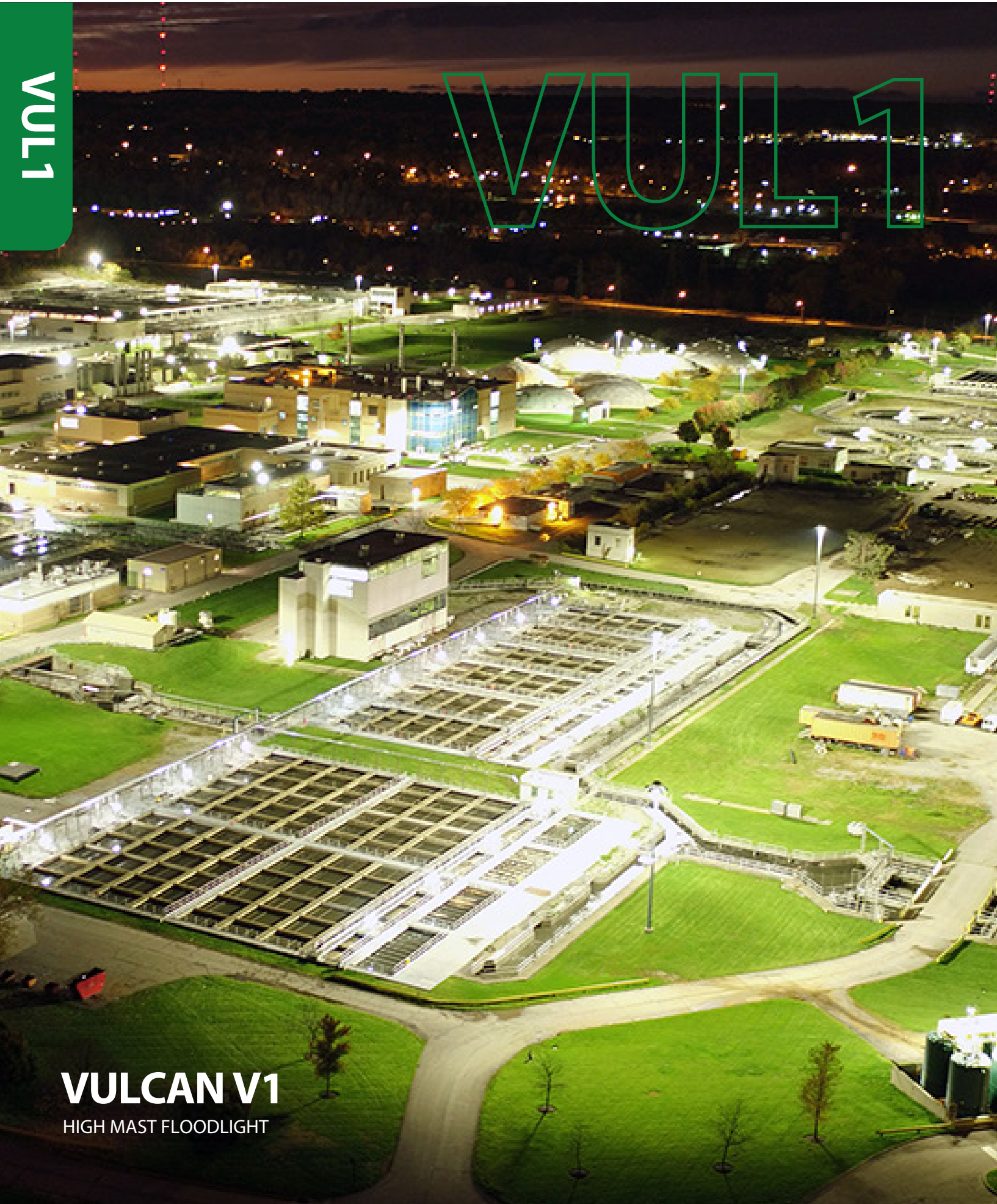


# VUL1

**VULCAN V1**  
HIGH MAST FLOODLIGHT



VUL1

VUL1

**VULCAN V1**  
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## VULCAN V1 HIGH MAST FLOODLIGHT



### DESCRIPTION

LED High Mast Floodlight / 120-277Vac(347-480Vac Optional) /  
2700K-5000K & RGB / IP66 / Multiple Optics Available /  
Multiple Mountings Available/-40°C (-104°F)~50°C (122°F) operating temperature



### CONSTRUCTION

- High-powered, corrosion resistant, die-cast aluminum housing for durability and consistency.
- Easy Installation and maintenance. Yoke Mount comes standard, Knuckle Mount and Slipfitter optional (500W/600W).
- 1000 hours/2000 hours/3000 hours salt-spray testing for special project requirements.
- Integrated and remote driver box available.
- Front EPA 1.55ft<sup>2</sup>(500W/600W), 3.1 ft<sup>2</sup>(750W/1000W/1200W/1500W)
- Side EPA 0.6ft<sup>2</sup>(500W/600W), 1.22 ft<sup>2</sup>(750W/1000W/1200W/1500W)

### LED

- OSRAM and LUMILEDS
- CRI 70, 80 or 90
- Color temperatures: 2700K 3000K 3500K 4000K 5000K
- RGB options available

\* Contact our sales team before ordering for MOQ.

### OPTICS

- Ten optics available for different applications with symmetric or asymmetric distribution (12°/15°/25°/50°/NB-P55/MB-P55/WB-P30/VWB-P55/20°x40°/25°x105°)

### ADDITIONAL OPTIONS\*

**STANDARD & ADJUSTABLE VISOR**-Designed for full property line cut-off. Customized length and orange peel texture available.

**EGG CRATE LOUVER**-Provided for extreme glare control.

**TAMPER PROOF HARDWARE**-Provided to protect the optical assembly and the driver compartment for vandal resistance.

\*Contact our sales team before ordering for MOQ.

### ELECTRICAL

- 120-277Vac (UNV) or 347-480Vac (HV)
- 0-10V dimming
- Power Factor > 0.98, THD <10%
- 20KV SPD comes stand

### OPERATION TEMPERATURE

- -40°C(-104°F) ~ 50°C(122°F)

### CONTROL

- Support Art-Net, DMX RDM and DALI protocols.

### WARRANTY

- Industry leading 10 year warranty for main components.

### LISTINGS

- UL
- IP66 Rated
- IK10 Rated
- 3G Vibration Rated

## VULCAN V1 HIGH MAST FLOODLIGHT

### PRODUCT SPECIFICATIONS

Model Number	Beam Distribution	Input	CCT	Wattage	Lumens	Efficacy	NEMA	
VUL1-50-50 12D	Symmetric 12° Very Narrow Beam	120-277Vac /200-480Vac	5000K	495.9	71,049	143.3	2H 3V	
VUL1-50-50 15D	Symmetric 15° Very Narrow Beam		5000K	489.5	68,865	140.7	3H 3V	
VUL1-50-50 25D	Symmetric 25° Narrow Beam		5000K	490.0	72,172	144.3	3H 3V	
VUL1-50-50 50D	Symmetric 50° Medium Beam		5000K	501.0	81,162	162.0	5H 5V	
VUL1-50-50 20x40	Asymmetric 20°x40°	120-277Vac /200-480Vac	5000K	503.9	68,192	144.3	4H 3V	
VUL1-50-50 25x105	Asymmetric 25°x105°		5000K	504.1	71,029	140.9	6H 4V	
VUL1-50-50 MBP	Asymmetric Medium Flood		5000K	486.6	63,972	145.3	5H 4V	
VUL1-50-50 NBP	Asymmetric Narrow Flood		5000K	444.8	61,309	137.8	4H 4V	
VUL1-50-50 VWBP	Asymmetric Very Wide Flood		5000K	486.4	65,878	145.3	6H 5V	
VUL1-50-50 WBP	Asymmetric Wide Flood		5000K	504.4	71,304	141.4	6H 5V	
Model Number	Beam Distribution		Input	CCT	Wattage	Lumens	Efficacy	NEMA
VUL1-60-50 12D	Symmetric 12° Very Narrow Beam		120-277Vac /200-480Vac	5000K	619.6	79,685	128.6	2H 3V
VUL1-60-50 15D	Symmetric 15° Very Narrow Beam	5000K		603.0	84,025	139.3	3H 3V	
VUL1-60-50 25D	Symmetric 25° Narrow Beam	5000K		604.2	84,266	139.5	3H 3V	
VUL1-60-50 50D	Symmetric 50° Medium Beam	5000K		593.9	89,734	151.1	5H 5V	
VUL1-60-50 20x40	Asymmetric 20°x40°	120-277Vac /200-480Vac	5000K	574.3	76,342	132.9	4H 3V	
VUL1-60-50 25x105	Asymmetric 25°x105°		5000K	575.3	78,915	137.2	6H 5V	
VUL1-60-50 MBP55	Asymmetric Medium Flood		5000K	573.7	81,144	141.4	5H 4V	
VUL1-60-50 NBP55	Asymmetric Narrow Flood		5000K	572.7	78,013	136.2	4H 4V	
VUL1-60-50 VWBP55	Asymmetric Very Wide Flood		5000K	573.2	78,748	137.4	6H 5V	
VUL1-60-50 WBP30	Asymmetric Wide Flood		5000K	574.5	77,668	135.2	6H 6V	
Model Number	Beam Distribution		Input	CCT	Wattage	Lumens	Efficacy	NEMA
VUL1-75-50 12D	Symmetric 12° Very Narrow Beam		120-277Vac /200-480Vac	5000K	751.6	89,620	119.2	3H 3V
VUL1-75-50 15D	Symmetric 15° Very Narrow Beam	5000K		753.1	101,530	134.8	3H 3V	
VUL1-75-50 25D	Symmetric 25° Narrow Beam	5000K		754.8	101,937	135.1	3H 3V	
VUL1-75-50 50D	Symmetric 50° Medium Beam	5000K		755.1	104,847	138.9	5H 5V	
VUL1-75-50 20x40	Asymmetric 20°x40°	120-277Vac /200-480Vac	5000K	756.4	101,284	133.9	5H 4V	
VUL1-75-50 25x105	Asymmetric 25°x105°		5000K	753.4	99,692	132.3	6H 5V	
VUL1-75-50 MBP55	Asymmetric Medium Flood		5000K	751.0	90,790	120.9	5H 5V	
VUL1-75-50 NBP55	Asymmetric Narrow Flood		5000K	758.4	89,535	118.1	5H 5V	
VUL1-75-50 VWBP55	Asymmetric Very Wide Flood		5000K	754.2	89,952	119.3	6H 6V	
VUL1-75-50 WBP30	Asymmetric Wide Flood		5000K	753.4	100,479	133.4	6H 6V	

## VULCAN V1 HIGH MAST FLOODLIGHT

Model Number	Beam Distribution	Input	CCT	Wattage	Lumens	Efficacy	NEMA
VUL1-100-50 12D	Symmetric 12° Very Narrow Beam	120-277Vac /200-480Vac	5000K	1000.0	158,643	158.6	2H 2V
VUL1-100-50 15D	Symmetric 15° Very Narrow Beam		5000K	1000.0	150,718	150.7	3H 4V
VUL1-100-50 25D	Symmetric 25° Narrow Beam		5000K	1000.0	155,962	156.0	3H 3V
VUL1-100-50 50D	Symmetric 50° Medium Beam		5000K	1000.0	158,643	158.6	5H 5V
VUL1-100-50 20x40	Asymmetric 20°x40°	120-277Vac /200-480Vac	5000K	1000.0	148,076	148.1	4H 4V
VUL1-100-50 25x105	Asymmetric 25°x105°		5000K	1000.0	147,169	147.2	6H 4V
VUL1-100-50 NBP55	Asymmetric Narrow Flood		5000K	1000.0	130,887	130.9	4H 5V
VUL1-100-50 VWBP55	Asymmetric Very Wide Flood		5000K	1000.0	128,673	128.7	7H 5V
VUL1-100-50 WBP30	Asymmetric Wide Flood		5000K	943.0	120,971	128.3	6H 5V
Model Number	Beam Distribution	Input	CCT	Wattage	Lumens	Efficacy	NEMA
VUL1-120-50 12D	Symmetric 12° Very Narrow Beam	120-277Vac /200-480Vac	5000K	1180.1	142,841	121.0	3H 3V
VUL1-120-50 15D	Symmetric 15° Very Narrow Beam		5000K	1144.0	171,920	150.3	3H 3V
VUL1-120-50 25D	Symmetric 25° Narrow Beam		5000K	1143.4	172,546	150.9	3H 3V
VUL1-120-50 50D	Symmetric 50° Medium Beam		5000K	1228.7	201,677	164.1	5H 5V
VUL1-120-50 20x40	Asymmetric 20°x40°	120-277Vac /200-480Vac	5000K	1140.1	161,408	141.6	4H 3V
VUL1-120-50 25x105	Asymmetric 25°x105°		5000K	1140.7	165,882	145.4	6H 5V
VUL1-120-50 MBP55	Asymmetric Medium Flood		5000K	1202.1	155,748	129.6	5H 5V
VUL1-120-50 NBP55	Asymmetric Narrow Flood		5000K	1202.1	152,012	126.5	4H 4V
VUL1-120-50 VWBP55	Asymmetric Very Wide Flood		5000K	1202.3	152,848	127.1	6H 6V
VUL1-120-50 WBP30	Asymmetric Wide Flood		5000K	1140.4	164,119	143.9	6H 6V
Model Number	Beam Distribution	Input	CCT	Wattage	Lumens	Efficacy	NEMA
VUL1-150-50 12D	Symmetric 12° Very Narrow Beam	120-277Vac /200-480Vac	5000K	1515.6	179,046	118.1	3H 3V
VUL1-150-50 15D	Symmetric 15° Very Narrow Beam		5000K	1506.5	203,077	134.8	3H 3V
VUL1-150-50 25D	Symmetric 25° Narrow Beam		5000K	1515.3	218,967	144.5	3H 3V
VUL1-150-50 50D	Symmetric 50° Medium Beam		5000K	1506.7	209,603	139.1	5H 5V
VUL1-150-50 20x40	Asymmetric 20°x40°	120-277Vac /200-480Vac	5000K	1536.7	202,545	131.8	5H 4V
VUL1-150-50 25x105	Asymmetric 25°x105°		5000K	1521.6	202,536	133.1	6H 5V
VUL1-150-50 MBP55	Asymmetric Medium Flood		5000K	1527.3	180,187	118.0	5H 5V
VUL1-150-50 NBP55	Asymmetric Narrow Flood		5000K	1521.9	180,036	118.3	5H 5V
VUL1-150-50 VWBP55	Asymmetric Very Wide Flood		5000K	1511.5	180,019	119.1	6H 6V
VUL1-150-50 WBP30	Asymmetric Wide Flood		5000K	1509.4	202,538	134.2	6H 6V

**VULCAN V1**  
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**LUMEN MAINTENANCE**

Model#	Ambient Test Temp	Reported Hrs	0 Hrs	25,000 Hrs	50,000 Hrs	100,000 Hrs	TM-21-11 120,000	Calculated L70 Hrs
VUL1 1500W	25°C/77°F	120,000	1	0.9649	0.952	0.9268	0.917	624,000

**ELECTRICAL DATA**

Model Number	System Wattage	Electrical Load(A)				
		120V	240V	277V	347V	480V
VUL1-50-50	490	4.08	2.04	1.77	1.41	1.02
VUL1-60-50	604	5.03	2.52	2.18	1.74	1.26
VUL1-75-50	755	6.29	3.15	2.73	2.18	1.57
VUL1-100-50	1000	8.33	4.17	3.61	2.88	2.08
VUL1-120-50	1143	9.53	4.76	4.13	3.29	2.38
VUL1-150-50	1515	12.63	6.31	5.47	4.37	3.16

**LUMEN OUTPUT SCALING**

CCT	Multiplier
4000K	1.00
5000K	1.02
CRI	Multiplier
80	0.97
90	0.93

**INSTALLATION**



**Knuckle**

Knuckle Mount(±90°Rotation)



**Slipfitter**

Slipfitter(±90°Rotation)

\*Only available with 500W/600W

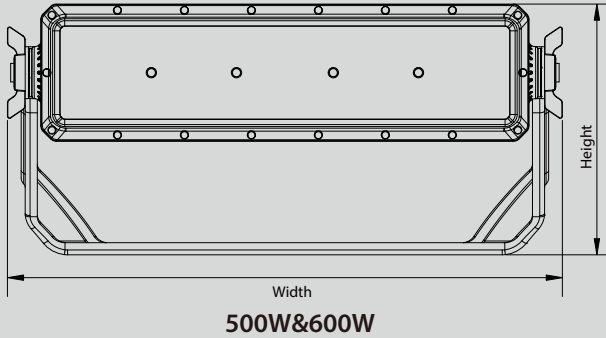


**Yoke**

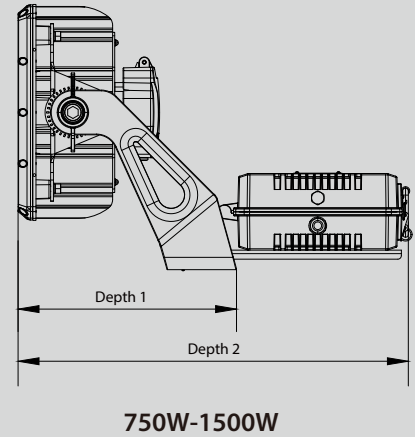
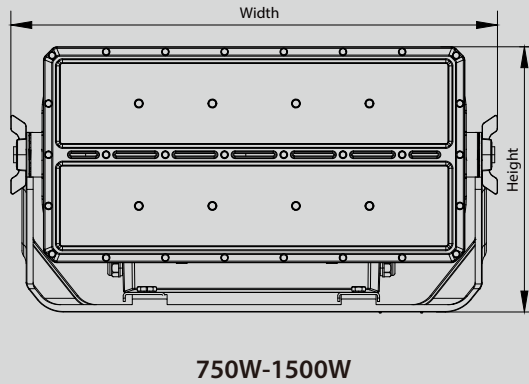
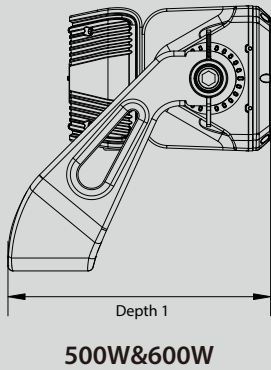
Yoke Mount(±90°Rotation)

## VULCAN V1 HIGH MAST FLOODLIGHT

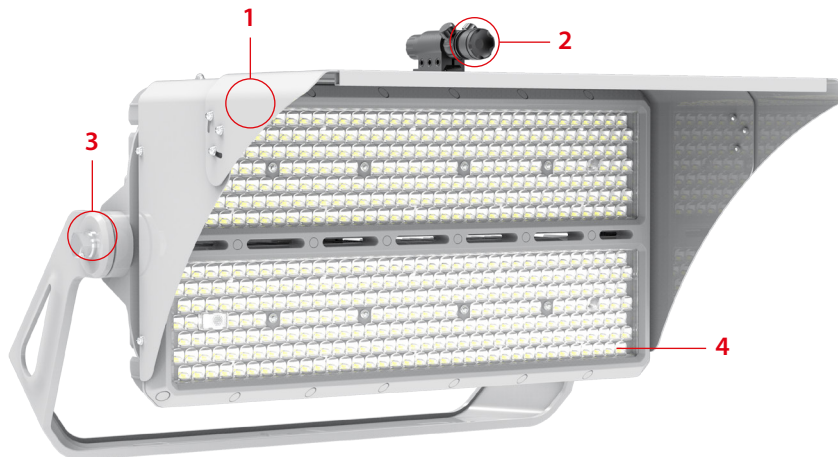
### DIMENSIONS



Model Number	Width	Height	Depth 1	Depth 2	Weight
VUL1-50-XX	27.08"	12.24"	12.13"	X	18.7KG(41.2LBS)
VUL1-60-XX	27.08"	12.24"	12.13"	X	18.7KG(41.2LBS)
VUL1-75-XX	27.5"	14.99"	12.35"	22.06"	28.5KG(62.8LBS)
VUL1-100-XX	27.5"	14.99"	12.35"	22.06"	28.5KG(62.8LBS)
VUL1-125-XX	27.5"	14.99"	12.35"	22.06"	28.5KG(62.8LBS)
VUL1-150-XX	27.5"	14.99"	12.35"	22.06"	28.5KG(62.8LBS)



### PHYSICAL FEATURES



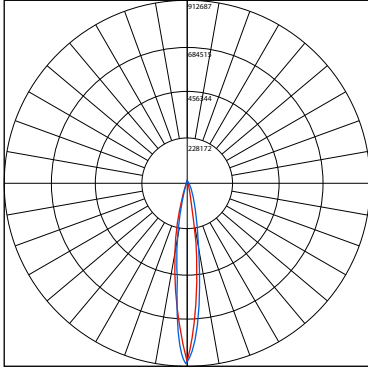
1. Available with standard and adjustable visor. Customized dimension and orange peel texture possible.
2. Laser pointer available. Order separately.
3. Available with Yoke Mount (default), Knuckle Mount and Slipfitter (500W/600W).
4. Multiple optics available with symmetric and asymmetric beam spread for different applications.

**VULCAN V1**  
HIGH MAST FLOODLIGHT

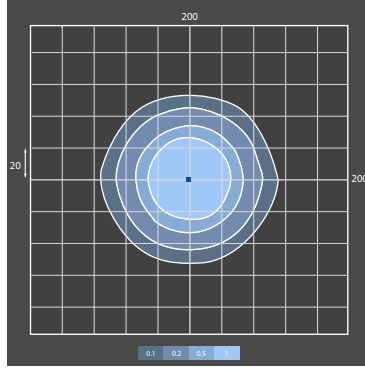
**PHOTOMETRIC SPECIFICATIONS**

**12D (12° Very Narrow Beam Optic)**

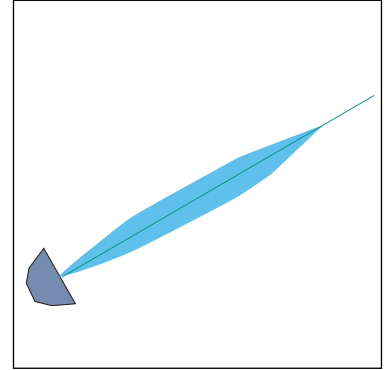
**POLAR CURVE**



**ISOCANDELA PLOT**

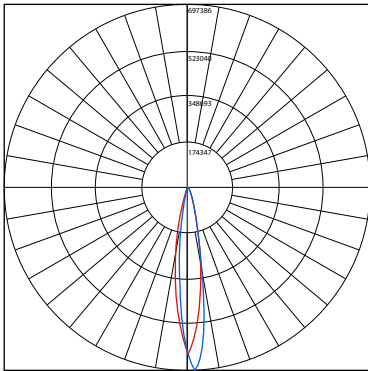


**Floodlight Optic Plot**

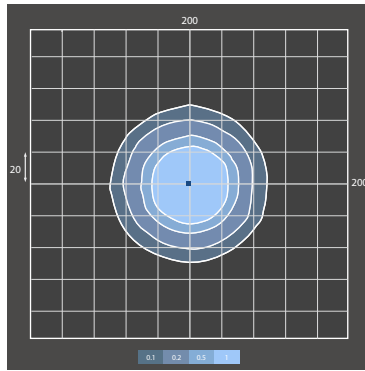


**15D (15° Very Narrow Beam Optic)**

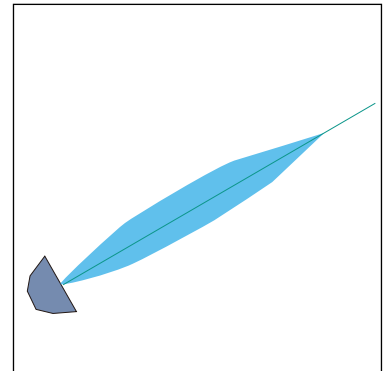
**POLAR CURVE**



**ISOCANDELA PLOT**

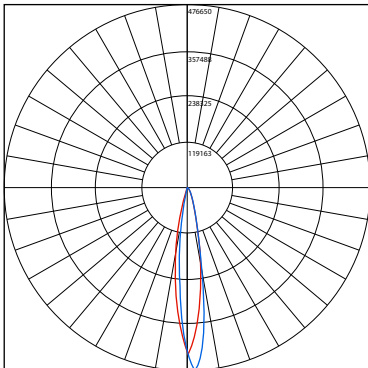


**Floodlight Optic Plot**

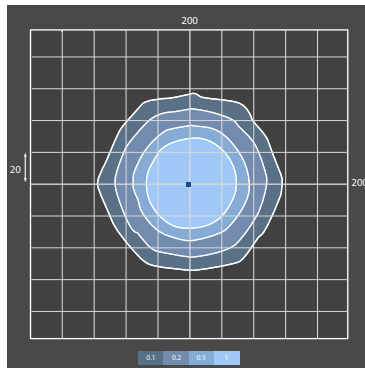


**25D (25° Narrow Beam Optic)**

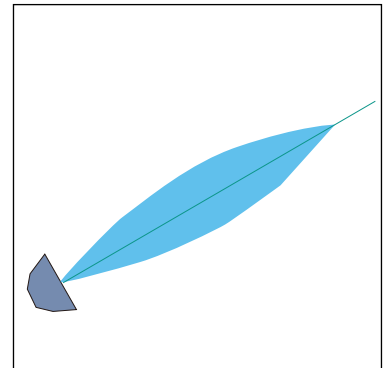
**POLAR CURVE**



**ISOCANDELA PLOT**



**Floodlight Optic Plot**

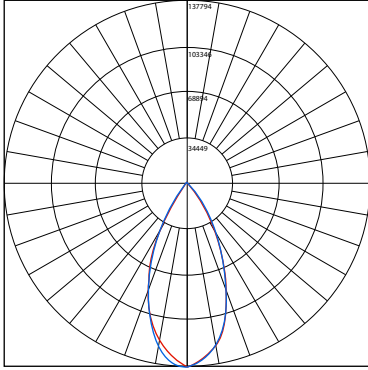


**VULCAN V1**  
HIGH MAST FLOODLIGHT

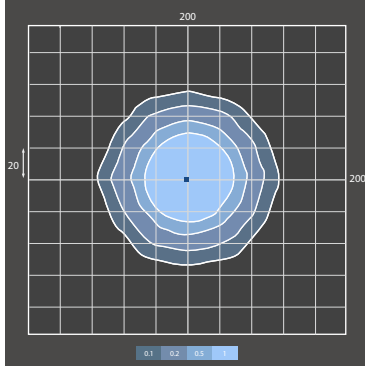
**PHOTOMETRIC SPECIFICATIONS**

**50D (50° Medium Beam Optic)**

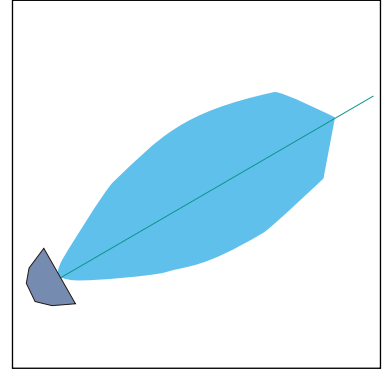
**POLAR CURVE**



**ISOCANDELA PLOT**

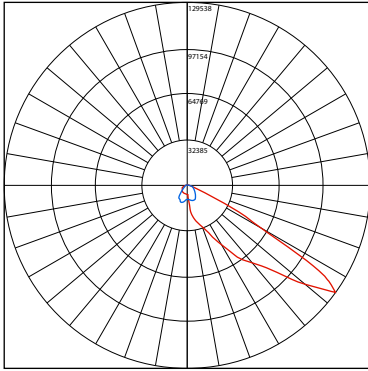


**Floodlight Optic Plot**

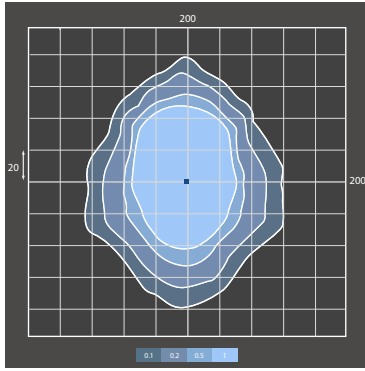


**NBP55 (Asymmetric Narrow Beam Optic)**

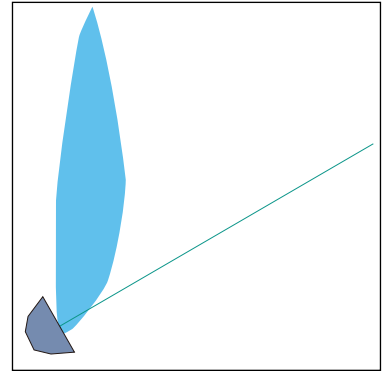
**POLAR CURVE**



**ISOCANDELA PLOT**

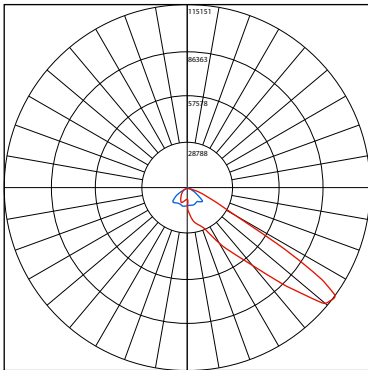


**Floodlight Optic Plot**

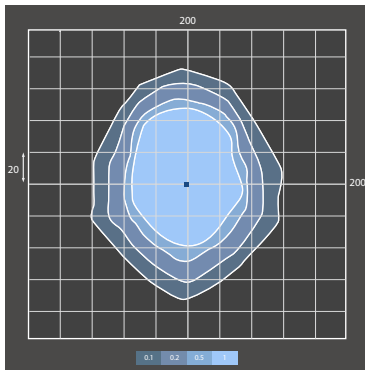


**MBP55 (Asymmetric Medium Beam Optic)**

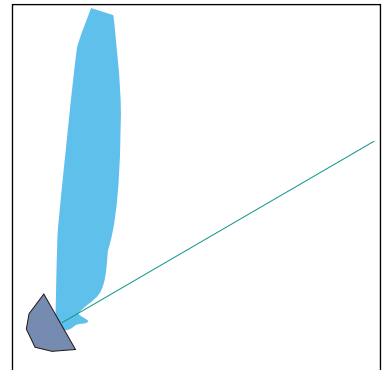
**POLAR CURVE**



**ISOCANDELA PLOT**



**Floodlight Optic Plot**

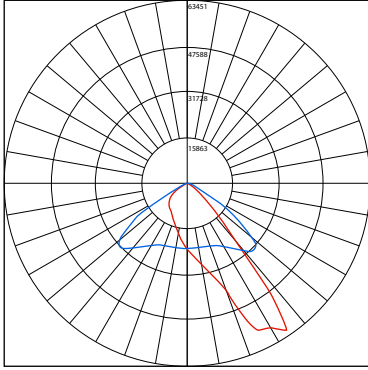


**VULCAN V1**  
HIGH MAST FLOODLIGHT

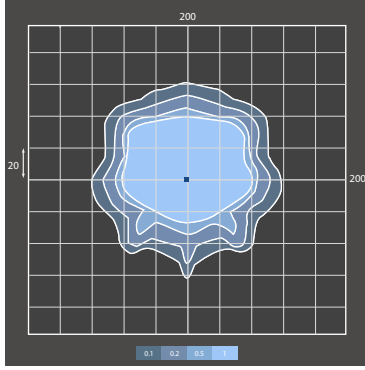
**PHOTOMETRIC SPECIFICATIONS**

**WBP30 (Asymmetric Wide Beam Optic)**

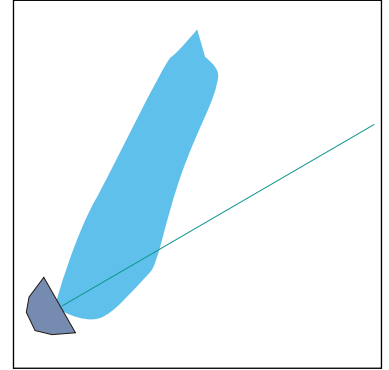
**POLAR CURVE**



**ISOCANDELA PLOT**

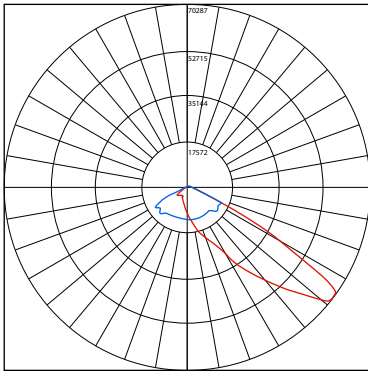


**Floodlight Optic Plot**

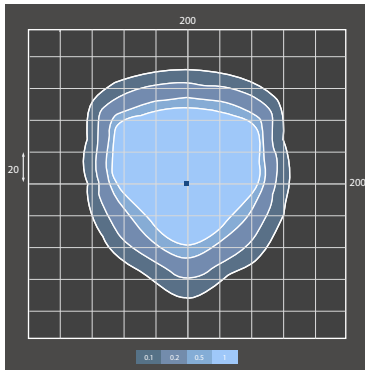


**VWBP55 (Asymmetric Very Wide Beam Optic)**

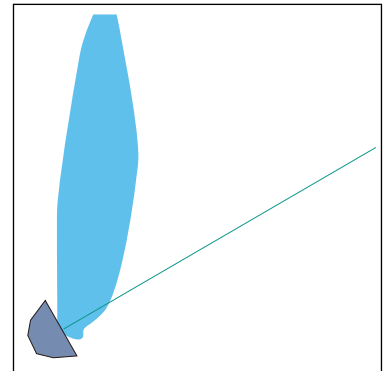
**POLAR CURVE**



**ISOCANDELA PLOT**

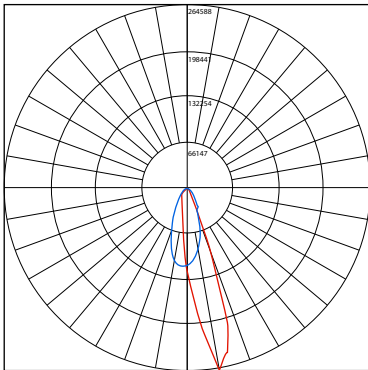


**Floodlight Optic Plot**

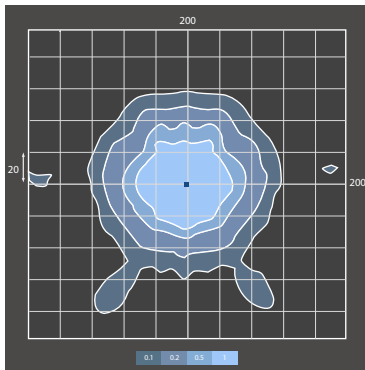


**20°x40°**

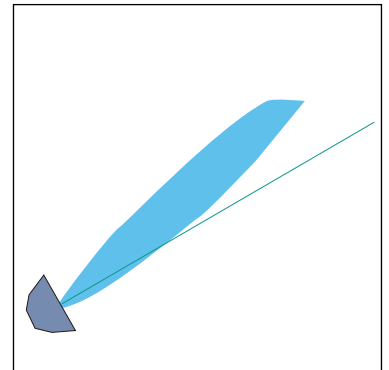
**POLAR CURVE**



**ISOCANDELA PLOT**



**Floodlight Optic Plot**

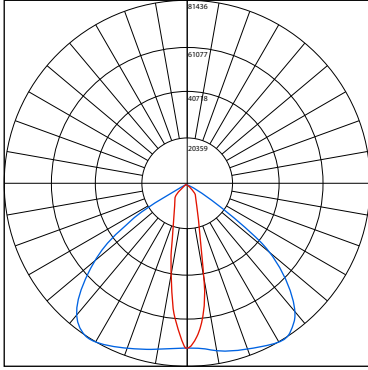


**VULCAN V1**  
HIGH MAST FLOODLIGHT

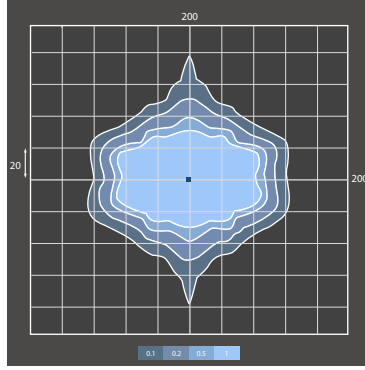
**PHOTOMETRIC SPECIFICATIONS**

25°x105°

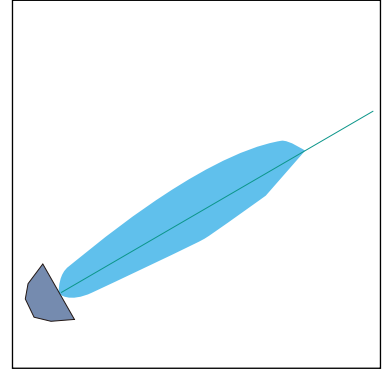
POLAR CURVE



ISOCANDELA PLOT



Floodlight Optic Plot



**ADDITIONAL ACCESSORIES (SOLD SEPARATELY)**

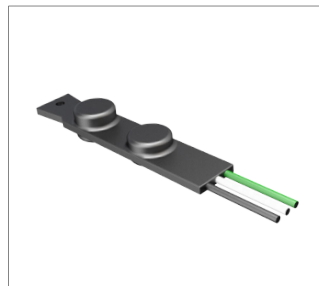
ATG CODE	MODEL NUMBER	DESCRIPTION
LS	LS-VUL1-01	Laser Pointer
VS1	VS-VUL1-01	Visor 500W/600W
VS2	VS-VUL1-02	Visor 750W-1500W
AS1	AS-VUL1-01	Adjustable Visor 500W/600W
AS2	AS-VUL1-02	Adjustable Visor 750W-1500W
SPD	SD-VUL1-01	20KV SPD
LV	LV-VUL1-01	Louver



Adjustable Visor



Louver



SPD



Visor

## VULCAN V1 HIGH MAST FLOODLIGHT

### ORDER FORMAT

Series	Wattage	CCT	Input Voltage	Mounting	Beam Angle	Options
VUL1	50=500W	30=3000K	blank=120-277Vac	Blank=Yoke Mount	12D=12° Very Narrow Beam Optic	LS= laser pointer
	60=600W	35=3500K	V= 277-480Vac	S= Slipfitter	15D=15° Very Narrow Beam Optic	VS1= Visor 500W/600W
	75=750W	40=4000K		K= Knuckle	25D=25° Narrow Beam Optic	VS2= Visor 750W-1500W
	100=1000W	50=5000K			50D=50° Medium Beam Optic	AS1=Adjustable Visor 500W/600W
	125=1250W				NBP55= Asymmetric Narrow Beam Optic	AS2=Adjustable Visor 500W/600W
	150=1500W				MBP55= Asymmetric Medium Beam Optic	SPD= 20KV SPD
					WBP30= Asymmetric Wide Beam Optic	LV= Louver
					VWBP55= Asymmetric Very Wide Beam Optic	TG= Tempered Glass
					20x40= 25°x40°	
					25x105= 25°x105°	

### PHOTOMETRIC

