

**FEATURES**

- Sensor and wireless operation
- Field rotatable optics and housing
- Customizable side panels
- True IES Type 2, 3, 4, 5 distributions
- 3000K , 4000K, 5000K CCT
- Integral thermal protection



**KICK™**



Kick Bollard

**CONTROL TECHNOLOGY**



**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 rotatable of the optical distribution.
- Default factory orientations of shielding location relative to the optical system shall be:
- A - Street Side  
C - House SideLED/Optics

**LED/OPTICS**

- 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 rotatable.

**INSTALLATION**

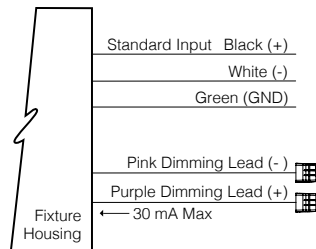
- Anchor bolts and anchor bolt template shall be included.
- Service access to the driver assembly shall require a 3/16" hex driver (information provided by engineering) to loosen (4) stainless steel set screws to allow the housing to be removed for access to the gear compartment. Gear compartment shall require a Philips driver (information provided by engineering) to open service panel.

**INSTALLATION (CONTINUED)**

- Driver assembly shall be mounted to a prewired internal tray with quick disconnects for removal.

**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.
- 100%-1% dimming range. Fixture will be wired for low voltage 0-10V dimming control
- 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 0-10V purple and pink dimming leads.



**CONTROLS**

- Wireless enabled fixtures shall support bi-directional radio frequency (RF) communications utilizing IEEE 802.15.4 operating in the 2.4GHZ ISM band.
- Up to 1000' wireless range may be reduced by physical obstructions between lighting fixtures.

**CONTROLS (CONTINUED)**

- 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.

**CERTIFICATIONS**

- 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.
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 6/06/2020.

**WARRANTY**

- 5 year warranty

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KEY DATA	
Lumen Range	7,744-18,763
Wattage Range	87-173
Efficacy Range (LPW)	79-119
Weight	20 lbs 9.07 kg
EPA	1.4

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

**ORDERING GUIDE**

**Example:** KB6-LED-Y2-B-2040-347-BLT

CATALOG #

Model	Distribution	Shielding	Light Engine <sup>1</sup>	Control (May choose one)
<b>KB6-LED</b> 6" Square x 42" OAH Bollard	<b>Y2</b> IES Type II Clear Lens	Optional, may choose from 1 to 3 sides closed from options A, B, C, D or you may choose HSS option. Refer to page 4 for additional information  <b>A</b> Short side closed <b>B</b> Side 90° counterclockwise from short side closed <b>C</b> Side 180° counterclockwise from short side closed <b>D</b> Side 270° counterclockwise from short side closed <b>HSS</b> House side shield	<b>1030</b> 3000K CCT, CRI 70, 14 watts	<b>WIR</b> wiScape connectivity <b>BPC</b> Button Type Photocell
	<b>Y3</b> IES Type III Clear Lens		<b>1040</b> 4000K CCT, CRI 70, 14 watts	
	<b>Y4</b> IES Type IV Clear Lens		<b>1050</b> 3000K CCT, CRI 70, 14 watts	
	<b>Y5</b> IES Type V Clear Lens		<b>2030</b> 3000K CCT, CRI 70, 29 watts	
	<b>YD</b> Symmetric distribution, diffused lens		<b>2040</b> 4000K CCT, CRI 70, 29 watts	
			<b>2050</b> 5000K CCT, CRI 70, 29 watts	

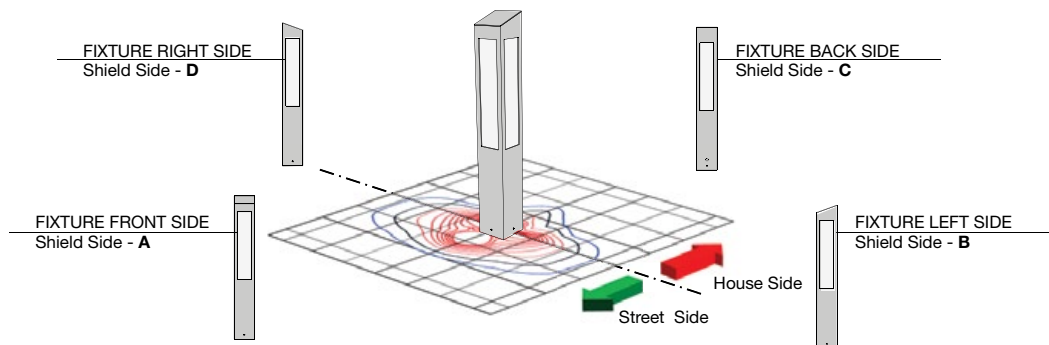
Voltage	Fixture Finish	Controls Accessories
<b>120-277V</b> 120-277 input standard or you may choose one	<b>BLS</b> Black Gloss Smooth <b>BLT</b> Black Matte Textured <b>DBS</b> Dark Bronze Gloss Smooth <b>DBT</b> Dark Bronze Matte Textured <b>GTT</b> Graphite Matte Texture <b>LGS</b> Light Grey Gloss Smooth <b>LGT</b> Light Grey Matte Textured <b>PSS</b> Platinum Silver Gloss Smooth <b>VGT</b> Verde Green Matte Textured <b>WHS</b> White Gloss Smooth <b>WHT</b> White Matte Textured <b>CC</b> Custom Color <sup>3</sup>	<b>SWUSB</b> SiteSync loaded on USB flash drive (Windows® operating system only) <sup>2,4</sup> <b>SWTAB</b> SiteSync Window® based Tablet <sup>2,4</sup> <b>SWBRG</b> SiteSync Wireless Bridge Node <sup>2,4</sup>
<b>347</b> 347 VAC input		
<b>480</b> 480 VAC input		

Notes:  
 1 Consult factory for the following options: 560nm monochromatic amber, 2700K 80 CRI, Custom Lumen Packages  
 2 Specify group and zone at time of order. Order at least one SiteSync interface accessory SWUSB or SWTAB. Each option contains SiteSync License, GUI, and Bridge Node  
 3 Consult factory for custom color, marine and corrosive finish  
 4 When ordering with SiteSync, one of the following interface options must be chosen and ordered separately. Each option contains the SiteSync License, GUI and Bridge Node

## DELIVERED LUMENS

System Watts	Output	Closed Sides	IES Type	Distribution	Optional Shielding		3000K 70CRI				4000K 70CRI				5000K 70CRI							
					Shielding	Equivalent	Lumen	Bug Rating			Efficacy (Lm/W)	Lumen	Bug Rating			Efficacy (Lm/W)	Lumen	Bug Rating			Efficacy (Lm/W)	
								B	U	G			B	U	G			B	U	G		
15	Assymmetric	(none)	Type 2	Y2	(none)	-	1281	1	0	1	92	1294	1	0	1	92	1323	1	0	1	95	
			Type 3	Y3	(none)	-	1192	1	0	1	85	1204	1	0	1	86	1233	1	0	1	88	
			Type 4	Y4	(none)	-	1183	1	0	2	85	1195	0	0	1	85	1222	0	0	1	87	
		1 Side	Type 2	Y2	C	HSS	1187	1	0	2	85	1199	1	0	1	86	1226	1	0	1	88	
			Type 3	Y3	C	HSS	1092	1	0	1	78	1103	0	0	1	79	1128	0	0	1	81	
			Type 4	Y4	C	HSS	1105	1	0	2	79	1116	0	0	1	80	1141	0	0	1	82	
		2 Sides (adjacent)	-	Y5	C	A / B / D	897	1	0	1	64	906	1	0	1	65	926	1	0	1	66	
				YD	C	A / B / D	350	0	3	1	25	373	0	3	1	27	373	0	3	1	27	
			Y5	BC	AB / CD / AD	620	1	0	1	44	626	0	0	1	45	640	0	0	1	46		
	3 Sides (adjacent)	-	YD	BC	AB / CD / AD	236	0	3	1	17	251	0	3	1	18	251	0	3	1	18		
			Y5	BCD	ABC / ABD / ACD	307	0	0	1	22	310	0	0	1	22	317	0	0	1	23		
		YD	BCD	ABC / ABD / ACD	57	0	0	1	4	61	0	0	1	4	61	0	0	1	4			
	Symmetric	(none)	Type 5	Y5	(none)	-	1098	2	0	1	78	1189	1	0	1	85	1179	1	0	1	84	
				YD	(none)	-	478	0	3	4	34	509	0	3	1	36	509	0	3	1	36	
		2 Sides (opposing)	-	Y5	AC	BD	593	1	0	1	42	599	1	0	1	43	612	1	0	1	44	
				YD	AC	BD	233	0	3	1	17	248	0	3	1	18	248	0	3	1	18	
	30	Assymmetric	(none)	Type 2	Y2	(none)	-	2289	1	0	1	76	2302	1	0	1	77	2451	1	0	2	76
				Type 3	Y3	(none)	-	2153	1	0	1	72	2165	1	0	1	72	2305	1	0	1	72
Type 4				Y4	(none)	-	2108	1	0	2	70	2120	1	0	2	71	2257	1	0	2	70	
1 Side			Type 2	Y2	C	HSS	2199	1	0	2	73	2221	1	0	1	74	2271	1	0	2	73	
			Type 3	Y3	C	HSS	2041	1	0	1	68	2066	1	0	1	69	2107	1	0	1	68	
			Type 4	Y4	C	HSS	2041	1	0	2	68	2061	1	0	2	69	2107	1	0	2	68	
2 Sides (adjacent)			-	Y5	C	A / B / D	1645	1	0	1	55	1662	1	0	1	55	1699	1	0	1	55	
				YD	C	A / B / D	634	0	3	1	21	685	0	3	1	23	679	0	3	1	21	
			Y5	BC	AB / CD / AD	1138	1	0	1	38	1149	1	0	1	38	1175	1	0	1	38		
3 Sides (adjacent)		-	YD	BC	AB / CD / AD	427	0	3	1	14	461	0	3	1	15	457	0	3	1	14		
			Y5	BCD	ABC / ABD / ACD	581	0	0	1	19	568	0	0	1	19	581	0	0	1	19		
		YD	BCD	ABC / ABD / ACD	104	0	0	1	3	112	0	0	1	4	111	0	0	1	3			
Symmetric		(none)	Type 5	Y5	(none)	-	1978	2	0	1	66	2188	2	0	1	73	2163	2	0	1	66	
				YD	(none)	-	866	0	3	4	29	935	0	3	1	31	927	0	3	1	29	
		2 Sides (opposing)	-	Y5	AC	BD	1075	1	0	1	36	1085	1	0	1	36	1110	1	0	1	36	
				YD	AC	BD	426	0	3	1	14	460	0	3	1	15	456	0	3	1	14	

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

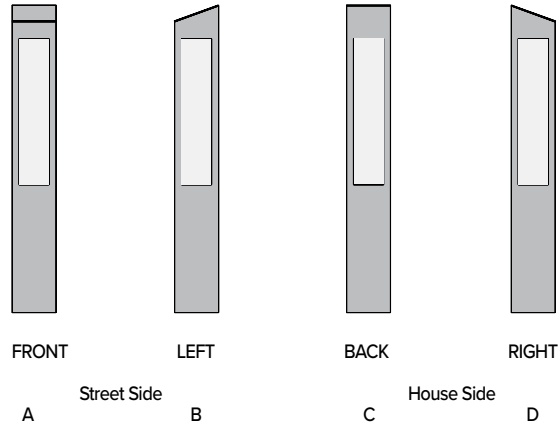


**DIMENSIONS**

MODEL	K41-...-SMK
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

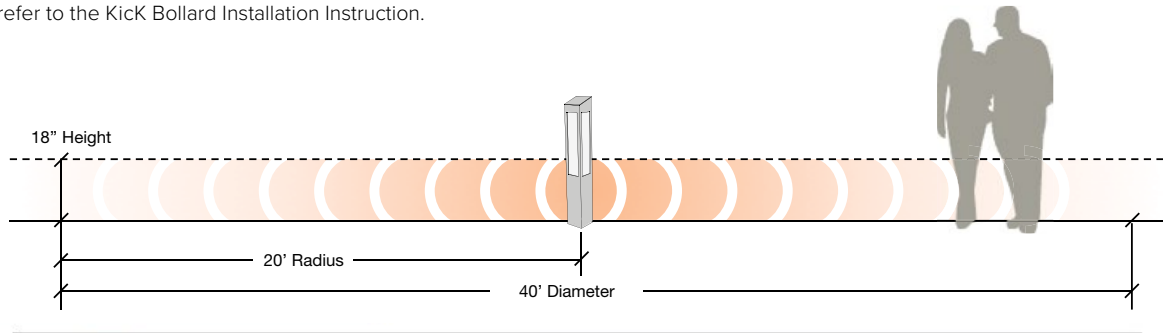
\* Housing and optical distribution are independently field rotatable in 90° increments. Default factory orientations shown above.

DISTRIBUTION OUTPUT\*  
SHIELDING SIDE



**SENSOR COVERAGE**

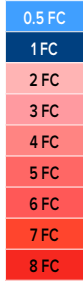
Motion Sensor uses microwave sensing technology that reacts to physical changes in within the coverage area. Careful consideration must be given to objects or activity that may trigger the sensor unintentionally. Dip Switch Settings on the microwave sensor will be pre-set at the factory. For additional information on troubleshooting, please refer to the Kick Bollard Installation Instruction.



**PHOTOMETRICS**

**ISOLINE TEMPLATES** 5' grid spacing.

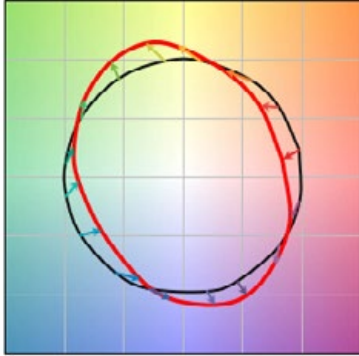
Equivalent (rotated) configurations are shown in italics.



Shielding	Asymmetric Distribution					Symmetric Distribution	
	Type II	Type III	Type IV	Type V	Diffused Lens	Type V	Diffused Lens
(none)	KB6-Y2-1050	KB6-Y3-1050	KB6-Y4-1050			KB6-Y5-1050	KB6-YD-1050
<b>1 Side</b> C or HSS	KB6-Y2-C-1050 <i>KB6-Y2-HSS-1050</i>	KB6-Y3-C-1050 <i>KB6-Y3-HSS-1050</i>	KB6-Y4-C-1050 <i>KB6-Y4-HSS-1050</i>	KB6-Y5-C-1050	KB6-YD-C-1050		
<b>2 Sides</b> adjacent CD, AB, BC or AD				KB6-Y5-CD-1050 <i>KB6-Y5-AB-1050</i> <i>KB6-Y5-BC-1050</i> <i>KB6-Y5-AD-1050</i>	KB6-YD-CD-1050 <i>KB6-YD-AB-1050</i> <i>KB6-YD-BC-1050</i> <i>KB6-YD-AD-1050</i>		
<b>2 Sides</b> opposing AC or BD						KB6-Y5-AC-1050 <i>KB6-Y5-BD-1050</i>	KB6-YD-AC-1050 <i>KB6-YD-BD-1050</i>
<b>3 Sides</b> BCC, ABC, or ACD				KB6-Y5-BCD-1050 <i>KB6-Y5-ABC-1050</i> <i>KB6-Y5-ACD-1050</i>	KB6-YD-BCD-1050 <i>KB6-YD-ABC-1050</i> <i>KB6-YD-ACD-1050</i>		

**TM-30 DATA**

**COLOR VECTOR GRAPHIC**

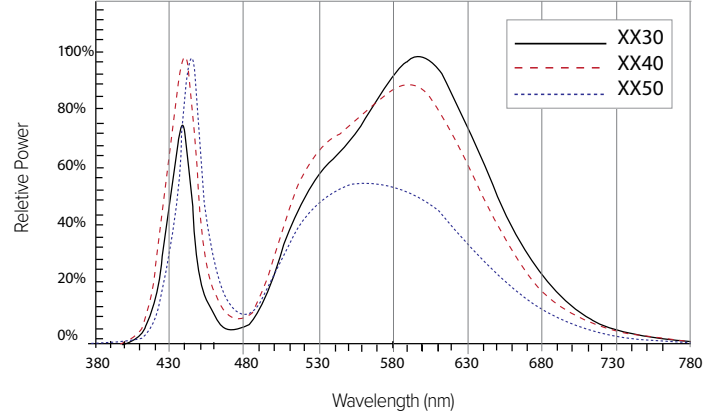


— Reference Illuminant — Test Source

**TEST SOURCE**

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

**SPECTRAL POWER DISTRIBUTION COMPARISON**



**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
			120	277	120	277									
10XX	350	15	0.12	0.05	0.04	0.03	50/60	>0.9	20	0-10	1	15	N/A		
20XX	700	30	0.25	0.11	0.09	0.06						21	49	160	

**TM-21 LIFETIME CALCULATION (500MA)**

Ambient Environment °C	Projected Lumen Maintenance (Khrs)					Reported L70
	25	50	60 (TM-21)	75	100	
25	98%	95%	94%	93%	90%	>60Khrs.
40	98%	95%	94%	93%	90%	