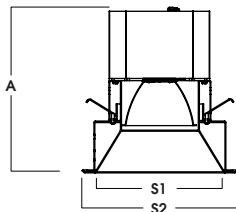
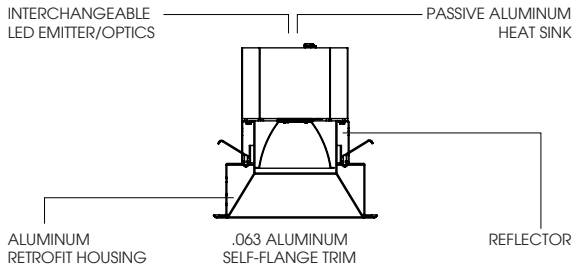




8" ROUND DOWNLIGHT BX SERIES / 8000 LUMENS MAX



A	S1	S2
9.5 241.3 mm	7.5 190.5 mm	9.1 231.1 mm

Ceiling Cutout: Ø7.8"

SGRTV8BX - TRIM FLANGE / NON-IC RATED

APPLICATION

8" 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
SGRTV8BX60L	6000	4914	44	112
SGRTV8BX70L	7000	5567	51	109
SGRTV8BX80L	8000	6443	60	107

SERIES	LUMENS ¹	CCT	OPTICS	DRIVER / VOLTAGE ²	OPTIONS ⁵	TRIM	FINISH	FLANGE FINISH	
SGRTV8BX	60L 70L 80L	6000 Lm 7000 Lm 8000 Lm	80 CRI	ND 24°	DO10_	1 120V	AR8BX	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	MD 40°	DS2W1	2 277V			WF White Flange
			30K 3000K	WD 55°	DLTE1 ³	3 ⁴ 347V			MF ⁸ Matching Flange
			35K 3500K	XW 66°	DL3E ³				
	40K 4000K		DL3E ³						
	90 CRI		EL10_						
	27HK 2700K		ED01_						
	30HK 3000K		DALI_						
	35HK 3500K		BLU						
	40HK 4000K								

EXAMPLE: SGRTV8BX60L30KMDDO101/AR8BXSGMF

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.

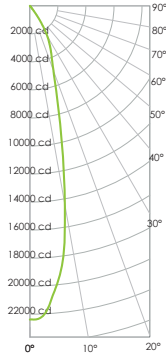
8" ROUND DOWNLIGHT BX SERIES / PHOTOMETRIC DATA

retrofits
remodelights



SGRTV8BX-80L35K-ND-DO101-AR8BX-SGWF

CANDLEPOWER CURVE



Delivered Lumens: **6,416**
Luminaire Watts: **60**
LER: **106.93**

INTENSITY

0.00°	
0.00°	22,382
5.00°	20,383
10.00°	14,399
15.00°	8,167
20.00°	4,928
30.00°	2,484
40.00°	171
50.00°	1
60.00°	1
70.00°	1
80.00°	1
90.00°	0

CP at 0deg (Nadir): **22,382**
CRI: **80**

ZONAL LUMENS

0° - 10°	1,755	27%
0° - 20°	4,008	62%
0° - 30°	5,630	88%
0° - 40°	6,384	99%
0° - 60°	6,413	100%
0° - 80°	6,415	100%
0° - 90°	6,416	100%
Total	6,416	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'	622 fc	2.6'	311 fc
8.0'	350 fc	3.5'	175 fc
10.0'	224 fc	4.3'	112 fc
12.0'	155 fc	5.2'	78 fc
14.0'	114 fc	6.0'	57 fc
16.0'	87 fc	6.9'	44 fc
20.0'	56 fc	8.6'	28 fc
24.0'	39 fc	10.4'	19 fc

Beam Angle: **24.43**
Spacing Ratio: **0.41**

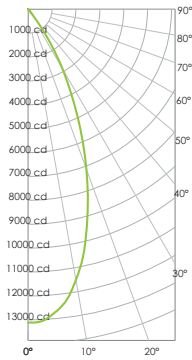
MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT

Ceiling Height	Fixture Spacing	RCR 3		RCR 5	
		FC +	W/Sq. Ft.	FC +	W/Sq. Ft.
14'	6'	160	1.50	146	1.50
18'	8'	114	1.07	128	1.32
22'	10'	68	0.64	76	0.78
Delivered Illuminance Rating: (DIR)		107 FC per W/Sq. Ft.		97 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 54% ** Exceeds spacing criteria by 45% *** Exceeds spacing criteria by 39%					

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**

SGRTV8BX-80L35K-MD-DO101-AR8BX-SGWF

CANDLEPOWER CURVE



Delivered Lumens: **6,425**
Luminaire Watts: **60**
LER: **107.08**

INTENSITY

0.00°	
0.00°	13,117
5.00°	12,748
10.00°	11,504
15.00°	9,469
20.00°	7,121
30.00°	2,856
40.00°	176
50.00°	3
60.00°	1
70.00°	1
80.00°	1
90.00°	1

CP at 0deg (Nadir): **13,117**
CRI: **80**

ZONAL LUMENS

0° - 10°	1,184	18%
0° - 20°	3,687	57%
0° - 30°	5,730	89%
0° - 40°	6,403	100%
0° - 60°	6,421	100%
0° - 80°	6,424	100%
0° - 90°	6,425	100%
Total	6,425	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'	364 fc	4.6'	182 fc
8.0'	205 fc	6.1'	102 fc
10.0'	131 fc	7.6'	66 fc
12.0'	91 fc	9.2'	45 fc
14.0'	67 fc	10.7'	33 fc
16.0'	51 fc	12.2'	26 fc
20.0'	33 fc	15.3'	16 fc
24.0'	23 fc	18.3'	11 fc

Beam Angle: **40.97**
Spacing Ratio: **0.67**

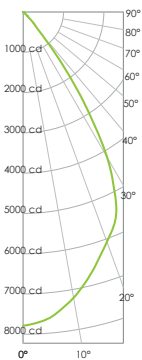
MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT

Ceiling Height	Fixture Spacing	RCR 3		RCR 5	
		FC +	W/Sq. Ft.	FC +	W/Sq. Ft.
14'	8'	101	0.96	64	0.66
18'	10'	78	0.74	71	0.74
22'	12'	47	0.44	42	0.44
Delivered Illuminance Rating: (DIR)		106 FC per W/Sq. Ft.		96 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 26% ** Exceeds spacing criteria by 11% *** Exceeds spacing criteria by 2%					

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**

SGRTV8BX-80L35K-WD-DO101-AR8BX-SGWF

CANDLEPOWER CURVE



Delivered Lumens: **6,415**
Luminaire Watts: **60**
LER: **106.92**

INTENSITY

0.00°	
0.00°	7,788
5.00°	7,620
10.00°	7,205
15.00°	6,657
20.00°	6,070
30.00°	4,168
40.00°	612
50.00°	35
60.00°	1
70.00°	1
80.00°	1
90.00°	1

CP at 0deg (Nadir): **7,788**
CRI: **80**

ZONAL LUMENS

0° - 10°	723	11%
0° - 20°	2,575	40%
0° - 30°	4,951	77%
0° - 40°	6,245	97%
0° - 60°	6,413	100%
0° - 80°	6,415	100%
0° - 90°	6,415	100%
Total	6,415	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'	216 fc	7.2'	107 fc
8.0'	122 fc	9.6'	60 fc
10.0'	78 fc	12.0'	38 fc
12.0'	54 fc	14.3'	27 fc
14.0'	40 fc	16.7'	20 fc
16.0'	30 fc	19.1'	15 fc
20.0'	19 fc	23.9'	10 fc
24.0'	14 fc	28.7'	7 fc

Beam Angle: **60.48**
Spacing Ratio: **0.95**

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'	10'	73	0.66	41	0.43
18'	12'	52	0.47	46	0.47
22'	14'	31	0.28	27	0.28
Delivered Illuminance Rating: (DIR)		109 FC per W/Sq. Ft.		97 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 11% ** Exceeds spacing criteria by -6% *** 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**

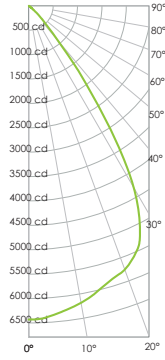
8" ROUND DOWNLIGHT BX SERIES / PHOTOMETRIC DATA

retrofits
remodelights



SGRTV8BX-80L35K-XW-DO101-AR8BX-SGWF

CANDLEPOWER CURVE



Delivered Lumens: **6,398**
Luminaire Watts: **60**
LER: **106.63**

INTENSITY

Beam Angle	Intensity (cd)
0.00°	6,430
5.00°	6,343
10.00°	6,181
15.00°	5,943
20.00°	5,755
30.00°	4,306
40.00°	923
50.00°	124
60.00°	2
70.00°	1
80.00°	1
90.00°	1

CP at 0deg (Nadir): **6,430**
CRI: **80**

ZONAL LUMENS

Beam Angle Range	Lumens	% of Total
0° - 10°	608	10%
0° - 20°	2,277	36%
0° - 30°	4,632	72%
0° - 40°	6,072	95%
0° - 60°	6,395	100%
0° - 80°	6,397	100%
0° - 90°	6,398	100%
Total	6,398	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'	179 fc	7.8'	88 fc
8.0'	100 fc	10.4'	49 fc
10.0'	64 fc	13.0'	32 fc
12.0'	45 fc	15.6'	22 fc
14.0'	33 fc	18.2'	16 fc
16.0'	25 fc	20.8'	12 fc
20.0'	16 fc	26.0'	8 fc
24.0'	11 fc	31.2'	5 fc

Beam Angle: **65.24**
Spacing Ratio: **1.07**

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' **	36	0.33	20	0.21
22'	16' ***	21	0.20	27	0.28
Delivered Illuminance Rating: (DIR)		109 FC per W/Sq. Ft.		95 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 18% ** Exceeds spacing criteria by -3% *** Exceeds spacing criteria by -15%					

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