maximum=37.7 Minimum=9.9 Avg/Min=2.08 Max/Min=3.81

West Hall Floor 1

Illuminance (Fc)

Average=38.43 Maximum=45.7 Minimum=18.6 Avg/Min=2.07 Max/Min=2.46

West Hall Floor 2

Illuminance (Fc)

Average=19.64 Maximum=29.8 Minimum=9.1 Avg/Min=2.16 Max/Min=3.27

Wing Floor 1

Illuminance (Fc)

Average=13.91 Maximum=34.0 Minimum=6.6 Avg/Min=2.11 Max/Min=5.15

Wing Floor 2

Illuminance (Fc)

Average=16.07 Maximum=35.5 Minimum=7.0 Avg/Min=2.30 Max/Min=5.07

