

Product # _____ Type _____ Date _____

Project Name _____

Project Location _____ Prepared By _____

Constellation 450W

450W LED Constellation Highbay

The 450 watt LED Constellation Highbay has been engineered to efficiently light any large interior space. It provides specification grade optical performance using high efficacy LED and high power factor LED drivers.

Construction

The LED Constellation Highbay has flexible modular design made out of aluminum alloy.

Optics/Lens

The 450 watt LED Constellation Highbay utilizes IP66 sealed light modules. Available in 90, 70x135, 30x100, 110, 150, and 60x100 degree beam pattern.

Electrical

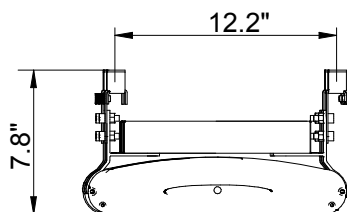
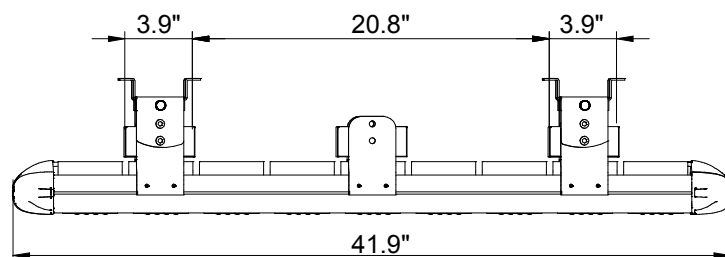
Performance greater than 100 lumens per watt. Standard Color Temperature 5500K, CRI of 80 or greater. Other optional color temp and CRI available on request. LED Drivers: UL/CSA recognized component to meet UL8750 & EN61347 (USR/CNR -E328335). Suitable for input power at 100-277 VAC. Minimum power factor over 0.95 with an operating temperature range of -22F-113F (-30C-45C). Available dimming options include: PWM, 1-10V, Microwave sensor, or Infrared sensor.

Product Applications

The LED Constellation Highbay is designed to efficiently light any large interior space such as warehouses and manufacturing facilities, convention centers/sporting arenas, big-box retail stores, cold storage facilities and gymnasiums.

Warranty and Certifications

5 years for LED Light Engine and Driver 50,000 hours L70 LED Illumination per LM-80. cETLus wet locations in compliance with UL 1598 and CSA C22.2 NO. 250.0 standards. IP66 rated. Suitable for indoor/outdoor wet or damp location use. DLC listed.



Weight:
35.7lbs / 16.2kg



Ordering Guide

MODEL	TOTAL LED POWER	SERIES	CCT COLOR TEMP	LIGHT BEAM SPREAD	INPUT VAC	LIGHTING CONTROL	MOUNTING OPTION
Con	450 = 450W	HB	3500-4500K* 2500-3500K* 4500-5500K Standard	90° 70x135° 30x100° 110° 60x100° 150°	U = Universal 120V to 277V 48 = 480V* *Consult factory for 48	ND = Non Dimming D = Dimming 1-10V PWM=PWM MS=Microwave Sensor IS=Infrared Sensor	SM- Surface Mount HK- Hook/Chain Mount HB-Universal Hanging Bracket

Note: Due to continued efforts to improve our products, specifications are subject to change without notice.

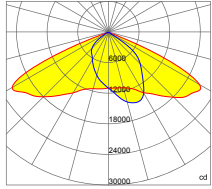


835 Industrial Drive, Elmhurst, IL 60126 708.681.4330 www.nslights.com

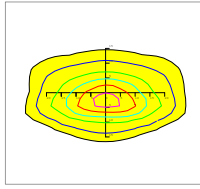
Constellation 450W

Photometrics

70×135 DEGREE LENS (Forward 5°)



0.0~180.0
90.0~270.0

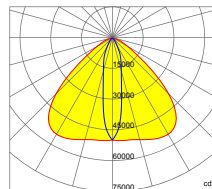


Mounting Height 15m, 0 Tilt,
50LUX-5LUX

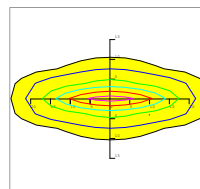
Height	Rectangular Light Spot	LUX
10m	18×48m	112LUX
11m	20×53m	91LUX
12m	22×58m	78LUX
13m	24×63m	67LUX
14m	26×68m	58LUX

Beam Angle (50% max)	70×135 DEG
Field Angle (10%)	100×160 DEG
Luminous Flux (IES)	45,000 lm
Light Efficacy (IES)	100 lm/W
Cutoff Classification	Cutoff

30×100 DEGREE LENS



0.0~180.0
90.0~270.0

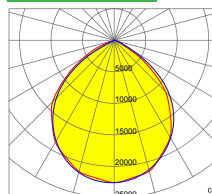


Mounting Height 15m, 0 Tilt,
50LUX-5LUX

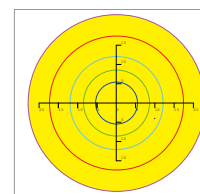
Height	Rectangular Light Spot	LUX
10m	4×19m	346LUX
11m	5×21m	291LUX
12m	5×22m	248LUX
13m	6×24m	213LUX
14m	7×26m	186LUX

Beam Angle (50% max)	30×100 DEG
Field Angle (10%)	50×120 DEG
Luminous Flux (IES)	45,000 lm
Light Efficacy (IES)	100 lm/W
Cutoff Classification	Cutoff

90 DEGREE LENS



0.0~180.0
90.0~270.0

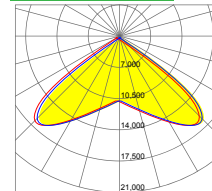


Mounting Height 25m, 0 Tilt,
50LUX-5LUX

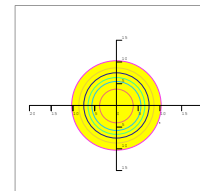
Height	Beam Diameter	LUX
11m	φ 31m	146LUX
12m	φ 34m	116LUX
13m	φ 36m	99LUX
14m	φ 40m	86LUX
15m	φ 42m	75LUX

Beam Angle (50% max)	90 DEG
Field Angle (10%)	130 DEG
Luminous Flux (IES)	45,000 lm
Light Efficacy (IES)	100 lm/W
Cutoff Classification	Cutoff

110 DEGREE LENS



0.0~180.0
90.0~270.0

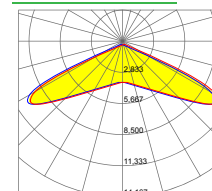


Mounting Height 10m, 0 Tilt,
50LUX-5LUX

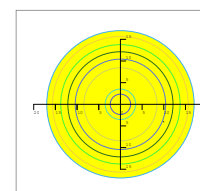
Height	Rectangular Light Spot	LUX
2m	4.0×4.3m	2625LUX
4m	8.0×8.6m	656LUX
6m	12.0×13.0m	292LUX
8m	15.9×17.3m	164LUX
10m	19.9×21.6m	105LUX

Beam Angle (50% max)	110 DEG
Luminous Flux (IES)	45,000 lm
Light Efficacy (IES)	100 lm/W
Cutoff Classification	Cutoff

150 DEGREE LENS



0.0~180.0
90.0~270.0

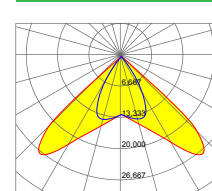


Mounting Height 10m, 0 Tilt,
50LUX-5LUX

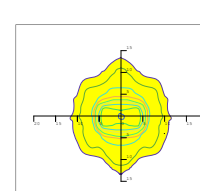
Height	Rectangular Light Spot	LUX
2m	1.8×5.3m	1301LUX
4m	3.7×10.7m	325LUX
6m	5.5×16.0m	145LUX
8m	7.4×21.4m	81LUX
10m	9.2×26.7m	52LUX

Beam Angle (50% max)	150 DEG
Luminous Flux (IES)	45,000 lm
Light Efficacy (IES)	100 lm/W
Cutoff Classification	Cutoff

60 x 100 DEGREE LENS



0.0~180.0
90.0~270.0



Mounting Height 10m, 0 Tilt,
50LUX-5LUX

Height	Rectangular Light Spot	LUX
2m	1.5×2.2m	4461LUX
4m	2.9×4.4m	1115LUX
6m	4.4×6.6m	495LUX
8m	5.8×8.7m	279LUX
10m	7.3×10.9m	178LUX

Beam Angle (50% max)	60×100 DEG
Luminous Flux (IES)	45,000 lm
Light Efficacy (IES)	100 lm/W
Cutoff Classification	Cutoff

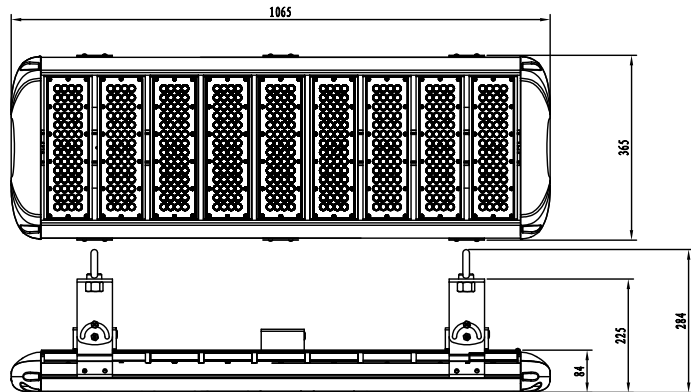
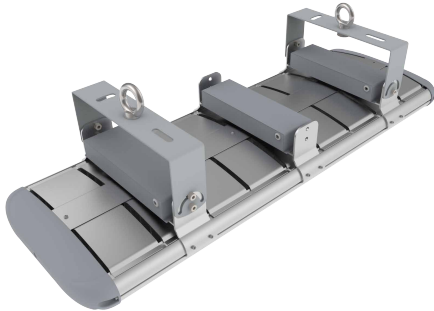


835 Industrial Drive, Elmhurst, IL 60126 708.681.4330 www.nslights.com

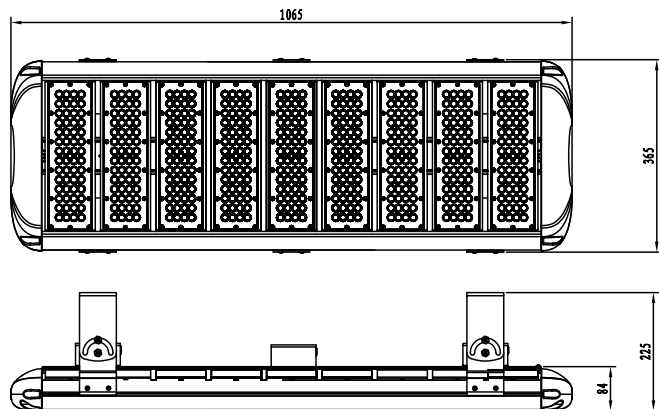
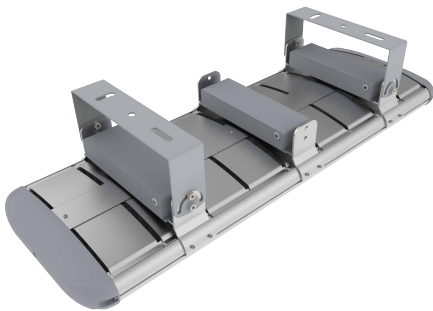
Constellation 450W

Mounting Options

Hook/Chain Mount



Universal Hanging Bracket



Surface Mount

