

JOB _____ TYPE _____

NOTES _____ APPROVALS _____

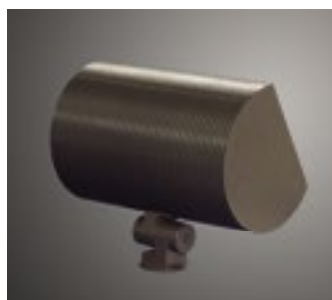
FEATURES

- Three beam patterns Wide, Vertical and Narrow Flood generate high efficiencies and outstanding uniformity of illumination
- Die-cast housing with integral cooling ribs promote efficient transfer of heat.
- A variety of mounting options and standard or optional heavy duty swivel allow flexibility for fine-tuning projects on the job site.
- IP66 sealed optical chamber

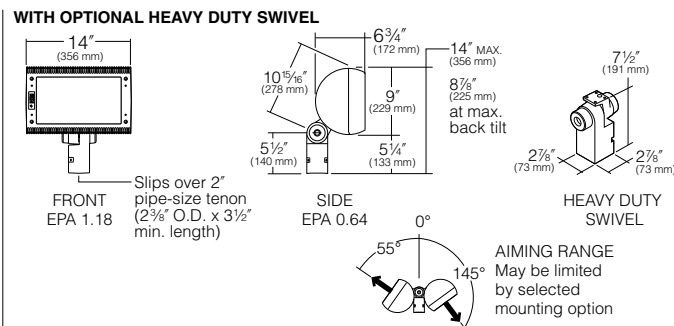
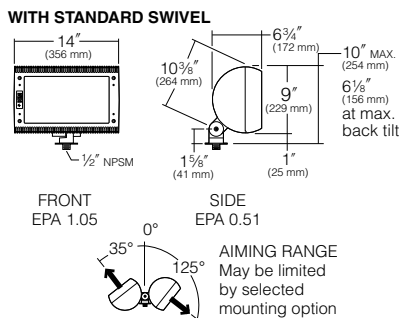
Certifications



SPECIFICATIONS



Max Weight = 23 lb. with Standard Swivel



ORDERING CODE

AFL10								
Fixture	Distribution	# LED's	CCT	Drive Current	Voltage	Color	Mounting	Photocell Options
	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	BL Black DB Dark Bronze LG Light Gray PS Platinum Silver TT Titanium WH White CC Custom Color ¹	HDS Optional Heavy Duty Swivel ²	A30 120V Button Photocell A31 208V Button Photocell A32 240V Button Photocell A33 277V Button Photocell A34 480V Button Photocell A35 347V Button Photocell
Fuse Options	Accessories / Mounting Options			CFA Extrusion Color	CFA Filter Lens Color			
SF 120, 277, 347 Line Volts DF 208, 240, 480 Line Volts	BD Barn Doors FH Fixed Hood FS Full Shield JBR2/3/21/24 Brass In-Grade Architectural J-Box JBR30 Brass In-Grade Staked J-Box SM18 Stanchion Mount J-27N Surface Mount WM Wall or Ceiling Mount JB1 Architectural J-Box	WM1/WEB Wall Mount SPM-X Side Pole Mount TM2 Twin Mount PT Post Top Mount PT2 Twin Post Top Mount SMT Surface Mount Tenon SM2 Stanchion Mount Tenon WM2/WEB Wall Mount Tenon SPT-X Side Pole Mount Tenon M2B Twin Mount Tenon M3E Triple Mount Tenon CFA Color Filter Assembly	BL Black DB Dark Bronze LG Light Gray PS Platinum Silver TT Titanium WH White CC Custom Color	15 Deep Straw 5 Rose Tint 27 Medium Red 69 Brilliant Blue 91 Primary Green				

¹ Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative.
² Fixture ships with Standard Swivel. Leave field blank unless optional Heavy Duty Swivel is required.

For Mounting Options Spec: http://www.kimlighting.com/products/specs/specs_files/kl_af10mounting_spec.pdf
 For AFL10 LED Upgrade Kit Spec: http://www.kimlighting.com/products/specs/specs_files/kl_af10_ledkit_spec.pdf
 For Control Spec: <http://trpsl.com/index.html>

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

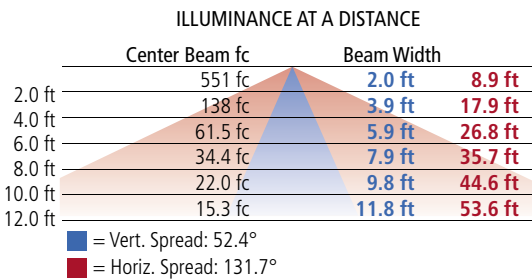
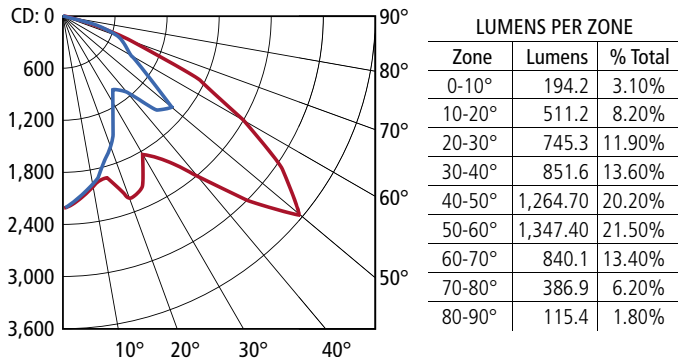
	Spectroradiometric		
	3K	4K	5K
Designation	3000K	4000K	5000K
CRI Minimum	≥70	≥70	≥70
S/P Ratio	1.33	1.66	1.78

Kim Lighting reserves the right to change specifications without notice. Consult factory for Amber, Turtle Friendly, Gulf Coast and Observatory applications.

Wide Flood Polar Candela Distribution

3,000K, 350mA – 62W

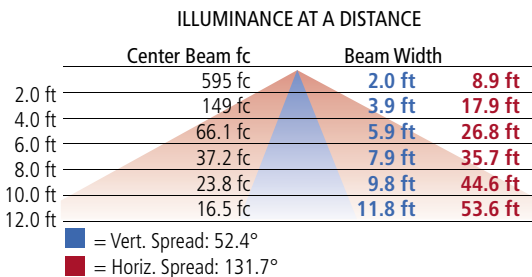
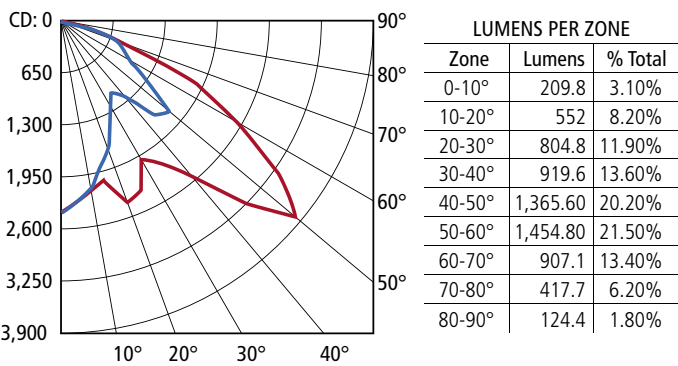
AFL10-LED-WF-54L3K35 ■ = 0°H ■ = 90°H



47 ft = 1 fc maximum distance

4,000K, 350mA – 62W

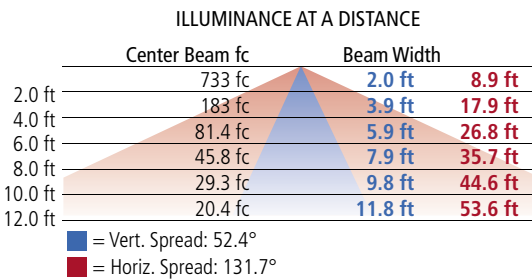
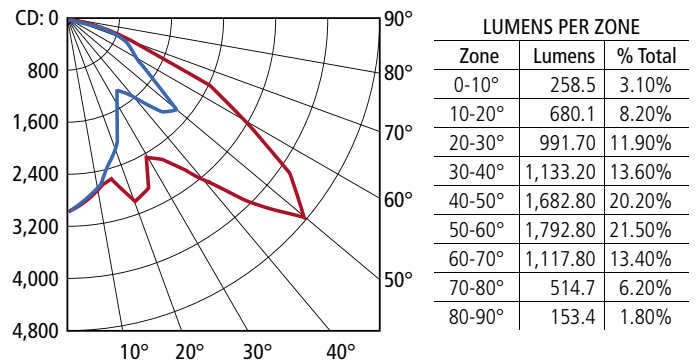
AFL10-LED-WF-54L4K35 ■ = 0°H ■ = 90°H



48 ft = 1 fc maximum distance

3,000K, 500mA – 88W

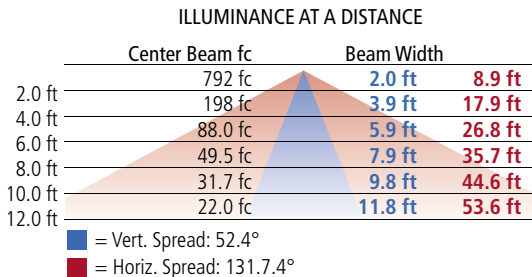
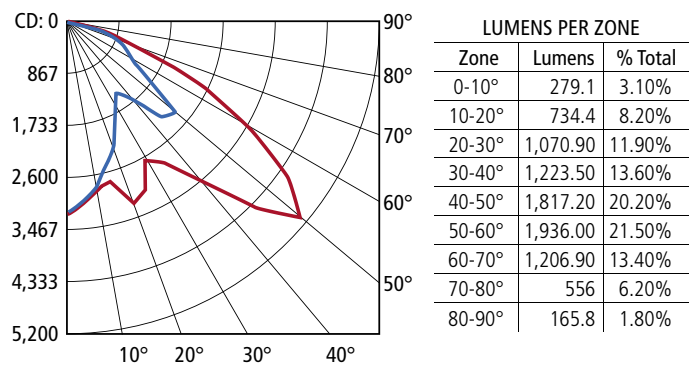
AFL10-LED-WF-54L3K50 ■ = 0°H ■ = 90°H



54 ft = 1 fc maximum distance

4,000K, 500mA – 88W

AFL10-LED-WF-54L4K50 ■ = 0°H ■ = 90°H

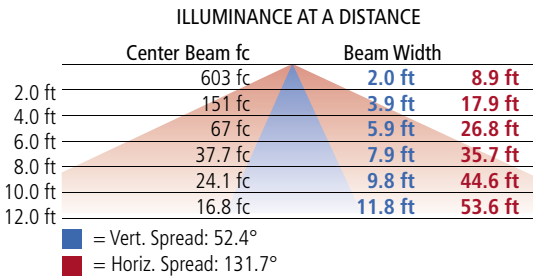
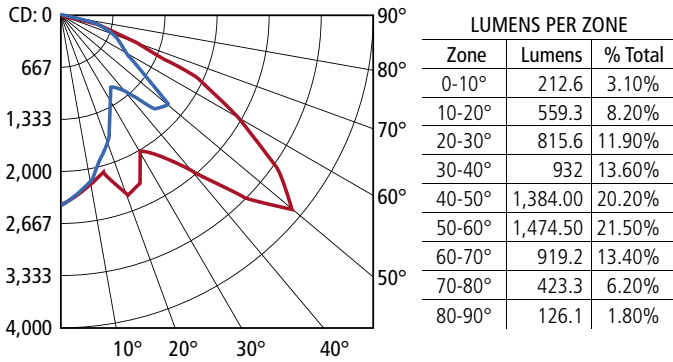


56 ft = 1 fc maximum distance

Wide Flood Polar Candela Distribution (cont.)

5,000K, 350mA – 62W

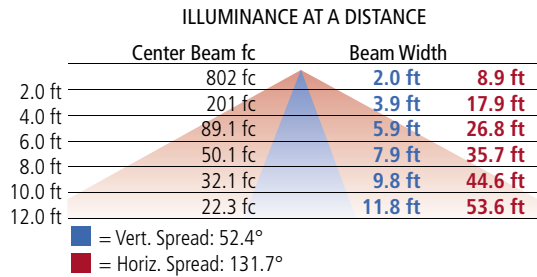
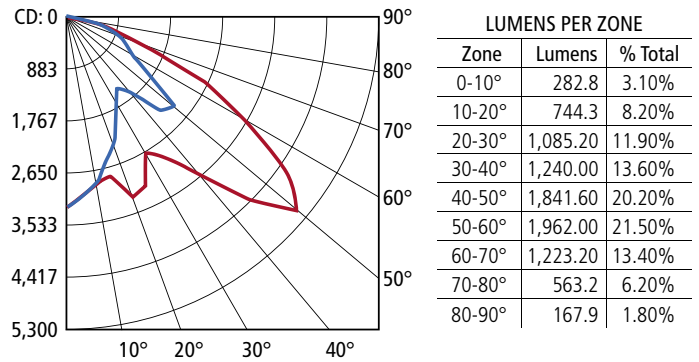
AFL10-LED-WF-54L5K35 ■ = 0°H ■ = 90°H



49 ft = 1 fc maximum distance

5,000K, 500mA – 88W

AFL10-LED-WF-54L5K50 ■ = 0°H ■ = 90°H

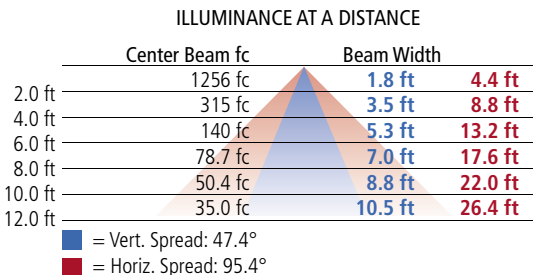
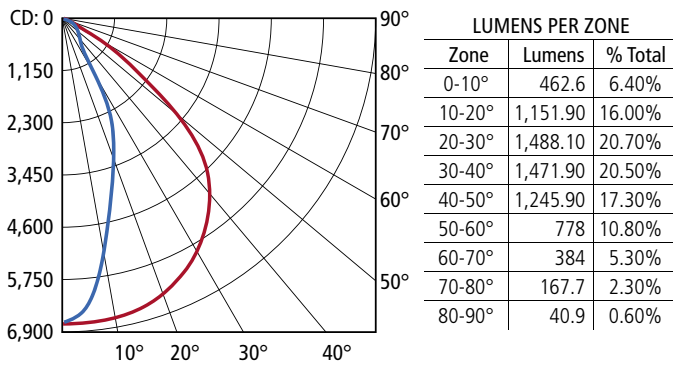


57 ft = 1 fc maximum distance

Vertical Flood Polar Candela Distribution

3,000K, 350mA – 62W

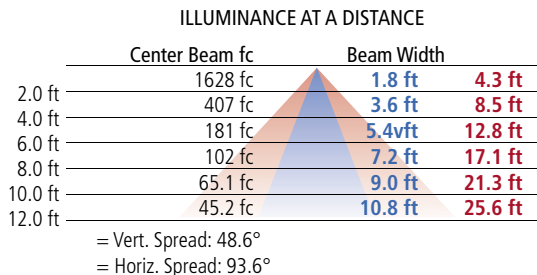
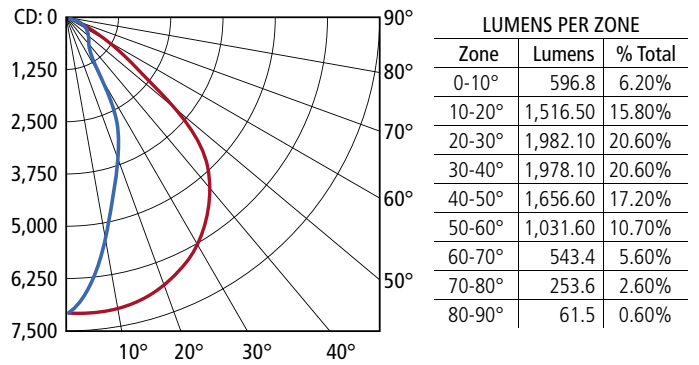
AFL10-LED-VF-54L3K35 ■ = 0°H ■ = 90°H



71 ft = 1 fc maximum distance

3,000K, 500mA – 88W

AFL10-LED-VF-54L3K50 ■ = 0°H ■ = 90°H

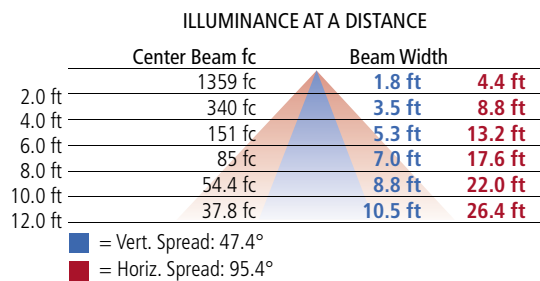
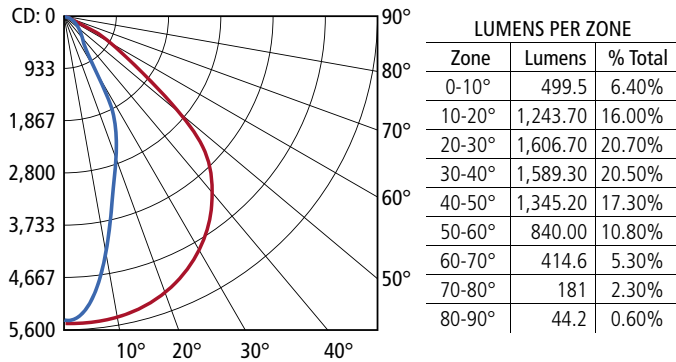


81 ft = 1 fc maximum distance

Vertical Flood Polar Candela Distribution (cont.)

4,000K, 350mA – 62W

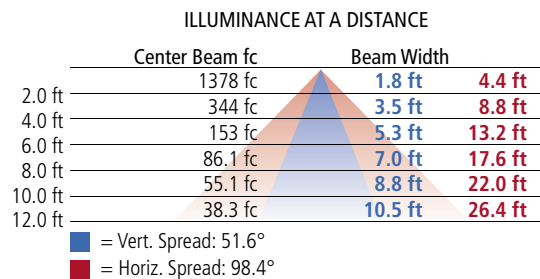
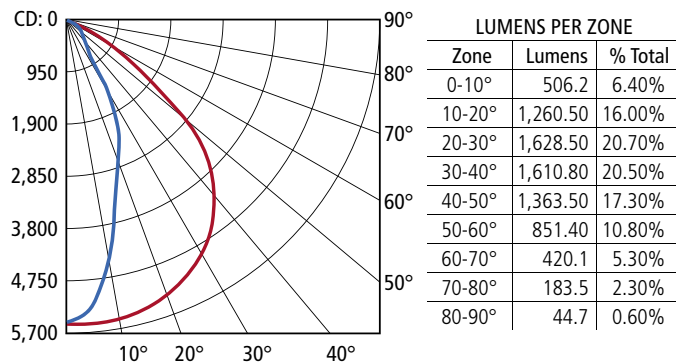
AFL10-LED-VF-54L4K35 ■ = 0°H ■ = 90°H



74 ft = 1 fc maximum distance

5,000K, 350mA – 62W

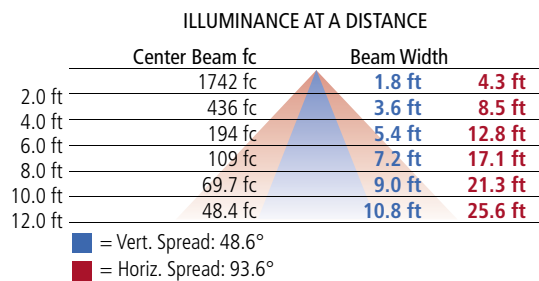
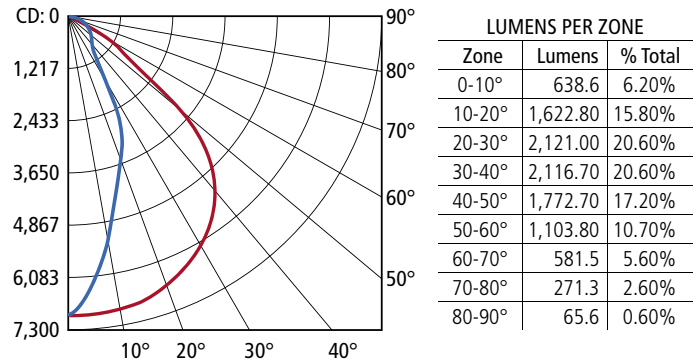
AFL10-LED-VF-54L5K35 ■ = 0°H ■ = 90°H



74 ft = 1 fc maximum distance

4,000K, 500mA – 88W

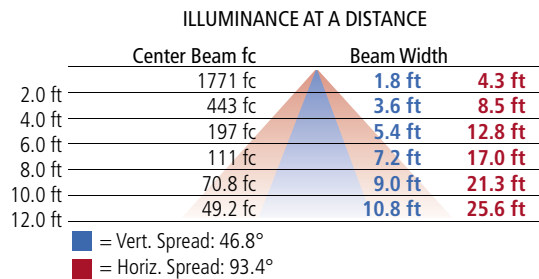
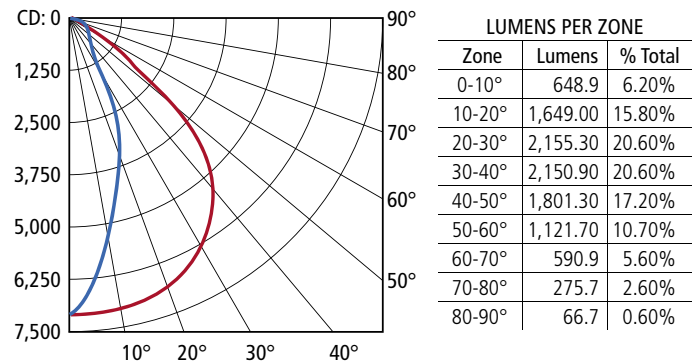
AFL10-LED-VF-54L4K50 ■ = 0°H ■ = 90°H



84 ft = 1 fc maximum distance

5,000K, 500mA – 88W

AFL10-LED-VF-54L5K50 ■ = 0°H ■ = 90°H

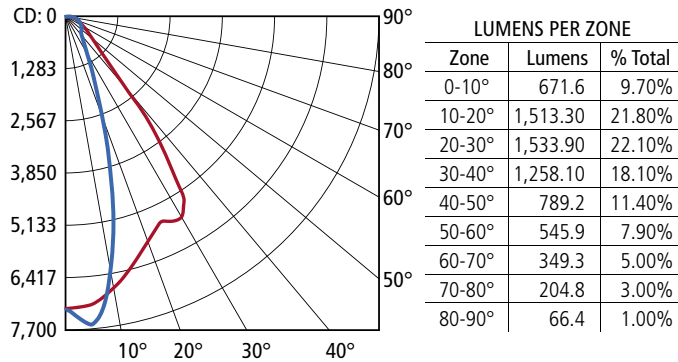


90 ft = 1 fc maximum distance

Narrow Flood Polar Candela Distribution

3,000K, 350mA – 62W

AFL10-LED-NF-54L3K35 ■ = 0°H ■ = 90°H



ILLUMINANCE AT A DISTANCE

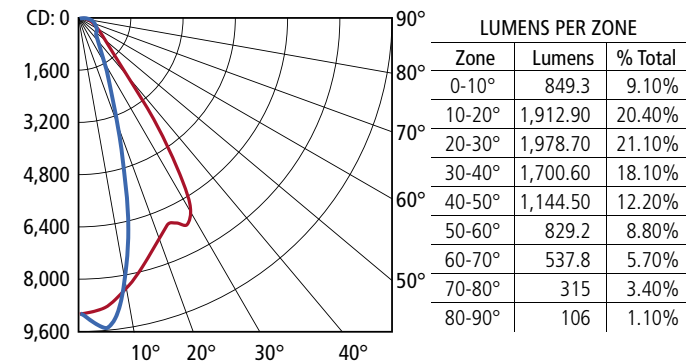
	Center Beam fc	Beam Width	
2.0 ft	1813 fc	1.2 ft	2.9 ft
4.0 ft	453 fc	2.3 ft	5.7 ft
6.0 ft	201 fc	3.5 ft	8.6 ft
8.0 ft	113 fc	4.6 ft	11.4 ft
10.0 ft	72.5 fc	5.8 ft	14.3 ft
12.0 ft	50.3 fc	6.9 ft	17.1 ft

■ = Vert. Spread: 32.2°
■ = Horiz. Spread: 71.0°

85 ft = 1 fc maximum distance

3,000K, 500mA – 88W

AFL10-LED-NF-54L3K50 ■ = 0°H ■ = 90°H



ILLUMINANCE AT A DISTANCE

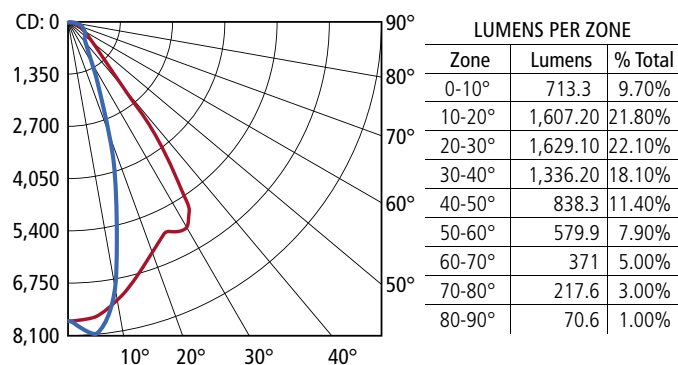
	Center Beam fc	Beam Width	
2.0 ft	2266 fc	1.2 ft	2.8 ft
4.0 ft	566 fc	2.3 ft	5.6 ft
6.0 ft	252 fc	3.5 ft	8.4 ft
8.0 ft	142 fc	4.7 ft	11.2 ft
10.0 ft	90.6 fc	5.8 ft	14 ft
12.0 ft	62.9 fc	7.0 ft	16.7 ft

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

97 ft = 1 fc maximum distance

4,000K, 350mA – 62W

AFL10-LED-NF-54L4K35 ■ = 0°H ■ = 90°H



ILLUMINANCE AT A DISTANCE

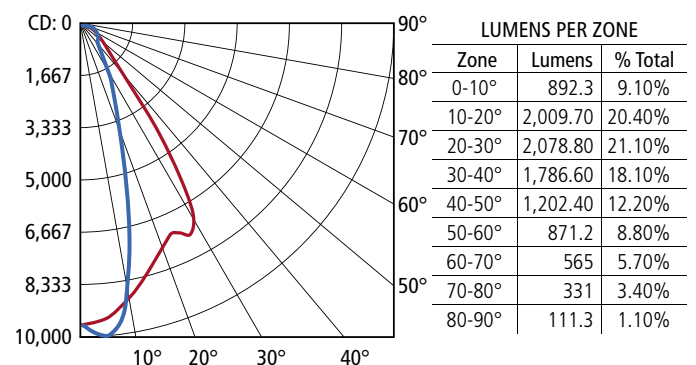
	Center Beam fc	Beam Width	
2.0 ft	1925 fc	1.2 ft	2.9 ft
4.0 ft	48 fc	2.3 ft	5.7 ft
6.0 ft	214 fc	3.5 ft	8.6 ft
8.0 ft	120 fc	4.6 ft	11.4 ft
10.0 ft	77.0 fc	5.8 ft	14.3 ft
12.0 ft	53.5 fc	6.9 ft	17.1 ft

■ = Vert. Spread: 32.2°
■ = Horiz. Spread: 71.0°

88 ft = 1 fc maximum distance

4,000K, 500mA – 88W

AFL10-LED-NF-54L4K50 ■ = 0°H ■ = 90°H



ILLUMINANCE AT A DISTANCE

	Center Beam fc	Beam Width	
2.0 ft	2381 fc	1.2 ft	2.8 ft
4.0 ft	595 fc	2.3 ft	5.6 ft
6.0 ft	165 fc	3.5 ft	8.4 ft
8.0 ft	149 fc	4.7 ft	11.2 ft
10.0 ft	95.2 fc	5.8 ft	14.0 ft
12.0 ft	66.1 fc	7.0 ft	16.7 ft

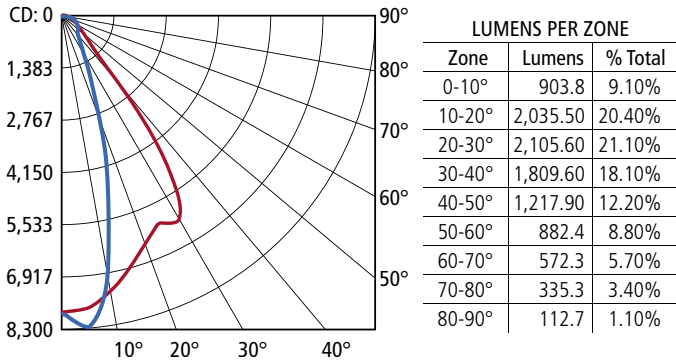
■ = Vert. Spread: 32.5°
■ = Horiz. Spread: 69.8°

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

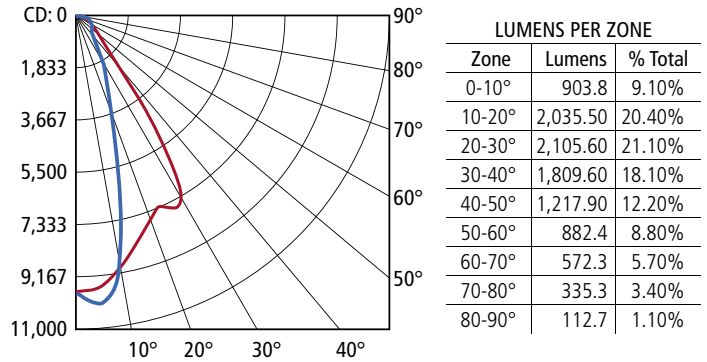
	Center Beam fc	Beam Width
2.0 ft	2411 fc	1.2 ft 2.8 ft
4.0 ft	603 fc	2.3 ft 5.6 ft
6.0 ft	268 fc	3.5 ft 8.4 ft
8.0 ft	151 fc	4.7 ft 11.2 ft
10.0 ft	96.4 fc	5.8 ft 14.0 ft
12.0 ft	67 fc	7.0 ft 16.7 ft

■ = 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

Housing:

- One-piece die-cast, low copper (<0.6% Cu) aluminum in a cylindrical shape with integral cooling fins over the entire length, and 1/8" minimum wall thickness.
- One-piece silicone gasket between housing and door frame concealed when fixture is closed.
- Concealed integral cast slip hinges with stainless steel pins.

Door Frame:

- One-piece die-cast, low copper (<0.6% Cu) aluminum with integral cooling fins, 1/8" minimum wall thickness, mates with housing to create a continuous cylindrical shape.
- Concealed integral cast slip hinges allow removal without tools.
- Stop-arm provided to limit door frame opening.
- 3/16" thick clear tempered glass lens is sealed to the lens frame by a one-piece silicone gasket..
- Door frame secures to housing by four stainless steel recessed captive allen-head screws.
- Four tapped and plugged holes provided for attachment of options

Standard Swivel:

- Die-cast aluminum with integral locking teeth providing 5° adjustment intervals.
- Stainless steel allen-head locking screw and 1/2" NPSM.
- Clear anodized prior to chromate conversion coating for added corrosion resistance. Clear anodized prior to chromate conversion coating for added corrosion resistance.
- Optional heavy duty swivel ordered assembled with fixture. Cast low copper (<.6%) aluminum with locking teeth providing 5° adjustment intervals. 3/8" stainless steel locking bolt. Two 3/8" stainless steel set point screws secure swivel to any 2" pipe-size tenon (2-3/8" O.D. x 3-1/2" min. length.

Gasketing:

- Silicone gaskets throughout.

Fasteners:

- Stainless steel.

Wiring:

- No. 18AWM rated 105°C.

Optical System:

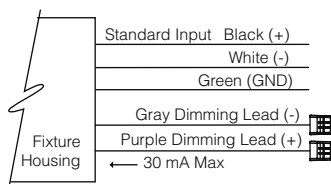
- High performance acrylic optic securely attached to internal heat sink for maximum thermal dissipation.

Driver:

- Universal Voltage from 120 to 277V with a ±10% tolerance. Driver has a 0-10V dimming interface for multi-level illumination options. Driver is Underwriters Laboratories recognized.

■ **Dimming:**

- Dimming range from 10% to 100% through the use of the standard 0-10V interface on the programmable driver.
- Modular wiring harness in the service area provides user access to the dimming circuitry.
- Optional factory programmed dimming profile
- IP710 dimmer recommended.



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.

Button Photocell

A30 for 120V, **A31** for 208V, **A32** for 240V, **A33** for 277V, **A35** for 347V, **A34** for 480V,

- Factory installed photocell inside housing with a fully gasketed sensor on the side wall. For multiple fixture mountings, one fixture is supplied with a photocell to operate the others.

Finish:

- Fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat.
- Standard colors include (BL) Black, (DB) Dark Bronze, (PS) Platinum Silver, (LG) Light Gray, (TT) Titanium, (WH) White, and (CC) Custom Color (Include RAL#).

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.
- The following products are DesignLights Consortium Premium products:

AFL10/WF/543K35, AFL10/WF/544K35, AFL10/WF/545K35, AFL10/WF/544K50, AFL10/WF/545K50, AFL10/VF/543K35, AFL10/VF/544K35, AFL10/VF/545K35, AFL10/VF/543K50, AFL10/VF/544K50, AFL10/VF/545K50, AFL10/NF/543K35, AFL10/NF/544K35, AFL10/NF/545K35, AFL10/NF/544K50, AFL10/NF/545K50.

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>

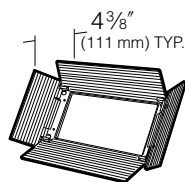
ACCESSORY OPTIONS

Barn Doors

BD/BL, BD/DB, BD/LG, BD/PS, BD/TT, BD/WH

Extruded aluminum doors with anti-reflection baffles. Each door is hinged to a cast, low copper (<0.6% Cu) aluminum frame, and locks by set screws. Doors are individually removable. Barn Door assembly mounts to predrilled door frame holes.

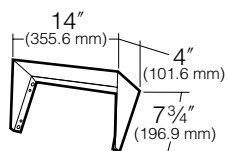
CAUTION: Not recommended for ground mounted fixtures in vandal prone areas.



Fixed Hood

FH/BL, FH/DB, FH/LG, FH/PS, FH/TT, FH/WH

Formed 1/16" thick aluminum. Mounts to predrilled door frame holes. Can be mounted along the top or bottom of the fixture to shield the lamp and lens from view.

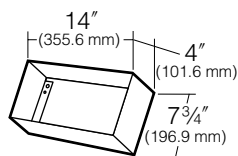


Full Shield

FS/BL, FS/DB, FS/LG, FS/PS, FS/TT, FS/WH

Formed 1/16" thick aluminum. Mounts to predrilled door frame holes.

CAUTION: Do not use full shield in locations where leaves and trash can collect inside shield.



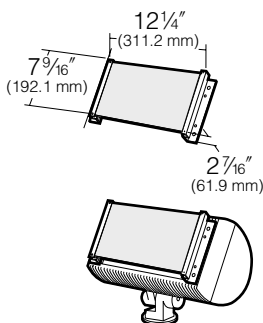
Color Filter Assembly

CFA1-XX/BL, CFA1-XX/DB, CFA1-XX/LG, CFA1-XX/PS, CFA1-XX/TT, CFA1-XX/WH

Heavy wall aluminum extrusion with anti-reflection baffles and vertical channels that hold the color filter 2" away from the fixture lens. Quick change-out of the color filter is possible by the removal of two channel screws. Support mounts to predrilled holes in fixture door frame. May be used with **BD** Barn Door, **FH** Fixed Hood, or **FS** Full Shield option.






Color Filter Assembly Cat. No. includes color filter and channel finish. Specify filter, substituting **XX** for color filter number (See below) and add finish.

Ex.: CFA1-15/BL



Color Filter Selection¹

Color samples shown for reference only and will not represent actual illumination color. Color filter number corresponds with Roscolux color filter numbers.

-  Deep Straw – **15**
-  Rose Tint – **05**
-  Medium Red – **27**
-  Brilliant Blue – **69**
-  Primary Green – **91**

Kim Lighting reserves the right to change specifications without notice.