



BIS1AQ

Bismarck Hazardous Location LED 12" Linear LED Die Cast



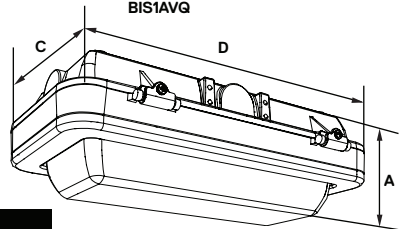
BIS1AHQ



BIS1AOQ



BIS1AVQ



Dimensions

Width (D)	12 1/4" (309mm)
Length (C)	7" (178mm)
Height (A)	BIS1AOQ: 4" (102mm) BIS1AHQ & BIS1AVQ: 4 1/4" (107mm)

Order Information Example:

BIS1AOQF37U5KCP

	F		U			P
Model	Optics	Wattage	Driver	CCT	Lens	Color
BIS1AOQ=Bismarck LED Open Frame 12" Linear LED Die Cast BIS1AHQ=Bismarck LED Horizontal Hood 12" Linear LED Die Cast BIS1AVQ=Bismarck LED Vertical Hood 12" Linear LED Die Cast	F=Wide	22=22w 37=37w	U=120-277V	4K=4000K 5K=5000K	C=Clear UV-Stabilized Polycarbonate Vandal-Resistant Lens L=Opal UV-Stabilized Polycarbonate Vandal-Resistant Lens	P=Platinum

The SaySpec Bismarck BIS1A Class 1, Division 2 Explosion Proof Hazardous Location series wall and ceiling mount luminaire is available with clear or opal lenses, and open, vertical half or horizontal half door frames designed to replace HID lighting systems from 70w to 175w MH or HPS. Typical lighting applications include industrial facilities, oil, gas, painting facilities, and auto service facilities. Mounting heights of 8 to 18 feet can be used based on light level and uniformity requirements.

SPECIFICATIONS AND FEATURES:

HOUSING:

Heavy-Duty Die Cast Aluminum Housing and Top Frame, with 1/2" Tapped Coin Plug Openings for Wiring Entrance Conduits.

LISTING & RATINGS:

ETL Listed for Hazardous Locations Per UL844 as Follows:
Class 1, Division 2 Groups A, B, C, D; T4 Temperature Rating
Suitable for Wet Locations, IP66 Sealed LED Compartment

FINISH:

Platinum Powdercoat Finish Over a Chromate Conversion Coating.

LENS:

Clear UV-Stabilized Polycarbonate or Opal UV-Stabilized Polycarbonate Vandal-Resistant Lens

MOUNTING OPTIONS:

Mount with Stainless Steel Adjustable Bracket or Yoke. Rated for 6 #12 AWG 90°C for Through Wiring.

LED:

Aluminum Boards; 187,000 Hours of L70 LED Life (25°C)

WATTAGE:

22w: Array: 22w, System: 26.4w; (70w HID Equivalent)
37w: Array: 37.2w, System: 43.4w; (175w HID Equivalent)

DRIVER:

Electronic Driver, 120-277V, 50/60Hz; Less Than 20% THD and PF>0.90. Standard Internal Surge Protection is 2kV for 22w, 6kV for 37w. 0-10V Dimming Standard for a Dimming Range of 100% to 10%; Dimming Source Current is 150 Microamps.

WARRANTY:

5-Year Warranty for -25°C to +40°C Environment.

See Page 3 for Projected Lumen Maintenance Table.

Project Information:

PROJECT NAME: _____ FIXTURE TYPE: _____

COMPLETE CATALOG#: _____ DATE: _____

COMMENTS: _____

Certification & Listings:



Class 1, Division 2
Groups A, B, C, D
T4 Temperature Rating

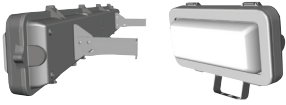




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ACCESSORIES & REPLACEMENT PARTS:



BIS1ABRSS*

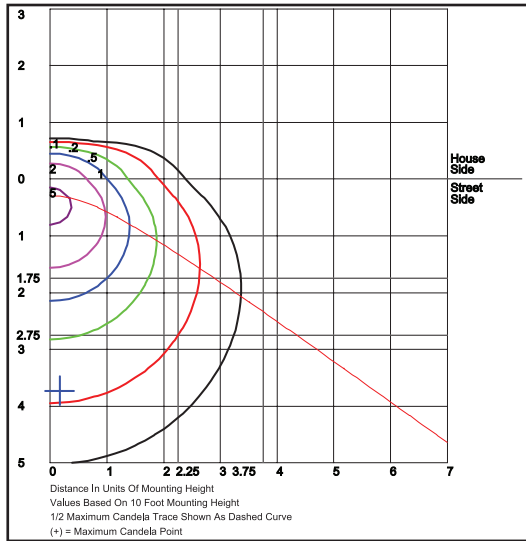
BIS1AYSS*

*Shown Mounted

Mounting Accessories (Order Separately, Field Installed)

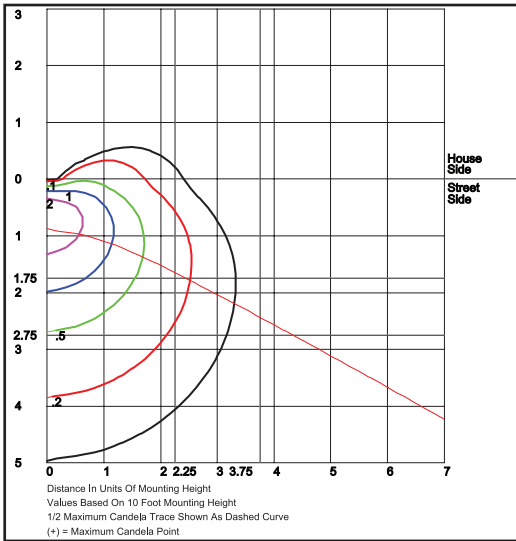
BIS1ABRSS	Stainless Steel Adjustable Bracket, Set of Two
BIS1AYSS	Stainless Steel Yokes for BIS1A, Includes Hardware.

PHOTOMETRIC DATA FOR WALL LIGHT APPLICATIONS



BIS1AHQF37U5KL
Opal Lens

Grid in MH
MH=10 Feet



BIS1AVQF37U5KL
Opal Lens

PHOTOMETRIC PERFORMANCE FOR WALL LIGHT APPLICATIONS

Grid in MH
MH=10 Feet

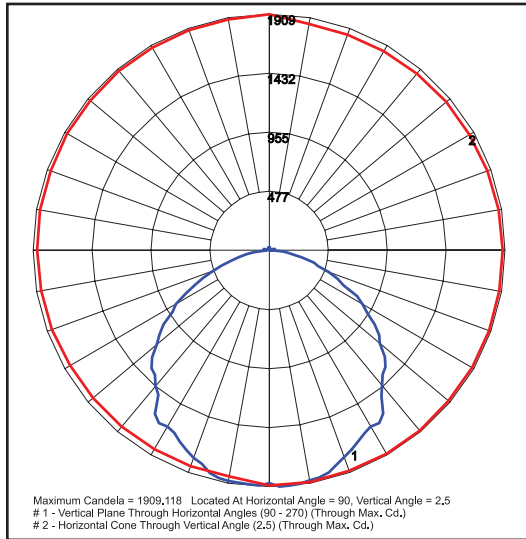
LED Board Watts	Drive Current (mA)	Input Watts	Optics	5000 CCT 80 CRI					4000 CCT 80 CRI				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
LED 22w (Clear Lens)	116	26	Horizontal Frame -Type III	3,126	120	1	2	1	3,001	115	1	2	1
LED 22w (Opal Lens)			Horizontal Frame -Type IV	2,369	91	1	3	2	2,274	88	1	3	1
LED 22w (Clear Lens)			Vertical Frame -Type III	3,305	127	1	2	1	3,172	122	1	2	1
LED 22w (Opal Lens)			Vertical Frame -Type III	2,705	104	1	3	1	2,597	100	1	3	1
LED 37w (Clear Lens)		43	Horizontal Frame -Type III	4,879	114	2	3	2	4,684	109	2	3	2
LED 37w (Opal Lens)			Horizontal Frame -Type IV	4,071	95	1	3	2	3,908	91	1	3	2
LED 37w (Clear Lens)			Vertical Frame -Type II	5,292	123	2	3	1	5,081	118	2	3	1
LED 37w (Opal Lens)			Vertical Frame -Type II	4,399	102	2	3	2	4,223	98	1	3	2



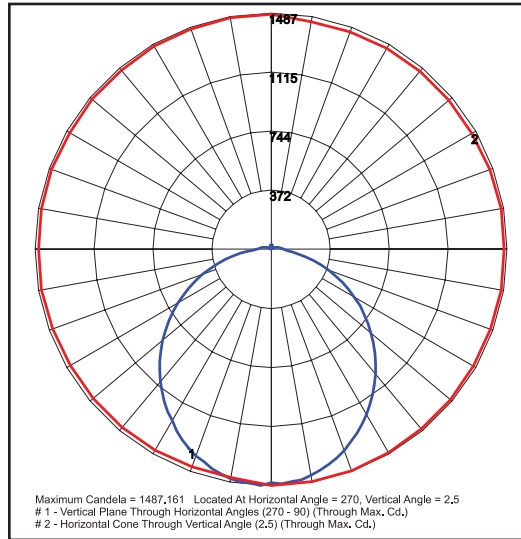
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LED 12" Linear LED Die Cast

PHOTOMETRIC DATA FOR CANOPY/CEILING LIGHT APPLICATIONS



BIS1AQF37U5KC
Clear Lens



BIS1AQF37U5KL
Opal Lens

PHOTOMETRIC PERFORMANCE FOR CANOPY/CEILING LIGHT APPLICATIONS

LED Board Watts	Drive Current (mA)	Input Watts	Optics	Spacing Criteria	5000 CCT 80 CRI		4000 CCT 80 CRI	
					Lumens	LPW	Lumens	LPW
LED 22w (Clear Lens)	116	26	Open Frame (110° x 110°)	1.34	3,332	128	3,199	123
LED 22w (Opal Lens)			Open Frame (110° x 120°)	1.26	2,945	113	2,828	109
LED 37w (Clear Lens)		43	Open Frame (110° x 110°)	1.26	5,538	129	5,316	124
LED 37w (Opal Lens)			Open Frame (110° x 120°)	1.26	4,948	115	4,750	111

PROJECTED LUMEN MAINTENANCE

Data shown for 5000 CCT			Compare to MH				
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated LED Life	
L70 Lumen Maintenance @ 25°C / 77°F	All wattages up to and including 43w	1.00	0.96	0.92	0.84	187,000	
L80 Lumen Maintenance @ 40°C / 104°F		1.00	0.94	0.88	0.79	84,000	

NOTES:

- Projected per IESNA TM-21-11. Data references the extrapolated performance projections for the 116mA base model in a 25°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.
- Compare to MH box indicates suggested Light Loss Factor (LLF) to be used when comparing to Metal Halide (MH) systems.