

Type: _____

Project: _____

ILLUMINA®**TITLE 20 24**

BS100LED

■ The **ILLUMINA®** BS100LED is a corrosion, flame and vandal resistant vapor tight that is certified for NSF/ ANSI 2 Splash Zone applications.

■ **HOUSING:** 100% UV stabilized polycarbonate, liquid silicone perimeter gasket with memory retention.

■ **DIFFUSER:** Frosted UV stabilized polycarbonate diffuser, for even light distribution and color stabilization.

■ **LUMEN:** **2 FT**

LO: 30W @ 4642 to 4920 lm
MO: 40W @ 6155 to 6545 lm
HO: 50W @ 7682 to 8184 lm

4 FT

VLO: 30W @ 4626 to 4930 lm
LO: 40W @ 6147 to 6565 lm
MO: 50W @ 7710 to 8188 lm
HO: 60W @ 9241 to 9828 lm
VHO: 70W @ 10,860 to 11,457 lm



■ **OPERATING TEMP:** HT (AC Only) -40°F to 104°F (-40°C to 40°C)

SA (AC & Emergency) 32°F to 104°F (0°C to 40°C)

■ **ELECTRICAL:** 120-277V, 50/60HZ; 0-10VDC dimming; PF >0.95; THD < 20%

■ **WEIGHT:** 2 FT: 5 lbs (2.3 kg) / 4 FT: 10 lbs (4.5 kg)

APPLICATION: The **BS100LED** is ideal for various commercial applications including retail, industrial, parking garages, carports, parking structures, warehouses, breezeways, canopies, schools, splash zones, and more. It can be installed both indoor and outdoor.

ORDERING INFORMATION

Example: BS100LED4 HT HO WT40 120-277V

MODEL	LENGTH	OPERATION	OUTPUT	COLOR TEMP	INPUT	MOUNTING	OPTIONS
BS100LED	2 (ft)	HT (AC only)	VLO ¹	WT30 (3000K)	120-277V	blank (surface mount standard)	BLK ⁴ (black housing, 4' only)
	4 ¹ (ft)	SA ² (AC & EM)	LO	WT35 (3500K)	347-480V		CRD ⁵ (black, 18AWG)
			MO	WT40 (4000K)		JM ³ (j-box mount)	D (dali 2)
			HO	WT50 (5000K)			FA ⁶ (fully assembled)
			VHO ¹				FP (fuse protection - 3A)
							IS ^{7,9} (internal occ sensor)
							ISBSR ^{7,9} (internal occ sensor)

CONTROLS & ACCESSORIES

1PKxWBS02 ^{11,12} (single pendant kit, 2' fixture, white, x=length)	2CH48 ¹² (48" chain hang kit, field cuttable)	QMBWBS04 ¹⁴ (IP66 quick mount bracket, 4' fixture)
1PKxWBS04 ^{11,12} (single pendant kit, 4' fixture, white, x=length)	EMDCB ⁹ (BT wireless motion and lux sensor)	RLY ⁹ (wireless relay)
1SPKxWBS02 ^{11,12} (swivel single pendant kit, 2' fixture, white, x=length)	HHRFSIR ¹⁰ (handheld remote for FSP221)	SW1 ⁹ (single BT wireless switch)
1SPKxWBS04 ^{11,12} (swivel single pendant kit, 4' fixture, white, x=length)	MM ¹³ (magnet mount)	TM22BS04 ¹² (22" trunnion mount, 4' fixture)
2PKxW ^{11,12} (double pendant kit, white, x=length)	PM (pivot mount)	
2SPKxW ^{11,12} (swivel double pendant kit, white, x=length)	QMBWBS02 ¹⁴ (IP66 quick mount bracket, 2' fixture)	
2ACx ¹² (adjustable aircraft cable, x=length: 50=50", 72=72")		

NOTE 1: VLO and VHO outputs available for 4ft only

NOTE 2: Title 20 emergency pack; 120/277V; 2FT: 7W/1022 lm; 4FT: 10W/1650 lm

NOTE 3: JM: direct j-box mount maintains fixture IP66 rating

NOTE 4: Contact factory for lead time

NOTE 5: Specify length and 3 or 5-conductor (CRD required for suspension mounting: pendant and chain/cable kit accessories)

NOTE 6: Includes latches, grommets, etc. installed at the factory for quick installation

NOTE 7: IS is std Beghelli sensor (DLC Listed ISBSR; as well as CRMB9 FSP221 and other sensors also available, SEE CONTROLS SECTION ON PAGE 4)

NOTE 8: OS is std Beghelli sensor (DLC Listed OSBSR; as well as CRMB9, OSFSP221, SBOR and other sensors also available; SEE CONTROLS SECTION ON PAGE 4)

NOTE 9: Beghelli offers wireless and powerless control solutions, contact factory for more details

NOTE 10: FSP221 and OSFSP221 require HHRFSIR handheld remote accessory

NOTE 11: Standard pendant lengths "x" = 12 (12"), 24 (24") and 48 (48")

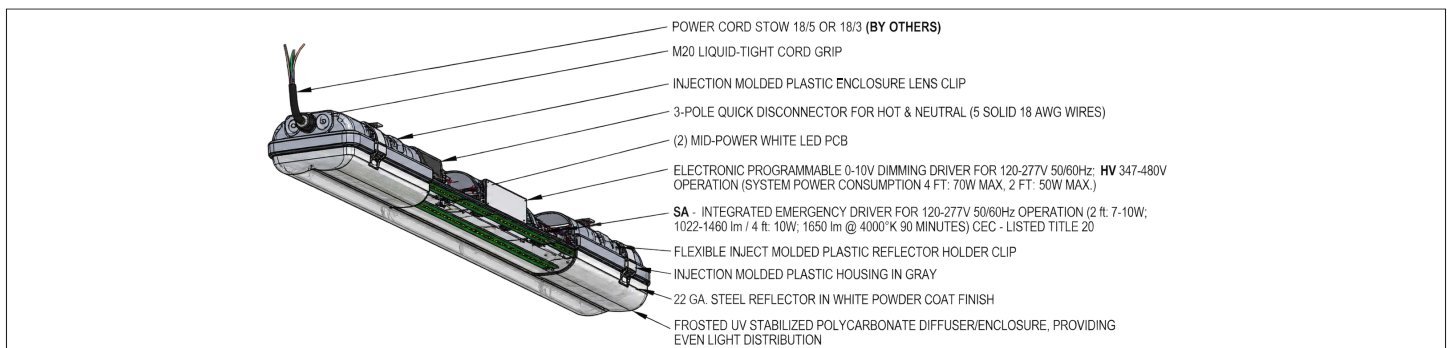
NOTE 12: Consult factory for non-standard lengths

NOTE 13: Magnetic mounts must be installed to steel beam measuring minimum 3/16" thick

NOTE 14: Quick Mount bracket requires JM mount; FA option recommended for maximum labor savings

NOTE: Red or green LED is available for horticultural applications

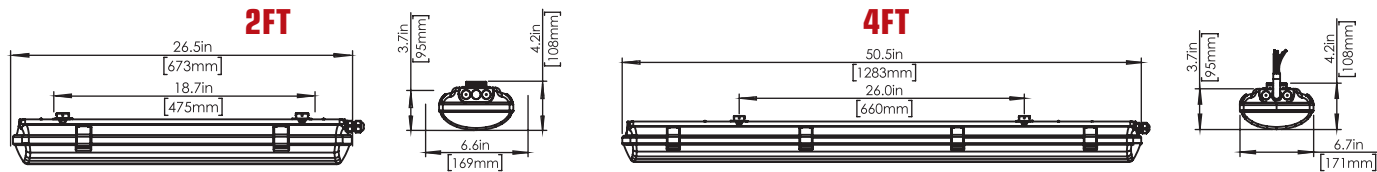
TECHNICAL INFORMATION



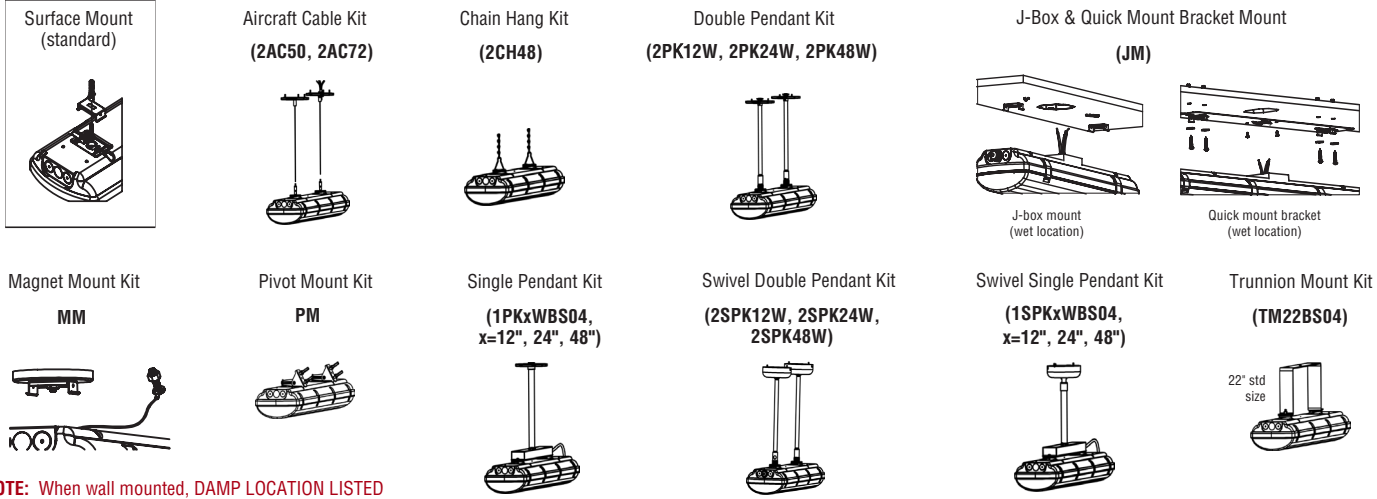
ILLUMINA BS100LED

ADDITIONAL INFORMATION

DIMENSIONS



MOUNTING OPTIONS & ACCESSORIES

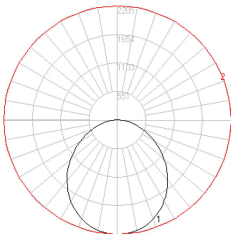


NOTE: When wall mounted, DAMP LOCATION LISTED
NOTE: CRD option required for all suspension mount kits

PHOTOMETRICS

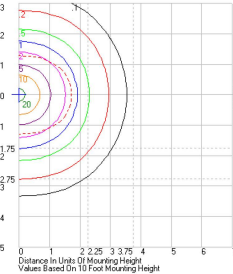
BS100LED2HTMOWT40120-277V

POLAR CURVES



Characteristics			
Electronic driver	LED 4000°K	N.A. (absolute)	
Lumens Per Lamp	N.A. (absolute)		
Total Lamp Lumens	6545	N.A. (absolute)	
Luminaire Lumens	164	N.A. (absolute)	
Total Luminaire Efficiency	40	N.A. (absolute)	
Luminaire Efficacy Rating (LER)	1.00	N.A. (absolute)	
Ballast Factor	1.00	N.A. (absolute)	
CIE Type	Direct	N.A. (absolute)	
Spacing Criterion (0-180)	1.24	N.A. (absolute)	
Spacing Criterion (90-270)	1.26	N.A. (absolute)	
Spacing Criterion (Diagonal)	1.38	N.A. (absolute)	
Basic Luminaire Shape	Rectangular w/Sides	N.A. (absolute)	
Luminaire Length (0-180)	4.18 ft	N.A. (absolute)	
Luminaire Width (90-270)	0.53 ft	N.A. (absolute)	
Luminaire Height	0.15 ft	N.A. (absolute)	

ISOLINES

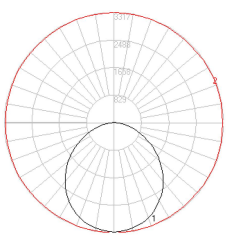


Zonal Lumen Summary			
Zone	Lumens	%Lamp	%Foot
0-20	797.92	N.A.	12.20
0-30	1690.41	N.A.	25.80
0-40	2791.57	N.A.	42.60
0-50	4881.07	N.A.	74.60
0-60	6130.12	N.A.	93.80
0-90	6353.74	N.A.	97.10
10-60	6146.33	N.A.	93.90
20-60	1963.48	N.A.	30.00
30-60	3069.42	N.A.	46.90
40-70	2909.48	N.A.	44.50
60-80	1556.05	N.A.	23.70
70-80	668.27	N.A.	10.20
80-90	214.62	N.A.	3.30
90-110	141.78	N.A.	2.20
90-120	170.62	N.A.	2.60
90-130	185.13	N.A.	2.80
90-150	191.40	N.A.	2.90
90-180	191.40	N.A.	2.90
110-180	48.62	N.A.	0.80
0-180	6545.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

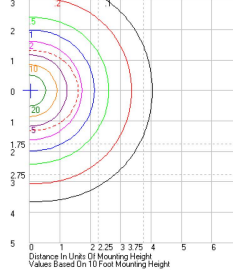
BS100LED4HTHOWT40120-277V

POLAR CURVES



Characteristics			
Electronic driver	LED 4000°K	N.A. (absolute)	
Lumens Per Lamp	N.A. (absolute)		
Total Lamp Lumens	9628	N.A. (absolute)	
Luminaire Lumens	164	N.A. (absolute)	
Total Luminaire Efficiency	40	N.A. (absolute)	
Luminaire Efficacy Rating (LER)	1.00	N.A. (absolute)	
Ballast Factor	1.00	N.A. (absolute)	
CIE Type	Direct	N.A. (absolute)	
Spacing Criterion (0-180)	1.24	N.A. (absolute)	
Spacing Criterion (90-270)	1.26	N.A. (absolute)	
Spacing Criterion (Diagonal)	1.38	N.A. (absolute)	
Basic Luminaire Shape	Rectangular w/Sides	N.A. (absolute)	
Luminaire Length (0-180)	4.18 ft	N.A. (absolute)	
Luminaire Width (90-270)	0.53 ft	N.A. (absolute)	
Luminaire Height	0.15 ft	N.A. (absolute)	

ISOLINES



Zonal Lumen Summary			
Zone	Lumens	%Lamp	%Foot
0-20	1203.81	N.A.	12.20
0-30	2594.04	N.A.	26.90
0-40	4177.85	N.A.	43.50
0-50	7354.85	N.A.	76.40
0-60	9258.62	N.A.	96.10
0-90	9567.22	N.A.	99.30
10-60	9258.62	N.A.	96.10
20-60	2974.04	N.A.	30.30
30-60	4651.52	N.A.	48.20
40-70	4338.96	N.A.	44.10
60-80	1883.76	N.A.	19.20
70-80	721.81	N.A.	7.30
80-90	328.80	N.A.	3.30
90-110	196.45	N.A.	2.00
90-120	234.55	N.A.	2.40
90-130	253.68	N.A.	2.60
90-150	260.68	N.A.	2.70
90-180	260.68	N.A.	2.70
110-180	64.23	N.A.	0.70
0-180	9627.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ILLUMINA BS100LED

ENERGY CHART

MODEL	LENGTH	EFFICACY	CONSUMPTION WATTAGE	LUMEN OUTPUT	CRI	L70 (HRS) TESTED	L70 (HRS) PROJECTED
2FT							
BS100LED 2HT LO WT30 120-277V	2 ft	155 lm/W	30	4642	>80	>60,000	>100,000
BS100LED-2HT LO WT35 120-277V	2 ft	159 lm/W	30	4763	>80	>60,000	>100,000
BS100LED 2HT LO WT40 120-277V	2 ft	164 lm/W	30	4920	>80	>60,000	>100,000
BS100LED 2HT LO WT50 120-277V	2 ft	164 lm/W	30	4920	>80	>60,000	>100,000
BS100LED 2HT MO WT30 120-277V	2 ft	154 lm/W	40	6155	>80	>60,000	>100,000
BS100LED 2HT MO WT35 120-277V	2 ft	159 lm/W	40	6359	>80	>60,000	>100,000
BS100LED 2HT MO WT40 120-277V	2 ft	164 lm/W	40	6545	>80	>60,000	>100,000
BS100LED 2HT MO WT50 120-277V	2 ft	164 lm/W	40	6545	>80	>60,000	>100,000
BS100LED 2HT HO WT30 120-277V	2 ft	154 lm/W	50	7682	>80	>60,000	>100,000
BS100LED 2HT HO WT35 120-277V	2 ft	159 lm/W	50	7952	>80	>60,000	>100,000
BS100LED 2HT HO WT40 120-277V	2 ft	164 lm/W	50	8184	>80	>60,000	>100,000
BS100LED 2HT HO WT50 120-277V	2 ft	164 lm/W	50	8184	>80	>60,000	>100,000
4FT							
BS100LED 4HT VLO WT30 120-277V	4 ft	154 lm/W	30	4626	>80	>60,000	>100,000
BS100LED 4HT VLO WT35 120-277V	4 ft	159 lm/W	30	4767	>80	>60,000	>100,000
BS100LED 4HT VLO WT40 120-277V	4 ft	164 lm/W	30	4930	>80	>60,000	>100,000
BS100LED 4HT VLO WT50 120-277V	4 ft	164 lm/W	30	4930	>80	>60,000	>100,000
BS100LED 4HT LO WT30 120-277V	4 ft	154 lm/W	40	6147	>80	>60,000	>100,000
BS100LED 4HT LO WT35 120-277V	4 ft	159 lm/W	40	6375	>80	>60,000	>100,000
BS100LED 4HT LO WT40 120-277V	4 ft	164 lm/W	40	6565	>80	>60,000	>100,000
BS100LED 4HT LO WT50 120-277V	4 ft	164 lm/W	40	6565	>80	>60,000	>100,000
BS100LED 4HT MO WT30 120-277V	4 ft	154 lm/W	50	7710	>80	>60,000	>100,000
BS100LED 4HT MO WT35 120-277V	4 ft	159 lm/W	50	7927	>80	>60,000	>100,000
BS100LED 4HT MO WT40 120-277V	4 ft	164 lm/W	50	8188	>80	>60,000	>100,000
BS100LED 4HT MO WT50 120-277V	4 ft	164 lm/W	50	8188	>80	>60,000	>100,000
BS100LED 4HT HO WT30 120-277V	4 ft	154 lm/W	60	9241	>80	>60,000	>100,000
BS100LED 4HT HO WT35 120-277V	4 ft	159 lm/W	60	9556	>80	>60,000	>100,000
BS100LED 4HT HO WT40 120-277V	4 ft	164 lm/W	60	9828	>80	>60,000	>100,000
BS100LED 4HT HO WT50-120-277V	4 ft	164 lm/W	60	9828	>80	>60,000	>100,000
BS100LED 4HT VHO WT30 120-277V	4 ft	155 lm/W	70	10860	>80	>60,000	>100,000
BS100LED 4HT VHO WT35 120-277V	4 ft	159 lm/W	70	11136	>80	>60,000	>100,000
BS100LED 4HT HO WT40 120-277V	4 ft	164 lm/W	70	11457	>80	>60,000	>100,000
BS100LED 4HT VHO WT50 120-277V	4 ft	164 lm/W	70	11457	>80	>60,000	>100,000

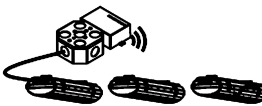
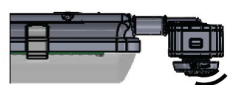
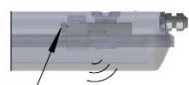
ELECTRICAL RATING

DIMMER COMPATIBILITY

PRODUCT	NOMINAL POWER (W)	AC CURRENT (A) AC VOLTAGE		FREQUENCY (HZ)	DC VOLTAGE (V)	DC CURRENT (MA)
		120 V	277 V			
2FT						
BS100LED-2HT-LO	30	0.26	0.11	50/60	45	600
BS100LED-2HT-MO	40	0.34	0.15	50/60	45	800
BS100LED-2HT-HO	50	0.43	0.18	50/60	45	1000
4FT						
BS100LED-4HT-VLO	30	0.26	0.11	50/60	45	600
BS100LED-4HT-LO	40	0.34	0.15	50/60	45	800
BS100LED-4HT-MO	50	0.43	0.18	50/60	45	1000
BS100LED-4HT-HO	60	0.51	0.22	50/60	45	1200
BS100LED-4HT-VHO	70	0.59	0.26	50/60	45	1400

DIMMER	COMPATABILITY	
	ON/OFF	DIMMING
2FT		
LEVITON - AWRMG-7	YES	YES
LUTRON - DIVE - DVSTV	YES	YES
LUTRON - DIVE - DVTV	YES	YES
WATT STOPPER - DCLV1	YES	YES
4FT		
LEVITON - AWRMG-7	YES	YES
LUTRON - DIVE - DVSTV	YES	YES
LUTRON - DIVE - DVTV	YES	YES
WATT STOPPER - DCLV1	YES	YES

BEGHELLI LIGHTING CONTROL SOLUTIONS

DAISY CHAIN FIXTURES (RELAY)			EXTERNAL NODE & SENSOR (OS)	
RLY* Wireless Relay (Damp Location)	EMDCB* Remote Sensor (Damp Location)	SW1* Single Switch (Damp Location)	OS (Beghelli standard) (Wet Location)	SW1* Single Switch (Damp Location)
 Max range: 100 ft Max fixtures: 20			 External occ sensor options: OSB**, OSBC**, OSBSR**, SBOR, CRMB9, OSFSP221, etc.	
INTEGRATED NODE (NOD)			INTEGRATED NODE & SENSOR (IS)	
NOD* Node	EMDCB* Remote Sensor (Damp Location)	SW1* Single Switch (Damp Location)	IS (Beghelli standard) (Wet Location)	SW1* Single Switch (Damp Location)
 NODE			 Mounted on lens Internal occ sensor options: ISB**, ISBC**, ISBSR**, FSP221, etc.	

**B = Bluetooth Mesh; BC = Casambi Mesh; BSR = DLC-listed TruBlu Silvr Mesh

❖ Beghelli offers standard wired and wireless control solutions. Beghelli fixtures are compatible with most control solutions available in the market, consult factory for more details.

■ **WARRANTY:** 5 years, see website for full warranty details