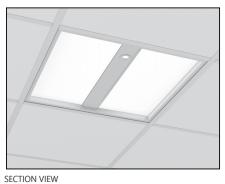
Multi-Function 2x2 | OVERBED RECESSED





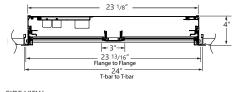


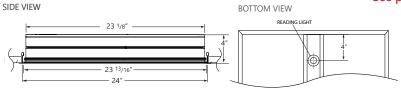
Project Type Notes

- BeWell light guide transitions from soft ambient to high powered exam to deliver multi-functional optics without segmented compartments, transition lines, or pixelation
- Reading light options: 3000K 4000K
- Ambient and exam CCTs: 3000K 4000K; Tunable White range is 2700K 5000K
- · Modular optical chamber with room-side access
- · Low profile design, housing only 4" deep
- · Compatible with common pillow speaker controls
- 2x4 also available

*See performance chart on page 7.

cULus Listed Type I.C.

























Ordering Guide

*Patent pending.

										i atent penanig.
	BCMF 22									
ı	PRODUCT ID SIZE		CRI		COLOR TEMP.				READING (OPT.)	
BCMF	Multi-Function Overbed	22	2'X2' (2000lm - ambient, 7800lm - ambient with exam)		80 CRI 90 CRI*	35 40 B30 B35 B40	3000 K 3500 K 4000 K 3000 K - BIOS* 3500 K - BIOS* 4000 K - BIOS* 2700-5000 K - T	Ambient mode only unable White**	RD35	3000K 3500K 4000K
	For Exam mode: Drivers ambient and exam are ON For ambient: Only ambient driver is ON		* Not avai	lable with BIOS	OS *Consult BIOS guide for more information on BIOS technology. Only available with 80 CRI. ** When TWQ750 is selected, Exam CCT is 3500K. Consult factory for Tunable White. Consult Axitune technical sheet for more information on color technology.			When Reading is selected a 3rd circuit is standard. Reading light CCT can differ from any color temp selected for ambient and exam functions.		

	FINISH VOLTAGE			DRIVER		CIRCUITS (OPT.)		
AMW	antimicrobial white*	120	120 V	DP	dimming (0-10V) 1%	+ E(#)	emergency section *	
W	white	277	277 V	LT	Lutron	+GTD(#)	generator transfer device *	
c	custom**	347	347 V	O(#)	other**			
		UNV	universal	DPB(#)	dimming (0-10V) 1% with BIOS*			
		DC	low voltage*	TW(#)	tunable white drivers (remote)*			
				POE(#)	POE drivers*			
* Standard finish **Consult for NSF					page 3 to specify system ase consult factory; see page 3		Standard 2 circuits without reading light or 3 circuits with reading light. * Specify quantity	

	LV CONTROLLER (OPT.)	ı	MOUNTING	BA	TTERY (OPT.)
LVC1	low voltage controller (Mode 1)	TB9	t-bar 9/16"	B(#)	battery pack
LVC2	low voltage controller (Mode 2)	TB15	t-bar 15/16"		
LVCD3	low voltage controller (Mode 3 step dim)	TG9	tegular 9/16"		
LVCD4	low voltage controller (Mode 3 smooth dim)	TG15	tegular 15/16"		
LVCD5	low voltage controller (Mode 4 step dim)	DF	drywall flange		
LVCD6	low voltage controller (Mode 4 smooth dim)				
Available wit	h DP driver single CCT options only				ilable with 347V onsult factory
Please consu	ılt factory			riease C	orisuit factory
	bility with control devices, such as pillow speaker handset. iagrams on page 5-6.				

Accessories ordered separately. See Accessories ordering guide.

Optical chamber available to order separately. See page 2.



Modular optical chamber is available as optional shelf stock for easy maintenance change-out; ordered separately.

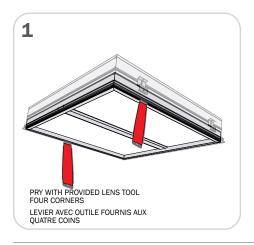
Optical Chamber Ordering Guide

	BCMF		OC22							
F	PRODUCT ID SIZE		CRI		COLOR TEMP.			READING (OPT.)		
BCMF	Multi-Function Overbed	OC22	optical chamber 2'X2' (2000lm-ambient, 7800lm-ambient with exam)		80 CRI 90 CRI*	35 40 B30 B35 B40	3000 K 3500 K 4000 K 3000 K - BIOS* 3500 K - BIOS* 4000 K - BIOS* 2700-5000 K - Tun	Ambient mode only	RD35	3000K 3500K 4000K
				* Not with B	available HOS	*Consult BIOS guide for more information on BIOS technology. Only available with 80 CRI. ** When TW2750 is selected, Exam CCT is 3500K. Consult factory for Tunable White. Consult Axitune technical sheet for more information on color technology.		Reading	eading is selected a 3rd circuit is standard. light CCT can differ from any color temp selected ent and exam functions.	

	NA			NA		NA	NA		
	FINISH		VOLTAGE		DRIVER		CIRCUITS (OPT.)	LVC (OPTIONAL)	
AMW	antimicrobial white*	NA	not applicable	NA	not applicable	NA	not applicable	NA	not applicable
W	white								
c	custom**								
* Standard **Consult f									
Consult	01 1451								

	NA		NA	NA		
	MOUNTING	BA	ATTERY (OPT.)	OTHER (OPT.)		
NA	not applicable	NA	not applicable	NA	not applicable	

Optical Chamber Replacement





Use part # BCLTL to order lens tool as an accessory

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Multi-Function 2x2 | OVERBED RECESSED

SPECIFICATIONS

Housing Extruded aluminum (0.065" nominal) **Central Housing** Extruded aluminum (0.065" nominal)

Side Lens 4mm PMMA light guides

Reflectors Post painted high reflectance white **Drywall Flange Kit** Extruded aluminum (0.060" nominal)

• ELECTRICAL

Lutron driver LDE1 - Hi-lume 1% EcoSystem with Soft-on, Fade-to-(remote only) Black

*Consult factory

Other drivers** **DALI** - Digital Addressable Lighting Interface

(remote only) **DMX** - Digital Multiplex

Xitanium SR - For wireless sensor

BIOS STC - BIOS control 0-10V with static spectrum and BIOS **DPB** drivers*

SkyBlue enabled from 100% to 1%.

DCA - DynamicCare™ for Axis; BIOS control 0-10V with dynamic spectrum and BIOS SkyBlue® with Bio-Dimming[™], which changes spectral qualities by removing the SkyBlue component when dimming from 100% to 51%, while light output remains relatively constant; CCT will decrease approximately 500K through bio-dimming; dimming from 50% to 1% will then reduce light output.

Tunable White TW drivers* (remote only)

DALIDT6 - DALI Type 6 (Two DALI Addresses) DALIDT8 - DALI Type 8 (One DALI Address)

Power over Ethernet MOLEX POE drivers* IGOR

(remote, consult **SMARTENGINE** factory for more O - Other (Consult factory)

information) UL2108 certified for integral or remote driver

Emergency Emergency battery pack (remote only) or emergency circuit optional.

Consult factory Input Voltage 120V, 277V, 347V (Remote driver only), UNV, DC.

*Choose driver from available options.

1 Incorporating these components may have limitations or affect the length of the luminaire. Please contact factory for more details.

STANDARD POWER FEED

Knockouts for BX cable connection are provided.

(BX CABLE BY OTHER)



■ WEIGHT

Standard 19 lbs / 8.6 kg **Drywall with Kit** 21 lbs / 9.6 kg

LED SYSTEM

CRI Minimum 80 or 90 color rendering index

options.

CRI BIOS Minimum 80 color rendering index with R9>75

for all CCTs.

CCT Single Color

Choice of 3000K, 3500K and 4000K color temperature with a great color consistency (within 3-step MacAdam ellipse). Both within

fixture and fixture to fixture.

CCT BIOS BIOS Static (STC) Choice of 3000K, 3500K and

4000K.

BIOS SkyBlue® DynamicCare™ for Axis (DCA) Choice of 3000K, 3500K, and 4000K with Bio-Dimming[™], which then reduces by 500K Consult BIOS guide for more information on

BIOS technology.

CCT Axitune Systems

Consult Axitune technical sheet for more information on color technology.

LED life

Minimum 50,000h with 85% of lumen maintenance in 25°C ambient temperature, in compliance with IES LM-80 testing

measurements.

Thermal Management Aluminum housing acting as the heat sink to

maximize life.

For all line voltage drivers, dry and damp Environment

rated for indoor use only in ambient operating temperature of -20° to $+40^{\circ}$ C (-4° to $+104^{\circ}$ F) For POE driver option, dry and damp rated for indoor use only in ambient operating temperature of 0° to +40°C (+32° to +104°F) Consult factory for temperature outside this

range.

APPROVALS

With product features that promote cleanability and durability, Axis Lighting meets functional and application-specific industry listings such as UL, Ingress Protection (IP) and National Sanitation Foundation (NSF) standards.

FINISH

Highly reflective, matte powder coat white paint for high efficiency. Matte texture to diffuse glare and lamp image on the surface within the optical chamber exterior. Custom finishes are also available.

WARRANTY

Limited 5-year warranty is available. Warranty is valid provided luminaires are installed and used according to specifications. For full terms and conditions, please consult warranty section at axislighting.com.

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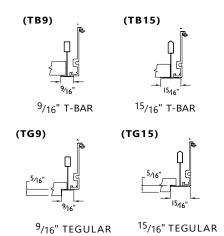
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• CEILING SYSTEM

T-BAR STYLE MOUNTING



1 Installation sheets for all mounting options are available at: www.axislighting.com

DRYWALL WITH FLANGE KIT (DF)





WITH WOOD FRAME WITHOUT WOOD FRAME DRYWALL MOUNTING KIT



FIXTURE DIMENSIONS

CUT HOLE DIMENSIONS 24 7/16"/24 7/16"

• LIGHT DISTRIBUTION ZONE CHART

OVERBED GENERAL AMBIENT



Ambient - diffuse lighting for general conversation and movement around the patient bed, recommendation is 100-200 lux at floor for area surrounding bed, 4:1 avg:min uniformity.

OVERBED EXAM



Exam – requires excellent color rendering to evaluate a patient's condition; sufficiently high, uniform light levels focused on the bed area for examination of patients from head to foot. Provides recommended 500-1000 lux at 36" AFF, 2:1 avg:min uniformity.

OVERBED READING



Reading - focused light onto a 450 inclined plane, recommendation is 400-800 lux on horizontal when patient is in elevated reading position, 3:1 avg:min uniformity.

NIGHT CHECK

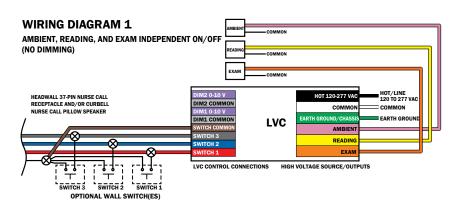


Night check - light levels dimmed low enough for staff to check on patients during the night without waking them from sleep, recommendation is 30 lux at 36" above finished floor (AFF).

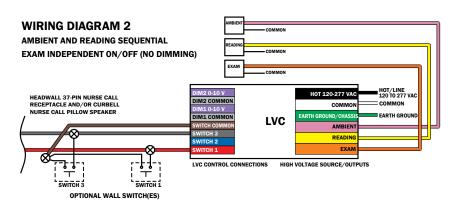
• LOW VOLTAGE CONTROLLERS - CONFIGURATIONS

		MODE #1 (DEFAULT)	MODE #2	MOD	E #3	MODE #4		
		Ambient Light and Reading Light	Ambient Light and Reading Light		ming, Reading Light /OFF), Exam Light		nd Reading Light Exam Light	
		Independent (ON/ OFF), Exam Light LVC1 Option	Sequential, Exam Light LVC2 Option	Step Dimming (one direction) LVCD3 Option	Smooth Dimming (two direction) LVCD4 Option	Step Dimming (one direction) LVCD5 Option	Smooth Dimming (two direction) LVCD6 Option	
	First Toggle	Ambient ON	Ambient ON, Reading Light OFF	Ambient ON, Full brightness	First toggle:	Ambient ON, Full brightness dimming	First toggle:	
	Second Toggle	Ambient OFF	Ambient OFF, Reading Light ON	Ambient ON, Approx. 60% (4 VDC) brightness	Ambient ON, dim level set to Approx. 100% brightness	Ambient ON, Approx. 60% (4 VDC) brightness	Ambient ON, dim level set to Approx. 100% brightness Subsequent sustained presses:	
Toggling Switch 1 (Pillow Speakers, wall switch) affects Ambient Light as follows:	Third Toggle	-	Ambient ON, Reading Light ON	Ambient ON, Approx. 30% (1.37 VDC) brightness	Subsequent sustained presses:	Ambient ON, Approx. 30% (1.37 VDC) brightness		
15.115.115.1	Fourth Toggle	-	Ambient OFF, Reading Light OFF	Ambient ON, Approx. 10% (0.8 VDC) brightness	smooth dimming* Second toggle:	Ambient ON, Approx. 10% (0.8 VDC) brightness	smooth dimming* Second toggle:	
	Fifth Toggle	-	-	Ambient OFF	Ambient OFF	Ambient OFF	Ambient OFF	
	First Toggle	Reading Light ON	-	Reading ON	Reading ON	Reading ON, Full brightness	First toggle:	
	Second Toggle	Reading Light OFF	-	Reading OFF	Reading OFF	Reading ON, Approx. 60% (4 VDC) brightness	Reading ON, dim level set to Approx. 100% brightness Subsequent sustained presses:	
Toggling Switch 2 (Pillow Speakers, wall switch) affects Reading Light as follows:	Third Toggle	-	-	-	-	Reading ON, Approx. 30% (1.37 VDC) brightness		
150000	Fourth Toggle	-	-	-	-	Reading ON, Approx. 10% (0.8 VDC) brightness	smooth dimming* Second toggle:	
	Fifth Toggle	-	-	-	-	Reading OFF	Reading OFF	
Toggling Switch 3 (Pillow Speakers, wall	First Toggle	Ambient and Exam maximum brightness	Ambient and Exam maximum brightness	Ambient and Exam maximum brightness	Ambient and Exam maximum brightness	Ambient and Exam maximum brightness	Ambient and Exam maximum brightness	
switch) affects Exam Light as follows:	Second Toggle	Ambient returns to previous setting, Exam OFF	Ambient returns to previous setting, Exam OFF	Ambient returns to previous setting, Exam OFF				

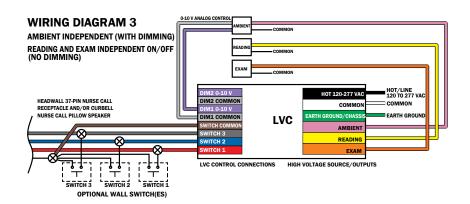
LOW VOLTAGE CONTROLLERS WIRING DIAGRAMS



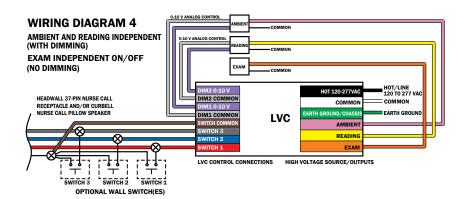
1. LVC Mode 1 (independent ON/OFF no dimming, EXAM mode on switch 3) DEFAULT mode.



2. LVC Mode 2 (sequential ON/OFF no dimming, EXAM mode on switch 3)



- 3. LVCD Mode 3 step dimming (Ambient dimming, Reading Light ON/OFF, EXAM mode on switch 3)
- 4. LVCD Mode 3 smooth dimming (Ambient dimming, Reading Light ON/OFF, EXAM mode on switch 3)

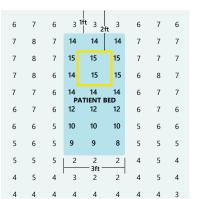


- 5. LVCD Mode 4 step dimming (Ambient and Reading Light dimming, EXAM mode on switch 3)
- 6. LVCD Mode 4 smooth dimming (Ambient and Reading light dimming, EXAM mode on switch 3)



• RECOMMENDED LAYOUT PHOTOMETRICS SPREAD

The following illustrations depict calculations performed at 9' ceiling height, and meet recommended industry standards for illuminance and uniformity. Ambient Exam



Ambient	A۱	/g	Avg:Min
	fc	lux	
Bed	12.6	135.8	1.6
Floor	5.2	55.9	2.6
Eye (vert)	9.1	99.3	1.5

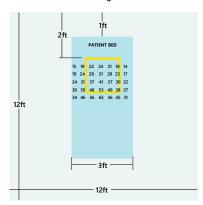
^{*}Vertical plane at head of bed

23	26	23	12 1	ft ₁₀	ft ¹⁰	11	23	26
27	30	26	56	57	56	26	29	26
28	31	26	58	58	58	26	29	26
28	30	25	57	57	57	26	30	26
27	29	24	52	54	52	25	29	26
25	27	22		FIENT B 48	48	23	27	24
24	25	21	41	41	41	21	24	22
22	23	19	24	24	22	18	21	18
19	21	18	9	8 3ft	8	17	19	17
18	19	17	10	9			18	16
15	17	16	15	14	14	15	16	13

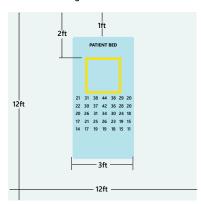
Exam	A۱	Avg:Mir	
	fc	lux	
Bed	49.6	533	1.5
Floor	20.5	218.5	2.6
Eye (vert)*	36.2	388	1.6

^{*}Vertical plane at head of bed

Reading Flat

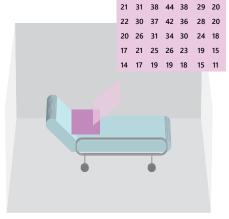


Reading 45° Inclined Plane



19 24 28 31 28 23 17 24 31 37 41 37 30 22 30 39 48 55 49 38 27 34 46 56 65 56 45 31				24	21	18	14	
30 39 48 55 49 38 27								
34 46 56 65 56 45 31								
	34	40	30	0.5	30	43	31	
							_	
				Ø	L			
				1				
						I		
						_		

Flat horizontal plane (2' x 3')



Raised Bed w 45° inclined reading plane (2'X3')

BCMF Reading Light

Luminaire at 2'-0" from headwall Light at 2'-4" from headwall

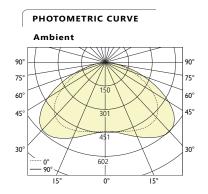
	A۱	vg	Avg:Min
	fc	lux	_
Flat Bed	33	353	2.34
45° Inclined Plane	25	268	2.28

PERFORMANCE AT 3500K

FUNCTION	NOMINAL LUMEN OUTPUT	INPUT WATTS*	EFFICACY	Estd. L85 LED Life (hrs.)
AMBIENT	2000 lm	23.2 W	86.2 lm/W	50000, min
AMBIENT & EXAM	7796 lm	85 W	92.2 lm/W	50000, min
READING*	1366 lm	13.66 W	100 lm/W	50000, min

Please consult factory for custom lumen output and wattage.

PHOTOMETRIC DATA



Luminaire Lumens: 2000 lm Input Watts: 23.2W Efficacy: 86.2 lm/W

IES FILE: BCM-22-2000-80-35-W-120-D.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION							
	Horizontal Angles						
Vertical Angle	0 22.5 45 67.5 90						
0	444	444	444	444	444		
5	445	445	446	446	447		
15	459	460	466	474	477		
25	478	483	501	520	529		
35	489	500	530	565	584		
45	466	482	522	571	598		
55	382	397	436	487	517		
65	251	260	288	323	345		
75	123	127	138	152	163		
85	31	31	31	29	29		
90	1	2	2	2	3		

ZONAL LUMENS					
Lumens					
Zone					
0					
0-10	43				
10-20	134				
20-30	234				
30-40	335				
40-50	403				
50-60	388				
60-70	283				
70-80	146				
80-90	35				
90					

LUMINANCE DATA (cd/m²)				
	Horizontal Angles			
Vertical Angle	0	45	90	
45	1958	2193	2515	
55	1980	2261	2677	
65	1768	2024	2424	
75	1414	1589	1870	
85	1052	1052	986	

PHOTOMETRIC CURVE	
Ambient & Exam	
90°	
75°	
60°	
45° 1168 45°	
1752	
30°	
0° / 2336	
-90° \	
15° 0° 15°	

Luminaire Lumens: 7796 lm Input Watts: 85 W Efficacy: 92.2 lm/W

IES FILE: BCM-22-5800-80-35-W-120-D-2.IES.ies

TESTED ACCORDING TO IES LM-79-2008

	Horizontal Angles					
Vertical Angle	0	22.5	45	67.5	90	
0	1744	1744	1744	1744	1744	
5	1752	1753	1755	1758	1758	
15	1807	1814	1836	1865	1878	
25	1883	1904	1967	2041	2077	
35	1927	1966	2074	2207	2278	
45	1837	1888	2027	2210	2317	
55	1506	1549	1681	1863	1980	
65	994	1016	1103	1227	1312	
75	491	495	531	581	619	

121

121

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122

CANDELA DISTRIBUTION

ZONAL LUMENS				
Lumens				
Zone				
0				
0-10	169			
10-20	525			
20-30	917			
30-40	1309			
40-50	1569			
50-60	1504			
60-70	1097			
70-80	566			
80-90	141			
90				

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LOWI	NANCE DATA (cd/m²) Horizontal Angles			
Vertical Angle	90			
45	7718	8517	9736	
55	7804	8709	10257	
65	6986	7753	9224	
75	5632	6091	7107	
85	4341	4108	4167	

All IES files are available for download at: www.axislighting.com

85

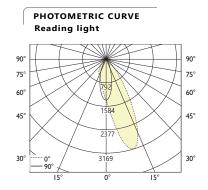
127

^{*} Reading Light at 3000K.

Multi-Function 2x2 | OVERBED RECESSED

1

PHOTOMETRIC DATA



Luminaire Lumens: 1366 lm Input Watts: 13.66 W Efficacy: 100 lm/W

IES FILE: BCM-22-80-35-RD-W-120-D-2.ies

90

TESTED ACCORDING TO IES LM-79-2008

CANI	CANDELA DISTRIBUTION							
	Horizontal Angles							
Vertical Angle	0	0 22.5 45 67.5 90						
0	1391	1391	1391	1391	1391			
5	1915	1786	1585	1402	1267			
15	3136	2379	1454	941	701			
25	2472	1647	869	468	270			
35	1017	721	417	186	121			
45	327	265	163	72	55			
55	106	92	64	30	32			
65	31	29	25	18	19			
75	12	12	11	10	10			
85	3	3	3	2	3			

ZONAL LUMENS					
Lumens					
Zone					
0					
0-10	131				
10-20	354				
20-30	387				
30-40	253				
40-50	130				
50-60	66				
60-70	29				
70-80	12				
80-90	3				
90					

LUMINANCE DATA (cd/m²)					
	Horizontal Angles				
Vertical Angle	0	45	90		
45	451132	224370	76062		
55	180796	109651	55009		
65	72083	57400	43966		
75	46043	40073	39586		
85	35795	29960	29176		

Product design and development is an ongoing process at

Axis Lighting. We reserve the right to change specifications. Contact Axis for the latest product information.

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