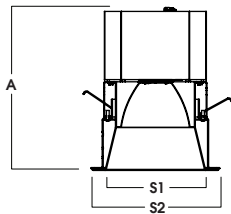
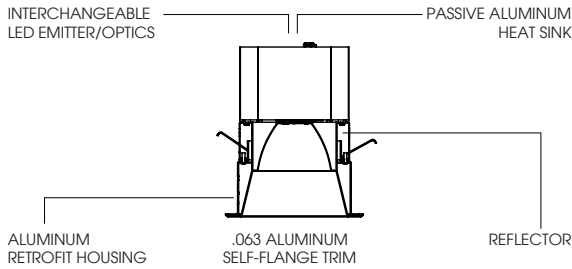




6" ROUND DOWNLIGHT BX SERIES / 8000 LUMENS MAX



A	S1	S2
9.3 236.2 mm	5.7 144.8 mm	7.5 190.5 mm

Ceiling Cutout: Ø 6.2"

SGRTV6BX - TRIM FLANGE / NON-IC RATED

APPLICATION

6" 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. Post-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
SGRTV6BX60L	6000	4684	44	106
SGRTV6BX70L	7000	5325	51	104
SGRTV6BX80L	8000	6163	60	103

SERIES	LUMENS ¹	CCT	OPTICS	DRIVER / VOLTAGE ²	OPTIONS ⁵	TRIM	FINISH	FLANGE FINISH										
SGRTV6BX	60L	6000 Lm	80 CRI	ND	24°	DO10_	1% 0-10V	1	120V	FS	Fusing	AR6BX	SG ⁷	Semi-Diffuse	WF	White Flange		
	70L	7000 Lm	27K	2700K	MD	40°	DS2W1	1% ELV/MLV, 120V	2	277V	GR		Goof Ring	MW		Matte White	MF ⁸	Matching Flange
	80L	8000 Lm	30K	3000K	WD	55°	DLTE1 ³	1% Lutron® 2-Wire Forward Phase, 120V	3 ⁴	347V	EM		Integral Emergency Battery	MB		Matte Black		
			35K	3500K	XW	66°	DL3E ³	1% Lutron® EcoSystem®, Fade						PT		Platinum Silver		
			40K	4000K	EL10_	1% eldoLED	ED01_	0.1% eldoLED						CH		Charcoal		
			90 CRI											AC		Anodic Champagne		
	27HK	2700K					AS	Anodic Sapphire										
	30HK	3000K					AM	Anodic Malachite										
	35HK	3500K					SN	Sun Gold										
	40HK	4000K					CO	Copper Metallic										
							GH	Graphite										
							CC ⁷	Custom Color										

EXAMPLE: SGRTV6BX60L30KMDDO101/AR6BXSGMF

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.

6" ROUND DOWNLIGHT BX SERIES / PHOTOMETRIC DATA

retrofits
remodelights



SGRTV6BX-80L35K-ND-DO101-AR6BX-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°	2,012	33%	6.0'	736 fc	2.7'	368 fc	14'	6'	156	1.50	144	1.50
	0.00° 26,498	0° - 20°	4,540	74%	8.0'	414 fc	3.6'	207 fc	18'	8''	111	1.07	127	1.32
	5.00° 23,899	0° - 30°	5,892	96%	10.0'	265 fc	4.5'	132 fc	22'	10'''	66	0.64	76	0.78
	10.00° 16,523	0° - 40°	6,140	100%	12.0'	184 fc	5.4'	92 fc	Delivered Illuminance Rating: (DIR)					
	15.00° 9,398	0° - 60°	6,156	100%	14.0'	135 fc	6.3'	68 fc	2' Suspension Length					
	20.00° 5,312	0° - 80°	6,158	100%	16.0'	104 fc	7.1'	52 fc	Square rooms used for multiple units:					
	30.00° 1,365	0° - 90°	6,159	100%	20.0'	66 fc	8.9'	33 fc	- RCR 3: Length & Width = Ceiling Ht. - 4.5' x 3.33					
	40.00° 56	Total	6,160	100%	24.0'	46 fc	10.7'	23 fc	- RCR 5: Length & Width = Ceiling Ht. - 4.5' x 2.00					
	50.00° 8	+ Average Footcandles at 2.5' Above Floor												
	60.00° 2	* Exceeds spacing criteria by 54%												
	70.00° 1	** Exceeds spacing criteria by 45%												
	80.00° 1	*** Exceeds spacing criteria by 39%												
	2700cd	Lamp Multiplier: 60L x 0.76, 70L x 0.86												
2400cd	CCT Multiplier: CCT Output: 27K x 0.932, 30K x 1.00, 40K x 1.01													
2100cd	CP at 0deg (Nadir): 26,498													
1800cd	CRI: 80													
1500cd	Beam Angle: 23.59													
1200cd	Spacing Ratio: 0.41													
900cd	Delivered Lumens: 6,160													
600cd	Luminaire Watts: 60													
300cd	LER: 102.67													

SGRTV6BX-80L35K-MD-DO101-AR6BX-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°	1,457	24%	6.0'	489 fc	3.6'	244 fc	14'	6'	154	1.50	141	1.50
	0.00° 17,604	0° - 20°	4,169	68%	8.0'	275 fc	4.8'	137 fc	18'	8''	110	1.07	70	0.74
	5.00° 16,065	0° - 30°	5,908	96%	10.0'	176 fc	6.0'	88 fc	22'	10'''	65	0.64	74	0.78
	10.00° 13,149	0° - 40°	6,120	100%	12.0'	122 fc	7.2'	61 fc	Delivered Illuminance Rating: (DIR)					
	15.00° 9,930	0° - 60°	6,135	100%	14.0'	90 fc	8.4'	45 fc	2' Suspension Length					
	20.00° 6,719	0° - 80°	6,137	100%	16.0'	69 fc	9.6'	34 fc	Square rooms used for multiple units:					
	30.00° 1,182	0° - 90°	6,138	100%	20.0'	44 fc	12.0'	22 fc	- RCR 3: Length & Width = Ceiling Ht. - 4.5' x 3.33					
	40.00° 33	Total	6,138	100%	24.0'	31 fc	14.4'	15 fc	- RCR 5: Length & Width = Ceiling Ht. - 4.5' x 2.00					
	50.00° 4	+ Average Footcandles at 2.5' Above Floor												
	60.00° 2	* Exceeds spacing criteria by 17%												
	70.00° 1	** Exceeds spacing criteria by 10%												
	80.00° 1	*** Exceeds spacing criteria by 6%												
	1800cd	Lamp Multiplier: 60L x 0.76, 70L x 0.86												
1600cd	CCT Multiplier: CCT Output: 27K x 0.932, 30K x 1.00, 40K x 1.01													
1400cd	CP at 0deg (Nadir): 17,604													
1200cd	CRI: 80													
1000cd	Beam Angle: 33.29													
800cd	Spacing Ratio: 0.54													
400cd	Delivered Lumens: 6,138													
200cd	Luminaire Watts: 60													
0°	LER: 102.30													

SGRTV6BX-80L35K-WD-DO101-AR6BX-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°	995	16%	6.0'	344 fc	4.5'	172 fc	14'	8'	96	0.96	135	1.50
	0.00° 12,392	0° - 20°	3,070	50%	8.0'	194 fc	6.0'	97 fc	18'	10''	74	0.74	67	0.74
	5.00° 11,354	0° - 30°	5,178	84%	10.0'	124 fc	7.5'	62 fc	22'	12'''	44	0.44	40	0.44
	10.00° 9,064	0° - 40°	6,006	97%	12.0'	86 fc	9.0'	43 fc	Delivered Illuminance Rating: (DIR)					
	15.00° 7,507	0° - 60°	6,171	100%	14.0'	63 fc	10.5'	32 fc	2' Suspension Length					
	20.00° 6,295	0° - 80°	6,173	100%	16.0'	48 fc	12.0'	24 fc	Square rooms used for multiple units:					
	30.00° 2,949	0° - 90°	6,174	100%	20.0'	31 fc	15.0'	15 fc	- RCR 3: Length & Width = Ceiling Ht. - 4.5' x 3.33					
	40.00° 532	Total	6,174	100%	24.0'	22 fc	17.9'	11 fc	- RCR 5: Length & Width = Ceiling Ht. - 4.5' x 2.00					
	50.00° 36	+ Average Footcandles at 2.5' Above Floor												
	60.00° 2	* Exceeds spacing criteria by 40%												
	70.00° 1	** Exceeds spacing criteria by 23%												
	80.00° 1	*** Exceeds spacing criteria by 14%												
	1300cd	Lamp Multiplier: 60L x 0.76, 70L x 0.86												
1100cd	CCT Multiplier: CCT Output: 27K x 0.932, 30K x 1.00, 40K x 1.01													
1000cd	CP at 0deg (Nadir): 12,392													
900cd	CRI: 80													
800cd	Beam Angle: 40.13													
700cd	Spacing Ratio: 0.6													
600cd	Delivered Lumens: 6,174													
500cd	Luminaire Watts: 60													
400cd	LER: 102.90													

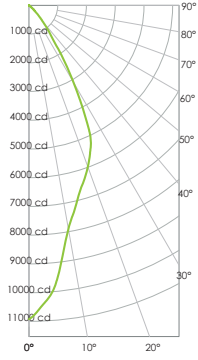
6" ROUND DOWNLIGHT BX SERIES / PHOTOMETRIC DATA

retrofits
remodelights



SGRTV6BX-80L35K-XW-DO101-AR6BX-SGWF

CANDLEPOWER CURVE



Delivered Lumens: **6,109**
Luminaire Watts: **60**
LER: **101.82**

INTENSITY

0.00°	0.00°
0.00°	10,919
5.00°	9,911
10.00°	7,887
15.00°	6,765
20.00°	5,987
30.00°	3,098
40.00°	775
50.00°	74
60.00°	4
70.00°	1
80.00°	1
90.00°	0

CP at 0deg (Nadir): **10,919**
CRI: **80**

ZONAL LUMENS

0° - 10°	866	14%
0° - 20°	2,745	45%
0° - 30°	4,843	79%
0° - 40°	5,822	95%
0° - 60°	6,105	100%
0° - 80°	6,108	100%
0° - 90°	6,109	100%
Total	6,109	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'	303 fc	5.1'	151 fc
8.0'	171 fc	6.8'	85 fc
10.0'	109 fc	8.5'	54 fc
12.0'	76 fc	10.2'	38 fc
14.0'	56 fc	11.9'	28 fc
16.0'	43 fc	13.6'	21 fc
20.0'	27 fc	17.0'	14 fc
24.0'	19 fc	20.3'	9 fc

Beam Angle: **44.68**
Spacing Ratio: **0.64**

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

Ceiling Height	Fixture Spacing	RCR 3		RCR 5	
		FC *	W/Sq. Ft.	FC *	W/Sq. Ft.
14'	8' *	94	0.96	58	0.66
18'	10' **	73	0.74	65	0.74
22'	12' ***	43	0.44	39	0.44
Delivered Illuminance Rating: (DIR)		98 FC per W/Sq. Ft.		87 FC per W/Sq. Ft.	
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%					

Lamp Multiplier: 60L x 0.76, 70L x 0.864
CCT Multiplier: 27K x 0.932, 30K x 1.00, 40K x 1.01