

Type: _____

Project: _____

ILLUMINA®**TITLE 20 24**

BS100LED

- The **ILLUMINA®** BS100LED is corrosion, flame and vandal resistant.
- **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	4 FT
LO: 30W @ 3876 to 4635 lm	VLO: 30W @ 4375 to 5208 lm
MO: 40W @ 5176 to 6172 lm	LO: 40W @ 5555 to 6627 lm
HO*: 50W @ 6464 to 7716 lm	MO: 50W @ 6944 to 8284 lm
* 3000K qualifies for DLC std	HO: 60W @ 8318 to 9946 lm
	VHO: 70W 9714 to 11,589 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)
- **POWER FACTOR:** Power Factor > 0.95
- **TOTAL HARMONIC DISTORTION (THD):** < 20%
- **WEIGHT:** 2 FT: 5 lbs (2.3 kg) / 4FT: 10 lbs (4.5 kg)



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

ORDERING INFORMATION

Example: BS100LED4 HT HO WT40 120-277V FSP221

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)	OS ^{8,9} (external occupancy sensor)
	4 ¹ (ft)	SA ² (AC & EM)	LO	WT35 (3500K)	347-480V		CRD ⁵ (black, 18AWG)	NOD ⁹ (integrated node)
			MO	WT40 (4000K)		JM ³ (j-box mount)	D (dali 2)	SP (surge protection - 10KA)
			HO	WT50 (5000K)			FA ⁶ (fully assembled)	SS (stainless steel clips)
			VHO ¹				FP (fuse protection - 3A)	TPS (tamper proof screws)
							IS ^{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)	MLM1 ⁹ (wireless motion and lux sensor)	TM22BS04 ¹² (22" trunnion mount, 4' fixture)
2PKxW ^{11,12} (double pendant kit, white, x=length)	MM ¹³ (magnet mount)	
2SPKxW ^{11,12} (swivel double pendant kit, white, x=length)	PM (pivot mount)	
2ACx ¹² (adjustable aircraft cable, x=length: 50=50", 72=72")	QMBWBS02 ¹⁴ (IP66 quick mount bracket, 2' fixture)	

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

NOTE 2: Title 20 emergency pack; 120/277V; 2FT: 7W/1022 lm; 4FT: 10W/1573 lm

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

NOTE 4: Contact factory for lead time

NOTE 5: Specify length for CRD, specify 3 or 5-conductor

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

NOTE 7: IS is std Beghelli sensor; FSP221, Magnum ISM1 and other sensors also available

NOTE 8: OS is std Beghelli sensor (Magnum OSM1, CRMB9, OSFSP221, SBOR and other sensors also available)

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")

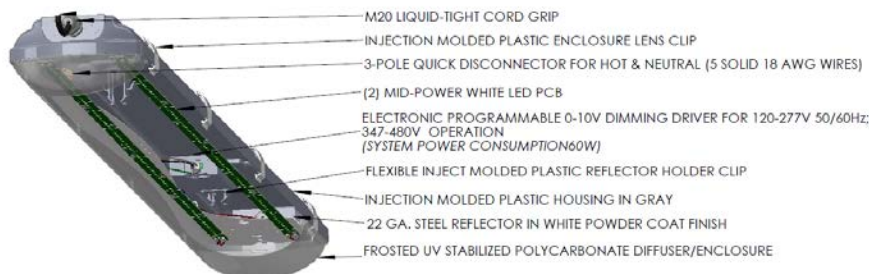
NOTE 12: Consult factory for non-standard lengths

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

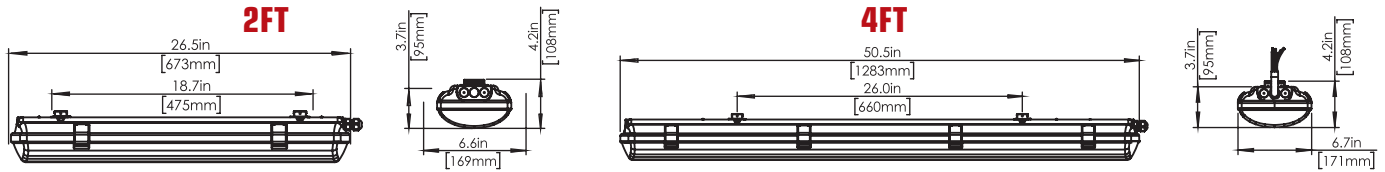
NOTE 14: Quick Mount bracket requires JM mount; FA option recommended for maximum labor savings

NOTE: Red or green LED is available for horticultural applications

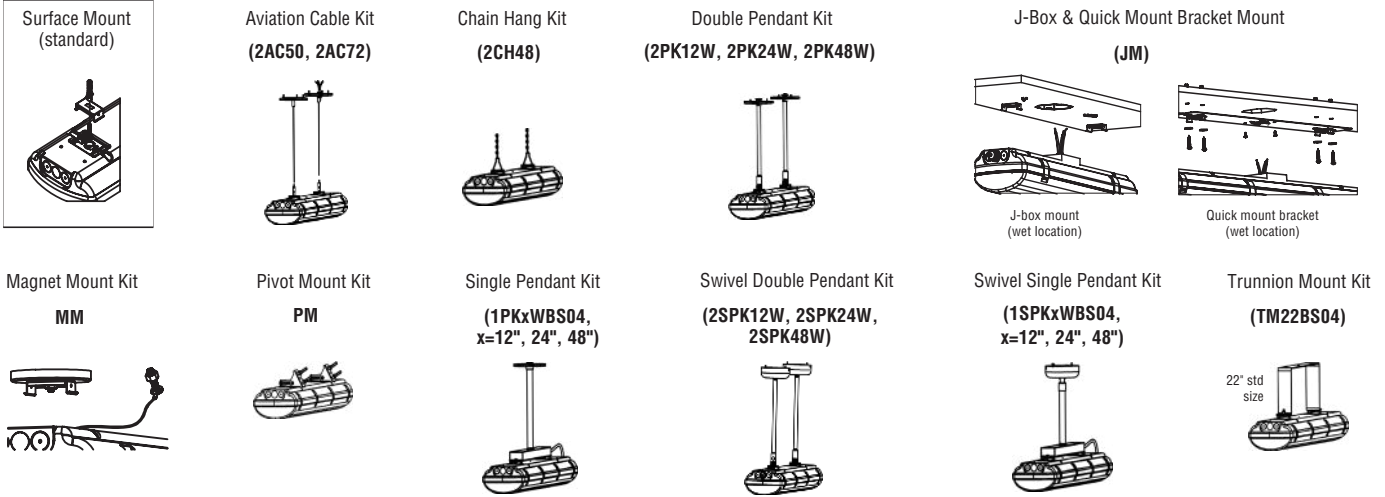
TECHNICAL INFORMATION



DIMENSIONS



MOUNTING OPTIONS & ACCESSORIES

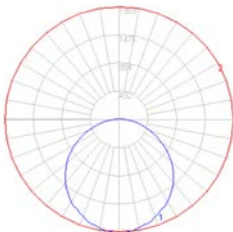


NOTE: When wall mounted, DAMP LOCATION LISTED

PHOTOMETRICS

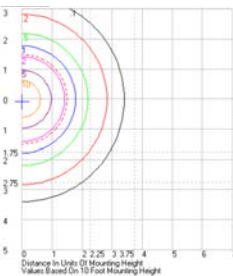
BS100LED2HTMOWT40120-277V

POLAR CURVES



Characteristics			
Electronic driver	LED 4000°K		
Lumens Per Lamp	N.A. (absolute)		
Total Lamp Lumens	N.A. (absolute)		
Luminaire Lumens	5835		
Total Luminaire Efficiency	146		
Luminaire Efficiency Rating (LER)	40		
Total Luminaire Watts	1.00		
Ballast Factor	Direct		
CIE Type			

ISOLINES

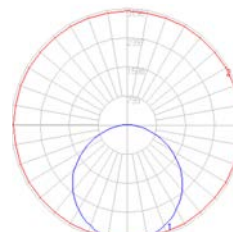


Zone	Lumens	%Lamp	%Fix
0-20	714.94	N.A.	12.30
0-30	1514.49	N.A.	26.00
0-40	2483.26	N.A.	42.60
0-60	4406.18	N.A.	75.50
0-80	5537.8	N.A.	94.90
0-90	5727.7	N.A.	98.20
10-90	5541.68	N.A.	95.00
20-40	1768.32	N.A.	30.30
20-50	2779.08	N.A.	47.60
40-70	2624.87	N.A.	45.00
60-80	1131.62	N.A.	19.40
70-80	425.67	N.A.	7.40
80-90	189.90	N.A.	3.30
90-110	90.62	N.A.	1.60
90-120	101.63	N.A.	1.70
90-130	105.73	N.A.	1.80
90-150	106.88	N.A.	1.80
90-180	107.26	N.A.	1.80
110-180	18.66	N.A.	0.30
0-180	5834.98	N.A.	100.00

Total Luminaire Efficiency = N.A.%

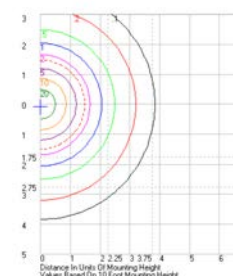
BS100LED4HTHOWT40120-277V

POLAR CURVES



Characteristics			
Electronic driver	LED 4000°K		
Lumens Per Lamp	N.A. (absolute)		
Total Lamp Lumens	N.A. (absolute)		
Luminaire Lumens	9400		
Total Luminaire Efficiency	157		
Luminaire Efficiency Rating (LER)	60		
Total Luminaire Watts	1.00		
Ballast Factor	Direct		
CIE Type			

ISOLINES



Zone	Lumens	%Lamp	%Fix
0-20	1166.13	N.A.	12.40
0-30	2470.92	N.A.	26.30
0-40	4047.23	N.A.	43.10
0-60	7164.41	N.A.	76.20
0-80	8952.46	N.A.	95.30
0-90	9253.89	N.A.	98.40
10-90	8951.18	N.A.	95.20
20-40	2881.1	N.A.	30.60
20-50	4525.25	N.A.	48.10
40-70	4236.8	N.A.	45.10
60-80	1798.04	N.A.	19.10
70-80	678.43	N.A.	7.20
80-90	291.43	N.A.	3.10
90-110	129.39	N.A.	1.40
90-120	142.18	N.A.	1.50
90-130	145.76	N.A.	1.60
90-150	146.24	N.A.	1.60
90-180	146.24	N.A.	1.60
110-180	16.86	N.A.	0.20
0-180	9400.13	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ILLUMINA® BS100LED

ADDITIONAL INFORMATION

ENERGY CHART

BS100LED-2HT-LO-WT35-120-277V

2 ft

138 lm/W

30

4130

MODEL	LENGTH	EFFICACY	CONSUMPTION WATTAGE	LUMEN OUTPUT	CRI	L70 (HRS) TESTED	L70 (HRS) PROJECTED
2FT							
BS100LED 2HT LO WT30 120-277V	2 ft	129 lm/W	30	3876	>80	>60,000	>100,000
BS100LED-2HT LO WT35 120-277V	2 ft	138 lm/W	30	4130	>80	>60,000	>100,000
BS100LED 2HT LO WT40 120-277V	2 ft	146 lm/W	30	4381	>80	>60,000	>100,000
BS100LED 2HT LO WT50 120-277V	2 ft	155 lm/W	30	4635	>80	>60,000	>100,000
BS100LED 2HT MO WT30 120-277V	2 ft	129 lm/W	40	5176	>80	>60,000	>100,000
BS100LED 2HT MO WT35 120-277V	2 ft	138 lm/W	40	5503	>80	>60,000	>100,000
BS100LED 2HT MO WT40 120-277V	2 ft	146 lm/W	40	5835	>80	>60,000	>100,000
BS100LED 2HT MO WT50 120-277V	2 ft	154 lm/W	40	6172	>80	>60,000	>100,000
BS100LED 2HT HO WT30 120-277V	2 ft	129 lm/W	50	6464	>80	>60,000	>100,000
BS100LED 2HT HO WT35 120-277V	2 ft	138 lm/W	50	6881	>80	>60,000	>100,000
BS100LED 2HT HO WT40 120-277V	2 ft	146 lm/W	50	7301	>80	>60,000	>100,000
BS100LED 2HT HO WT50 120-277V	2 ft	154 lm/W	50	7716	>80	>60,000	>100,000
4FT							
BS100LED 4HT VLO WT30 120-277V	4 ft	146 lm/W	30	4375	>80	>60,000	>100,000
BS100LED 4HT VLO WT35 120-277V	4 ft	155 lm/W	30	4648	>80	>60,000	>100,000
BS100LED 4HT VLO WT40 120-277V	4 ft	165 lm/W	30	4937	>80	>60,000	>100,000
BS100LED 4HT VLO WT50 120-277V	4 ft	174 lm/W	30	5208	>80	>60,000	>100,000
BS100LED 4HT LO WT30 120-277V	4 ft	139 lm/W	40	5555	>80	>60,000	>100,000
BS100LED 4HT LO WT35 120-277V	4 ft	148 lm/W	40	5901	>80	>60,000	>100,000
BS100LED 4HT LO WT40 120-277V	4 ft	157 lm/W	40	6264	>80	>60,000	>100,000
BS100LED 4HT LO WT50 120-277V	4 ft	166 lm/W	40	6627	>80	>60,000	>100,000
BS100LED 4HT MO WT30 120-277V	4 ft	139 lm/W	50	6944	>80	>60,000	>100,000
BS100LED 4HT MO WT35 120-277V	4 ft	148 lm/W	50	7379	>80	>60,000	>100,000
BS100LED 4HT MO WT40 120-277V	4 ft	157 lm/W	50	7831	>80	>60,000	>100,000
BS100LED 4HT MO WT50 120-277V	4 ft	166 lm/W	50	8284	>80	>60,000	>100,000
BS100LED 4HT HO WT30 120-277V	4 ft	139 lm/W	60	8318	>80	>60,000	>100,000
BS100LED 4HT HO WT35 120-277V	4 ft	148 lm/W	60	8861	>80	>60,000	>100,000
BS100LED 4HT HO WT40 120-277V	4 ft	157 lm/W	60	9400	>80	>60,000	>100,000
BS100LED 4HT HO WT50-120-277V	4 ft	166 lm/W	60	9946	>80	>60,000	>100,000
BS100LED 4HT VHO WT30 120-277V	4 ft	139 lm/W	70	9714	>80	>60,000	>100,000
BS100LED 4HT VHO WT35 120-277V	4 ft	148 lm/W	70	10343	>80	>60,000	>100,000
BS100LED 4HT HO WT40 120-277V	4 ft	157 lm/W	70	10955	>80	>60,000	>100,000
BS100LED 4HT VHO WT50 120-277V	4 ft	166 lm/W	70	11589	>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: 100ft Max fixtures: 20			 (EXTERNAL) External occ sensor options: OSM1*, 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: ISM1*, FSP221, etc.	

* Magnum control options also available (RLYM1 relay, MLM1 sensor, SW1M1 switch, NODM1 node and ISM1 and OSM1 sensors)

❖ 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