

JOB _____ TYPE _____

NOTES _____ APPROVALS _____

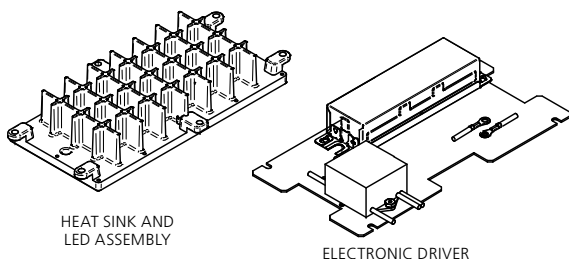
FEATURES

- Second generation LED 2.0
- Three beam patterns, Wide Flood, Vertical Flood, and Narrow Flood distributions generate high efficiencies and outstanding uniformity of illumination
- Universal Voltage
- IP66 sealed optical chamber

Certifications



SPECIFICATIONS



CFL-LED-KIT						
Fixture	Distribution	# LED's	CCT	Drive Current	Voltage	Fuse Options
	WF Wide Flood VF Vertical Flood NF Narrow Flood	21 21 LED's	3K 3000K 4K 4000K 5K 5000K	35 350mA 50 500mA	UV 120-277V	SF 120, 277V Line Volts DF 208, 240 Line Volts

NOTE: HID to LED Upgrade Kit is designed to fit the late 2011 housing redesign. It will not work with older housings.

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
LEDs	350mA	26	Wide Flood	110.9	110	96	94.6	1036	2067	80	1072	2138	82	1088	2169	83
			Vertical Flood	125.7	97.9	97.6	44.6	2147	2807	109	2301	2978	116	2363	3253	127
			Narrow Flood	53.8	38.7	35.3	18.1	9718	2535	99	10781	2723	105	12044	2973	116
	500mA	35	Wide Flood	110.9	110	96	94.6	1470	2932	84	1540	3070	88	1571	3134	90
			Vertical Flood	123.6	95.3	95.3	38.4	2904	3781	107	3085	4010	114	3336	4379	125
			Narrow Flood	53.6	37.2	35.6	16.8	13218	3410	97	14804	3692	104	16464	4032	115

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	277	347	480				Min	Max	Min	Max
350 mA	26	120	50/60	0.2	0.1	0.1	0.1	>0.9	20	10% to 100%	0mA	1mA	.0V	10V
500 mA	35			0.3	0.1	0.1	0.1							

TM-21 LIFETIME CALCULATION

Drive Current	Ambient Environment °C	Projected Lumen Maintenance					Reported L70
		15	25	50	TM-21 60	100	
500mA	25°	96%	95%	93%	93%	90%	>60Khrs

LED COLOR

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

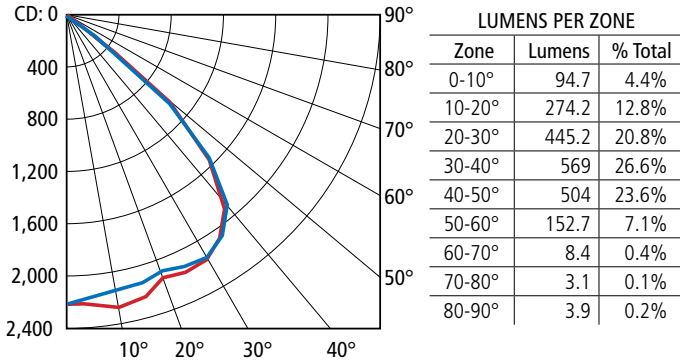
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Wide Flood Polar Candela Distribution

4,000K, 350mA – 26W

CFL-WF- 214K35

■ = 0°H ■ = 90°H



ILLUMINANCE AT A DISTANCE

Center Beam fc	Beam Width	
2.0 ft	254 fc	4.4 ft 4.5 ft
4.0 ft	63.6 fc	8.7 ft 8.9 ft
6.0 ft	28.3 fc	13.1 ft 13.4 ft
8.0 ft	15.9 fc	17.4 ft 17.8 ft
10.0 ft	10.2 fc	21.8 ft 22.3 ft
12.0 ft	7.07 fc	26.2 ft 26.7 ft

■ = Vert. Spread: 95.0°
 ■ = Horiz. Spread: 96.1°

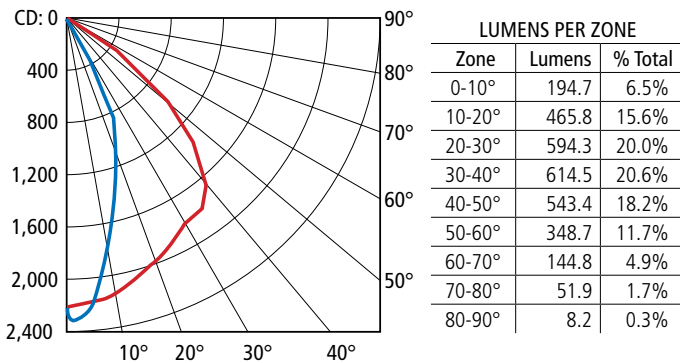
32 ft = 1 fc maximum distance

Vertical Flood Polar Candela Distribution

4,000K, 350mA – 26W

CFL-VF-214K35

■ = 0°H ■ = 90°H



ILLUMINANCE AT A DISTANCE

Center Beam fc	Beam Width	
2.0 ft	555 fc	1.7 ft 4.3 ft
4.0 ft	139 fc	3.3 ft 8.7 ft
6.0 ft	61.6 fc	5.0 ft 13.0 ft
8.0 ft	34.7 fc	6.7 ft 17.3 ft
10.0 ft	22.2 fc	8.4 ft 21.6 ft
12.0 ft	15.4 fc	10.0 ft 26.0 ft

■ = Vert. Spread: 45.3°
 ■ = Horiz. Spread: 94.5°

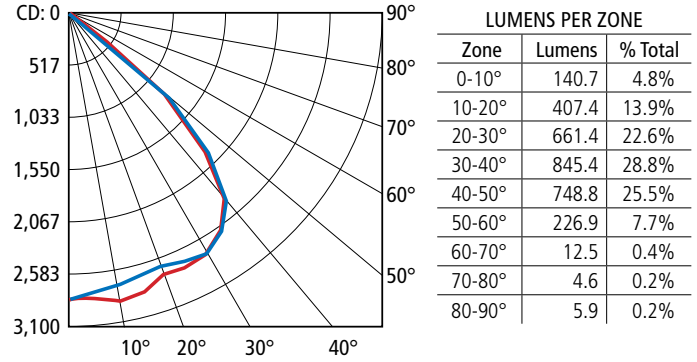
55 ft = 1 fc maximum distance

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4,000K, 500mA – 35W

CFL-WF-214K50

■ = 0°H ■ = 90°H



ILLUMINANCE AT A DISTANCE

Center Beam fc	Beam Width	
2.0 ft	365 fc	4.4 ft 4.5 ft
4.0 ft	91.4 fc	8.7 ft 8.9 ft
6.0 ft	40.6 fc	13.1 ft 13.4 ft
8.0 ft	22.8 fc	17.4 ft 17.8 ft
10.0 ft	14.6 fc	21.8 ft 22.3 ft
12.0 ft	10.2 fc	26.2 ft 26.7 ft

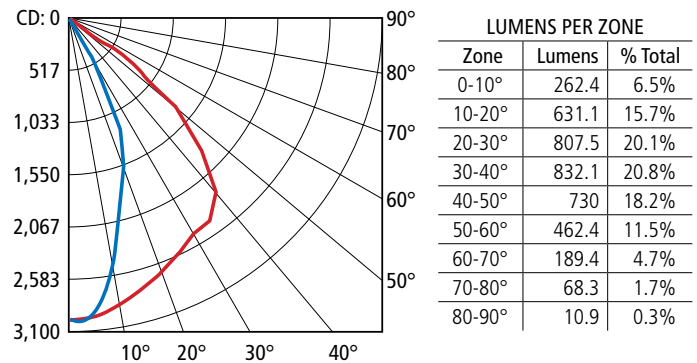
■ = Vert. Spread: 95.0°
 ■ = Horiz. Spread: 96.1°

38 ft = 1 fc maximum distance

4,000K, 500mA – 35W

CFL-VF-214K50

■ = 0°H ■ = 90°H



ILLUMINANCE AT A DISTANCE

Center Beam fc	Beam Width	
2.0 ft	747 fc	1.7 ft 4.3 ft
4.0 ft	187 fc	3.5 ft 8.7 ft
6.0 ft	82.9 fc	5.2 ft 13.0 ft
8.0 ft	46.7 fc	7.0 ft 17.4 ft
10.0 ft	29.9 fc	8.7 ft 21.7 ft
12.0 ft	20.7 fc	10.5 ft 26.1 ft

■ = Vert. Spread: 47.1°
 ■ = Horiz. Spread: 94.7°

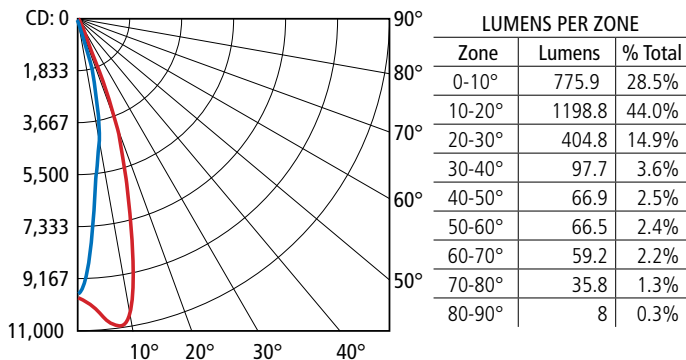
47 ft = 1 fc maximum distance

Narrow Flood Polar Candela Distribution

4,000K, 350mA – 26W

CFL-NF-214K35

■ = 0°H ■ = 90°H



ILLUMINANCE AT A DISTANCE

	Center Beam fc	Beam Width	
2.0 ft	2,431 fc	0.6 ft	1.3 ft
4.0 ft	608 fc	1.2 ft	2.6 ft
6.0 ft	270 fc	1.9 ft	3.9 ft
8.0 ft	152 fc	2.5 ft	5.2 ft
10.0 ft	97.2 fc	3.1 ft	6.5 ft
12.0 ft	67.5 fc	3.7 ft	7.8 ft

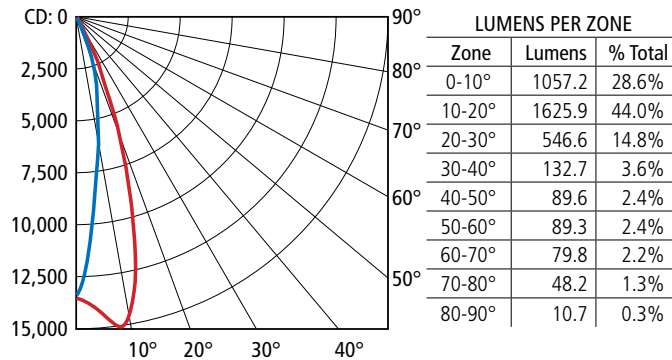
■ = Vert. Spread: 17.7°
 ■ = Horiz. Spread: 35.8°

99 ft = 1 fc maximum distance

4,000K, 500mA – 35W

CFL-NF-214K50

■ = 0°H ■ = 90°H



ILLUMINANCE AT A DISTANCE

	Center Beam fc	Beam Width	
2.0 ft	3,355 fc	0.6 ft	1.3 ft
4.0 ft	839 fc	1.2 ft	2.6 ft
6.0 ft	373 fc	1.9 ft	3.9 ft
8.0 ft	210 fc	2.5 ft	5.2 ft
10.0 ft	134 fc	3.1 ft	6.5 ft
12.0 ft	93.2 fc	3.7 ft	7.8 ft

■ = Vert. Spread: 17.4°
 ■ = Horiz. Spread 35.8°

117 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, 120 through 277V with a $\pm 10\%$ tolerance. Driver has a 0-10V dimming interface for multi-level illumination options. Driver is Underwriters Laboratories recognized.

Fuse Options

SF for 120, 277 Line volts

DF for 208, 240 Line volts

High temperature fuse holders factory installed inside the fixture.

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.

LED retrofit kit only suitable for replacement in CFL flood housings containing LED components or electronic HID components (sold after 2011)

WARRANTY:

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

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