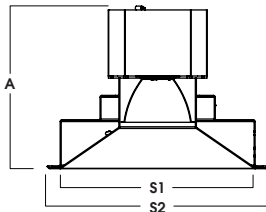
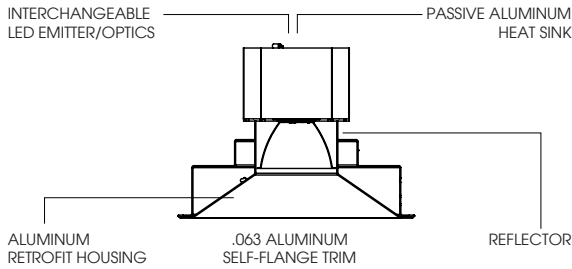




12" ROUND DOWNLIGHT BX SERIES / 8000 LUMENS MAX



A	S1	S2
9.5 241.3 mm	11.6 294.6 mm	13.2 335.3 mm

Ceiling Cutout: Ø 11.7"

SGRTV12BX - TRIM FLANGE / NON-IC RATED

APPLICATION

12" 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
SGRTV12BX60L	6000	4916	44	112
SGRTV12BX70L	7000	5563	51	109
SGRTV12BX80L	8000	6469	60	108

SERIES	LUMENS ¹	CCT	OPTICS	DRIVER / VOLTAGE ³	OPTIONS ⁶	TRIM	FINISH	FLANGE FINISH		
SGRTV12BX	60L	6000 Lm	80 CRI	DO10_ 1%, 0-10V DS2W1 1%, ELV/MLV, 120V DLTE1 ⁴ 1% Lutron® 2-Wire Forward Phase, 120V DL3E_ ⁴ 1% Lutron® EcoSystem®, Fade EL10_ 1%, eldoLED ED01_ 0.1%, eldoLED DALI_ DALI Control DMXS ^{4/5} DMX Standard Configuration DMXC ^{4/5} DMX Non-Standard Custom BLU Bluetooth LE	1 120V 2 277V 3 ⁴ 347V	FS Fusing GR Goof Ring EM Integral Emergency Battery	AR12BX	SG ⁷ 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 ⁸ Custom Color	WF White Flange MF ⁹ Matching Flange	
	70L	7000 Lm	27K 2700K							ND 24° MD 40° WD 55° XW 66°
	80L	8000 Lm	30K 3000K 35K 3500K 40K 4000K							
			90 CRI							
			27HK 2700K 30HK 3000K 35HK 3500K 40HK 4000K							

EXAMPLE: SGRTV12BX60L30KMDDO101/AR12BXSGMF

NOTES:
 1 Nominal Source Lumens 2 Nominal Delivered Lumens at 35K-MD-DO101-AR12BX-SG-XX 3 Contact Factory for Additional Options 4 60L Max 5 Contact Factory
 6 See Product Options Page for Details 7 Standard Finish 8 Contact Factory for Special Finishes 9 Flange Same Color as Inside of Trim

PROJECT: _____
TYPE: _____



12" ROUND DOWNLIGHT BX SERIES / PHOTOMETRIC DATA



SGRTV12BX-80L35K-ND-DO101-AR12BX-SGWF

CANDLEPOWER CURVE TEST SP-00686_1	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE DIRECT FOOTCANDLES BASED ON DOWNLIGHT ONLY				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 4		RCR 6
	0°	0° - 10° 1747 27%	8' 356 fc	3.3'	167 fc	22'	8'	93	0.91	85*	0.92
	0°	0° - 20° 3908 60%	10' 228 fc	4.2'	107 fc	26'	9**	87	0.85	59	0.63
	5°	0° - 30° 5357 82%	12' 158 fc	5.0'	74 fc	30'	10'	63	0.62	67	0.72
	15°	0° - 40° 6345 97%	14' 116 fc	5.8'	55 fc	Delivered Illuminance Rating: (DIR)					
	25°	0° - 60° 6531 100%	16' 89 fc	6.7'	42 fc	Recessed mounting					
	35°	0° - 80° 6533 100%	20' 57 fc	8.3'	27 fc	Square rooms used for multiple units:					
	45°	0° - 90° 6534 100%	24' 40 fc	10.0'	19 fc	RCR 4: Length & Width = Ceiling Ht. - 2.5' x 2.50					
	55°	Total 6534 100%	28' 29 fc	11.7'	14 fc	RCR 6: Length & Width = Ceiling Ht. - 2.5' x 1.66					
	90°					* Average Footcandles at 2.5' Above Floor					
						* Exceeds Spacing Ratio by 8%					
						** Exceeds Spacing Ratio by 1%					

Delivered Lumens: 6534
Luminaire Watts: 60
LER: 108.90

CP at 0° (Nadir): 22757
CRI: 80

Beam Angle: 24°
Spacing Ratio: 0.38

Lumen 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

See Page 1 for System Watts for all outputs

SGRTV12BX-80L35K-MD-DO101-AR12BX-SGWF

CANDLEPOWER CURVE TEST SP-00686_4	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE DIRECT FOOTCANDLES BASED ON DOWNLIGHT ONLY				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°	0° - 10° 1167 18%	6' 357 fc	4.3'	150 fc	18'	9'	85	0.81	53	0.56
	0°	0° - 20° 3625 56%	8' 201 fc	5.8'	84 fc	22'	10'	54	0.51	60	0.63
	5°	0° - 30° 5510 85%	10' 128 fc	7.2'	54 fc	26'	12'	37	0.35	41	0.43
	15°	0° - 40° 6368 98%	12' 89 fc	8.7'	37 fc	Delivered Illuminance Rating: (DIR)					
	25°	0° - 60° 6465 100%	14' 65 fc	10.1'	27 fc	Recessed mounting					
	35°	0° - 80° 6468 100%	16' 50 fc	11.5'	21 fc	Square rooms used for multiple units:					
	45°	0° - 90° 6469 100%	20' 32 fc	14.4'	13 fc	RCR 3: Length & Width = Ceiling Ht. - 2.5' x 3.33					
	55°	Total 6469 100%	24' 22 fc	17.3'	9 fc	RCR 5: Length & Width = Ceiling Ht. - 2.5' x 2.00					
	90°					* Average Footcandles at 2.5' Above Floor					

Delivered Lumens: 6469
Luminaire Watts: 60
LER: 107.82

CP at 0° (Nadir): 12837
CRI: 80

Beam Angle: 40°
Spacing Ratio: 0.63

Lumen 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

See Page 1 for System Watts for all outputs

SGRTV12BX-80L35K-WD-DO101-AR12BX-SGWF

CANDLEPOWER CURVE TEST SP-00686_6	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE DIRECT FOOTCANDLES BASED ON DOWNLIGHT ONLY				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°	0° - 10° 692 11%	6' 206 fc	7.1'	67 fc	15'	9'	81	0.75	52	0.55
	0°	0° - 20° 2471 39%	8' 116 fc	9.5'	38 fc	18'	10'	69	0.64	61	0.64
	5°	0° - 30° 4681 73%	10' 74 fc	11.8'	24 fc	22'	12'	44	0.40	38	0.40
	15°	0° - 40° 6136 96%	12' 52 fc	14.2'	17 fc	Delivered Illuminance Rating: (DIR)					
	25°	0° - 60° 6387 100%	14' 38 fc	16.5'	12 fc	Recessed mounting					
	35°	0° - 80° 6389 100%	16' 29 fc	18.9'	9 fc	Square rooms used for multiple units:					
	45°	0° - 90° 6390 100%	20' 19 fc	23.6'	6 fc	RCR 2: Length & Width = Ceiling Ht. - 2.5' x 5.00					
	55°	Total 6390 100%	24' 13 fc	28.4'	4 fc	RCR 4: Length & Width = Ceiling Ht. - 2.5' x 2.50					
	90°					* Average Footcandles at 2.5' Above Floor					

Delivered Lumens: 6390
Luminaire Watts: 60
LER: 106.50

CP at 0° (Nadir): 7432
CRI: 80

Beam Angle: 61°
Spacing Ratio: 0.89

Lumen 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

See Page 1 for System Watts for all outputs



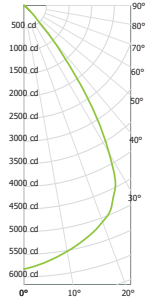
12" ROUND DOWNLIGHT BX SERIES / PHOTOMETRIC DATA

retrofits
remodelights



SGRTV12BX-80L35K-XW-DO101-AR12BX-SGWF

CANDLEPOWER CURVE
TEST SP-00686_7



INTENSITY
CANDELA
0° AZIMUTH

0°	0° - 10°	0° - 20°	0° - 30°	0° - 40°	0° - 60°	0° - 80°	0° - 90°	Total
5824	553	2101	4315	5948	6378	6383	6384	6384
	9%	33%	68%	93%	100%	100%	100%	100%

ZONAL LUMENS

0° - 10°	0° - 20°	0° - 30°	0° - 40°	0° - 60°	0° - 80°	0° - 90°	Total
553	2101	4315	5948	6378	6383	6384	6384
9%	33%	68%	93%	100%	100%	100%	100%

SINGLE UNIT: PERFORMANCE
DIRECT FOOTCANDLES
BASED ON DOWNLIGHT ONLY

Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge
6'	162 fc	8.1'	48 fc
8'	91 fc	10.9'	27 fc
10'	58 fc	13.6'	17 fc
12'	40 fc	16.3'	12 fc
14'	30 fc	19.0'	9 fc
16'	23 fc	21.7'	7 fc
20'	15 fc	27.1'	4 fc
24'	10 fc	32.6'	3 fc

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.
15'	10'	59	0.55	51	0.55
18'	12'	38	0.36	33	0.36
22'	14'	33	0.31	21	0.23
Delivered Illuminance Rating: (DIR)		107 FC per W/Sq. Ft.		93 FC per W/Sq. Ft.	
Recessed mounting Square rooms used for multiple units: RCR 2: Length & Width = Ceiling Ht. - 2.5' x 5.00 RCR 4: Length & Width = Ceiling Ht. - 2.5' x 2.50 * Average Footcandles at 2.5' Above Floor					

Delivered Lumens: 6384
Luminaire Watts: 60
LER: 106.40

CP at 0° (Nadir): 5824
CRI: 80

Beam Angle: 68°
Spacing Ratio: 1.06

Lumen 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

See Page 1 for System Watts for all outputs

