

JOB \_\_\_\_\_ TYPE \_\_\_\_\_

NOTES \_\_\_\_\_ APPROVALS \_\_\_\_\_

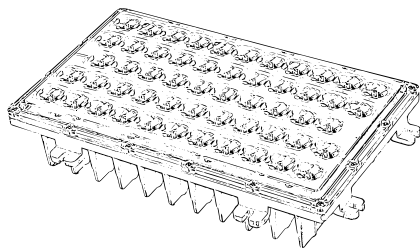
### FEATURES

- Three beam patterns Wide, Vertical and Narrow Flood generate high efficiencies and outstanding uniformity of illumination.
- 350 or 500mA current
- 3000K, 4000K or 5000K color temperatures
- IP66 sealed optical chamber

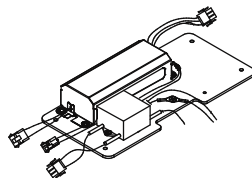
### Certifications



### SPECIFICATIONS



LED ASSEMBLY



ELECTRONIC DRIVER

### ORDERING CODE

Fixture	Distribution	# LED's	CCT	Drive Current	Voltage	Fuse Options
AFL10-LED-KIT	WF Wide Flood VF Vertical Flood NF Narrow Flood	54 54 LEDs	3K 3000K 4K 4000K 5K 5000K	35 350mA 50 500mA	UV 120-277V 347 347V 480 480V	SF 120, 277, 347 Line Volts DF 208, 240, 480 Line Volts

For installation instructions see: [http://www.kimlighting.com/content/products/instructions/instructions\\_files/93065869\\_af110\\_upgradekit\\_install.pdf](http://www.kimlighting.com/content/products/instructions/instructions_files/93065869_af110_upgradekit_install.pdf)

Kim Lighting reserves the right to change specifications without notice.

**LUMEN OUTPUT**

Light Engines	Performance Package	System Watts	Dist. Type	Field Angle		Beam Angle		3K (3000K)			4K (4000K)			5K (5000K)		
				°H	°V	°H	°V	Max Cd	Lumens	LPW	Max Cd	Lumens	LPW	Max Cd	Lumens	LPW
219C Nichia LEDs	350mA	62	Wide Flood	159.9	116.9	132.2	52.5	3580	6255	104	3865	6754	113	3918	6845	114
			Vertical Flood	120.4	88.9	95.4	47.4	5182	7177	120	5595	7749	129	5671	7854	131
			Narrow Flood	99.4	64.8	71.0	32.2	7626	6921	115	8099	7351	123	8246	7484	125
	500mA	88	Wide Flood	160.0	116.8	132.2	52.5	4767	8323	97	5144	8987	105	5213	9108	107
			Vertical Flood	118.5	97.1	93.6	48.6	6815	9603	112	7293	10276	120	7411	10442	122
			Narrow Flood	103.9	81.0	69.8	32.5	9513	9358	109	9994	9832	114	10123	9958	116

**ELECTRICAL CHARACTERISTICS**

Electrical										Dimming						
Current	System Watts	Line Voltage		Amps AC						Min. Power Factor	Max THD (%)	Dimming Range	Source current out of 0-10V purple wire		Absolute voltage range on 0-10V (+) purple wire	
		VAC	Hz	120	208	240	277	347	480				Min	Max	Min	Max
350 mA	63	120	60	0.52	0.30	0.26	0.22	0.18	0.13	0.99	7.5	0-10V	0	1mA	0	10V
500 mA	89			0.73	0.42	0.37	0.32	0.25	0.18							

**TM-21 LIFETIME CALCULATION**

Ambient Environment °C	Projected Lumen Maintenance				Reported L70
	16	26	TM-21 60	100	
25°	98%	97%	95%	93%	>60kHRS
25°	98%	97%	95%	93%	

**LED COLOR**

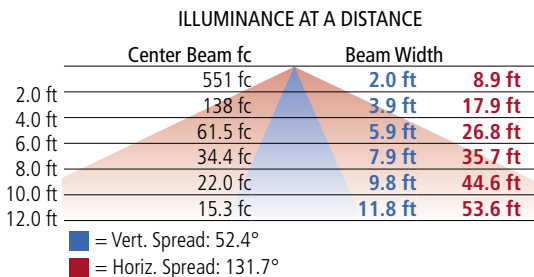
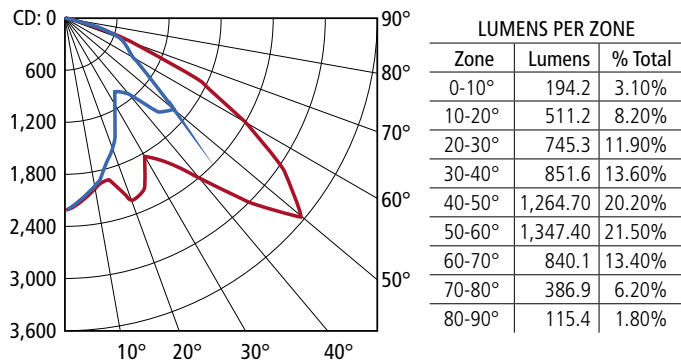
	Spectroradiometric		
	3K	4K	5K
<b>Designation</b>	3000K	4000K	5000K
CRI Minimum	≥70	≥70	≥70
S/P Ratio	1.33	1.66	1.78

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## Wide Flood Polar Candela Distribution

3,000K, 350mA – 62W

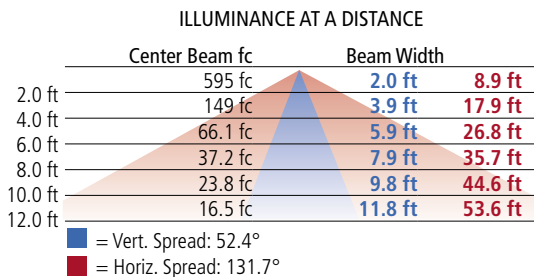
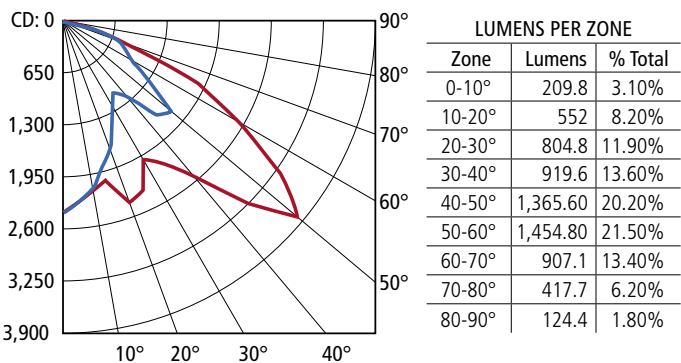
AFL10-LED-WF-54L3K35 ■ = 0°H ■ = 90°H



47 ft = 1 fc maximum distance

4,000K, 350mA – 62W

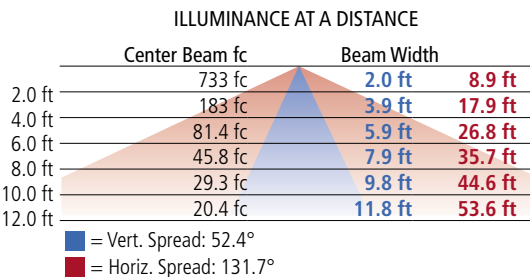
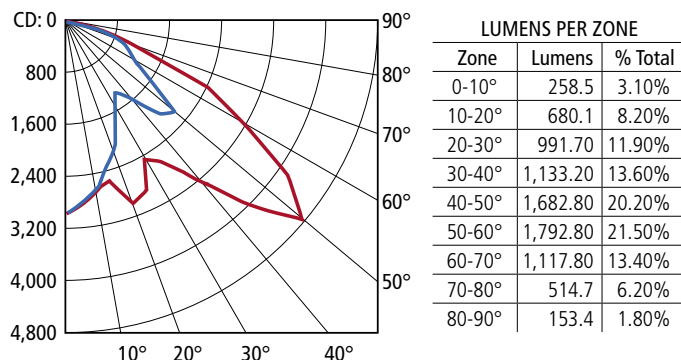
AFL10-LED-WF-54L4K35 ■ = 0°H ■ = 90°H



48 ft = 1 fc maximum distance

3,000K, 500mA – 88W

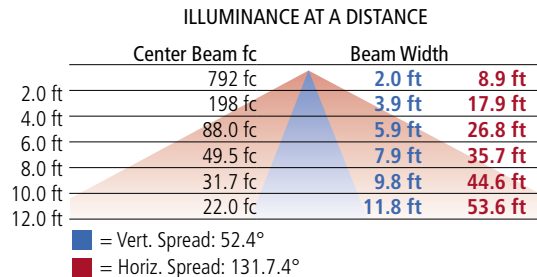
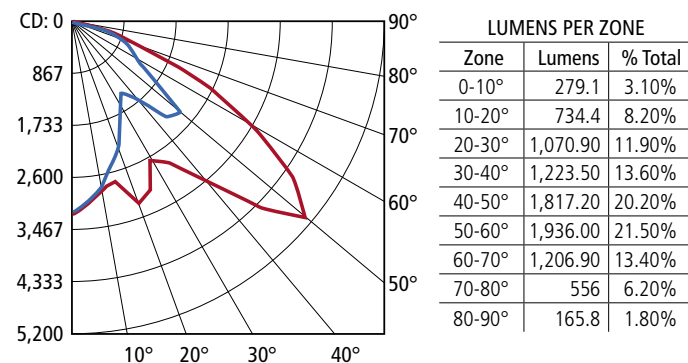
AFL10-LED-WF-54L3K50 ■ = 0°H ■ = 90°H



54 ft = 1 fc maximum distance

4,000K, 500mA – 88W

AFL10-LED-WF-54L4K50 ■ = 0°H ■ = 90°H

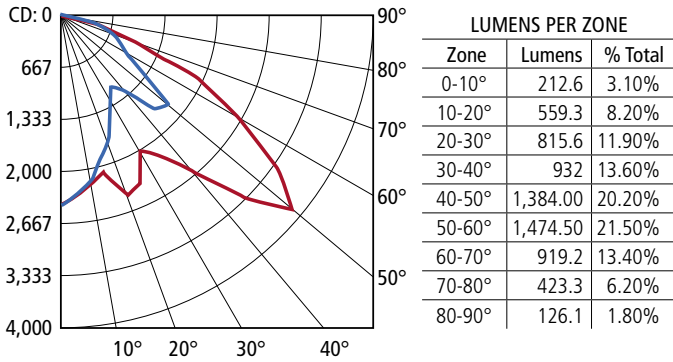


56 ft = 1 fc maximum distance

### Wide Flood Polar Candela Distribution (cont.)

5,000K, 350mA – 62W

AFL10-LED-WF-54L5K35 ■ = 0°H ■ = 90°H



ILLUMINANCE AT A DISTANCE

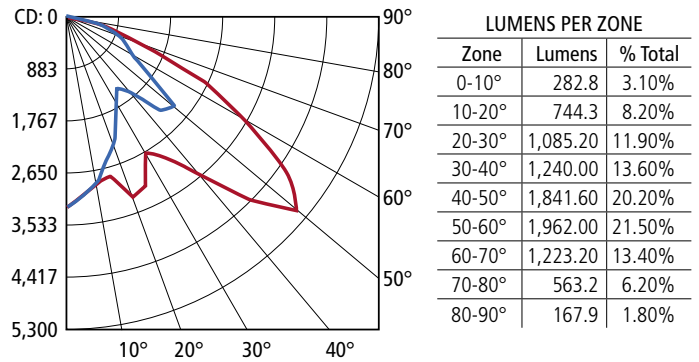
Center Beam fc	Beam Width	
2.0 ft	603 fc	2.0 ft 8.9 ft
4.0 ft	151 fc	3.9 ft 17.9 ft
6.0 ft	67 fc	5.9 ft 26.8 ft
8.0 ft	37.7 fc	7.9 ft 35.7 ft
10.0 ft	24.1 fc	9.8 ft 44.6 ft
12.0 ft	16.8 fc	11.8 ft 53.6 ft

■ = Vert. Spread: 52.4°  
 ■ = Horiz. Spread: 131.7°

49 ft = 1 fc maximum distance

5,000K, 500mA – 88W

AFL10-LED-WF-54L5K50 ■ = 0°H ■ = 90°H



ILLUMINANCE AT A DISTANCE

Center Beam fc	Beam Width	
2.0 ft	802 fc	2.0 ft 8.9 ft
4.0 ft	201 fc	3.9 ft 17.9 ft
6.0 ft	89.1 fc	5.9 ft 26.8 ft
8.0 ft	50.1 fc	7.9 ft 35.7 ft
10.0 ft	32.1 fc	9.8 ft 44.6 ft
12.0 ft	22.3 fc	11.8 ft 53.6 ft

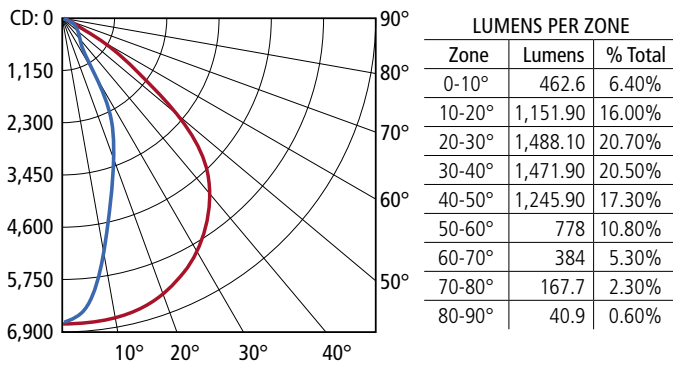
■ = Vert. Spread: 52.4°  
 ■ = Horiz. Spread: 131.7°

57 ft = 1 fc maximum distance

### Vertical Flood Polar Candela Distribution

3,000K, 350mA – 62W

AFL10-LED-VF-54L3K35 ■ = 0°H ■ = 90°H



ILLUMINANCE AT A DISTANCE

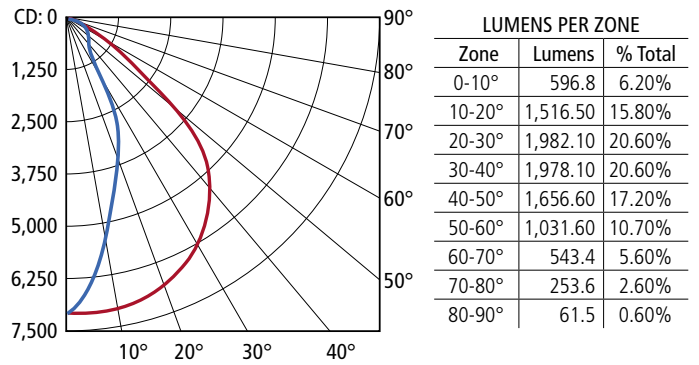
Center Beam fc	Beam Width	
2.0 ft	1256 fc	1.8 ft 4.4 ft
4.0 ft	315 fc	3.5 ft 8.8 ft
6.0 ft	140 fc	5.3 ft 13.2 ft
8.0 ft	78.7 fc	7.0 ft 17.6 ft
10.0 ft	50.4 fc	8.8 ft 22.0 ft
12.0 ft	35.0 fc	10.5 ft 26.4 ft

■ = Vert. Spread: 47.4°  
 ■ = Horiz. Spread: 95.4°

71 ft = 1 fc maximum distance

3,000K, 500mA – 88W

AFL10-LED-VF-54L3K50 ■ = 0°H ■ = 90°H



ILLUMINANCE AT A DISTANCE

Center Beam fc	Beam Width	
2.0 ft	1628 fc	1.8 ft 4.3 ft
4.0 ft	407 fc	3.6 ft 8.5 ft
6.0 ft	181 fc	5.4vft 12.8 ft
8.0 ft	102 fc	7.2 ft 17.1 ft
10.0 ft	65.1 fc	9.0 ft 21.3 ft
12.0 ft	45.2 fc	10.8 ft 25.6 ft

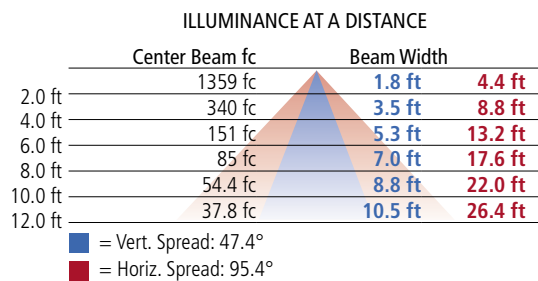
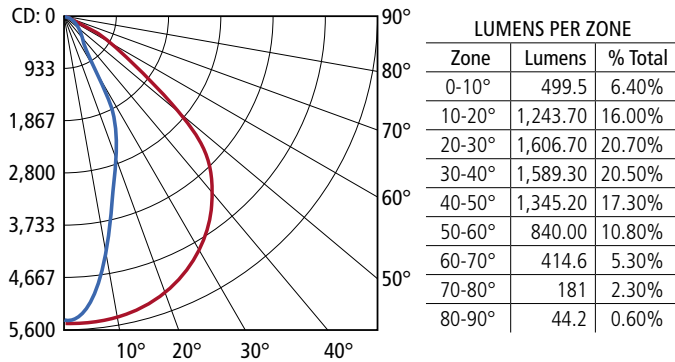
■ = Vert. Spread: 48.6°  
 ■ = Horiz. Spread: 93.6°

81 ft = 1 fc maximum distance

## Vertical Flood Polar Candela Distribution (cont.)

**4,000K, 350mA – 62W**

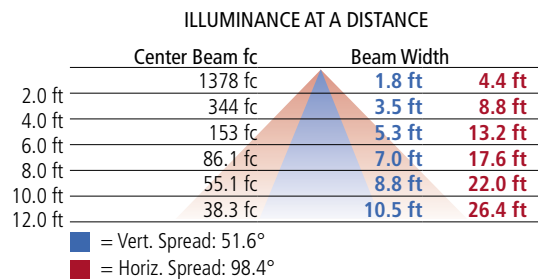
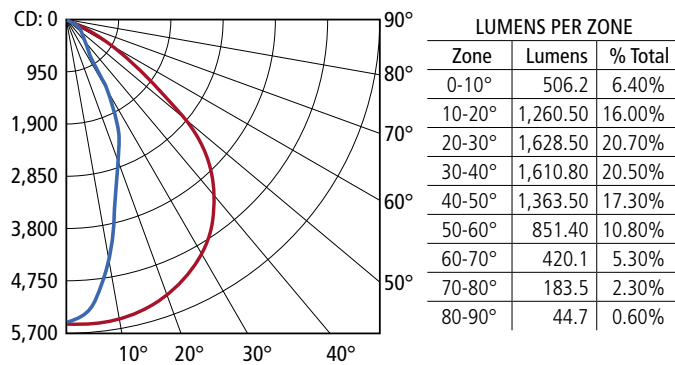
**AFL10-LED-VF-54L4K35** ■ = 0°H ■ = 90°H



**74 ft = 1 fc maximum distance**

**5,000K, 350mA – 62W**

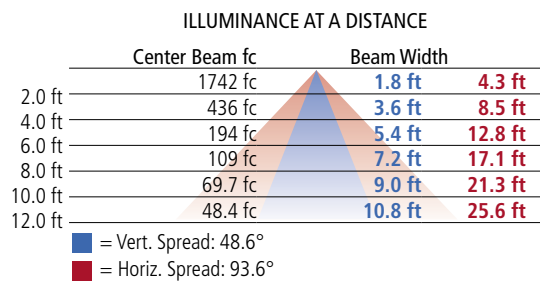
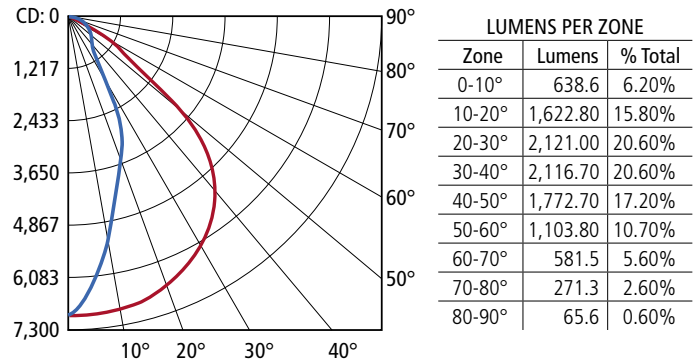
**AFL10-LED-VF-54L5K35** ■ = 0°H ■ = 90°H



**74 ft = 1 fc maximum distance**

**4,000K, 500mA – 88W**

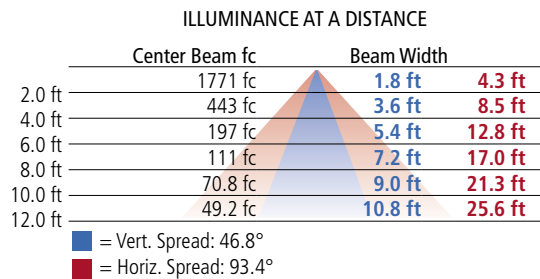
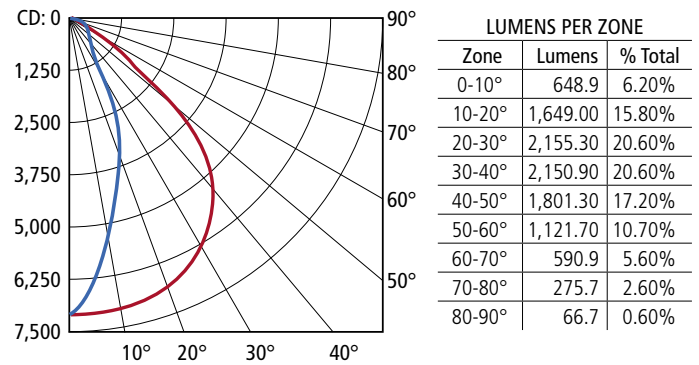
**AFL10-LED-VF-54L4K50** ■ = 0°H ■ = 90°H



**84 ft = 1 fc maximum distance**

**5,000K, 500mA – 88W**

**AFL10-LED-VF-54L5K50** ■ = 0°H ■ = 90°H

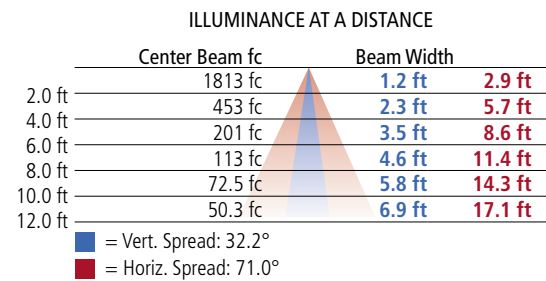
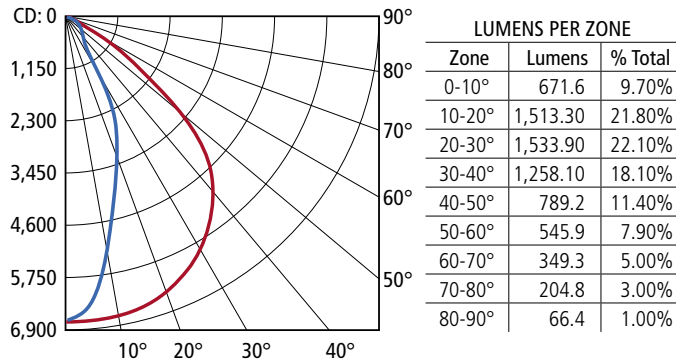


**90 ft = 1 fc maximum distance**

## Narrow Flood Polar Candela Distribution

3,000K, 350mA – 62W

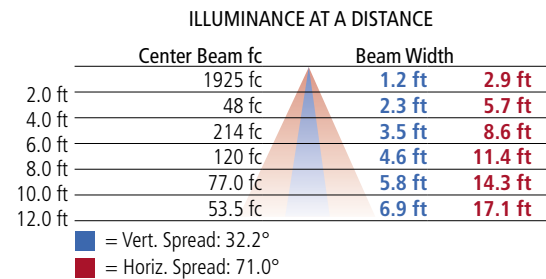
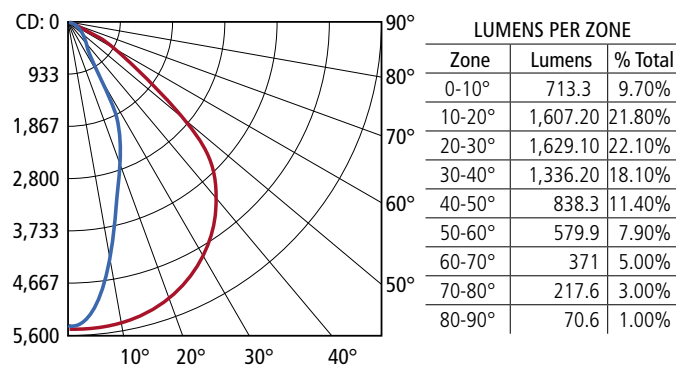
AFL10-LED-NF-54L3K35 ■ = 0°H ■ = 90°H



85 ft = 1 fc maximum distance

4,000K, 350mA – 62W

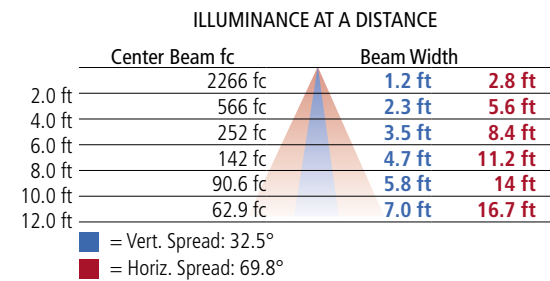
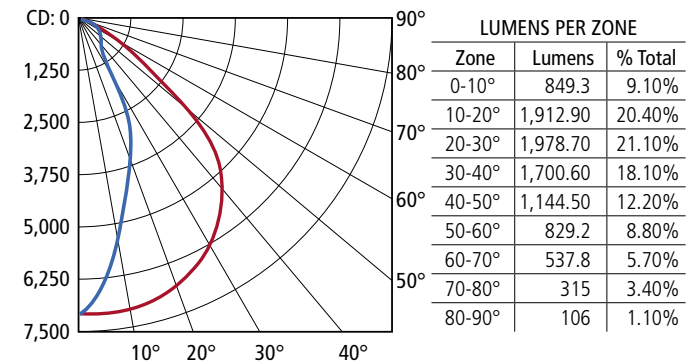
AFL10-LED-NF-54L4K35 ■ = 0°H ■ = 90°H



88 ft = 1 fc maximum distance

3,000K, 500mA – 88W

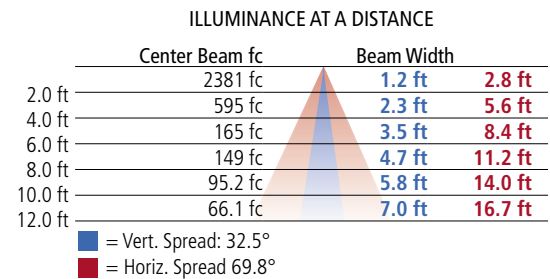
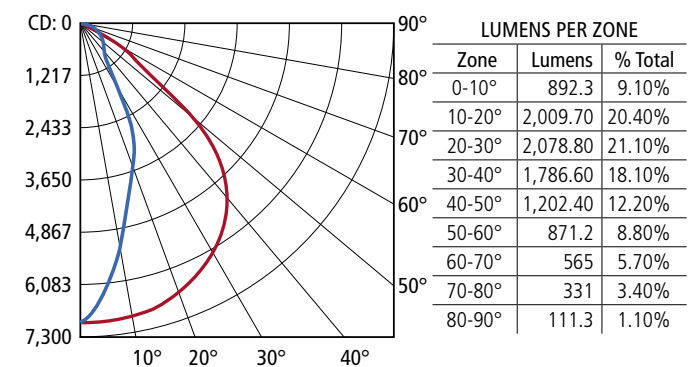
AFL10-LED-NF-54L3K50 ■ = 0°H ■ = 90°H



97 ft = 1 fc maximum distance

4,000K, 500mA – 88W

AFL10-LED-NF-54L4K50 ■ = 0°H ■ = 90°H

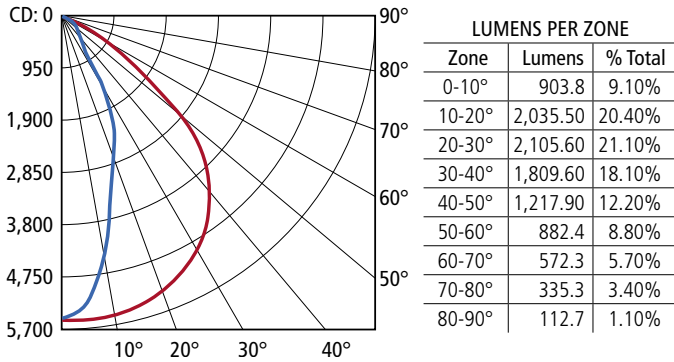


98 ft = 1 fc maximum distance

## Narrow Flood Polar Candela Distribution (cont.)

**5,000K, 350mA – 62W**

**AFL10-LED-NF-54L5K35** ■ = 0°H ■ = 90°H



ILLUMINANCE AT A DISTANCE

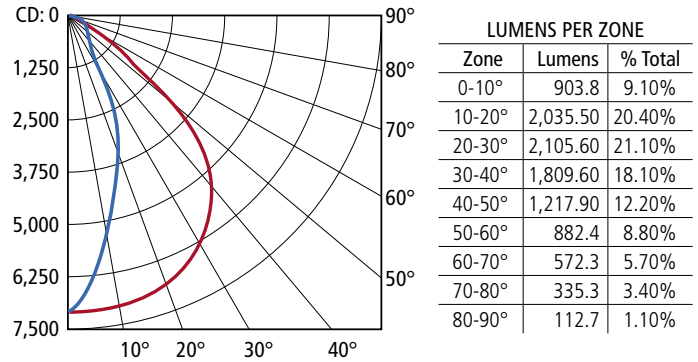
	Center Beam fc	Beam Width	
2.0 ft	2411 fc	1.2 ft	2.8 ft
4.0 ft	603 fc	2.3 ft	5.6 ft
6.0 ft	268 fc	3.5 ft	8.4 ft
8.0 ft	151 fc	4.7 ft	11.2 ft
10.0 ft	96.4 fc	5.8 ft	14.0 ft
12.0 ft	67 fc	7.0 ft	16.7 ft

■ = Vert. Spread: 32.5°  
 ■ = Horiz. Spread: 69.8°

**89 ft = 1 fc maximum distance**

**5,000K, 500mA – 88W**

**AFL10-LED-NF-54L5K50** ■ = 0°H ■ = 90°H



ILLUMINANCE AT A DISTANCE

	Center Beam fc	Beam Width	
2.0 ft	2411 fc	1.2 ft	2.8 ft
4.0 ft	603 fc	2.3 ft	5.6 ft
6.0 ft	268 fc	3.5 ft	8.4 ft
8.0 ft	151 fc	4.7 ft	11.2 ft
10.0 ft	96.4 fc	5.8 ft	14.0 ft
12.0 ft	67 fc	7.0 ft	16.7 ft

■ = Vert. Spread: 28.0°  
 ■ = Horiz. Spread: 72.2°

**98 ft = 1 fc maximum distance**

**SPECIFICATIONS**

**Gasketing:**

Silicone gaskets throughout.

**Fasteners:**

Stainless steel.

**Wiring:**

No. 18AWM rated 105°C.

**Optical System:**

High performance acrylic optic securely attached to internal heat sink for maximum thermal dissipation.

**Driver:**

Universal Voltage from 120 to 277V with a  $\pm 10\%$  tolerance. Driver is Underwriters Laboratories recognized.

**Fuse Options:**

**SF** for 120, 277 and 347 Line Volts

**DF** for 208, 240 and 480 Line Volts.

High temperature fuse holders factory installed inside the fixture arm. Fuse is included.

**Certifications and Listings:**

UL 1598 Standard for Luminaires.

UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products.

IP66 certified.

RoHS compliant.

**CAUTION:**

Fixtures must be grounded in accordance with national, state and/or local electrical codes, Failure to do so may result in serious personal injury.

**WARRANTY:**

For full warranty see: <http://www.hubbellighting.com/resources/warranty>