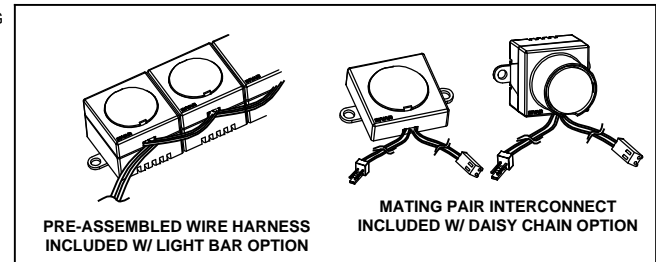
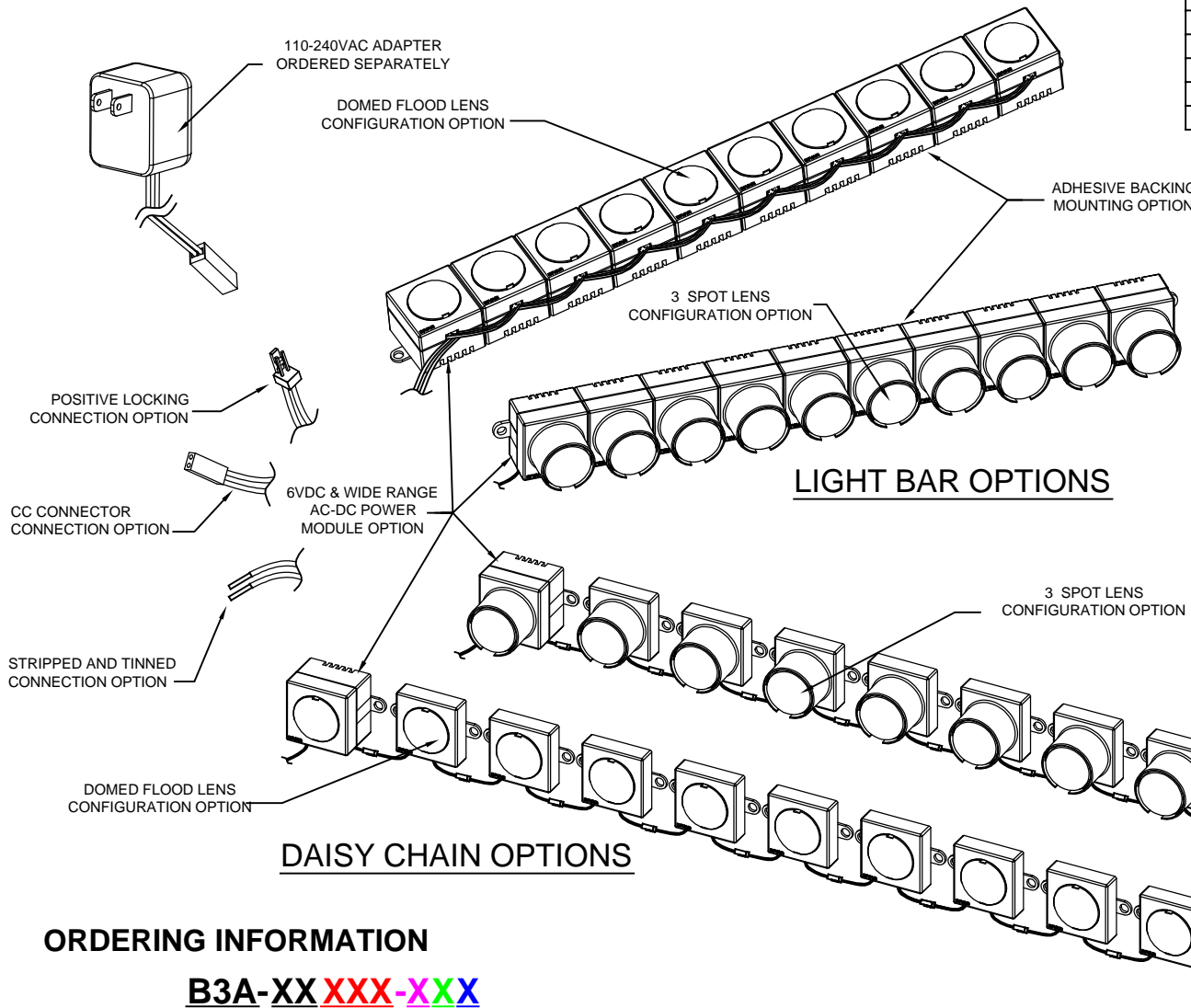


REV.	DESCRIPTION	DATE	APPROVED
A	Engineering Release.	04/12/06	M. C.
B	Pre-Production Release.	05/04/06	M. C.



Standard Stock Items:

B3A-04WHT-Q2S: White, 6V CC Lens, Male Connector & STD Mounting
B3A-04WHT-R2S: White, 6V Flood Lens, Male Connector & STD Mounting
B3A-02WHT-Y2S: White, WR/AC CC Lens, Male Connector & STD Mounting
B3A-02WHT-Z2S: White, WR/AC Flood Lens, Male Connector & STD Mounting

ORDERING INFORMATION

B3A-XX XXX-XXX

Family

Mounting Option, See Page 6

Connection Type 1-3, Table-III, see page 5

Configuration A - Z, Table-II, see page 4

LED Color Option, Table-I, see page 3



Number Of Lighting Blocks (2 ~ 10)

NOTES:

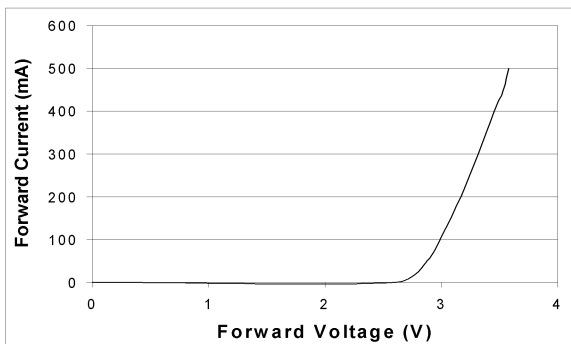
- Please use Custom P/N: CB3A-XXXX to order non-standard B3A products with special requirements.

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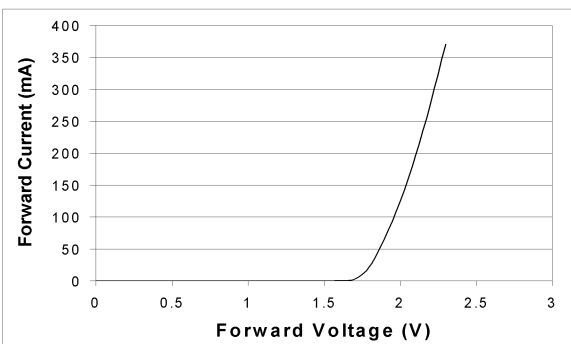
Patent Pending

STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED)		 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974	
<u>DECIMALS</u>	<u>ANGULAR</u>		
.X ± .1	X° ± 1°		
.XX ± .02			
.XXX ± .010			
DESIGNED: Ty Yin	DATE: 04/12/06	TITLE: B3 High Bright Block, Multiple Module	
		PART NO: B3A-XXXX-XXX	REVISION: B
CHECKED: M. Chen	DATE: 04/12/06	CAGE CODE : 32559	SHEET # 1 OF 6
CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING.			

* ELECTRICAL CHARACTERISTICS

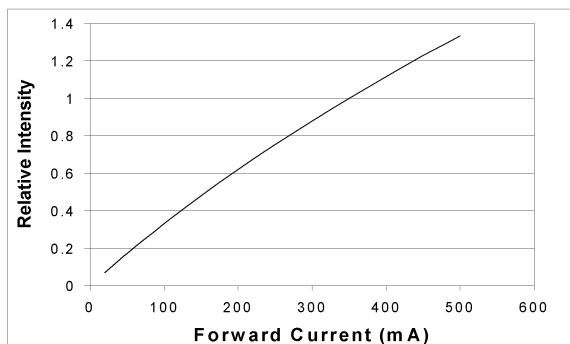


Blue / Green / White

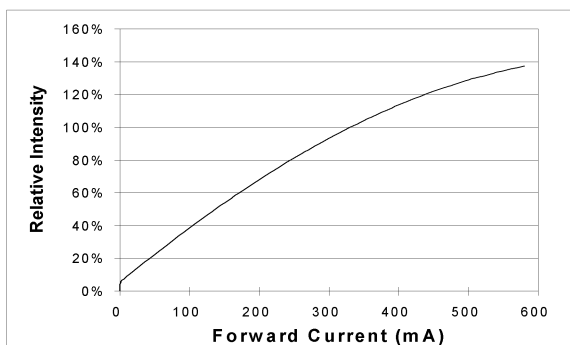


Amber / Red

* OPTICAL CHARACTERISTICS



Blue / Green / White



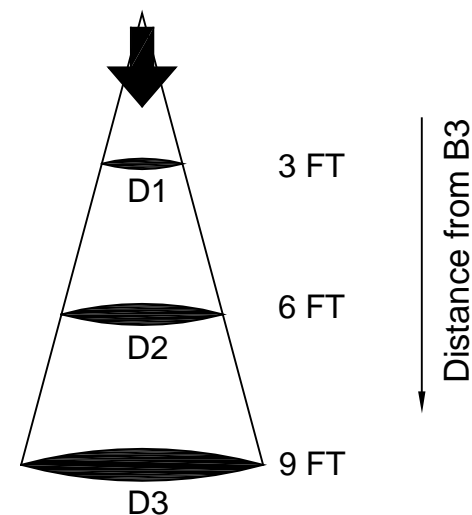
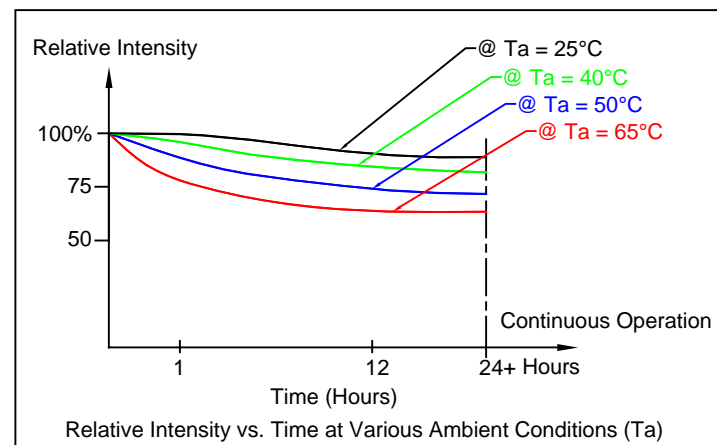
Amber / Red

* ILLUMINANCE DESIGN GUIDE

Configuration w/ White LED	Relative Intensity @ 3 ft.	Relative Intensity @ 6 ft.	Relative Intensity @ 9 ft.	Viewing Diameter D1 (in.)	Viewing Diameter D2 (in.)	Viewing Diameter D3 (in.)
A, E	12.0X	3.0X	1.3X	11	17	25
B, F	13.6X	3.4X	1.5X	10	16	23
C, G	14.4X	3.6X	1.6X	10	15	22
D, H	0.95X	0.95X	0.95X	36	65	93
Configuration w/ Colored LED	Relative Intensity @ 3 ft.	Relative Intensity @ 6 ft.	Relative Intensity @ 9 ft.	Viewing Diameter D1 (in.)	Viewing Diameter D2 (in.)	Viewing Diameter D3 (in.)
A, E	30.0X	5.0X	1.8X	8	14	22
B, F	32.0X	6.0X	2.0X	7	13	20
C, G	34.0X	7.0X	2.5X	7	12	19
D, H	0.95X	0.95X	0.95X	30	59	87

REV.	DESCRIPTION	DATE	APPROVED
	See Sheet #1 of 6.		

* THERMAL MANAGEMENT



ILLUMINANCE PATTERN

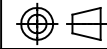
STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED)		BIVAR® 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974	
DECIMALS	ANGULAR		
DESIGNED: Ty Yin	DATE: 04/04/06	 TITLE: B3 High Bright Block, Multiple Module	
CHECKED: M. Chen	DATE: 04/04/06	PART NO: B3A-XXXX-XXX	REVISION: B
		CAGE CODE : 32559	SHEET # 2 OF 6
CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING.			

TABLE - I, LED COLOR OPTION & SPECIFICATIONS

REV.	DESCRIPTION	DATE	APPROVED
	See Sheet #1 of 6		

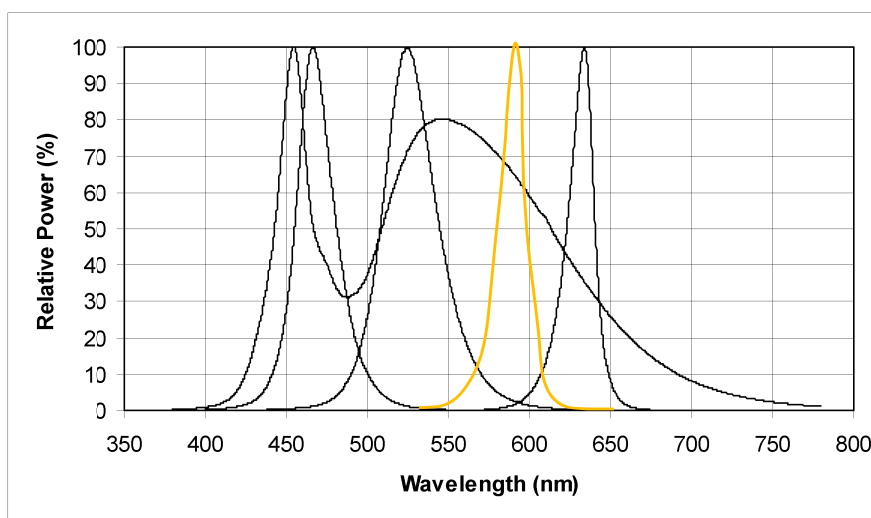
LED Part No.	Chip			Lens Appearance	Absolute Max. Rating			Electro-Optical Data @ 350mA				Viewing Angle 2θ ½	
	Material	Dominant Wave Length λd (nm)			Emitted Color	Pd (W)	If (mA)	<i>R</i> _{thjs} (C°/W)	Vf (V)		Lum. Flux (lm)		
		Min.	Max.						Typ.	Max.	Typ.		Max.
XL7090BLU-001	InGaN	465	475	Blue	Water Clear	1.6	400	17	3.3	4.0	19	30.6	100
XL7090GRN-001	InGaN	520	535	Green	Water Clear	1.6	400	17	3.3	4.0	52	67.2	100
XL7090AMB-001	AlInGaAlP	585	595	Amber	Water Clear	1.2	400	17	2.3	3.0	42	67.2	100
XL7090RED-001	AlInGaAlP	620	635	Red	Water Clear	1.2	400	17	2.3	3.0	40	51.7	100
XL7090WHT-001	InGaN	4500K	8000K	White*	Water Clear	1.6	400	17	3.3	4.0	52	67.2	100

Boundary Coordinates for White LED: X=0.279, Y=0.384
X=0.279, Y=0.284

X=0.348, Y=0.384
X=0.348, Y=0.284

* LED Color Options:

BLU = Blue
GRN = Green
AMB = Amber
RED = Red
WHT = White



ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

REVERSE VOLTAGE _____ 5V
REVERSE CURRENT (VR=5V) _____ 100μA
OPERATING TEMPERATURE RANGE _____ -25°C ~ 85°C
STORAGE TEMPERATURE _____ -25°C ~ 100°C
LED JUNCTION TEMPERATURE _____ 125°C

** NOTE: Special LED Bin Groups Available, Please refer to **LK-XXX-XXX-FC** Product Specification.



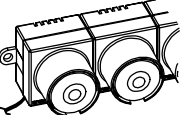

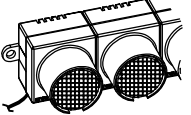
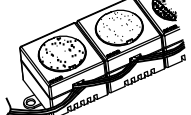
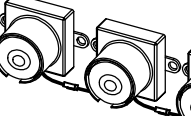
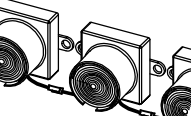
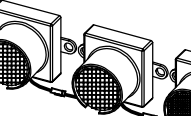
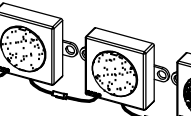


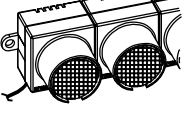
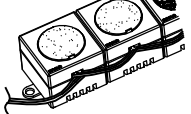
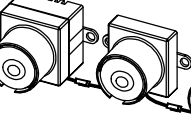
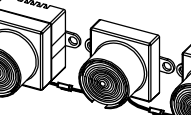
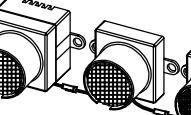
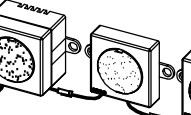


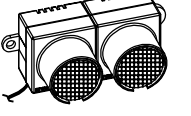
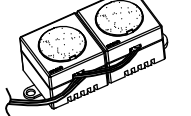
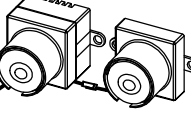
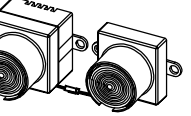
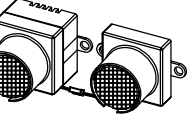
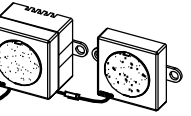
STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED) <u>DECIMALS</u> <u>ANGULAR</u>		<div></div> <div>4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974</div>	
<div></div>		TITLE: B3 High Bright Block, Multiple Module	
DESIGNED: Ty Yin	DATE: 04/04/06	PART NO: B3A-XXXX-XXX	REVISION: B
CHECKED: M. Chen	DATE: 04/04/06	CAGE CODE : 32559 SHEET # 3 OF 6	CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING.

TABLE - II, HOUSING AND LENS CONFIGURATIONS (A-Z)

REV.	DESCRIPTION	DATE	APPROVED
	See Sheet #1 of 6.		

 CONFIGURATION_A (Direct Drive / Fraen Spot Lens Light Bar Option)	 CONFIGURATION_B (Direct Drive / Cree Freznel Spot Lens Light Bar Option)	 CONFIGURATION_C (Direct Drive / Cree Checkered Spot Lens Light Bar Option)	 CONFIGURATION_D (Direct Drive / Dome Flood Lens Light Bar Option)
 CONFIGURATION_E (Direct Drive / Fraen Spot Lens Daisy Chain Option)	 CONFIGURATION_F (Direct Drive / Cree Freznel Spot Lens Daisy Chain Option)	 CONFIGURATION_G (Direct Drive / Cree Checkered Spot Lens Daisy Chain Option)	 CONFIGURATION_H (Direct Drive / Dome Flood Lens Daisy Chain Option)
 CONFIGURATION_J (6VDC Power Module with Fraen Spot Lens, Light Bar Option)	 CONFIGURATION_K (6VDC Power Module with Cree Freznel Spot Lens, Light Bar Option)	 CONFIGURATION_L (6VDC Power Module with Cree Checkered Spot Lens, Light Bar Option)	 CONFIGURATION_M (6VDC Power Module with Dome Flood Lens, Light Bar Option)
 CONFIGURATION_N (6VDC Power Module with Fraen Spot Lens, Daisy Chain Option)	 CONFIGURATION_P (6VDC Power Module with Cree Freznel Spot Lens, Daisy Chain Option)	 CONFIGURATION_Q (6VDC Power Module with Cree Checkered Spot Lens, Daisy Chain Option)	 CONFIGURATION_R (6VDC Power Module with Dome Flood Lens, Daisy Chain Option)
 CONFIGURATION_S (Wide Range AC-DC Power Module with Fraen Spot Lens, Light Bar Option)	 CONFIGURATION_T (Wide Range AC-DC Power Module with Cree Freznel Spot Lens, Light Bar Option)	 CONFIGURATION_U (Wide Range AC-DC Power Module with Cree Checkered Spot Lens, Light Bar Option)	 CONFIGURATION_V (Wide Range AC-DC Power Module with Dome Flood Lens, Light Bar Option)
 CONFIGURATION_W (Wide Range AC-DC Power Module with Fraen Spot Lens, Daisy Chain Option)	 CONFIGURATION_X (Wide Range AC-DC Power Module with Cree Freznel Spot Lens, Daisy Chain Option)	 CONFIGURATION_Y (Wide Range AC-DC Power Module with Cree Checkered Spot Lens, Daisy Chain Option)	 CONFIGURATION_Z (Wide Range AC-DC Power Module with Dome Flood Lens, Daisy Chain Option)

Number of Lighting Blocks: 2 ~ 18

B3A-02BLU-(A~H)xx ~ B3A-12BLU-(A~H)xx
B3A-02GRN-(A~H)xx ~ B3A-12GRN-(A~H)xx
B3A-02WHT-(A~H)xx ~ B3A-12WHT-(A~H)xx
B3A-02AMB-(A~H)xx ~ B3A-18AMB-(A~H)xx
B3A-02RED-(A~H)xx ~ B3A-18RED-(A~H)xx

Power Requirement:

350mA constant current with specified voltage, see page #3 for details.

Number of Lighting Blocks: 2 ~ 10

B3A-02BLU-(J~R)xx ~ B3A-06BLU-(J~R)xx
B3A-02GRN-(J~R)xx ~ B3A-06GRN-(J~R)xx
B3A-02WHT-(J~R)xx ~ B3A-06WHT-(J~R)xx
B3A-02AMB-(J~R)xx ~ B3A-10AMB-(J~R)xx
B3A-02RED-(J~R)xx ~ B3A-10RED-(J~R)xx

Power Requirement:

350mA constant current with specified voltages;

#/Block Color	2	3	4	5	6	7	8	9	10
Blue									
Green	9VDC	12VDC	15VDC	18VDC	24VDC	N/A			
White									
Amber	6VDC	9VDC	12VDC	15VDC	18VDC	24VDC			
Red									

Number of Lighting Blocks: 2

B3A-02xxx-(S~Z)xx

Power Requirement: 350mA constant current with wide rage voltages, 10 VAC/VDC ~ 30 VAC/VDC

NOTES:

- Configurations A~H are designed for Direct-Drive.
- Configurations J~R includes the built-in DC-DC Converters.
- Configurations S~Z includes the built-in Wide Range AC-DC Converters.
- 110 ~ 240VAC / 6 VDC-24VDC 400mA Adaptors available, ordered separately.


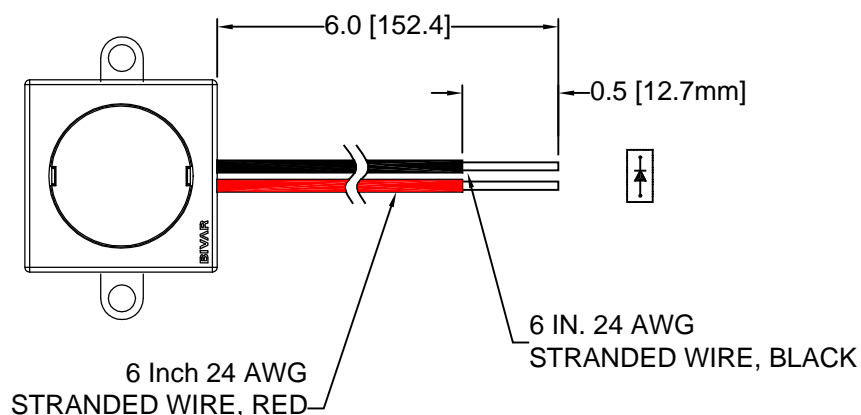
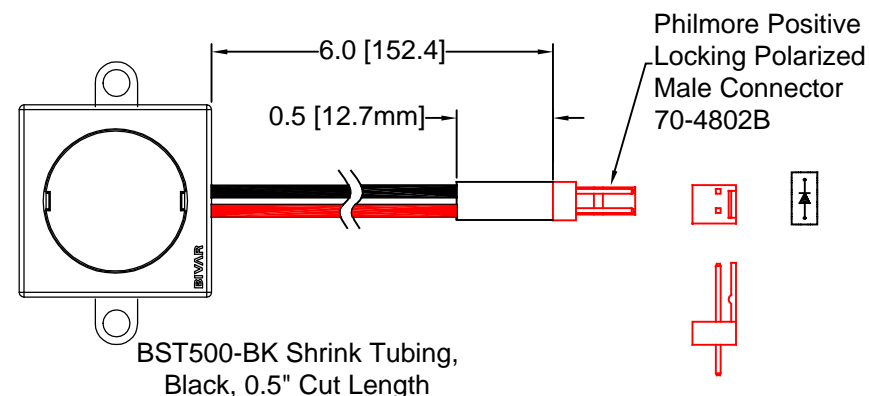
STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED)		 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974	
DECIMALS	ANGULAR		
DESIGNED: Ty Yin	DATE: 04/04/06	TITLE: B3 High Bright Block, Multiple Module	
CHECKED: M. Chen	DATE: 04/04/06	PART NO: B3A-XXXX-XXX	REVISION: B
		CAGE CODE : 32559	SHEET # 4 OF 6
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TABLE - III, CONNECTION TYPE (1-3)

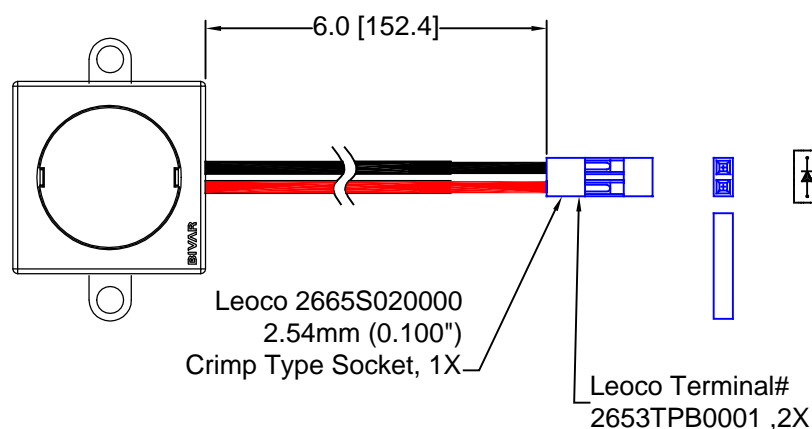
REV.	DESCRIPTION	DATE	APPROVED
	See Sheet #1 of 6.		



CONNECTION TYPE - 1
(1/2" STRIPPED AND TINNED WIRES)

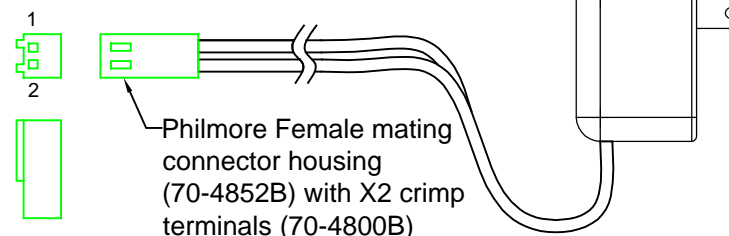


CONNECTION TYPE - 2
(POSITIVE LOCKING POLARIZED MALE CONNECTOR)



CONNECTION TYPE - 3
(0.100" PITCH CC CONNECTOR)

PIN#1 - NEGATIVE
PIN#2 - POSITIVE



110-240VAC, REGULATED, UL-RATED,
2-PRONG, 6 ft CABLE, WALL MOUNT ADAPTOR.
(ORDERED SEPARATED)

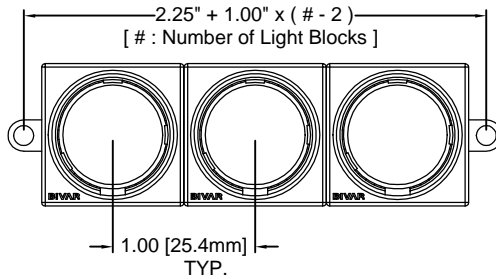
NOTES:

- All connection types applied to the first / master Light Block, with or without Power Module.
- Philmore Male Connectors (70-4802B) to be used with Power Adaptor.
- All Connectors and Terminals are included with Connection Types 2 & 3 and Adaptor.

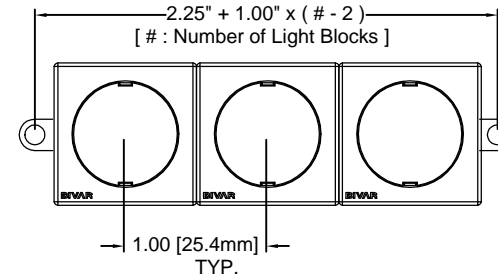
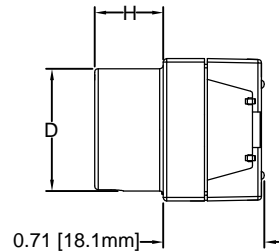
STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED)		<p>4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974</p>	
DECIMALS	ANGULAR		
DESIGNED: Ty Yin	DATE: 04/04/06	<p>TITLE: B3 High Bright Block, Multiple Module</p>	
CHECKED: M. Chen	DATE: 04/04/06	PART NO: B3A-XXXX-XXX	REVISION: B
		CAGE CODE : 32559	SHEET # 5 OF 6
CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING.			

MECHANICAL MEASUREMENTS

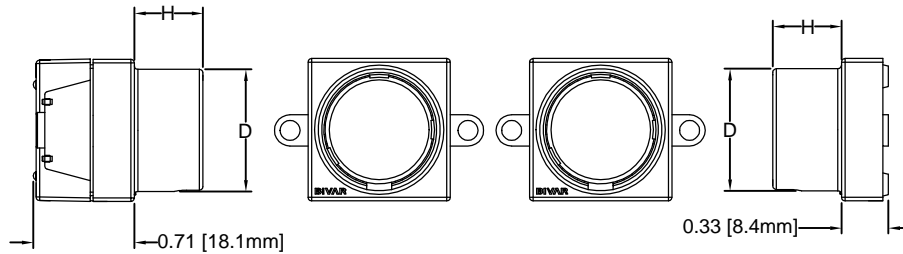
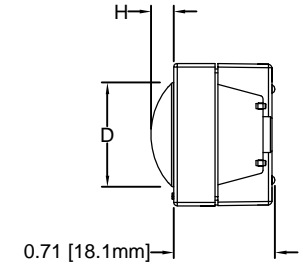
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	See Sheet #1 of 6.		



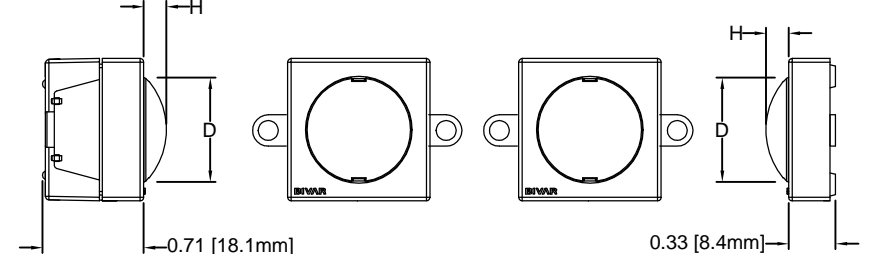
[CONFIGURATION_A, B, C, J, K, L, S, T, U]



[CONFIGURATION_D, M, V]

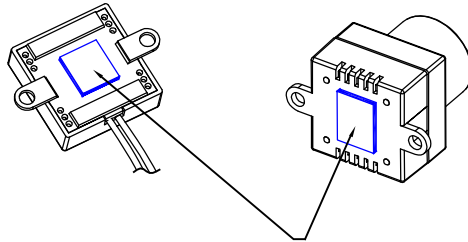


[CONFIGURATION_N, P, Q, W, X, Y]

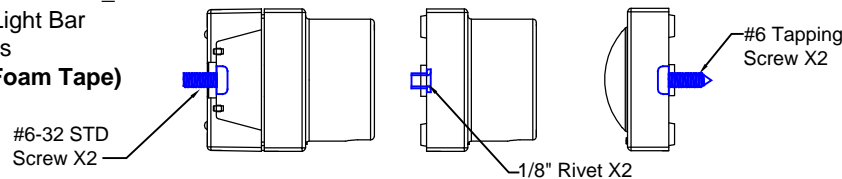


[CONFIGURATION_R, Z]

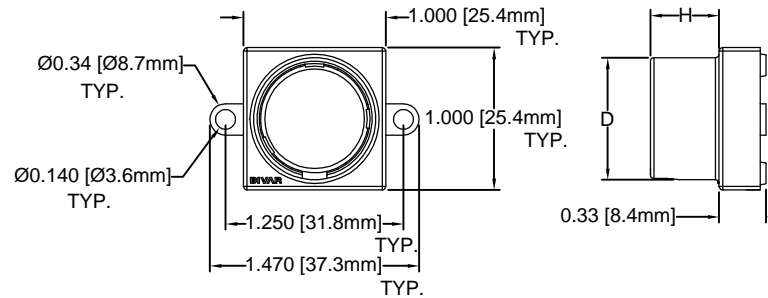
CONFIGURATION	H	D
A, E, J, N, S, W	0.483 [12.3mm]	0.858 [21.8mm]
B, C, F, G, K, L, P, Q, T, U, X, Y	0.550 [14.0mm]	0.820 [20.8mm]
D, H, M, R, V, Z	0.160 [4.1mm]	0.740 [18.8mm]



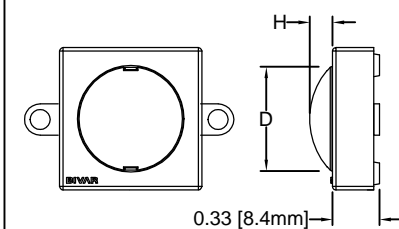
ADHESIVE BACKING MOUNTING OPTION_T
 1X / Each Light Block for both Light Bar
 and Daisy Chain Options
(3M 0.040" Thick Double Sided Foam Tape)



STANDARD MOUNTING OPTION_S (Hardware not included)
 2X / Bar for Light Bar Option 2X / Each Light Block for Daisy Chain Option



[CONFIGURATION_E, F, G]



[CONFIGURATION_H]

STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED) DECIMALS ANGULAR		BIVAR® 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974	
DESIGNED: Ty Yin	DATE: 04/04/06	TITLE: B3 High Bright Block, Multiple Module	
CHECKED: M. Chen	DATE: 04/04/06	PART NO: B3A-XXXX-XXX CAGE CODE : 32559	REVISION: B SHEET # 6 OF 6
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