

HBOLS-5CCT

Slim Bollards Lumen & Kelvin Selectable

HOUSING: Premium powder-coat, aluminum, dark bronze or black housing.

ELECTRICAL:

- Operating temperature (ambient): -40°C to 50°C (-40°F to 122°F).
- Universal 120-277V AC voltage (50-60Hz) is standard.
- 0-10VDC dimming drivers are standard.
- Integrated photocell is standard. Photocell can be enabled or disabled by switch.
- Input transient surge protection = 4kV.
- Power factor > 0.90.
- Total Harmonic distortion < 20%.

OPTICAL SYSTEM:

- High-impact, Polycarbonate Lens.
- Field selectable 2700k(warm white), 3000k(warm white), 3500k(warm/neutral white), 4000k (neutral white) and 5000k (cool white) color temperatures*.
- HBOL-Rxx-342921L-5CCT Selectable output delivers 2,025 to 3,455 nominal lumens*.
- HBOL-Sxx-332821L-5CCT Selectable output delivers 2,010 to 3,291 nominal lumens*.
- Long-life LEDs provide 167,000 hours of operation with at least 70% of initial lumen output (L70), and 51,000 hours with at least 90% of initial lumen output (L90)**.
- LED color maintenance < 0.0008 chromaticity shift ($\Delta u'v'$) over the initial 6,000 hours of operation.
- Color rendering index > 80.

* Default 4000k color temperature and highest lumen output.

**L70 & L90 hours are IES TM-21-11 calculated hours.

MOUNTING: Anchor Bolt mount kit (included)

CODE COMPLIANCE:

- cULus listed for wet locations.
- DLC Premium listed.
- Complies with FCC part 15, class A.
- IP65 rated for ingress protection.
- IK08 rated for impact protection.

WARRANTY: 5 year warranty on all electronics and housing.



Model #	L (in)	W (in)	H (in)	Weight (lbs)
HBOL-R32-342921L-5CCT	4.53	4.53	32.00	8.31
HBOL-R42-342921L-5CCT	4.53	4.53	42.00	9.59
HBOL-S32-332821L-5CCT	4.53	4.53	32.00	10.74
HBOL-S42-332821L-5CCT	4.53	4.53	42.00	12.55

ORDERING INFORMATION

Example: HBOL-R32-342921L-5CCT-BLK

Series	Model		Nominal Lumen Output (Selectable)		Kelvin Selectable		Housing Color	
HBOL	R32	Round, 32" Height	342921L	3,400 / 2,900 / 2,100 lm	5CCT	2700K / 3000K / 3500K / 4000K / 5000K	Blank BLK	Dark Bronze Black
	R42	Round, 42" Height						
	S32	Square, 32" Height	332821L	3,300 / 2,800 / 2,100 lm				
	S42	Square, 42" Height						

LUMEN TABLES

Series	Measure-ments	34L					29L					21L				
		2700K	3000K	3500K	4000K	5000K	2700K	3000K	3500K	4000K	5000K	2700K	3000K	3500K	4000K	5000K
HBOLS-Rxx-342921L-5 CCT	Lumens	3,324	3,380	3,429	3,447	3,455	2,815	2,845	2,889	2,909	2,933	2,025	2,033	2,061	2,074	2,110
	Watt	23.3	23.09	22.79	23.08	23.27	19.5	19.33	19.12	19.35	19.51	13.87	13.78	13.68	13.8	13.9
	Efficacy	142.66	146.38	150.46	149.35	148.47	144.36	147.18	151.10	150.34	150.33	146.00	147.53	150.66	150.29	151.80
Series	Measure-ments	33L					28L					21L				
		2700K	3000K	3500K	4000K	5000K	2700K	3000K	3500K	4000K	5000K	2700K	3000K	3500K	4000K	5000K
HBOLS-Sxx-332821L-5 CCT	Lumens	3,100	3,135	3,239	3,269	3,291	2,621	2,645	2,732	2,760	2,777	2,010	2,030	2,070	2,088	2,134
	Watt	22.97	22.77	22.42	22.64	22.99	19.14	18.98	18.79	18.92	19.21	14.47	14.4	14.22	14.31	14.49
	Efficacy	134.96	137.68	144.47	144.39	143.15	136.94	139.36	145.40	145.88	144.56	138.91	140.97	145.57	145.91	147.27

ELECTRICAL DATA

Series	CCT	Input Amps (A)								
		33L			28L			21L		
		120V	240V	277V	120V	240V	277V	120V	240V	277V
HBOLS-Rxx-332821L-5C CT	2700K	0.19	0.10	0.08	0.16	0.08	0.07	0.12	0.06	0.05
	3000K	0.19	0.10	0.08	0.16	0.08	0.07	0.12	0.06	0.05
	3500K	0.19	0.09	0.08	0.16	0.08	0.07	0.11	0.06	0.05
	4000K	0.19	0.10	0.08	0.16	0.08	0.07	0.12	0.06	0.05
	5000K	0.19	0.10	0.08	0.16	0.08	0.07	0.12	0.06	0.05
Series	CCT	Input Amps (A)								
		33L			28L			21L		
		120V	240V	277V	120V	240V	277V	120V	240V	277V
HBOLS-Sxx-332821L-5C CT	2700K	0.19	0.10	0.08	0.16	0.08	0.07	0.12	0.06	0.05
	3000K	0.19	0.09	0.08	0.16	0.08	0.07	0.12	0.06	0.05
	3500K	0.19	0.09	0.08	0.16	0.08	0.07	0.12	0.06	0.05
	4000K	0.19	0.09	0.08	0.16	0.08	0.07	0.12	0.06	0.05
	5000K	0.19	0.10	0.08	0.16	0.08	0.07	0.12	0.06	0.05

COMPATIBLE DIMMERS AND CONTROLS

Manufacturer	Model Number	Dimmer Range	Load Switching Capacity
Best Lighting	DWS-010V-T	10%-100%	600W
Best Lighting	DWS-010V-D	10%-100%	600W
Leviton	IP710-LFZ	10%-100%	1200W
Lutron	DVSTV	10%-100%	450W

PHOTOMETRICS

HBOL-Rxx-342921L-5CCT

Luminaire Data

Description	BOLLARD (ROUND) LUMEN & KELVIN SELECT
Total Lumens	3,447
Input Wattage	23
Efficacy (lm/W)	149
Max. Cd.	899.85 (90H, 47V)
IES Classification	Type VS
Longitudinal Classification	Short

Zonal Lumen Summary

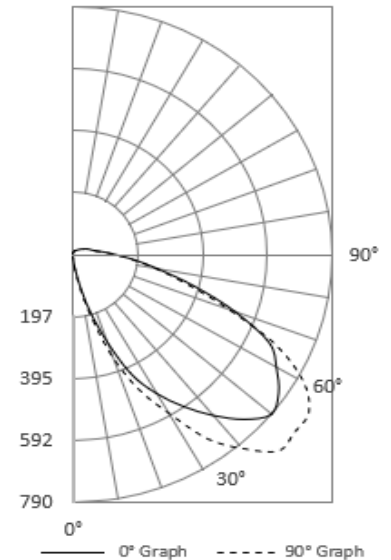
Zone	Lumens	%Fixt
0-30°	237	6.9%
0-60°	1,917	55.6%
0-80°	2,977	86.4%
80-90°	207	6.0%
0-90°	3,184	92.4%
90-110°	162	4.7%
110-180°	0	0.0%
0-180°	3,447	100.0%

Luminaire Classification Systems (LCS)

LCS Zone		Lumens	%Lum
FL	0-30	118	3.4%
FM	30-60	835	24.2%
FH	60-80	529	15.4%
FVH	80-90	104	3.0%
BL	0-30	119	3.5%
BM	30-60	844	24.5%
BH	60-80	531	15.4%
BVH	80-90	103	3.0%
UL	90-100	102	3.0%
UH	100-180	161	4.7%
Total		3,447	100.0%
BUG Rating		B2-U3-G2	

Photometrics based on 4000k CCT and set to highest lumen output.

180° Polar Graph



HBOL-Sxx-332821L-5CCT

Luminaire Data

Description	BOLLARD (SQUARE) LUMEN & KELVIN SELECT
Total Lumens	3,269
Input Wattage	23
Efficacy (lm/W)	144
Max. Cd.	883.43 (360H, 50V)
IES Classification	Type VS
Longitudinal Classification	Very Short

Zonal Lumen Summary

Zone	Lumens	%Fixt
0-30°	171	5.2%
0-60°	1,769	54.1%
0-80°	2,884	88.2%
80-90°	189	5.8%
0-90°	3,073	94.0%
90-110°	122	3.7%
110-180°	0	0.0%
0-180°	3,269	100.0%

Luminaire Classification Systems (LCS)

LCS Zone		Lumens	%Lum
FL	0-30	89	2.7%
FM	30-60	822	25.1%
FH	60-80	564	17.2%
FVH	80-90	95	2.9%
BL	0-30	82	2.5%
BM	30-60	776	23.7%
BH	60-80	551	16.8%
BVH	80-90	94	2.9%
UL	90-100	76	2.3%
UH	100-180	120	3.7%
Total		3,269	100.0%
BUG Rating		B2-U3-G1	

180° Polar Graph

