



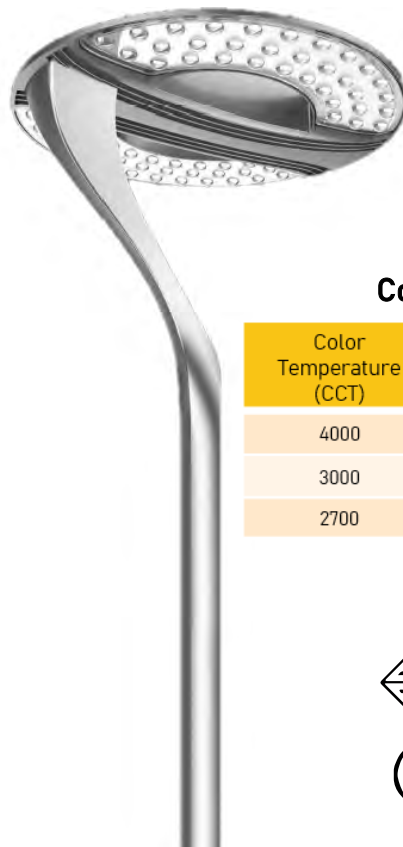
## Cobra Post Top

### General

- Heavy-duty die-cast aluminum housing.
- Clean, smooth design blending harmoniously into outdoor environments.
- UV stabilized polyester powder paint finish for durability and corrosion resistance.
- Rugged, weather-tight design and 3G vibration ratings ensure durability even in harsh environments.
- Multiple mounting options: Post top 1&11, side entry and cable suspended installation available.

### Electrical

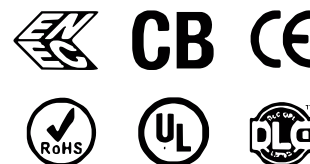
- 1-10V/ PMW/ timer dimming, 3 timer modes, Dim-to-Off with standby power  $\leq 0.5W$ .
- Constant current Inventronics driver.
- High efficiency driver: up to 93.5%, minimum efficiency 87.5%.
- Operating temperature rating of 40°F to 122°F (-40°C to 50°C).
- Class I or Class II optional.



### Color Temperature

Color Temperature (CCT)	CRI (Nominal)	Multiplier
4000	70	1.00
3000	70	0.91
2700	80	0.89

### Certifications



### Installation Options



CABLE SUSPENDED



SIDE ENTRY



POST TOP I



POST TOP II

MODEL	REPLACEMENT	WATTS	LUMINAIRE LUMEN OUTPUT	OPTIC	IP & IK	NW	CERTIFICATION
25WiP	75W	25W	3417	Type IV, Type V	IP66 & IK09	19.6 lbs (8.9kg)	UL cULus DLC Standard
50WiP	150W	50W	6402	Type IV, Type V	IP66 & IK09	19.6 lbs (8.9kg)	
75WiP	200W	75W	9750	Type IV, Type V	IP66 & IK09	21.8 lbs (9.9kg)	
120WiP	350W	120W	13800	Type IV, Type V	IP66 & IK09	22.5 lbs (10.2kg)	
150WiP	400W	150W	18000	Type IV, Type V	IP66 & IK09	22.5lbs (10.2kg)	



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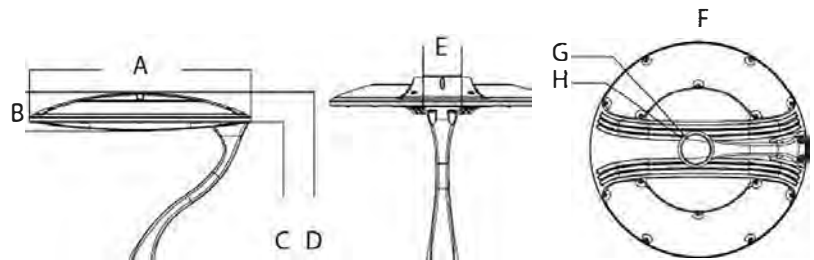


# Cobra Post Top

## Optical System

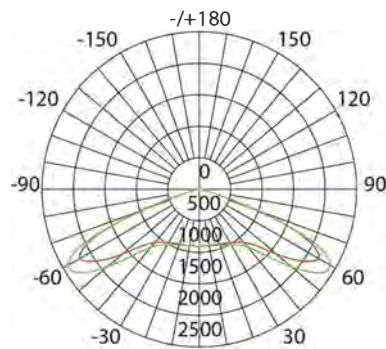
- Precision engineered individual lenses made of optical grade Mitsubishi polycarbonate for maximum light intensity, with Tempered Glass cover to protect the optics.
- Micro-lens systems produce IESNA Type V distributions.
- Delivers improved visual comfort by lower glare and providing a wider smoother and more uniform light output.
- Optical systems maintain an IP66 rating.
- Available in 2700K, 3000K, 4000K, 5000K, 5700K, 6500K CCT.
- Cutoff classification: Cutoff, no up-light pollution.
- Minimum CRI of 70, 80, and 90 optional.

## Fixture Dimensions



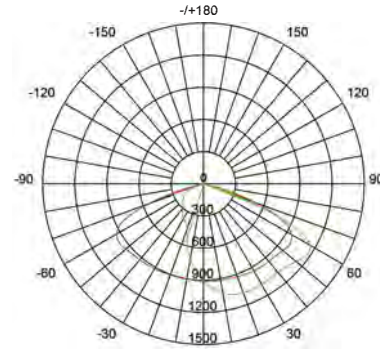
A	B	C	D
Ø460mm/18.11"	80mm/3.15"	468mm/18.44"	530mm/20.86"
E	F	G	H
78mm/3.08"	76mm/2.99"	Ø66mm/2.6"	Ø76mm/2.99"

## Photometry



Average Beam Angle (50%): 145.2°  
Unit:cd

— C0/180 Ic:905.3  
— C90/270 Ic:905.3



Average Beam Angle (50%): 113.3°  
Unit:cd

— C0/180, 142.2° Ic:909.4  
— C90/270, 84.4° Ic:1085

All published Luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited Laboratory.

## Ordering Information

CS							
WATTS	VOLTAGE	LED CHIPS	TYPE OF SENSOR	CCT&CRI	DISTRIBUTION	HOUSING	OPTIONS
25WiP	NV=100-277V	L3=LUXEON3030	00=Without Sensor	2780=2700K 80CRI	T4=TYPE IV	SG=Silver Gray	10KV SPD
50WiP	HV=347/480V		SN=Sensor	3070=3000K 70CRI	T5=TYPE V	BK=Black	20KV SPD
75WiP			PH=Photocell	4070=4000K 70CRI			R3= 3 Pin Receptacle
120WiP			DV=Dimmable	5070=5000K 70CRI			R7= 7 Pin Receptacle
150WiP				5770=5700K 70CRI			
				3080=3000K 80CRI			
				4080=4000K 80CRI			
				5080=5000K 80CRI			
				5780=5700K 80CRI			



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## CS-WiK

### General

- Heavy-duty die-cast aluminum housing and door. IK09 and anti-corrosion.
- Tool-less entry hinged removable door for easy maintenance.
- Auto-electrical disconnection: Built-in circuit breaker, tool free electrical gear tray.
- UV stabilized polyester powder paint finish for durability and corrosion resistance.
- Multiple mounting options: post top and side entry installation available.
- Mounting has leveling adjustment from -15° to +15°
- 3G vibration rated.

### Electrical

- 1-1 0V/ PMW/ timer dimming, 3 timer modes, Dim-to-Off with standby power<= 0.5W.
- Constant current Inventronics driver.
- 0-1 0V/ PMW/Timer dimming, 3 Timer Modes, Dim-to-Off with Standby Power 0.5W.
- Constant current Class II driver,
  - 277Vac, 50-60Hz, Class I optional.
- High efficiency driver: up to 93.5%, minimum efficiency 87.5%.
- Input Surge Protection: 6kV line-line, 1 0kV line-earth, pho-tocell, 20KV SPD available.
- Operating temperature rating of 40°F to 122°F (-40°C to 50°C).



### Certifications



MODEL	LUMINAIRE LUMEN OUTPUT	REPLACE UP TO	WATTS	IP & IK	DISTRIBUTION TYPE	FIXTURE DIMENSION	NW	MAXIMUM CURRENT
CS-20WiK	3100lm	50W	20W	IP66 & IK09	Type II, Type III, Type IV	25.6"x9.4"x5.5"	9.7lbs	0.22A
CS-30WiK	4641lm	75W	30W	IP66 & IK09	Type II, Type III, Type IV	25.6"x9.4"x5.5"	9.7lbs	0.33A
CS-40WiK	6000lm	120W	40W	IP66 & IK09	Type II, Type III, Type IV	25.6"x9.4"x5.5"	9.7lbs	0.44A
CS-50WiK	7520lm	150W	50W	IP66 & IK09	Type II, Type III, Type IV	25.6"x9.4"x5.5"	9.7lbs	0.55A
CS-60WiK	9024lm	150W	60W	IP66 & IK09	Type II, Type III, Type IV	25.6"x9.4"x5.5"	9.7lbs	0.66A
CS-75WiK	11898lm	200W	75W	IP66 & IK09	Type II, Type III, Type IV	25.6"x9.4"x5.5"	9.7lbs	0.88A
CS-90WiK	13110lm	250W	90W	IP66 & IK09	Type II, Type III, Type IV	30"x11.4"x5.7"	13.9lbs	1.00A
CS-120WiK	16030lm	400W	120W	IP66 & IK09	Type II, Type III, Type IV	30"x11.4"x5.7"	13.9lbs	1.35A
S-150WiK	19236lm	500W	150W	IP66 & IK09	Type II, Type III, Type IV	30"x11.4"x5.7"	13.9lbs	1.65A



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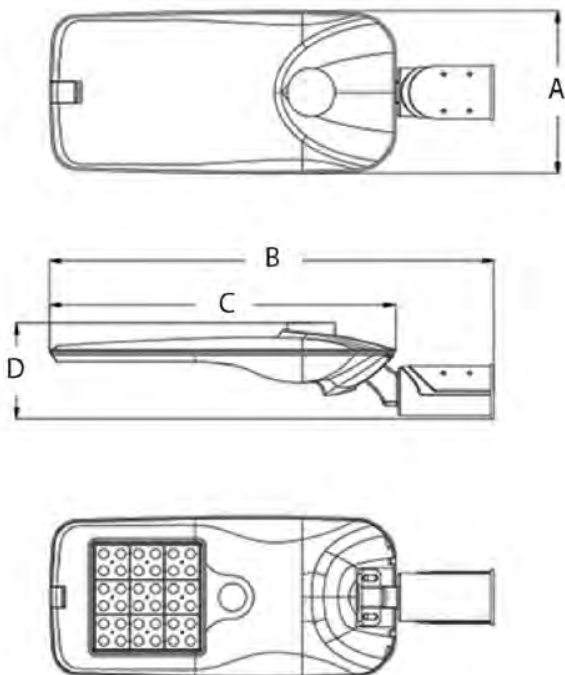


# CS-WiK

## Construction Features



1. Reserved space for photocell
2. Buckle design
3. Class I /Class II Dimmable driver
4. Isolated removable plate for driver
5. Auto Power Cut off Protector
6. Supporting Rod
7. Adjustable Mounting



A	B	C	D
Dimensions of 20W-75W			
9.37"	25.59"	19.88"	5.51"
Dimensions of 90W, 120W, and 150W			
11.41"	30.12"	24.40"	5.70"



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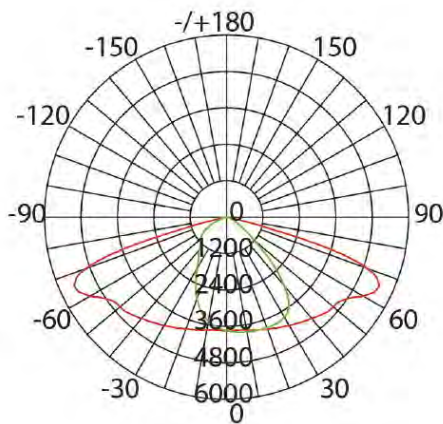


# CS-WiK

## Optical System

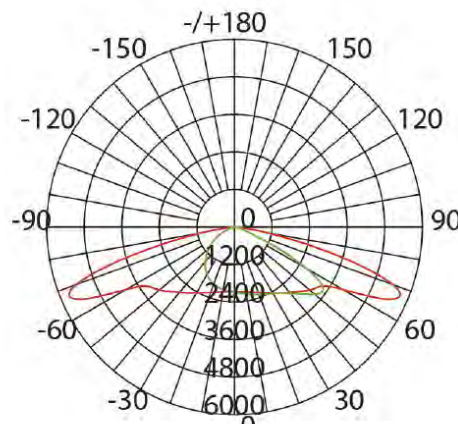
- Precision engineered individual lenses made of optical grade Mitsubishi polycarbonate for maximum light intensity.
- Micro-lens systems produce IESNA Type 11, Type 111, Type IV distributions. Luminaire produces 0% total lumens above 90° (BUG Rating, U=0).
- Delivers improved visual comfort by lower glare and providing a wider smoother and more uniform light output.
- Optical systems maintain an IP66 rating.
- Available in 3000K, 4000K, 5000K, 5700K, 6500K CCT.
- Efficacy 150lm/W as standard, higher lumen output, precision light pattern ensures more energy saved.
- Cutoff classification: Cutoff, no uplight pollution.
- Minimum CRI of 70, 80, and 90 optional.
- With Tempered Glass cover.

## Photometry



Average Beam Angle (50%): 112.7°  
Unit:cd

— C0/180, 149.4 Ic:3740  
— C90/270, 76.0 Ic:3875



Average Beam Angle (50%): 126.8°  
Unit:cd

— C0/180, 159.7 Ic:2092  
— C90/270, 93.9 Ic:1085

All published Luminaire photometric testing performed to ! ESNA LM-79-08 standards by a NVLAP accredited Laboratory.

## Ordering Information

CS							
WATTS	VOLTAGE	LED CHIPS	TYPE OF SENSOR	CCT&CRI	DISTRIBUTION	HOUSING	OPTIONS
20WiK	NV= 100-277V	L3=LUMILEDS3030	00=Without Sensor	3070=3000K 70CRI	T2=Type II	SG=Silver Gray	10KV SPD
30WiK		L5=LUMILEDS5050	PH=Photocell	4070=4000K 70CRI	T3=Type III	BK=Black	20KV SPD
40WiK			DV=Dimmable	5070=5000K 70CRI	T4=Type IV		
50WiK				5770=5700K 70CRI			
60WiK				3080=3000K 80CRI			
75WiK				4080=4000K 80CRI			
90WiK				5080=5000K 80CRI			
120WiK				5780=5700K 80CRI			
150WiK							



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## Night Hawk OT Street and Area Light

### General

- Designed for commercial and industrial applications, providing cooler operating temperatures, brighter light and longer LED span.
- The housing is made of die-casting aluminum alloy and utilizes external fins ensure greater heat dissipation.
- Anti-corrosion coating.
- Light in Weight:  
11lbs(small), 121bs(medium), 231bs(large).

### Electrical

- Standard universal voltage (100-240/277Vac) input, 50/60Hz, 347/480V option.
- L90 calculated life: 50,000+ hours.
- 0-10V/ PMW/Timer dimming, 3 Timer Modes, Dim-to-Off with Standby Powers 0.5W.
- Constant current driver ,100-277Vac, 50-60Hz, 347 /480V.
- High efficiency driver: up to 93.5%, minimum efficiency 87.5%.
- Input Surge Protection: 6kV line-line, 1 0kV line-earth.
- Photocell, PIR sensor, 20KV SPD available.
- Operating temperature rating of -40°F to 122°F (-40°C to 50°C)

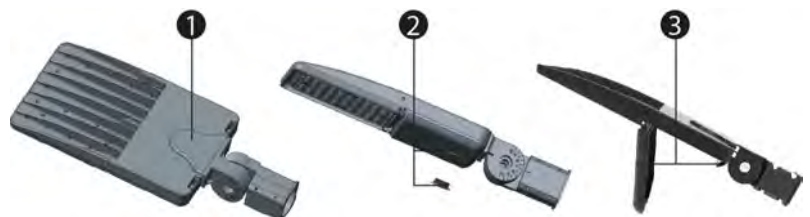


### Certifications



(Light shield available)

### Smart Design



1. Space reserved for photocell sensor
2. Space reserved for occupancy sensor with waterproof seal
3. Tool-free maintenance



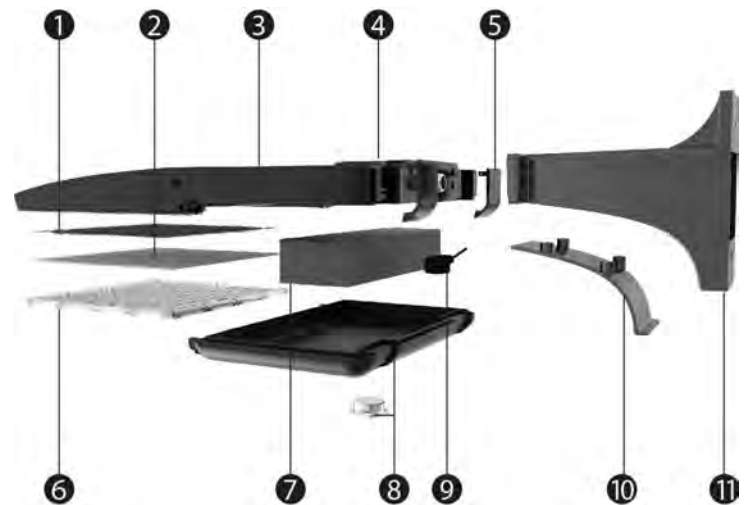
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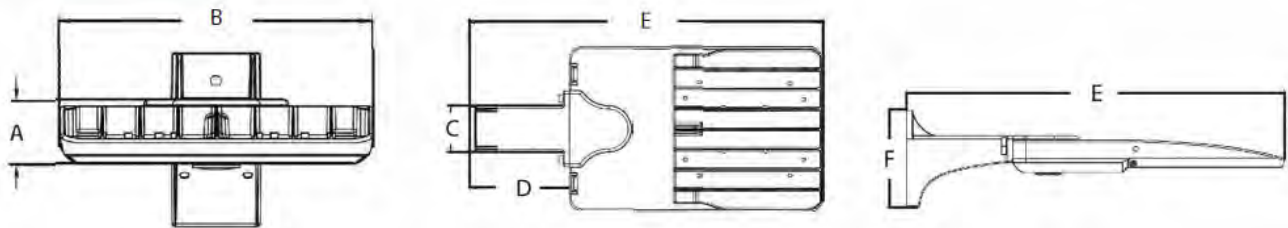
# Night Hawk OT Street and Area Light

## Construction Features

1. Super efficient heat dissipation layer
2. Light source: PCB board with LEDs
3. Die casting aluminum unibody main housing, IP66
4. Space for 5/7 pin receptacle upgradeable for photo-cell sensor and smart systems
5. Tool free buckle to driver access panel
6. Optical grade rotatable PC lens Type III/ IV /V
7. Top level 1-10V dimmable driver 100-277V / 347V / 480V optional
8. Tool free driver access panel with space reserved for occupancy sensor covered by removable cap fits with Wattstopper FSP sensor
9. Surge protection device
10. Bracket access panel for wiring
11. Exchangeable bracket fits round/ square pole. Other brackets optional such as yoke, trunnion, etc



## Fixture Dimensions



A	B	C	D	E	F
Dimensions of 75W, 115W and 145W Models					
2.2"	10.6"	3"	6.49"	23"	5.9"
Dimensions of 180W, 200W, 230W and 250W Models					
2.2"	13.7"	3"	6.49"	26.7"	5.9"
Dimensions of 300W, 420 Models					
3"	14"	3"	6.49"	30"	5.9"

## Optical System

- Precision engineered lens made of optical grade Mitsubishi polycarbonate for maximum light intensity.
- Type III, Type IV, Type V light patterns are available, right distribution for right project.
- Designed to provide the right amount of light on any small or medium lot, no matter the shape.
- Delivers improved visual comfort by lower glare and providing a wider smoother and more uniform light output.
- Available in 3000K, 4000K, 5000K, 5700K, 6500K CCT.
- Efficacy 140lm/W and 170lm/W optional, higher lumen output, precision light pattern ensure more energy saved.
- Cutoff classification: Cut-off, no uplight pollution.
- Minimum CRI of 70, 80, and 90 optional.



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## Night Hawk OT Street and Area Light

MODEL	LEDS	WATTS	LUMINAIRE LUMEN OUTPUT	REPLACE MHL	FIXTURE DIMENSION	NW	IP & IK
75WoT	Lumileds 5050	75W	13121	300W	23"x11"x2.2"	11lbs	IP66 & IK10
115WoT	Lumileds 5050	115W	18689	400W	23"x11"x2.2"	11lbs	
145WoT	Lumileds 5050	145W	24699	500W	23"x11"x2.2"	11lbs	
180WoT	Lumileds 5050	180W	30870	600W	26.7"x14"x2.2"	12lbs	
200WoT	Lumileds 5050	200W	33012	750W	26.7"x14"x2.2"	12lbs	
230WoT	Lumileds 5050	230W	36162	1000W	26.7"x14"x2.2"	12lbs	
300WoT	Lumileds 5050	300W	43500	1200W	30"x14"x3"	23lbs	
420WoT	Lumileds 5050	420W	60060	1500W	30"x14"x3"	23lbs	

MODEL	LEDS	WATTS	LUMINAIRE LUMEN OUTPUT	REPLACE MHL	FIXTURE DIMENSION	NW	IP & IK
75WoT	Lumileds 3030	75W	10764	200W	23"x11"x2.2"	11lbs	IP66 & IK10
115WoT	Lumileds 3030	115W	15066	300W	23"x11"x2.2"	11lbs	
145WoT	Lumileds 3030	145W	19522	400W	23"x11"x2.2"	11lbs	
180WoT	Lumileds 3030	180W	25648	500W	26.7"x14"x2.2"	12lbs	
200WoT	Lumileds 3030	200W	28058	600W	26.7"x14"x2.2"	12lbs	
230WoT	Lumileds 3030	230W	31123	750W	26.7"x14"x2.2"	12lbs	
250WoT	Lumileds 3030	250W	32500	850W	26.7"x14"x2.2"	12lbs	
300WoT	Lumileds 3030	300W	37500	1000W	30"x14"x3"	23lbs	

### Accessories (Order Separately)



### Ordering Information

CS								
WATTAGE	VOLTAGE	LED CHIPS	TYPE OF SENSOR	CCT & CRI	DISTRIBUTION	MOUNT	HOUSING	OPTIONS
75WoT	NV=100-277V	L3=LUMILEDS3030	00=Without sensor	3070=3000K 70CRI	T3=TYPE 3	A=Slip Fitter	BK=Black	SPD10KV
115WoT	HV=347/480V	L5=LUMILEDS5050	SN=Motion sensor	4070=4000K 70CRI	T4=TYPE 4	B=Adjustable Arm Mount	BZ=Bronze	SPD20KV
145WoT			PH=Photocell	5070=5000K 70CRI	T5=TYPE 5		WH=White	DIP
180WoT			DV=Dimmable	5770=5700K 70CRI	T512=T5WQ	C=Yoke Mount	SG=Silver Gray	SWITCH
200WoT				3080=3000K 80CRI		D=Slide and Lock Mount	RD=Red	
230WoT				4080=4000K 80CRI		E=Square Pole Mount	BL=Blue	
250WoT				5080=5000K 80CRI		F=Round Pole Mount		
300WoT				5780=5700K 80CRI		G=Trunnion Mount		
420WoT								



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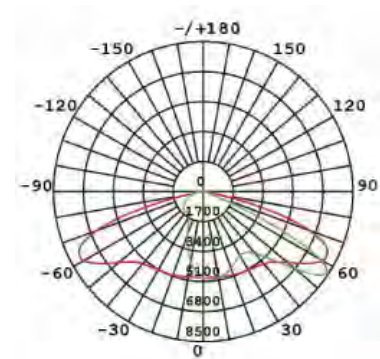




# Night Hawk OT Street and Area Light

## TYPE III MEDIUM DISTRIBUTION (130-140LM/W)

Wattage		3000K/70CRI	4000K/70CRI	5000K/70CRI	5700K/70CRI
	BUG Rating	Luminaire Lumen Output	Luminaire Lumen Output	Luminaire Lumen Output	Luminaire Lumen Output
75W	B2-U0-G2	10425	10650	10764	10875
115W	B2-U0-G3	14720	14950	15066	15180
145W	B2-U0-G3	18560	19140	19522	19575
180W	B2-U0-G3	23040	25200	25648	26100
200W	B2-U0-G3	25600	27000	28058	28000
230W	B2-U0-G3	29440	29900	31123	31280
300W	B2-U0-G4	34500	36000	37200	37500

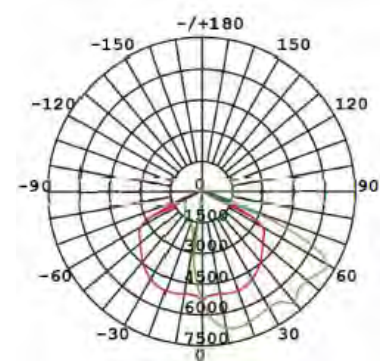


Average Beam Angle (50%): 119° Unit:cd

— C0/180, lc:4873 76.2, 76.2  
— C90/270, lc:4968 20.8, 66.4

## TYPE IV MEDIUM DISTRIBUTION (130-140LM/W)

Wattage		3000K/70CRI	4000K/70CRI	5000K/70CRI	5700K/70CRI
	BUG Rating	Luminaire Lumen Output	Luminaire Lumen Output	Luminaire Lumen Output	Luminaire Lumen Output
75W	B2-U0-G2	10425	10650	10764	10875
115W	B2-U0-G2	14720	14950	15066	15180
145W	B3-U0-G2	18560	19140	19522	19575
180W	B3-U0-G3	23040	25200	25648	26100
200W	B3-U0-G3	25600	27000	28058	28000
230W	B3-U0-G4	29440	29900	31123	31280
300W	B4-U0-G4	34500	36000	37200	37500

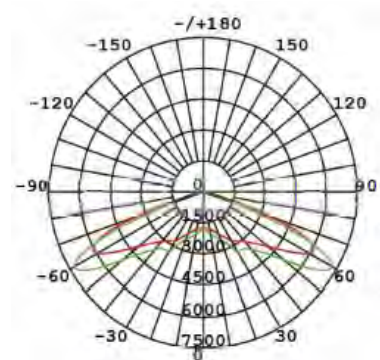


Average Beam Angle (50%): 101.8° Unit:cd

— C0/180, lc:5314 63.6, 63.6  
— C90/270, lc:6514 7.8, 68.6

## TYPE V MEDIUM DISTRIBUTION (130-140LM/W)

Wattage		3000K/70CRI	4000K/70CRI	5000K/70CRI	5700K/70CRI
	BUG Rating	Luminaire Lumen Output	Luminaire Lumen Output	Luminaire Lumen Output	Luminaire Lumen Output
75W	B3-U0-G2	10425	10650	10764	10875
115W	B4-U0-G2	14720	14950	15066	15180
145W	B4-U0-G2	18560	19140	19522	19575
180W	B5-U0-G3	23040	25200	25648	26100
200W	B5-U0-G3	25600	27000	28058	28000
230W	B2-U0-G3	29440	29900	31123	31280
300W	B2-U0-G4	34500	36000	37200	37500



Average Beam Angle (50%): 146° Unit:cd

— C0/180, lc:1786 74.1, 74.1  
— C90/270, lc:1786 71.9, 71.9

All published Luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited Laboratory.



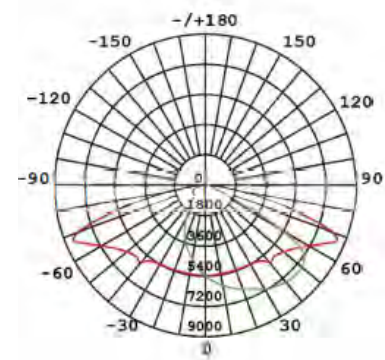
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# Night Hawk OT Street and Area Light

## TYPE III MEDIUM DISTRIBUTION (160-110LM/W)

Wattage		3000K/70CRI	4000K/70CRI	5000K/70CRI	5700K/70CRI
	BUG Rating	Luminaire Lumen Output	Luminaire Lumen Output	Luminaire Lumen Output	Luminaire Lumen Output
75W	B2-U1-G2	12876	12998	13121	13182
115W	B3-U0-G2	18375	18532	18689	18767
145W	B3-U0-G3	24018	24358	24699	24869
180W	B3-U0-G3	29970	30420	30870	31096
200W	B4-U0-G3	32092	32552	33012	33243
230W	B4-U0-G3	35182	35672	36162	36408
300W	B4-U0-G4	47228	48079	49353	49590
420W	B4-U0-G5	58508	59561	61141	61434

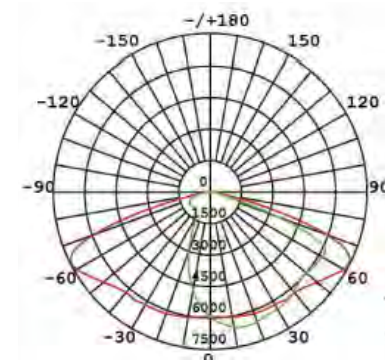


Average Beam Angle (50%): 117.9° Unit:cd

— C0/180, lc:5338 78.5, 78.5  
— C90/270, lc:7570 17.0, 61.8

## TYPE IV MEDIUM DISTRIBUTION (160-170LM/W)

Wattage		3000K/70CRI	4000K/70CRI	5000K/70CRI	5700K/70CRI
	BUG Rating	Luminaire Lumen Output	Luminaire Lumen Output	Luminaire Lumen Output	Luminaire Lumen Output
75W	B3-U1-G2	12876	12998	13121	13182
115W	B3-U0-G3	18375	18532	18689	18767
145W	B3-U0-G3	24018	24358	24699	24869
180W	B3-U0-G4	29970	30420	30870	31096
200W	B4-U0-G4	32092	32552	33012	33243
230W	B4-U0-G4	35182	35672	36162	36408
300W	B4-U0-G5	47228	48079	49353	49590
420W	B4-U0-G5	58508	59561	61141	61434

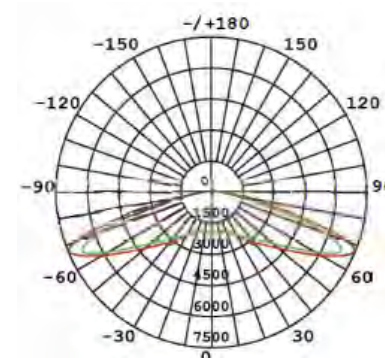


Average Beam Angle (50%): 119.4° Unit:cd

— C0/180, 149.6  
— C90/270, 89.2

## TYPE V MEDIUM DISTRIBUTION (160-110LM/W)

Wattage		3000K/70CRI	4000K/70CRI	5000K/70CRI	5700K/70CRI
	BUG Rating	Luminaire Lumen Output	Luminaire Lumen Output	Luminaire Lumen Output	Luminaire Lumen Output
75W	B4-U1-G2	12876	12998	13121	13182
115W	B4-U0-G2	18375	18532	18689	18767
145W	B5-U0-G3	24018	24358	24699	24869
180W	B3-U0-G3	29970	30420	30870	31096
200W	B5-U0-G4	32092	32552	33012	33243
230W	B5-U0-G3	35182	35672	36162	36408
300W	B5-U0-G4	47228	48079	49353	49590
420W	B5-U0-G5	58508	59561	61141	61434



Average Beam Angle (50%): 160.3° Unit:cd

— C0/180, lc:1944 80.8, 80.8  
— C90/270, lc:1944 79.5, 79.5



AMERICAN COMBAT VETERAN OWNED COMPANY

