

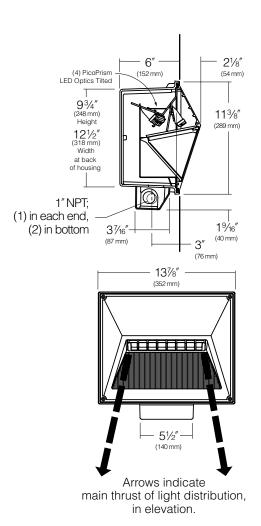
## **LLF60 LED** Low Level Floodlight

Concealed Lens with Guard, Symmetric Downward

revised 5/04/18 • kl\_llf60led\_spec.pdf

Type: Job: Catalog	number:			Approvals:
LLF60P35	1	1	I	
Fixture	Electrical Module	Finish	Options	
	See page	2	See page 3	
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## **Specifications**



HUBBELL Lighting, Inc.

Housing and Junction Box: Die-cast, low-copper (<0.6% Cu) aluminum to prevent corrosion when cast in concrete. Junction box shall have an internally removable cover, a volume of 25 cu in., and four 1" NPT conduit taps. Two taps in the bottom and one in each end, all with removable plugs. Housing and junction box further protected for permanence by a clear anodize coating. Cover furnished to keep the housing clean until the electrical components are installed.

Pour Items: Aluminum housing and junction box only, less any electrical or optical components.

Finishing Items: Electrical module, reflector and door frame. Each set of finishing items shall be in one container, clearly marked for the fixture catalog number.

Door Frame: Die-cast, low-copper (<0.6% Cu) aluminum with a fine pebbled texture on the outer surface. Trapezoidal outer contour tilts the lens 18° from vertical. Door frame secured to housing by four captive stainless steel countersunk socket head screws. (LLF60) Tempered borosilicate glass, 3/16" min. thickness, with a smooth outer surface flush with the door frame, and vertical inside flutes. Lens is fully sealed around the perimeter with a silicone gasket and is retained by zinc plated steel clips. Tempered diffused opal white glass, 1/8" min. thickness. Cast aluminum recessed baffle that conceals the lens 18° from vertical and has a cast aluminum lens guard.

Gasketing: One-piece molded silicone between the door frame and housing. A neoprene gasket provided between the junction box and housing. The entire fixture is weather tight.

Electronic Module: All electrical components are UL and CSA recognized, mounted on a single plate and factory prewired with quick-disconnect plugs. Module includes a driver, thermal control device and surge protector. Electrical and optical modules attaches to housing with stainless steel hardware, accessible by opening the lens frame. Driver is rated for -40°F starting and has a 0-10V dimming interface with a dimming range of 10-100%. Approved dimmers include Lutron Diva AVTV, Lutron Nova NFTV and NTFTV. Note: Not compatible with current sourcing dimmers. Controls compatible via Gray and Purple dimming lead.

Optical Module: Each precision, replaceable PicoPrism is positioned to achieve directional control toward desired task. The entire optical system fastens to the housing as a one-piece module.

Finish: Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powder coat finish. Standard colors include (BL) Black, (DB) Dark Bronze, (WH) White, (PS) Platinum Silver, (LG) Light Gray, and (CC) Custom Color (Include RAL#).

Listed To: UL 1598 Standard for Luminaires - UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products and CSA C22.2#250.0 Luminaires.

Warranty: Kim Lighting warrants Low Level Floodlight LED products sold by Kim Lighting to be free from defects in material and workmanship for (i) a period of five (5) years for metal parts, (ii) a period of five (5 years for exterior housing paint finish(s), (iii) a period of five (5) years for LED Light Engines and, (iv) a period of five (5) years for LED power components (driver, surge protector and LifeShield™ device), from the date of sale of such goods to the buyer as specified in Kim Lighting shipment documents for each product.

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.

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.



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#### **Standard Features**

#### **Fixture**

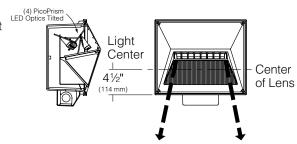
Catalog number includes housing and junction box, optical system, and door frame with standard tempered glass lens. Cat. No.: **LLF60P35\*** 

Direct Lens, Symmetric Downward Light Throw, Wall Mounted.

Arrows indicate main thrust of light distribution, in elevation.

P35 = 350 mA

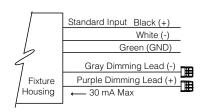




Electrical Module	Fixture  12L2KUV¹ 12L3KUV¹ 12L4KUV¹ 12L5KUV¹	13W 12 LE 13W 12 LE	Ds, 3000K o Ds, 4200K o	- Amber color ter color temperature color temperature color temperature		
<b>Finish</b> TGIC powder coat	¹UV = Universal \ Color: Black Cat. No.: □ BL  ²Custom colors s Consult represer	Dark Bronze □ <b>DB</b> subject to addi	Light Gray □ <b>LG</b> tional charg	Platinum Silver □ <b>PS</b> es, minimum qu	White	Custom Color <sup>2</sup>

#### 0-10V Dimming Interface

Driver has a 0-10V dimming interface with a dimming range of 10-100%. Is compatible with most control systems. Approved dimmers include Lutron Diva AVTV, Lutron Nova NFTV and NTFTV. Note: Not compatible with current sourcing dimmers. Controls compatible via Gray and Purple dimming lead.





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## **Optional Features**

Fusing (internal only): Cat. No. (see chart at right)  No Option	High temperatu Fuse is included Line Volts: Cat. No.:	rs factory installe 208V DF	ed inside the fixton 240V	ıre housing. 277V □ <b>SF</b>	
Emergency Battery Back-Up: Cat. No.   No Option	EM – Internal ba absolute lumens	vides 90 minutes o	of supplemental li	ght at 65% of	



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### **Lumen Data**

Spectroradiometric				
	3000K Average	4200K Average	5100K Average	
Correlated Color Temp. CCT (K)	2800K-3175K	3800K-4600K	4600K-5600K	
Color Rendering Index (CRI)	≥75	≥70	≥65	
Power Factor	>0.90	>0.90	>0.90	

Projected Lumen Maintenance			
mA	50,000 hrs	100,000 hrs	
350	0.97	0.95	

Electrical Driver Current			
Maximum Watts	Volts	Amps	
13W	120	0.11	
	208	0.06	
	240	0.05	
	277	0.05	

Absolute Lumens		
ССТ	LLF60	
3000K	511	
4200K	653	
5100K	710	

Lumens Per Watt		
ССТ	LLF60	
3000K	39.3	
4200K	50.2	
5100K	54.6	