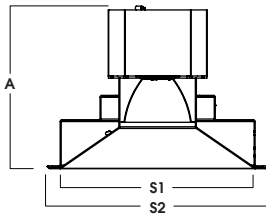
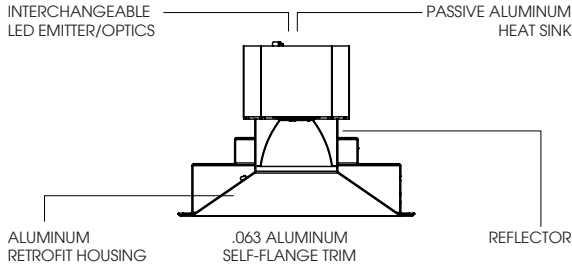




10" ROUND DOWNLIGHT BX SERIES / 8000 LUMENS MAX



A	S1	S2
9.5 241.3 mm	9.6 243.8 mm	11.2 284.5 mm

Ceiling Cutout: Ø9.7"

SGRTV10BX - TRIM FLANGE / NON-IC RATED

APPLICATION

10" round open aperture deep regressed Retrofits high output LED downlight for high ceiling illumination in malls, churches and commercial applications.

FEATURES

Two-stage optical system for smooth light distribution and focus control. Quick change LED module with interchangeable optics for job site adjustment and fixture maintenance. Tool-less driver and j-box access. Posi-lock trim retention torsion springs.

TRIM FINISH

A variety of architectural powdercoat and anodized finishes are available.

ELECTRONICS

LED module features high brightness white Bridgelux® LEDs. 3-step MacAdam Ellipse binning and CRI 80 or 90. 2-step MacAdam Ellipse binning available, consult factory. 1% 0-10V dimming offered standard.

CONSTRUCTION

Housing constructed of #20 ga. galvanized steel to resist corrosion. Self-flanged one piece trim spun from 0.063" thick high purity aluminum and finished to specification.

CODE COMPLIANCE

BAA Compliant. Non-IC rated. ETL certified to meet US and Canadian standards. Suitable for dry or damp locations. Complies with CUL. Manufactured and tested to UL standards No. 1598/8750.

LUMENS / WATTAGE DATA				
PART NUMBER	SOURCE LUMENS ¹	DELIVERED LUMENS ²	SYSTEM WAITS	LPW
SGRTV10BX60L	6000	4914	44	112
SGRTV10BX70L	7000	5567	51	109
SGRTV10BX80L	8000	6443	60	107

SERIES	LUMENS ¹	CCT	OPTICS	DRIVER / VOLTAGE ²	OPTIONS ⁵	TRIM	FINISH	FLANGE FINISH		
SGRTV10BX	60L 70L 80L	6000 Lm 7000 Lm 8000 Lm	80 CRI	ND 24° MD 40° WD 55° XW 66°	DO10 1% 0-10V DS2W1 1% ELV/MLV, 120V DLTE1 ³ 1% Lutron® 2-Wire Forward Phase, 120V DL3E ³ 1% Lutron® EcoSystem®, Fade EL10 1%, eldoLED ED01 0.1%, eldoLED DALI DALI Control DMXS ^{3/4} DMX Standard Configuration DMXC ^{3/4} DMX Non-Standard Custom BLU Bluetooth LE	1 120V 2 277V 3 ⁴ 347V	FS Fusing GR Goof Ring EM Integral Emergency Battery	AR10BX	SG ⁶ Semi-Diffuse MW Matte White MB Matte Black PT Platinum Silver CH Charcoal AC Anodic Champagne AS Anodic Sapphire AM Anodic Malachite SN Sun Gold CO Copper Metallic GH Graphite CC ⁷ Custom Color	
			27K 2700K							WF White Flange MF ⁸ Matching Flange
			30K 3000K							
	35K 3500K									
	40K 4000K									
	90 CRI									
	27HK 2700K									
	30HK 3000K									
	35HK 3500K									
	40HK 4000K									

EXAMPLE: SGRTV10BX60L30KMDDO101/AR10BXSGMF

NOTES:

1 Nominal Source Lumens 2 Contact Factory for Additional Options 3 60L Max 4 Contact Factory 5 See Product Options Page for Details 6 Standard Finish 7 Contact Factory for Special Finishes 8 Flange Same Color as Inside of Trim



PROJECT: _____
TYPE: _____



Dimensions and values shown are nominal. Spectrum Lighting continually works to improve products and reserves the right to make changes which may alter the performance or appearance of products.

10" ROUND DOWNLIGHT BX SERIES / PHOTOMETRIC DATA

retrofits
remodelights



SGRTV10BX-80L35K-ND-DO101-AR10BX-SGWF

CANDLEPOWER CURVE	INTENSITY	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT							
			Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 3		RCR 5			
	0.00°	0° - 10°	1,708	26%	6.0'	589 fc	2.6'	295 fc	14'	6'	163	1.50	148	1.50
	0.00°	0° - 20°	3,924	59%	8.0'	331 fc	3.4'	166 fc	18'	8''	116	1.07	130	1.32
	5.00°	0° - 30°	5,410	82%	10.0'	212 fc	4.3'	106 fc	22'	10'''	69	0.64	77	0.78
	10.00°	0° - 40°	6,413	97%	12.0'	147 fc	5.1'	74 fc	Delivered Illuminance Rating: (DIR)					
	15.00°	0° - 60°	6,600	100%	14.0'	108 fc	6.0'	54 fc	109 FC per W/Sq. Ft.					
	20.00°	0° - 80°	6,602	100%	16.0'	83 fc	6.8'	41 fc	99 FC per W/Sq. Ft.					
	30.00°	0° - 90°	6,603	100%	20.0'	53 fc	8.5'	27 fc	2' Suspension Length Square rooms used for multiple units: - RCR 3: Length & Width = Ceiling Ht. - 4.5' x 3.33 - RCR 5: Length & Width = Ceiling Ht. - 4.5' x 2.00 + Average Footcandles at 2.5' Above Floor * Exceeds spacing criteria by 50% ** Exceeds spacing criteria by 41% *** Exceeds spacing criteria by 36%					
	40.00°	Total	6,603	100%	24.0'	37 fc	10.2'	18 fc	Lamp Multiplier: 60L x 0.76, 70L x 0.86 CCT Multiplier: CCT Output: 27K x 0.932, 30K x 1.00, 40K x 1.01					
	50.00°													
	60.00°													
	70.00°													
	80.00°													
	90.00°													
	Delivered Lumens: 6,603	CP at 0deg (Nadir): 21,205		Beam Angle: 24.79		Lamp Multiplier: 60L x 0.76, 70L x 0.86								
	Luminaire Watts: 60	CRI: 80		Spacing Ratio: 0.42		CCT Multiplier: CCT Output: 27K x 0.932, 30K x 1.00, 40K x 1.01								
	LER: 110.05													

SGRTV10BX-80L35K-MD-DO101-AR10BX-SGWF

CANDLEPOWER CURVE	INTENSITY	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT							
			Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 3		RCR 5			
	0.00°	0° - 10°	1,156	18%	6.0'	353 fc	4.4'	176 fc	14'	8'	102	0.96	64	0.66
	0.00°	0° - 20°	3,624	56%	8.0'	198 fc	5.8'	99 fc	18'	10''	79	0.74	71	0.74
	5.00°	0° - 30°	5,538	85%	10.0'	127 fc	7.3'	63 fc	22'	12'''	47	0.44	42	0.44
	10.00°	0° - 40°	6,403	98%	12.0'	88 fc	8.7'	44 fc	Delivered Illuminance Rating: (DIR)					
	15.00°	0° - 60°	6,500	100%	14.0'	65 fc	10.2'	32 fc	107 FC per W/Sq. Ft.					
	20.00°	0° - 80°	6,503	100%	16.0'	50 fc	11.7'	25 fc	96 FC per W/Sq. Ft.					
	30.00°	0° - 90°	6,504	100%	20.0'	32 fc	14.6'	16 fc	2' Suspension Length Square rooms used for multiple units: - RCR 3: Length & Width = Ceiling Ht. - 4.5' x 3.33 - RCR 5: Length & Width = Ceiling Ht. - 4.5' x 2.00 + Average Footcandles at 2.5' Above Floor * Exceeds spacing criteria by 32% ** Exceeds spacing criteria by 16% *** Exceeds spacing criteria by 7%					
	40.00°	Total	6,504	100%	24.0'	22 fc	17.5'	11 fc	Lamp Multiplier: 60L x 0.76, 70L x 0.86 CCT Multiplier: CCT Output: 27K x 0.932, 30K x 1.00, 40K x 1.01					
	50.00°													
	60.00°													
	70.00°													
	80.00°													
	90.00°													
	Delivered Lumens: 6,504	CP at 0deg (Nadir): 12,691		Beam Angle: 40.49		Lamp Multiplier: 60L x 0.76, 70L x 0.86								
	Luminaire Watts: 60	CRI: 80		Spacing Ratio: 0.64		CCT Multiplier: CCT Output: 27K x 0.932, 30K x 1.00, 40K x 1.01								
	LER: 108.40													

SGRTV10BX-80L35K-WD-DO101-AR10BX-SGWF

CANDLEPOWER CURVE	INTENSITY	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT							
			Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4			
	0.00°	0° - 10°	694	11%	6.0'	207 fc	7.1'	102 fc	14'	10''	73	0.66	41	0.43
	0.00°	0° - 20°	2,484	38%	8.0'	117 fc	9.4'	58 fc	18'	12''	52	0.47	46	0.47
	5.00°	0° - 30°	4,716	73%	10.0'	75 fc	11.8'	37 fc	22'	14'''	31	0.28	27	0.28
	10.00°	0° - 40°	6,198	96%	12.0'	52 fc	14.1'	26 fc	Delivered Illuminance Rating: (DIR)					
	15.00°	0° - 60°	6,457	100%	14.0'	38 fc	16.5'	19 fc	110 FC per W/Sq. Ft.					
	20.00°	0° - 80°	6,459	100%	16.0'	29 fc	18.8'	14 fc	96 FC per W/Sq. Ft.					
	30.00°	0° - 90°	6,460	100%	20.0'	19 fc	23.5'	9 fc	2' Suspension Length Square rooms used for multiple units: - RCR 2: Length & Width = Ceiling Ht. - 4.5' x 5.00 - RCR 4: Length & Width = Ceiling Ht. - 4.5' x 2.50 + Average Footcandles at 2.5' Above Floor * Exceeds spacing criteria by 17% ** Exceeds spacing criteria by -1% *** Exceeds spacing criteria by -11%					
	40.00°	Total	6,460	100%	24.0'	13 fc	28.2'	6 fc	Lamp Multiplier: 60L x 0.76, 70L x 0.86 CCT Multiplier: CCT output: 27K x 0.932, 30K x 1.00, 40K x 1.01					
	50.00°													
	60.00°													
	70.00°													
	80.00°													
	90.00°													
	Delivered Lumens: 6,460	CP at 0deg (Nadir): 7,460		Beam Angle: 61.24		Lamp Multiplier: 60L x 0.76, 70L x 0.86								
	Luminaire Watts: 60	CRI: 80		Spacing Ratio: 0.9		CCT Multiplier: CCT output: 27K x 0.932, 30K x 1.00, 40K x 1.01								
	LER: 107.67													

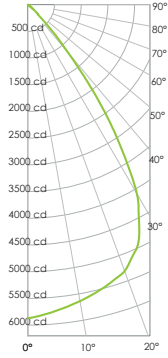
10" ROUND DOWNLIGHT BX SERIES / PHOTOMETRIC DATA

retrofits
remodelights



SGRTV10BX-80L35K-XW-DO101-AR10BX-SGWF

CANDLEPOWER CURVE



Delivered Lumens: **6,384**
Luminaire Watts: **60**
LER: **106.40**

INTENSITY

Beam Angle	Intensity (cd)
0.00°	5,873
5.00°	5,764
10.00°	5,639
15.00°	5,489
20.00°	5,307
30.00°	4,089
40.00°	1,183
50.00°	133
60.00°	3
70.00°	1
80.00°	1
90.00°	1

CP at 0deg (Nadir): **5,873**
CRI: **80**

ZONAL LUMENS

Beam Angle	Zonal Lumens	% of Total
0° - 10°	555	9%
0° - 20°	2,108	33%
0° - 30°	4,325	68%
0° - 40°	5,960	93%
0° - 60°	6,380	100%
0° - 80°	6,383	100%
0° - 90°	6,384	100%
Total	6,384	100%

SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE

Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge
6.0'	163 fc	8.1'	80 fc
8.0'	92 fc	10.9'	45 fc
10.0'	59 fc	13.6'	29 fc
12.0'	41 fc	16.3'	20 fc
14.0'	30 fc	19.0'	15 fc
16.0'	23 fc	21.7'	11 fc
20.0'	15 fc	27.1'	7 fc
24.0'	10 fc	32.6'	5 fc

Beam Angle: **68.33**
Spacing Ratio: **1.09**

MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT

Ceiling Height	Fixture Spacing	RCR 2		RCR 4	
		FC *	W/Sq. Ft.	FC *	W/Sq. Ft.
14'	12' *	46	0.43	40	0.43
18'	14' **	35	0.33	20	0.21
22'	16' ***	21	0.20	26	0.28
Delivered Illuminance Rating: [DIR]		108 FC per W/Sq. Ft.		94 FC per W/Sq. Ft.	
2' Suspension Length Square rooms used for multiple units: - RCR 2: Length & Width = Ceiling Ht. - 4.5' x 5.00 - RCR 4: Length & Width = Ceiling Ht. - 4.5' x 2.50 * Average Footcandles at 2.5' Above Floor * Exceeds spacing criteria by 16% ** Exceeds spacing criteria by -5% *** Exceeds spacing criteria by -16%					

Lamp Multiplier: 60L x 0.76, 70L x 0.86
CCT Multiplier: CCT Output: 27K x 0.932, 30K x 1.00, 40K x 1.01