GRIVEN USA
A MEMBER OF THE **NORDEON** GROUP

POWERSHINE MK2 S

PROJECT

TYPE

SPECIFIER

DATE

ORDER #

QTY

POWERSHINE MK2 S sets the benchmark for illumination of large scale architectural structures and associated applications where high impact lighting is required. With an industry leading high lumen package, the luminaire effectively achieves desired lighting goals and simplifies installations using fewer units. Smartly combined with a versatile selection of seven distinctive light distributions, POWERSHINE MK2 S satisfies lighting tasks ranging from simple façade lighting to the illumination of objects from long distances. The projector incorporates 96 high power LEDs in a choice of RGBW, dynamic white, warm white, or cool white, providing an extensive palette of colors, tones, and hues to choose from. Design features include a thermally isolated LED driver compartment and on-board controls, allowing users to integrate a DMX control system for dynamic color-changing scenes, displaying fixed colors, or sequencing colors without DMX when using the integrated automatic control mode. All hardware is stainless steel.
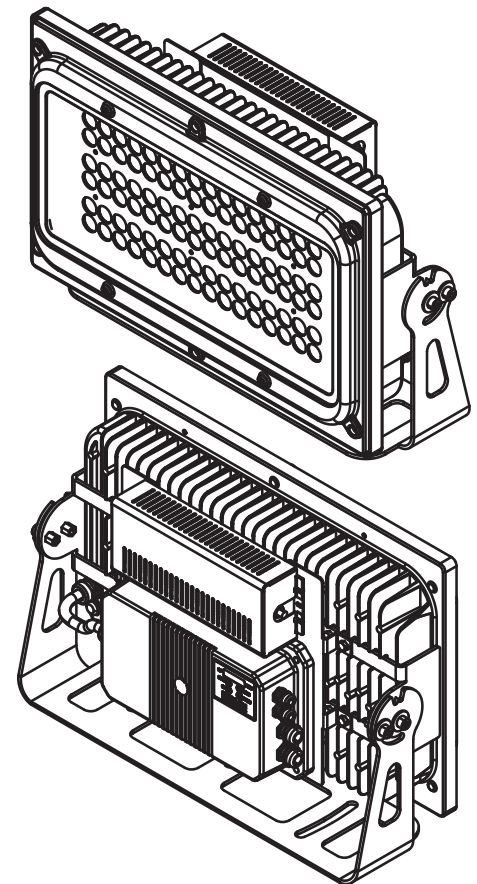
PRODUCT SPECIFICATIONS

LUMEN OUTPUT	15280 lumens @ 8˚ CW (see pg 3 for output values of all standard colors)
EFFICACY	61.8 (lm/W) CW
LUMEN MAINTENANCE	100,000 hours L70 @ 25˚C*
COLOR	RGBW (6500K white), DW (2700-6500K), CW (6300K), WW (3000K) (see pg 4 for customization options)
OPTICS	8˚, 12˚, 23˚, 43˚, 68˚, 41˚ x 11˚, 39˚ x 22˚ (Additional optics available upon request)
OPERATING TEMPERATURE	-40˚ to 122˚ F (-40˚ to 50˚C)
HOUSING	Die-cast aluminum body with powder coat
MOUNTING	Yoke mount with locking hinge (custom mounting available upon request)
WEIGHT	41 lbs. (20 kg)
CERTIFICATION	ᶜCSAᵤₛ CE
INGRESS PROTECTION	Wet location rated IP66
IMPACT RATING	IK10
VIBRATION RATING	ANSI C136.31 rated version available
CONTROL	Auto Control, DMX 512 (RDM E1.20), Wireless and 0-10V interfaces available
ADDITIONAL FEATURES	Automatic overtemperature protection / Keypad interface
EPA	2.27 ft²

* LED life may vary under actual field conditions due to external factors. Lifetime estimates are generated from actual testing in a controlled environment, Griven values are conservatively derived from those numbers.

ELECTRICAL SPECIFICATIONS

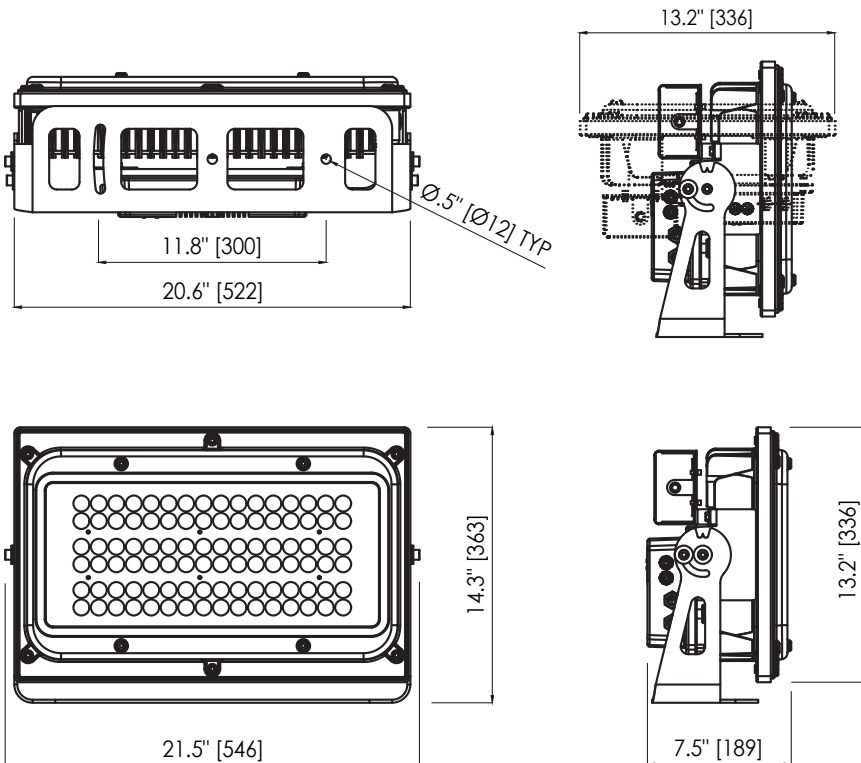|	
INPUT VOLTAGE	100-277 VAC @ 50-60Hz
POWER CONSUMPTION	296W 2.98A @ 115VAC, 1.09A @ 277VAC (RGBW) 247W 2.55A @ 115VAC .93A @ 277VAC (DW, CW, WW)
POWER FACTOR	>.98 @ 115VAC, >.94 @ 277VAC
PROTECTION	Self-resetting fuse

IP66 / IK10 / CE / ᶜCSAᵤₛ
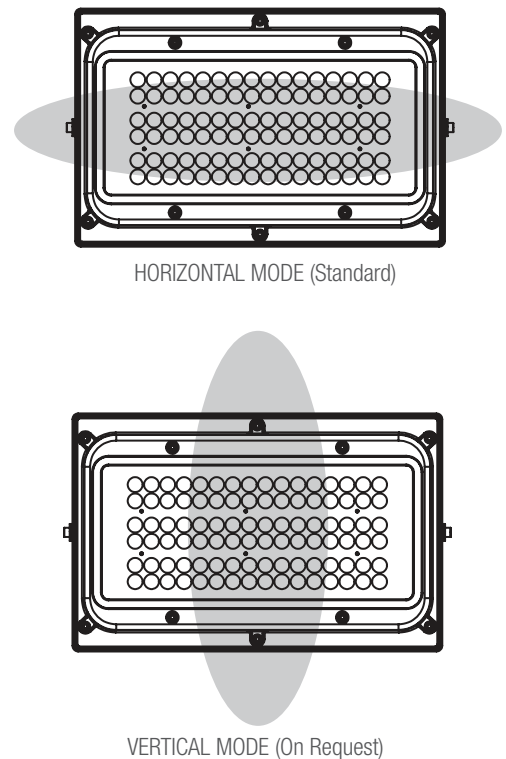
In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials. Technical specification sheets that appear on www.griven-usa.com are the most recent ones available.

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POWERSHINE MK2 S

HOW TO ORDER

PS546   **UNV**

PART	COLOR	VOLTAGE	OPTIC	ORIENTATION	FINISH	ACCESSORIES	OPTIONS
	RGBW	UNV 100-277V	SP Spot 8°	H Horizontal	SG Silver Gray	BND Barndoor	SD Spreading Diffuser (consult factory)
	DW 2700-6500K		NB Narrow 12°	V Vertical	CC Custom Color	FGS Full Glare Shield	3G ANSI C136.31 Vibration Rating
	CW 6300K		MB Medium 23°		SGM Silver Gray Marine Grade	AGS Angled Glare Shield	
	WW 3000K		WB Wide 43°		CCMG Custom Color Marine Grade		
	CCW Custom White		EXWB Extra Wide 68°				
	CCM Custom Monochrome		ELLB Elliptical 41° x 11°				
			ELWB Elliptical Wide 39° x 22°				

DIMENSIONAL DRAWINGS

13.2" [336]

11.8" [300]
20.6" [522]
Ø.5" [Ø12] TYP

21.5" [546]
14.3" [363]
13.2" [336]
7.5" [189]

OPTIC ORIENTATION

HORIZONTAL MODE (Standard)

VERTICAL MODE (On Request)

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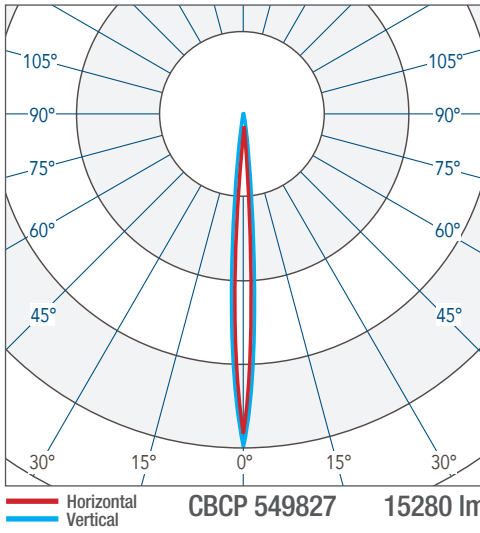
PHOTOMETRICS

LIGHT OUTPUT

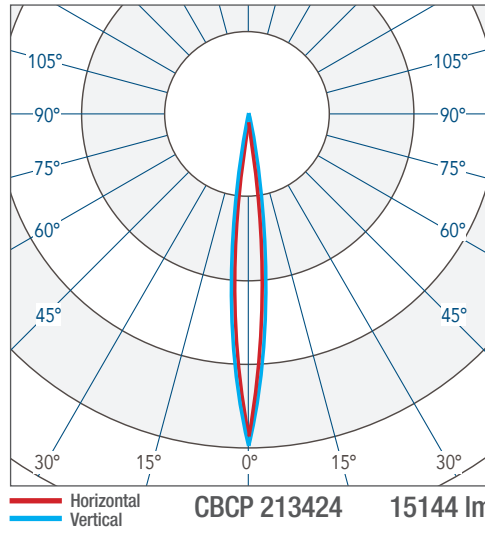Photometric data based on cool white LEDs. Use multiplier to determine lumen and CBCP output for RGBW, DW, or WW.

COLOR	OUTPUT MULTIPLIER
RGBW (6500K White)	.63
DW (2700-6500K)	.80
CW (6300K)	1.00
WW (3000K)	.70

CANDELA DISTRIBUTION (Optical data not currently available for Extra Wide 68° optic.)
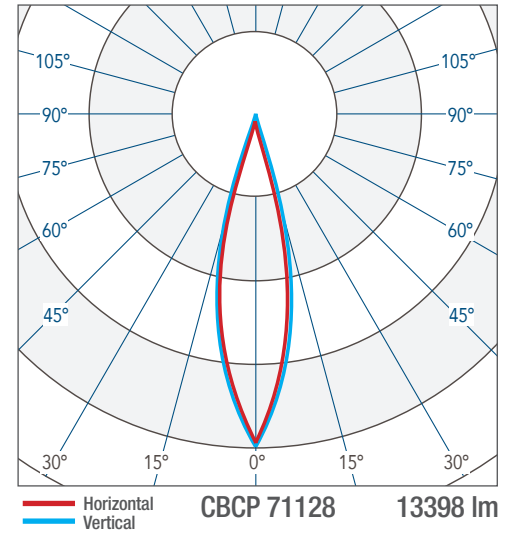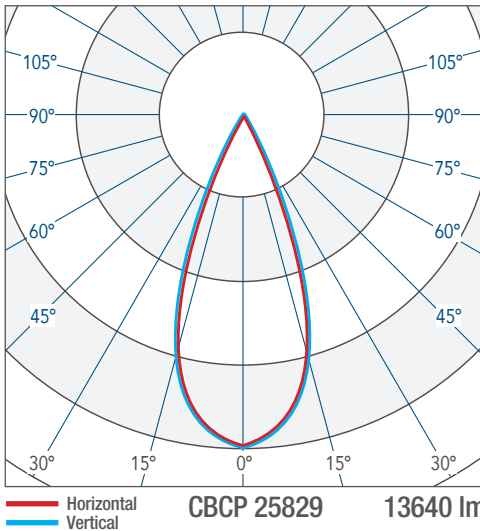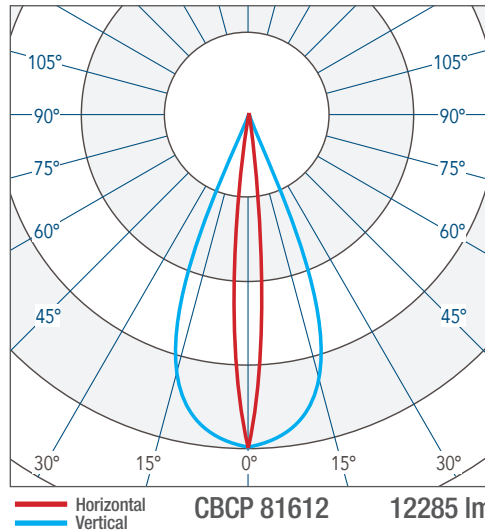
SPOT (CW) 8°

Horizontal
Vertical
CBCP 549827   15280 lm

NARROW (CW) 12°

Horizontal
Vertical
CBCP 213424   15144 lm

MEDIUM (CW) 23°

Horizontal
Vertical
CBCP 71128   13398 lm

WIDE (CW) 43°

Horizontal
Vertical
CBCP 25829   13640 lm

ELLIPTICAL (CW) 41° x 11°

Horizontal
Vertical
CBCP 81612   12285 lm

ELLIPTICAL WIDE (CW) 39° x 22°

Horizontal
Vertical
CBCP 44318   13020 lm

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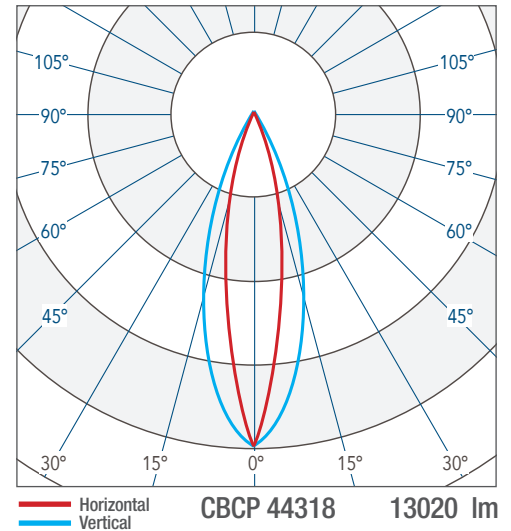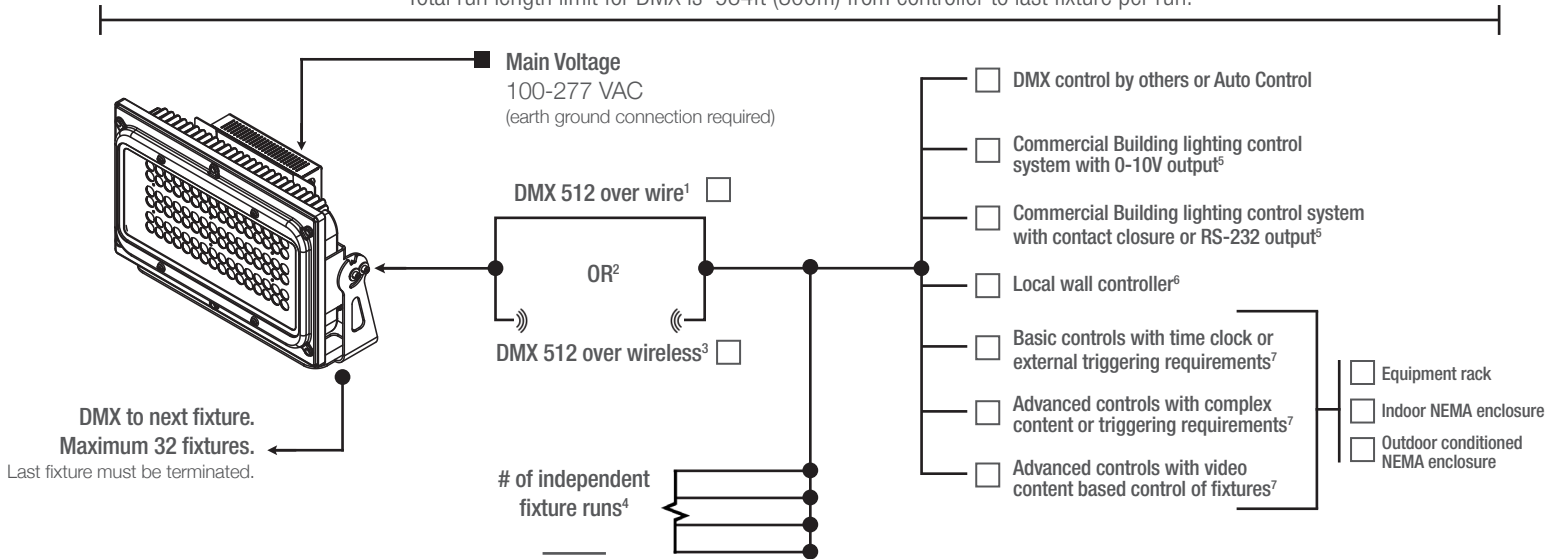
CONTROL OPTIONS (DMX512, PRIMARY CONTROL PLATFORM)

Contact manufacturer for control system development.

Total run length limit for DMX is 984ft (300m) from controller to last fixture per run.

Main Voltage
100-277 VAC
(earth ground connection required)

DMX 512 over wire[1] ☐

OR[2]

DMX 512 over wireless[3] ☐

**DMX to next fixture.
Maximum 32 fixtures.**
Last fixture must be terminated.

# of independent
fixture runs[4]

☐ DMX control by others or Auto Control

☐ Commercial Building lighting control system with 0-10V output[5]

☐ Commercial Building lighting control system with contact closure or RS-232 output[5]

☐ Local wall controller[6]

☐ Basic controls with time clock or external triggering requirements[7]

☐ Advanced controls with complex content or triggering requirements[7]

☐ Advanced controls with video content based control of fixtures[7]

☐ Equipment rack

☐ Indoor NEMA enclosure

☐ Outdoor conditioned NEMA enclosure

NOTES

1. Wire specifications are available from factory as well as approved wire for purchase.
2. Other control protocol solutions available. Contact factory for more information.
3. Wireless components are external to fixture. Distance limitations based on antennas chosen and site conditions. Contact factory for more information.
4. Based on maximum of 32 fixtures per run as well as any site constraints on conveyance of data.
5. For example: Lutron, Crestron, Encelium, Douglas, ETC by others. Given control system will interface with building lighting control system.
6. Local wall controller for small applications. Wall controllers specified separately for larger systems.
7. Contact factory for assistance with specification. Onsite commissioning by Given of control system is required.

PRODUCT OPTIONS

SD

SPREADING DIFFUSER

Die cut spreading diffusers can be added to fixture. Factory sealed in fixture for highest performance and durability. Consult factory.

MG

MARINE GRADE COATING

Maximum corrosion resistance for installations near salt or brackish water.

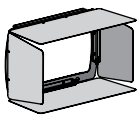**CCW**

CUSTOM WHITE LIGHT

Choose the white light you need for your project. Contact Given USA to confirm availability of a custom CCT.

CCM

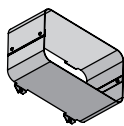### CUSTOM MONOCHROME

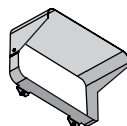Fixtures with dedicated color LEDs available. Contact Given USA to confirm availability of a custom color.

ACCESSORIES

Barndoor

Full Glare Shield

Angled Glare Shield