

Sketch 2

SURFACE OVERBED



Project _____

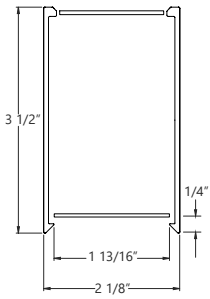
Type _____

Notes _____

● PERFORMANCE PER LINEAR FOOT AT 3500K, 90CRI

	NOMINAL LUMEN OUTPUT DIRECT	INPUT WATTS*	EFFICACY
Sketch 2	1100lm/ft	9.85 W/ft	112 lm/W

Please consult factory for other lumen output and wattage.



Ordering Guide

Example: BCSK2OBS-2ARC(48", 30)-AL(9'8")-1000-90-35-SO-AMW-120-DP-E(1)-DF

Accessories ordered separately.
See Accessories ordering guide.

BCSK2OBS									
PRODUCT ID		PATTERNS AND FORMS		TOTAL LENGTH, CORNER QTY.		LUMENS/FT		CRI	
BCSK2OBS	Sketch 2 Surface Overbed	2ARC(R,Deg.)	double arc (radius, degrees)	AL(X'XX")	specify total linear length in feet	300	300 lm/ft- Low	90	high
		ARC(R, Deg.)	arc (radius, degrees)		(2 ft minimum)	1100	1100 lm/ft - High		efficacy
		OV(LxL)	oval (length x width)	+INT(#)	intersection (qty.)				90 CRI
		CIR(R)	circle (radius)	+CRN(#)	sharp corner (qty.)				
		SSQ(L, R)	soft square (length, radius)*						
		SR (LxL, R)	soft rectangle (length x width, radius)*						
		LIN(L)	linear (length)						
		FF(#)	free form pattern (project reference #)**						
		See page 3 for ordering examples. * 2 foot minimum straight sections. **Please provide pattern drawing, and specify project reference number. Shape may change slightly to eliminate dark spots. Factory is available for assistance. Various 2, 3 and 4 leg fully lit intersections and regular lit corners (min 45 degrees) available.					Outputs between listed are available. Consult factory for outputs outside of the listed range.		

COLOUR TEMP.		SHIELDING		FINISH		VOLTAGE		DRIVER	
27	2700 K	SO	spotless lens	AMW	antimicrobial white*	120	120V	DP	dimming (0-10V) 1% - integral
35	3500 K			C	custom**	277	277V	DALI2	driver DALI 2.0 Type 6 - integral
30	3000 K					347	347V*	LT(#)	Lutron - remote*
40	4000 K					UNV	universal	O(#)	other - remote**
TW2750	2700-5000 K - Tunable White					DC	low voltage**	O(DMX)	other (Digital Multiplex)- remote**
TW2765	2700-6500 K - Tunable White							TW(#)	tunable white drivers*
								POE(#)	POE drivers - remote*
						* Remote only. ** Only available with POE drivers.		* Specify system; see page 2. **Please consult factory; see page 2	

EMERGENCY (OPT.)		LV CONTROLLER (OPT.)		MOUNTING		REMOTE BATTERY (OPT.)		OTHER (OPT.)		CUSTOM (OPT.)	
GTD(1)	generator transfer device*	LVC1	low voltage controller (Mode LVC1)	DF	drywall flange	BR(#)	battery pack remote	FW	flex whip (6' std)*	C	custom
+E(1)	emergency section *	LVC2	low voltage controller (Mode LVC2)	DS	drywall spackle flange	B(#)	battery pack integral*	CP	Chicago plenum		
		LVC3	low voltage controller (Mode LVC3 step dim)								
		LVC4	low voltage controller (Mode LVC4 smooth dim)								
		LVC5	low voltage controller (Mode LVC5 step dim)								
		LVC6	low voltage controller (Mode LVC6 smooth dim)								
		LVC7	low voltage controller (Mode LVC7 step dim)								
		LVC8	low voltage controller (Mode LVC8 smooth dim)								
* Only available with LV Controller option.		Available with DP driver single CCT options only Not available with 347V Please consult factory For compatibility with control devices, such as pillow speaker handset. See wiring diagrams on page 3-4.				*4 foot length minimum and 36" radius minimum		* Other lengths available; please consult factory.		Please specify	

CONSTRUCTION

Housing	Extruded aluminum (0.075" nominal)
Interior reflectors	Sheet aluminum (20 gauge)
Mounting brkts.	Die cast aluminum (0.10" nominal)
Joining brackets.	Die cast aluminum (0.10" nominal)
Incap & Cross Brkt.	Die cast aluminum (0.10" nominal)

ELECTRICAL

DP driver	integral DP driver. 0-10V 1% dimming standard.
DALI2 driver	integral DALI driver. DALI 2.0 D4i certified driver.
Lutron driver* (Remote)	LDE1 - EcoSystem H-Series (1%)
Other drivers* (Remote)	DMX - Digital Multiplex Xitanium SR - For wireless sensor *Consult factory
Tunable White TW drivers*	DALIDT6 - DALI Type 6 (Two DALI Addresses) DALIDT8 - DALI Type 8 (One DALI Address) DPTW - two channel 0-10V dimming: one channel for brightness, one channel for CCT. LDTW - Lutron DALI Type 8 (One DALI address) Tunable White series
Power over Ethernet POE drivers* (consult factory for more information) UL2108 certified for remote driver	MOLEX IGOR SMARTENGINE O - Other (Consult factory)
Emergency*	Remote emergency battery pack or emergency circuit optional. *Consult factory
Input Voltage	120V, 277V, 347V, UNV, DC.

i Incorporating these components may have limitations or effect the length of the luminaire, please contact factory for more details.

SHEILDING

Spotless Lens	Acrylic (0.06" thick).
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FINISH

Highly reflective, white powder coat finish 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.

WEIGHT

Approximately 1.75lbs/ft = 0.8kg/ft (linear)

LED SYSTEM

CRI	High efficacy 90 color rendering index.
CCT Single Color	Choice of 2700K, 3000K, 3500K and 4000K color temperature with a great color consistency (within 3-step MacAdam ellipse). Both within fixture and fixture to fixture.
LED life	Minimum 50,000h with 85% of lumen maintenance in 25°C ambient temperature, in compliance with IES LM-80 testing measurements.
CCT Axitune Systems	Consult Axitune technical sheet for more information on color technology.
Thermal Management	Aluminum housing acting as the heat sink to maximize life.
Environment	Dry and damp rated in operating ambient temperatures of 0-40°C (32-104°F).

APPROVALS

Certified to CSA standards 
Meets NYC requirements
Suitable for damp locations, indoor only.

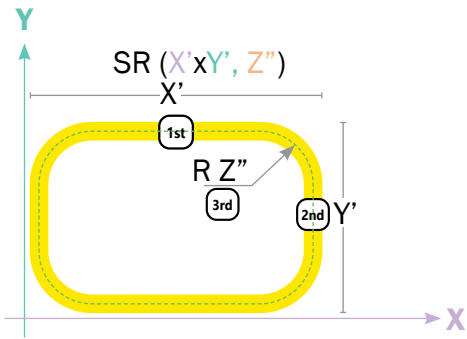
WARRANTY

Axis Lighting will warrant defective LEDs, boards, and drivers for 5 years from date of purchase. Warranty is valid if luminaire is installed and used according to specifications. If defective, Axis will send replacement boards or drivers at no cost along with detailed replacement instructions and instructions on how to return defective components to Axis.

How to Specify Standard Forms

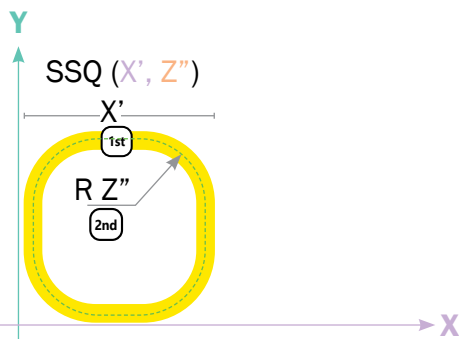
Note: The center line indicates the diameter at the center of the curve. Regardless to the mounting style, the center line remains the same. This is the dimension that should be used when planning a layout.

Defining SR - Soft Rectangle shape



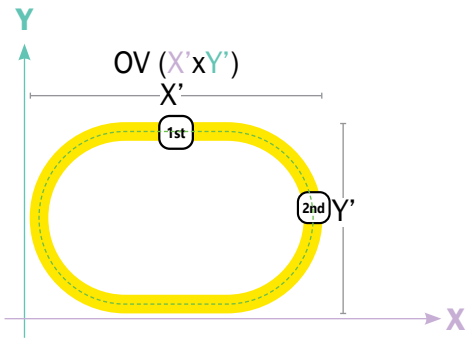
Note: The first number will always define the length, the second - the width. Third number will define the radius of the corner curvature.

Defining SSQ - Soft Square shape



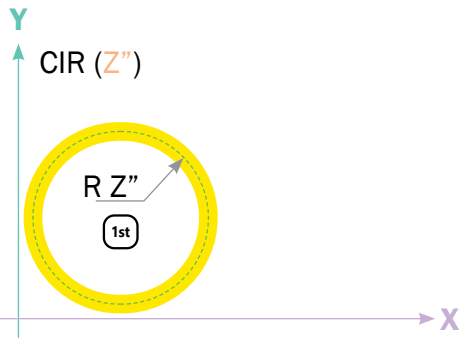
Note: The first number will define the length. (All sides are the same length). The second number will define the radius of the corners curvature.

Defining OV - Oval shape



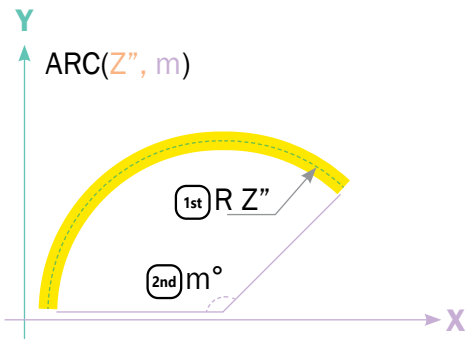
Note: The first number will always define the length. Second number will define the width of the oval shape.

Defining CIR - Circular shape



Note: The number will define the radius of the circle.

Defining ARC - Arc shape



Note: The first number will define the radius of the circle. The second number will define desired arc degree

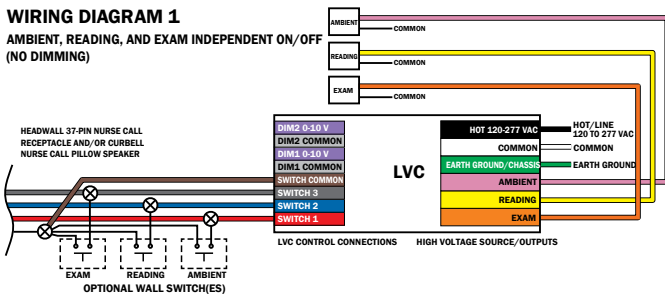
RADIUS	
R12	12 inch radius
R24	24 inch radius
R30	30 inch radius
R48	48 inch radius
R60	60 inch radius
R72	72 inch radius
R84	84 inch radius
R(XX'')	any radius above 12"
Sketch 2 is designed to accomodate any curve radius over 12 inches. Pattern drawing is required. Factory is available for assistance.	

		AMBIENT and READING Light Independent ON / OFF, EXAM Light	AMBIENT and READING Light Sequential ON / OFF, EXAM Light	AMBIENT Light Dimming, READING Light Independent ON/OFF, EXAM Light		AMBIENT and REDING Light Dimming, EXAM Light		Ambient Light and Reading Light Dimming, Exam Light NIGHT Mode on AMBIENT Light	
				Step Dimming (one direction)	Smooth Dimming (two directions)	Step Dimming (one direction)	Smooth Dimming (two direction)	Step Dimming (one direction)	Smooth Dimming (two direction)
		LVC1 Option	LVC2 Option	LVC3 Option	LVC4 Option	LVC5 Option	LVC6 Option	LVC7 Option	LVC8 Option
Toggle Switch AMBIENT (Pillow Speakers, wall switch) affects AMBIENT Light as follows:	First Toggle	Ambient ON	Ambient ON, Reading OFF	Ambient ON, Full brightness	First toggle: Ambient ON, dim level set to approx. 100% brightness	Ambient ON, Full brightness	First toggle: Ambient ON, dim level set to approx. 100% brightness	Ambient ON, Full brightness	First toggle: Ambient ON, dim level set to approx. 100% brightness
	Second Toggle	Ambient OFF	Ambient OFF, Reading ON	Ambient ON, approx. 60% brightness		Ambient ON, approx. 60% brightness		Ambient ON, approx. 60% brightness	
	Third Toggle	-	Ambient ON, Reading ON	Ambient ON, approx. 30% brightness	Subsequent sustained press: smooth Dimming	Ambient ON, approx. 30% brightness	Subsequent sustained press: smooth Dimming	Ambient ON, approx. 30% brightness	Subsequent sustained press: smooth Dimming
	Fourth Toggle	-	Ambient OFF, Reading OFF	Ambient ON, approx. 10% brightness		Ambient ON, approx. 10% brightness		Ambient ON, approx. 10% brightness	
	Fifth Toggle	-	-	Ambient OFF	Second toggle: Ambient OFF	Ambient OFF	Second toggle: Ambient OFF	Ambient OFF	Second toggle: Ambient OFF
Toggle Switch READING (Pillow Speakers, wall switch) affects READING Light as follows:	First Toggle	Reading ON	-	Reading ON	Reading ON	Reading ON, Full brightness	First toggle: Reading ON, dim level set to approx. 100% brightness	Reading ON, Full brightness	First toggle: Reading ON, dim level set to approx. 100% brightness
	Second Toggle	Reading OFF	-	Reading OFF	Reading OFF	Reading ON, approx. 60% brightness		Reading ON, approx. 60% brightness	
	Third Toggle	-	-	-	-	Reading ON, approx. 30% brightness	Subsequent sustained press: smooth Dimming	Reading ON, approx. 30% brightness	Subsequent sustained press: smooth Dimming
	Fourth Toggle	-	-	-	-	Reading ON, approx. 10% brightness		Reading ON, approx. 10% brightness	
	Fifth Toggle	-	-	-	-	Reading OFF	Second toggle: Reading OFF	Reading OFF	Second toggle: Reading OFF
Toggle Switch NIGHT (Pillow Speakers, wall switch) affects AMBIENT Light as follows:	First Toggle	-	-	-	-	-	-	Ambient ON with NIGHT Mode, Exam OFF	Ambient ON with NIGHT Mode, Exam OFF
	Second Toggle	-	-	-	-	-	-	Ambient OFF	Ambient OFF
Toggle Switch EXAM (Pillow Speakers, wall switch) affects AMBIENT & EXAM Lights as follows:	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	Ambient and Exam maximum brightness	Ambient and Exam maximum brightness
	Second Toggle	Ambient returns to previous state, Exam OFF	Ambient returns to previous state, Exam OFF	Ambient returns to previous state, Exam OFF	Ambient returns to previous state, Exam OFF	Ambient returns to previous state, Exam OFF	Ambient returns to previous state, Exam OFF	Ambient returns to previous state, Exam OFF	Ambient returns to previous state, Exam OFF

● LOW VOLTAGE CONTROLLERS WIRING DIAGRAMS

WIRING DIAGRAM 1

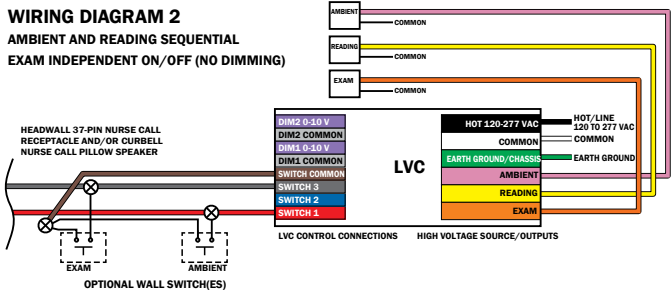
AMBIENT, READING, AND EXAM INDEPENDENT ON/OFF
(NO DIMMING)



1. LVC 1 Mode:
AMBIENT independent ON/OFF, no dimming
READING independent ON/OFF, no dimming
EXAM ON/OFF *

WIRING DIAGRAM 2

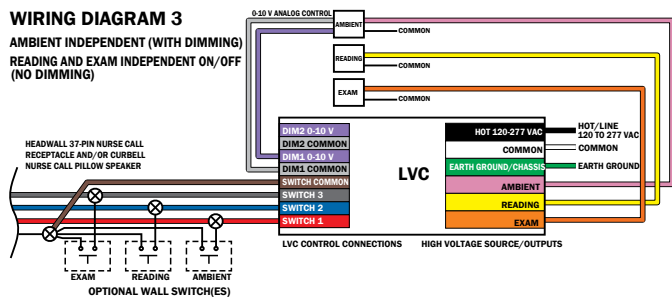
AMBIENT AND READING SEQUENTIAL
EXAM INDEPENDENT ON/OFF (NO DIMMING)



2. LVC 2 Mode:
AMBIENT & READING sequential ON/OFF, no dimming
EXAM ON/OFF *

WIRING DIAGRAM 3

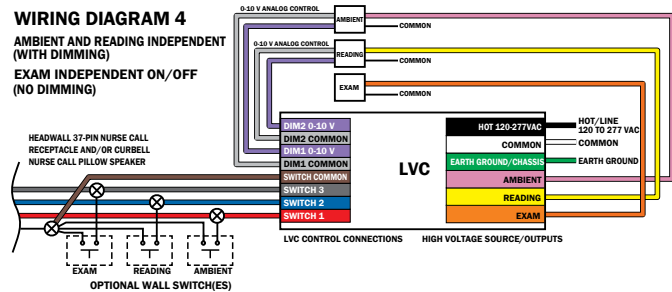
AMBIENT INDEPENDENT (WITH DIMMING)
READING AND EXAM INDEPENDENT ON/OFF
(NO DIMMING)



3. LVC 3 Mode:
AMBIENT with step dimming
READING On/Off
EXAM On/Off *
4. LVC 4 Mode:
AMBIENT with smooth dimming
READING On/Off
EXAM On/Off *

WIRING DIAGRAM 4

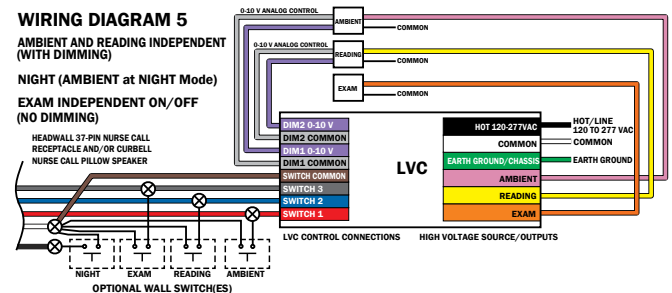
AMBIENT AND READING INDEPENDENT
(WITH DIMMING)
EXAM INDEPENDENT ON/OFF
(NO DIMMING)



5. LVCD 5 Mode:
AMBIENT with step dimming
READING with step dimming
EXAM On/Off *
6. LVC 6 Mode:
AMBIENT with smooth dimming
READING with smooth dimming
EXAM On/Off *

WIRING DIAGRAM 5

AMBIENT AND READING INDEPENDENT
(WITH DIMMING)
NIGHT (AMBIENT at NIGHT Mode)
EXAM INDEPENDENT ON/OFF
(NO DIMMING)



7. LVCD 7 Mode:
AMBIENT with step dimming
READING with step dimming
NIGHT Night Mode with AMBIENT **
EXAM On/Off *
8. LVCD 8 Mode:
AMBIENT with smooth dimming
READING with smooth dimming
NIGHT Night Mode with AMBIENT **
EXAM On/Off *

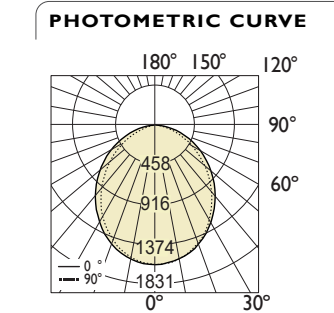
* EXAM switch will turn both AMBIENT and EXAM loads on to maximum brightness, overriding the current state of AMBIENT load. With EXAM On, switch AMBIENT or switch EXAM will turn EXAM load Off and return AMBIENT load to its previous state. READING load continues to be controlled only by switch READING.

** NIGHT switch will turn AMBIENT load to NIGHT Mode. With NIGHT Mode On, NIGHT or AMBIENT switch will return Ambient load to its previous state. READING load continues to be controlled only by switch READING.

● PHOTOMETRIC DATA

SO Spotless lens - Down

Downlight
1100 lm/ft



Total Lumens: 4401 lm (for 4ft)
Input Watts: 39.4 W
Efficacy: 112 lm/W
IES FILE: SK2R-FF-4'-1100-90-35-SO.ies

TESTED ACCORDING TO IES LM-79-2019

CANDELA DISTRIBUTION					
Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	1830	1830	1830	1830	1830
5	1824	1817	1816	1809	1811
15	1739	1728	1720	1704	1704
25	1582	1557	1536	1515	1507
35	1355	1330	1304	1264	1254
45	1101	1073	1038	977	956
55	830	802	741	674	660
65	552	518	454	395	380
75	288	243	193	151	143
85	71	38	19	14	14
90	5	5	4	4	4

ZONAL LUMENS	
Zone	Lumens
0	
0-10	172
10-20	486
20-30	712
30-40	819
40-50	802
50-60	673
60-70	466
70-80	227
80-90	44
90	

LUMINANCE DATA (cd/m²)			
Vertical Angle	Horizontal Angles		
	0	45	90
45	25408	23959	22065
55	23612	21072	18775
65	21313	17524	14662
75	18139	12140	9006
85	13344	3503	2604

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

IMPORTANT – all patterns must be submitted with drawings indicating size and radii dimensions.

