

Kick™ – KB6 Bollard

TYPE

FEATURES

- Sensor and wireless operation
- Field rotatable optics and housing
- Customizable side panels
- 120-277, 347 and 480VAC input
- IDA Dark Sky Approved with clear lenses and 3000K
- True IES distributions
- 3000K, 4000K, 5000K CCT
- Uniformly diffused lens
- 20kV/10kA surge protection
- Integral thermal protection
- IP66

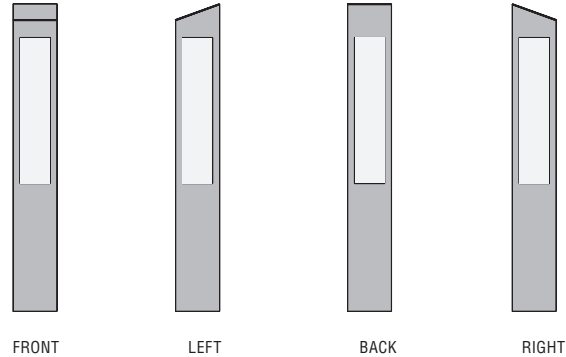


3000K and warmer CCTs only

DIMENSIONS

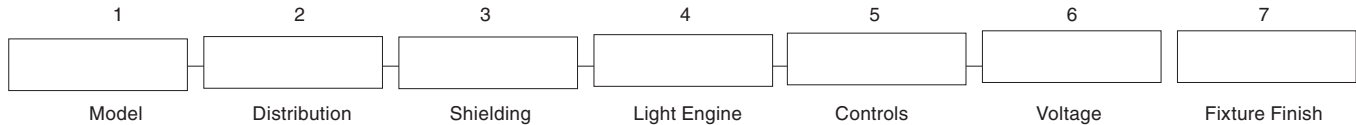
MODEL	KB6
OVERALL HEIGHT	42" / 1067mm
OVERALL LENGTH	6" / 152mm
OVERALL WIDTH	6" / 152mm
WINDOW HEIGHT	19.9" / 51cm
WINDOW WIDTH	4" / 10cm
WEIGHT	30 lbs./13.6kg

* Housing and optical distribution are independently field rotate-able in 90° increments. Default factory orientations shown above.



DISTRIBUTION OUTPUT*	Street Side	House Side		
SHIELDING SIDE	A	B	C	D

ORDERING INFORMATION



1. MODEL

KB6 6" Square x 42 OAH bollard

2. DISTRIBUTION

Y2 IES Type II, clear lens
 Y3 IES Type III, clear lens
 Y4 IES Type IV, clear lens
 Y5 IES Type V, clear lens
 YD Symmetric distribution, diffused lens

3. SHIELDING

Optional, may choose from 1 to 3 sides closed from options A, B, C, D or you may choose HSS option.

A Short side closed
 B Side 90° counterclockwise from short side closed
 C Side 180° counterclockwise from short side closed
 D Side 270° counterclockwise from short side closed
 HSS House side shield²

4. LIGHT ENGINE

2050 5000K CCT, 29 watts
 2040 4000K CCT, 29 watts
 2030 3000K CCT, 29 watts
 1050 5000K CCT, 14 watts
 1040 4000K CCT, 14 watts
 1030 3000K CCT, 14 watts
 560nm monochromatic amber and or custom lumen package available by request.¹

5. CONTROL

May choose one
 SC-MW Motion Sensor
 WIR wiScape Connectivity
 BPC Button Type Photocell

6. VOLTAGE

120-277VAC input or may choose one.
 347 347VAC input
 480 480VAC input

7. FIXTURE FINISH

Standard Color
 AGN Antique Green
 BL Black
 BLT Matte Black
 CRT Corten
 DB Dark Bronze
 DGN Dark Green
 GT Graphite
 LG Light Grey
 MAL Matte Aluminum
 MDB Bronze Metallic
 MG Medium Grey
 TT Titanium
 WH Arctic White
 WDB Weathered Bronze
 VBU Verde Blue

Premium Color
 SHK Shamrock
 SPP Salt and Pepper
 SFM Seafoam
 WCP Weathered Copper
 RAL RAL 4 digit Color
 CUSTOM Custom Color

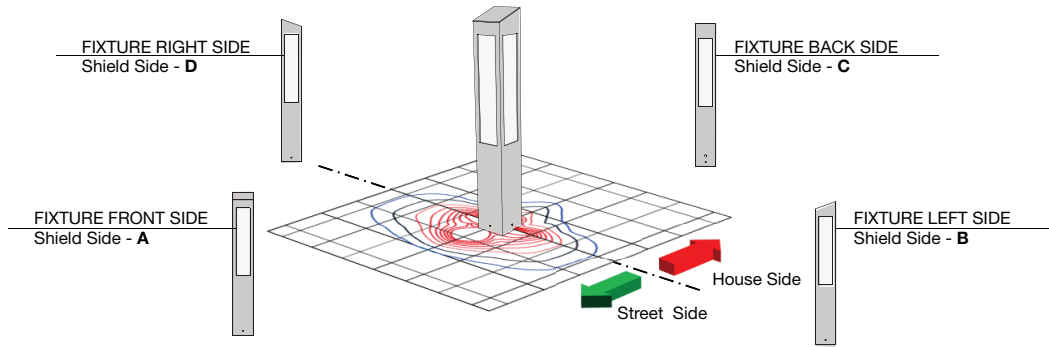
¹ Contact factory

² House side shield assembles to optical lens and is independent of outer housing.



ARCHITECTURAL AREA LIGHTING
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JOB _____
 TYPE _____
 NOTES _____



LUMINAIRE PERFORMANCE

Configuration				Ordering Code																			
Watts	Output	Closed Sides	IES Type	Distribution	Optional Shielding		Bright White (5000K)			Neutral White (4000K)			Warm White (3000K)										
					Shielding	Equivalent*	Delivered Lumens	Efficacy (Lm/W)	BUG Rating		Delivered Lumens	Efficacy (Lm/W)	BUG Rating		Delivered Lumens	Efficacy (Lm/W)	BUG Rating						
							2050			2040			2030										
30	Asymmetric	(none)	Type II	Y2	(none)	-	2451	82	1	0	2	2302	77	1	0	1	2289	76	1	0	1		
			TYPE III	Y3	(none)	-	2305	77	1	0	1	2165	72	1	0	1	2153	72	1	0	1		
			TYPE IV	Y4	(none)	-	2257	75	1	0	2	2120	71	1	0	2	2108	70	1	0	2		
		1 Side	Type II	Y2	C	HSS	2271	76	1	0	2	2221	74	1	0	1	2199	73	1	0	2		
			TYPE III	Y3	C	HSS	2107	70	1	0	1	2066	69	1	0	1	2041	68	1	0	1		
			TYPE IV	Y4	C	HSS	2107	70	1	0	2	2061	69	1	0	2	2041	68	1	0	2		
		2 Sides (adjacent)	-	Y5	C	A / B / D	1699	57	1	0	1	1662	55	1	0	1	1645	55	1	0	1		
			-	YD	C	A / B / D	679	23	0	3	1	685	23	0	3	1	634	21	0	3	1		
			-	Y5	BC	AB / CD / AD	1175	39	1	0	1	1149	38	1	0	1	1138	38	1	0	1		
	3 Sides (adjacent)	-	YD	BC	AB / CD / AD	457	15	0	3	1	461	15	0	3	1	427	14	0	3	1			
		-	Y5	BCD	ABC / ABD / ACD	581	19	0	0	1	568	19	0	0	1	581	19	0	0	1			
		-	YD	BCD	ABC / ABD / ACD	111	4	0	0	1	112	4	0	0	1	104	3	0	0	1			
	Symmetric	(none)	TYPE V	-	Y5	(none)	-	2163	72	2	0	1	2188	73	2	0	1	1978	66	2	0	1	
				-	YD	(none)	-	927	31	0	3	1	935	31	0	3	1	866	29	0	3	4	
				-	Y5	AC	BD	1110	37	1	0	1	1085	36	1	0	1	1075	36	1	0	1	
		2 Sides (opposing)	-	YD	AC	BD	456	15.2	0	3	1	460	15	0	3	1	426	14	0	3	1		
															1050			1040			1030		
			Asymmetric	(none)	Type II	Y2	(none)	-	1323	95	1	0	1	1294	92	1	0	1	1281	92	1	0	1
TYPE III	Y3	(none)			-	1233	88	1	0	1	1204	86	1	0	1	1192	85	1	0	1			
TYPE IV	Y4	(none)			-	1222	87	0	0	1	1195	85	0	0	1	1183	85	0	0	1			
1 Side	Type II	Y2		C	HSS	1226	88	1	0	1	1199	86	1	0	1	1187	85	1	0	1			
	TYPE III	Y3		C	HSS	1128	81	0	0	1	1103	79	0	0	1	1092	78	0	0	1			
	TYPE IV	Y4		C	HSS	1141	82	0	0	1	1116	80	0	0	1	1105	79	0	0	1			
2 Sides (adjacent)	-	Y5		C	A / B / D	926	66	1	0	1	906	65	1	0	1	897	64	1	0	1			
	-	YD		C	A / B / D	373	27	0	3	1	373	27	0	3	1	350	25	0	3	1			
	-	Y5		BC	AB / CD / AD	640	46	0	0	1	626	45	0	0	1	620	44	0	0	1			
3 Sides (adjacent)	-	YD	BC	AB / CD / AD	251	18	0	3	1	251	18	0	3	1	236	17	0	3	1				
	-	Y5	BCD	ABC / ABD / ACD	317	23	0	0	1	310	22	0	0	1	307	22	0	0	1				
	-	YD	BCD	ABC / ABD / ACD	61	4	0	0	1	61	4	0	0	1	57	4	0	0	1				
Symmetric	(none)	TYPE V	-	Y5	(none)	-	1179	84	1	0	1	1189	85	1	0	1	1098	78	1	0	1		
			-	YD	(none)	-	509	36	0	3	1	509	36	0	3	1	478	34	0	3	1		
			-	Y5	AC	BD	612	44	1	0	1	599	43	1	0	1	593	42	1	0	1		
	2 Sides (opposing)	-	YD	AC	BD	248	18	0	3	1	248	18	0	3	1	233	17	0	3	1			

* - Values are representative of the Distribution + Shielding Ordering Code combination, IES file may need to be rotated to match an equivalent shielding configuration.

ELECTRICAL CHARACTERISTICS

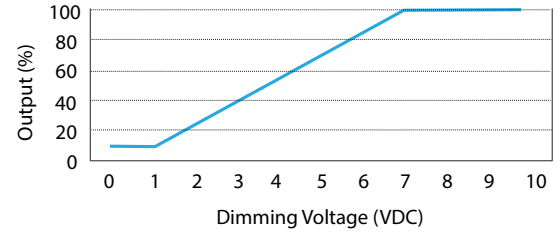
Ordering Code	LED Current (mA)	System Wattage (W)	Input						Min. Power Factor	Max THD (%)	Dimming Range (V)	Source/Sink Current (mA)	Inrush Current Peak			
			Amps AC				HZ	(A)					T@50% (µs)			
			120	277	347	480		120					277	120	277	
10XX	350mA	15	0.12	0.05	0.04	0.03	50/60	0.9	20	0-10	1	15	N/A			
20XX	700mA	30	0.25	0.11	0.09	0.06	50/60	0.9	20	0-10	1	21	49	160		

JOB _____
 TYPE _____
 NOTES _____

TM-21 LIFETIME CALCULATION

Ambient Environment °C	Projected Lumen Maintenance (Khrs)					Reported L70
	25	50	60	75	100	
25	98%	95%	94%	93%	90%	70Khrs.
40	96%	95%	94%	93%	90%	

DIMMING CURVE



Note: Fixture does not dim to off, fixture dims to 10% minimum output.

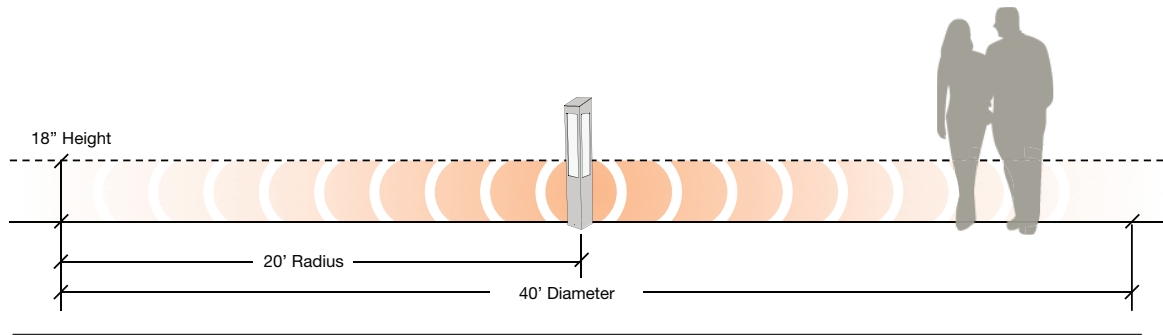
ISOLINE TEMPLATES 5' grid spacing.

Equivalent (rotated) configurations are shown in italics.

Shielding	Asymmetric Distribution					Symmetric Distribution		FC Legend
	Type II	Type III	Type IV	Type V	Diffused Lens	Type V	Diffused Lens	
(none)								0.5 FC 1 FC 2 FC 3 FC 4 FC 5 FC 6 FC 7 FC 8 FC
1 Side C or HSS								
2 Sides adjacent CD, AB, BC or AD								
2 Sides opposing AC or BD								
3 Sides BCC, ABC, or ACD								

SENSOR COVERAGE

Motion Sensor uses microwave sensing technology that reacts to physical changes in within the coverage area. Careful consideration must be given to objects or activity that may trigger the sensor unintentionally.

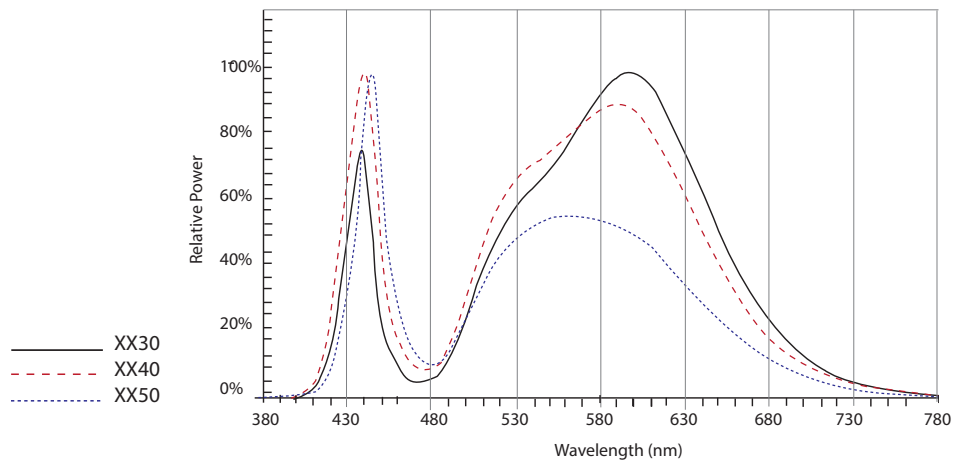


COLOR CHARACTERISTICS

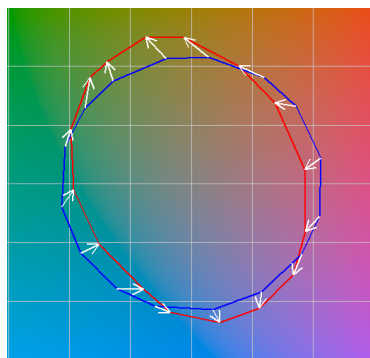
Value	Ordering Code		
	XX30	XX40	XX50
Rf	69	69	71
Rg	99	99	98
CCT(K)	3122	3852	5020
Duv	0.001	0.0004	0.0005
CIE Ra	74	73	74

Note: TM-30 reported at the discrete LED level, not fixture level.

SPECTRAL POWER DISTRIBUTION COMPARISON

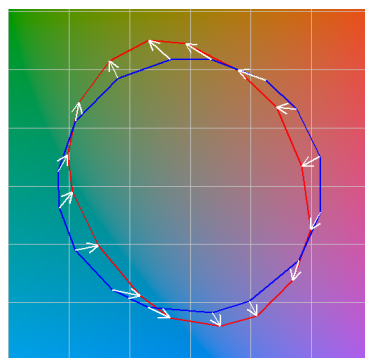


COLOR VECTOR GRAPHIC



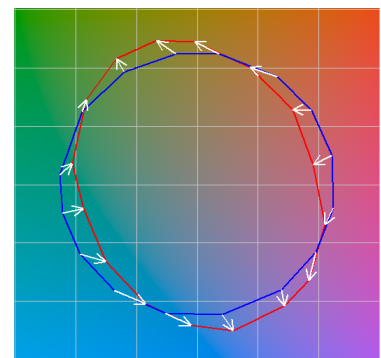
— Reference Illuminant — Test Source → Series1 → Series2
→ Series3 → Series4 → Series5 → Series6
→ Series7 → Series8 → Series9 → Series10

XX30



— Reference Illuminant — Test Source → Series1 → Series2
→ Series3 → Series4 → Series5 → Series6
→ Series7 → Series8 → Series9 → Series10

XX40



— Reference Illuminant — Test Source → Series1 → Series2
→ Series3 → Series4 → Series5 → Series6
→ Series7 → Series8 → Series9 → Series10

XX50

SPECIFICATIONS

HOUSING

- Housing shroud shall be extruded 6061-T6 aluminum alloy with a welded top cap that shall be free of any visible weld or grind marks
- Luminaire housing shall be free of any visible heat fins, hardware or fasteners.
- Bracketry shall be aluminum and hardware shall be stainless steel.
- Housing shall be independently field rotate-able of the optical distribution.
- Default factory orientations of shielding location relative to the optical system shall be:
 A - Street Side
 C - House Side

OPTICAL ARRAY

- LEDs shall be mounted to a metal printed circuit board assembly (MCPCB).
- Optical lenses shall be clear injection molded PMMA acrylic.
- House side shield shall be field installable on any face of the housing.
- Light engine and optical distributions shall be field rotat-able.

ELECTRICAL

- Luminaires shall have integral surge protection that shall be U.L. recognized and have a surge current rating of 10,000 Amps using the industry standard 8/20uSec wave and surge rating of 372J.
- Drivers shall be U.L. recognized.
- Drivers shall not be compatible with current sourcing dimmers, consult factory for current list of known compatible dimming systems. Approved dimmers include Lutron Diva AVTV, Lutron Nova NFTV and NTFTV.
- Luminaire shall be capable of operating at 100% power in a 40° ambient environment. Both driver and optical array shall have integral thermal protection that shall dim the luminaire upon detection of fixture temperatures in excess of 85°C.
- Luminaires not configured with an optional control system shall be provided with 0-10 purple and gray dimming leads.

- Sensor enabled fixture settings shall come to full brightness upon detecting motion and go to 50% output after 5 minutes of detecting no motion.
- Motion Sensor shall use microwave sensing technology that reacts to physical changes in within the coverage area. Careful consideration must be given to objects or activity that may trigger the sensor unintentionally.

MOUNTING AND INSTALLATION

- Anchor bolts and anchor bolt template shall be included.

SERVICING

- Service access to the driver assembly shall require a 3/16" hex driver (information provided by engineering) to loosen (4) stainless steel set screws to allow the housing to be removed for access to the gear compartment. Gear compartment shall require a Philips driver (information provided by engineering) to open service panel.
- Driver assembly shall be mounted to a prewired internal tray with quick disconnects for removal.

FINISH

- Luminaire finish shall consist of a five stage pretreatment regimen with a polymer primer sealer, oven dry off, and top coated with a thermoset super TGIC polyester powder coat finish.
- Luminaire finish shall meet the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance.

CERTIFICATION

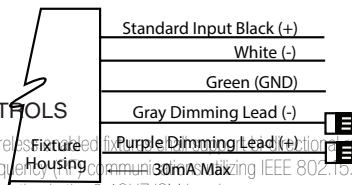
- Luminaire shall be listed with UL for outdoor, wet location use, UL1598, UL 8750 and Canadian CSA Std. C22.2 no.250.
- IDA approved, 3000K and warmer CCTs only.

WARRANTY / TERMS AND CONDITIONS OF SALE

Download:
<http://www.hubbelling.com/resources/warranty/>

CONTROLS

- Wireless enabled fixture housing communicates via radio frequency (RF) to a remote control unit operating in the 2.4GHZ ISM band.
- Up to 1000' wireless range may be reduced by physical obstructions between lighting fixtures.



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