

Sketch 4

SURFACE OVERBED



Project _____

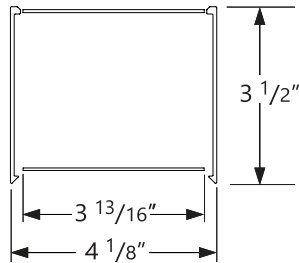
Type _____

Notes _____

● PERFORMANCE PER LINEAR FOOT AT 3500K, 90CRI

	NOMINAL LUMEN OUTPUT DIRECT	INPUT WATTS*	EFFICACY
Sketch 4	1400lm/ft	10.88 W/ft	129 lm/W

Please consult factory for other lumen output and wattage.



Ordering Guide

Example: BCSK4OBS-2ARC(48", 30)-AL(9'8")-1000-90-35-RD35-SO-AMW-120-DP-E(1)-DF

Accessories ordered separately.
See Accessories ordering guide.

BCSK4OBS										
PRODUCT ID		PATTERNS AND FORMS		TOTAL LENGTH, CORNER QTY.		LUMENS/FT		CRI		
BCSK4OBS	Sketch 4 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)	1400	1400 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.		READING (OPT.)		SHIELDING		FINISH		VOLTAGE		DRIVER	
27	2700 K	RD30	reading light 3000K	SO	spotless lens	AMW	antimicrobial white*	120	120V	DP	dimming (0-10V) 1% - integral
35	3500 K	RD35	reading light 3500K			C	custom**	277	277V	DALI2	driver DALI 2.0 Type 6 - integral
30	3000 K	RD40	reading light 4000K					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.			

EMERGENCY (OPT.)		LV CONTROLLER (OPT.)		MOUNTING		REMOTE BATTERY (OPT.)		OTHER (OPT.)		CUSTOM (OPT.)	
GTD(1)	generator transfer device*	LVC1	low voltage controller (Mode LVC1)	S	surface drywall	BR(#)	battery pack remote	FW	flex whip (6' std)*	C	custom
+E(1)	emergency section *	LVC2	low voltage controller (Mode LVC2)	SC	surface solid ceiling	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.

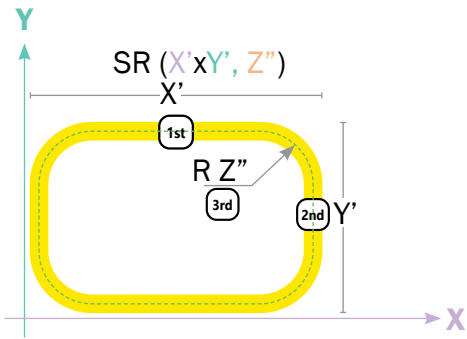
WARRANTY

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

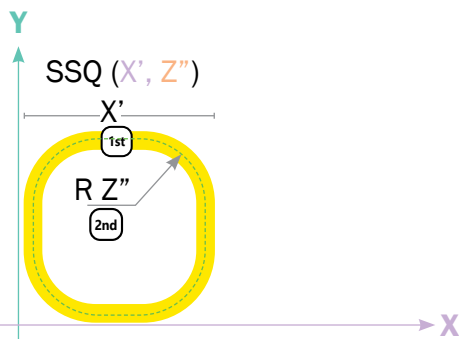
Note: The center line indicates the diameter at the center of the curve. Regardless to the mounting style, the center line remains the same. This is the dimension that should be used when planning a layout.

Defining SR - Soft Rectangle shape



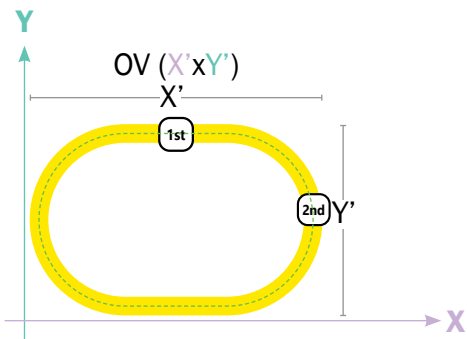
Note: The first number will always define the length, the second - the width. Third number will define the radius of the corner curvature.

Defining SSQ - Soft Square shape



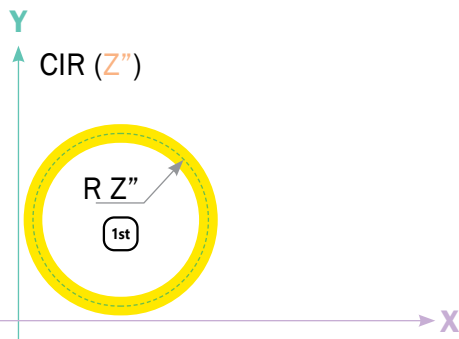
Note: The first number will define the length. (All sides are the same length). The second number will define the radius of the corners curvature.

Defining OV - Oval shape



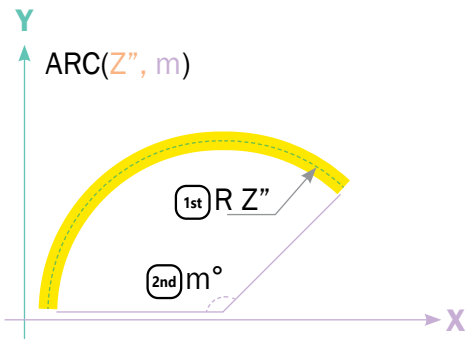
Note: The first number will always define the length. Second number will define the width of the oval shape.

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 4 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

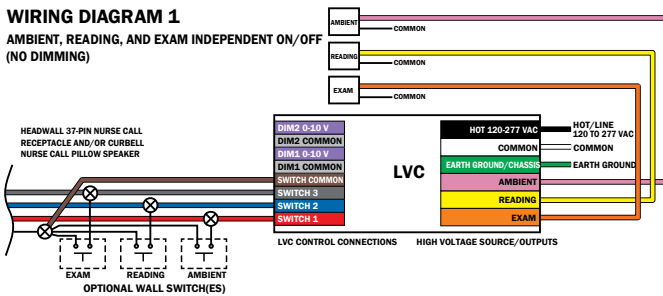
Sketch 4

SURFACE OVERBED

● LOW VOLTAGE CONTROLLERS WIRING DIAGRAMS

WIRING DIAGRAM 1

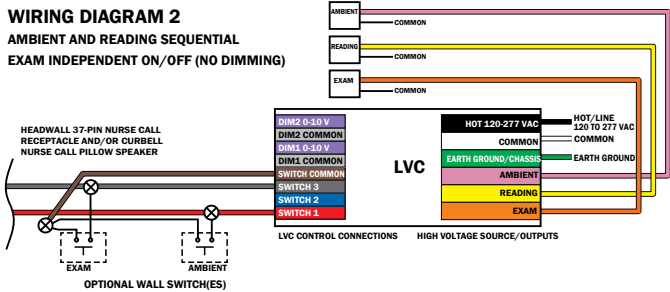
AMBIENT, READING, AND EXAM INDEPENDENT ON/OFF
(NO DIMMING)



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

WIRING DIAGRAM 2

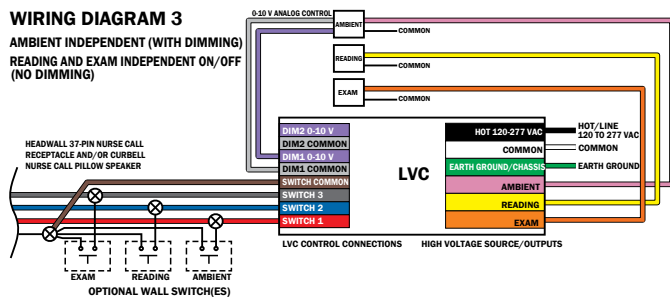
AMBIENT AND READING SEQUENTIAL
EXAM INDEPENDENT ON/OFF (NO DIMMING)



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

WIRING DIAGRAM 3

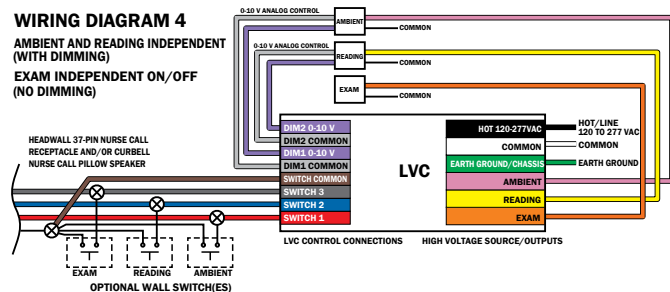
AMBIENT INDEPENDENT (WITH DIMMING)
READING AND EXAM INDEPENDENT ON/OFF
(NO DIMMING)



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

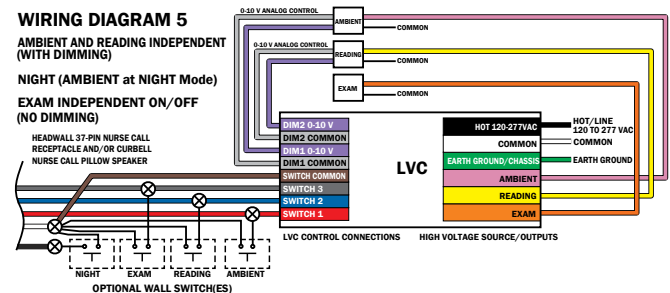
AMBIENT AND READING INDEPENDENT
(WITH DIMMING)
EXAM INDEPENDENT ON/OFF
(NO DIMMING)



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.

Sketch 4

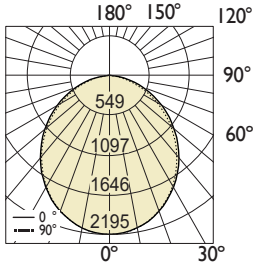
SURFACE OVERBED

● PHOTOMETRIC DATA

SO Spotless lens - Down

Downlight
1400 lm/ft

PHOTOMETRIC CURVE



CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	2192	2192	2192	2192	2192
5	2176	2175	2178	2179	2181
15	2079	2076	2076	2075	2077
25	1892	1886	1884	1877	1879
35	1638	1630	1622	1604	1604
45	1336	1325	1309	1288	1282
55	1010	995	974	946	941
65	676	656	634	602	594
75	355	330	303	271	265
85	84	64	43	28	25
90	6	6	5	5	5

ZONAL LUMENS

Zone	Lumens
0	
0-10	207
10-20	585
20-30	868
30-40	1014
40-50	1012
50-60	876
60-70	634
70-80	333
80-90	72
90	

LUMINANCE DATA (cd/m²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	16831	16481	16148
55	15689	15129	14615
65	14255	13354	12525
75	12221	10429	9126
85	8579	4355	2570

Total Lumens: 5601 lm (for 4ft)

Input Watts: 43.51 W

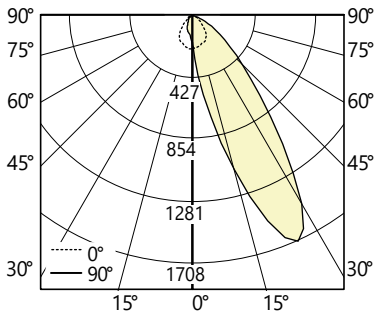
Efficacy: 129 lm/W

IES FILE: SK4S-FF-4-1400-90-35-SO-Preliminary.ies

TESTED ACCORDING TO IES LM-79-2019

Reading light

PHOTOMETRIC CURVE



CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	218	218	218	218	218
5	222	274	331	389	409
15	205	378	680	982	1091
25	193	482	1124	1623	1708
35	158	514	1336	1259	1072
45	97	430	960	609	488
55	49	266	498	275	227
65	22	102	186	109	90
75	8	15	31	21	19
85	1	1	1	0	0
90	1	0	0	0	0

ZONAL LUMENS

Zone	Lumens
0	
0-10	26
10-20	120
20-30	268
30-40	316
40-50	243
50-60	149
60-70	69
70-80	18
80-90	1
90	

LUMINANCE DATA (cd/m²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	90548	892830	453888
55	56269	570915	260645
65	34671	288676	140736
75	19967	77852	49440
85	8184	4126	3643

Total Lumens: 1210 lm

Input Watts: 18.06 W

Efficacy: 67 lm/W

IES FILE: TDST55-SB-WW-1200-90-35.ies

TESTED ACCORDING TO IES LM-79-2019

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.

