

4" ROUND DOWNLIGHT

IC NEW CONSTRUCTION

Spectrum's Infinium 4" recessed round downlight series features a shallow plenum housing for accent and general illumination.

LUMENS AND WATTAGE CHART				
PART NUMBER	SOURCE LUMENS ¹	DELIVERED LUMENS ²	SYSTEM WATTS	LPW
SGECS4 FX10L	1000	720	6.6	109
SGECS4 FX20L	2000	1501	14.1	106
SGECS4 FX30L	3000	2221	21.9	101
SGECS4 FX40L	4000	3009	30.3	99

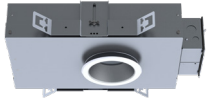
¹ Nominal Source Lumens ² Nominal Delivered Lumens at 35K SO SG

PROJECT: _____
TYPE: _____



AVAILABLE HOUSING TYPE

SGECS4FX - IC New Construction



HOUSING						
SERIES	LUMENS	CRI/CCT	DRIVER / VOLTAGE	OPTIONS	MOUNTING	
SGECS4	80 CRI		DX 1%, 0-10V, 120V/277V DS10X 10%, 0-10V, 120V/277V	EMRM Remote Emergency Battery Pack PR Deep Ceiling Extension Contact Factory EB Black Housing	BH27 27" Solid Bars Standard Bar Hanger H12 12"-24" Expandable Bars CB24 24" C-Channel Bars	
	FX10L 1000 Lm	30K 3000K				
	FX20L 2000 Lm	35K 3500K				
	FX30L 3000 Lm	40K 4000K				
	FX40L 4000 Lm	50K 5000K				
	90 CRI					
	FX10L 1000 Lm	27HK 2700K				
	FX20L 2000 Lm	30HK 3000K				
		35HK 3500K				
		40HK 4000K				

AVAILABLE TRIMS

AR4FX60/SO - SOLITE LENS (60°) **AR4FX80/FO** - WHITE OPTICAL ACRYLIC (80°)



TRIM OPTIONS					
TRIM TYPE	LENS	FINISH	FLANGE FINISH	OPTION	
AR4FX60 Downlight 60° Nominal Beam	SO Solite™ Micro Prism Lens	MW Matte White	MF Matching Flange	GS Gasket GS is Included with WL Option	WL Wet Location
		MB Matte Black			
AR4FX80 Downlight 80° Nominal Beam	FO White Optical Acrylic	SG Semi-Diffuse	WF White Flange For Use with Non-White Trim Finish		
		PT Platinum Silver			
		CC Custom Color			

EXAMPLE: SGECS4FX10L35KDS10X/BH27/AR4FX60SOMWMF

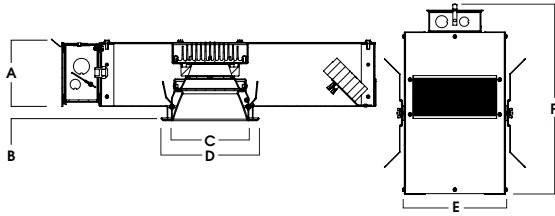
Dimensions and values shown are nominal. Spectrum Lighting continually works to improve products and reserves the right to make changes which may alter the performance or appearance of products.



HOUSING DIMENSIONS

SGECS4 - IC NEW CONSTRUCTION

IC rated frame-in kit for new construction with direct insulation contact compatibility.



A	B	C	D	E	F
3.6	.625	4.0	5.4	9.7	17.8
91.4 mm	15.9 mm	101.6 mm	137.2 mm	246.4 mm	452.1 mm

Ceiling Cutout: Ø 4.7"

FEATURES

APPLICATION

High lumen, 3.6" deep 4" aperture recessed LED downlight.

FEATURES

Zhaga international standard LED module for ease of maintenance and future replacement. Tool-less LED module, driver, and J-Box access. Multi-Bar mounting brackets, fit a variety of mounting bars. Integral 5/8" (.625) collar, see PR option for thicker ceilings. BH27 Standard mounting bars included.

FINISH

Variety of powdercoat and anodized finishes available.

ELECTRONICS

LED system features high efficacy Philips LEDs. Standard CRI is >80. Drivers are overload and short circuit protected as well as thermally regulated. Sound rating A.

CONSTRUCTION

Housing/frame constructed of #20 ga. galvanized steel to resist corrosion. Self-flanged one piece trim spun from 0.063 3002 high purity aluminum and finished to specification. Passive machined aluminum heatsink.

CODE COMPLIANCE

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



PHOTOMETRIC DATA - 4" ROUND DOWNLIGHT

SGECS4FX 40L 35K XX AR4FX60 SO SG

CANDLEPOWER CURVE TEST SP-01169	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° 312 10%	6.5'	77 fc	6.9'	27 fc	9'	6'	71	0.72	88	1.03
	0° 3,250	0° - 20° 1,066 35%	7.5'	58 fc	7.9'	20 fc	12'	8'	48	0.48	41	0.48
	5° 3,201	0° - 30° 1,919 64%	8.5'	45 fc	9.0'	16 fc	16'	10'	32	0.33	20	0.24
	15° 2,721	0° - 40° 2,559 85%	10.0'	32 fc	10.6'	11 fc	Delivered Illuminance Rating: (DIR) 99 FC per W/Sq. Ft. 86 FC per W/Sq. Ft.					
	25° 1,872	0° - 60° 2,977 99%	12.0'	23 fc	12.7'	8 fc						
	35° 1,028	0° - 80° 3,000 100%	14.0'	17 fc	14.8'	6 fc	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					
	45° 379	Downlight 3,001 100%	16.0'	13 fc	16.9'	4 fc						
	55° 114	Total 3,009 100%	20.0'	8 fc	21.1'	3 fc						
	90° 1											

Delivered Lumens: 3,009
Luminaire Watts: 30.3
LER: 99.31

CP at 0° (Nadir): 3,250
CRI: 80+

Beam Angle: 56°
Spacing Ratio: 0.84

Lumen Multiplier: 10L x 0.24, 20L x 0.50, 30L x 0.75
CCT Multiplier: 30K x 0.97, 40K x 1.03, 50K x 1.03

SGECS4FX 40L 35K XX AR4FX60 SO MW

CANDLEPOWER CURVE TEST SP-01168	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° 233 8%	6.5'	56 fc	8.0'	18 fc	9'	6'	68	0.72	82	1.03
	0° 2,386	0° - 20° 836 28%	7.5'	42 fc	9.2'	13 fc	12'	8'	46	0.48	38	0.48
	5° 2,368	0° - 30° 1,585 53%	8.5'	33 fc	10.4'	10 fc	16'	10'	31	0.33	19	0.24
	15° 2,163	0° - 40° 2,181 74%	10.0'	24 fc	12.3'	7 fc	Delivered Illuminance Rating: (DIR) 94 FC per W/Sq. Ft. 79 FC per W/Sq. Ft.					
	25° 1,651	0° - 60° 2,763 93%	12.0'	17 fc	14.7'	5 fc						
	35° 955	0° - 80° 2,942 99%	14.0'	12 fc	17.2'	4 fc	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					
	45° 457	Downlight 2,955 100%	16.0'	9 fc	19.6'	3 fc						
	55° 245	Total 2,963 100%	20.0'	6 fc	24.5'	2 fc						
	90° 2											

Delivered Lumens: 2,963
Luminaire Watts: 30.3
LER: 97.79

CP at 0° (Nadir): 2,386
CRI: 80+

Beam Angle: 63°
Spacing Ratio: 0.94

Lumen Multiplier: 10L x 0.24, 20L x 0.50, 30L x 0.75
CCT Multiplier: 30K x 0.97, 40K x 1.03, 50K x 1.03



PHOTOMETRIC DATA - 4" ROUND DOWNLIGHT

SGECS4FX 40L 35K XX AR4FX80 FO MW

CANDLEPOWER CURVE TEST SP-01170	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																																								
	0°	0° - 10° 144 5%	Mounting Height AFF	<table border="1"> <thead> <tr> <th rowspan="2">Ceiling Height</th> <th rowspan="2">Fixture Spacing</th> <th colspan="2">RCR 2</th> <th colspan="2">RCR 4</th> </tr> <tr> <th>FC +</th> <th>W/Sq. Ft.</th> <th>FC +</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr> <td>9'</td> <td>6'</td> <td>59</td> <td>0.72</td> <td>69</td> <td>1.03</td> </tr> <tr> <td>12'</td> <td>8'</td> <td>39</td> <td>0.48</td> <td>32</td> <td>0.48</td> </tr> <tr> <td>16'</td> <td>10'</td> <td>27</td> <td>0.33</td> <td>16</td> <td>0.24</td> </tr> <tr> <td colspan="2">Delivered Illuminance Rating: (DIR)</td> <td colspan="2">82 FC per W/Sq. Ft.</td> <td colspan="2">67 FC per W/Sq. Ft.</td> </tr> <tr> <td colspan="6"> 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 </td> </tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 2		RCR 4		FC +	W/Sq. Ft.	FC +	W/Sq. Ft.	9'	6'	59	0.72	69	1.03	12'	8'	39	0.48	32	0.48	16'	10'	27	0.33	16	0.24	Delivered Illuminance Rating: (DIR)		82 FC per W/Sq. Ft.		67 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					
	Ceiling Height	Fixture Spacing	RCR 2				RCR 4																																					
			FC +		W/Sq. Ft.	FC +	W/Sq. Ft.																																					
	9'	6'	59		0.72	69	1.03																																					
	12'	8'	39		0.48	32	0.48																																					
	16'	10'	27		0.33	16	0.24																																					
	Delivered Illuminance Rating: (DIR)		82 FC per W/Sq. Ft.		67 FC per W/Sq. Ft.																																							
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	0° 1,466	0° - 20° 530 20%	6.5' 35 fc 11.2' 8 fc																																									
	5° 1,463	0° - 30° 1,074 41%	7.5' 26 fc 13.0' 6 fc																																									
15° 1,376	0° - 40° 1,642 62%	8.5' 20 fc 14.7' 4 fc																																										
25° 1,189	0° - 60° 2,404 91%	10.0' 15 fc 17.3' 3 fc																																										
35° 912	0° - 80° 2,610 99%	12.0' 10 fc 20.7' 2 fc																																										
45° 606	Downlight 2,625 100%	14.0' 7 fc 24.2' 2 fc																																										
55° 330	Total 2,633 100%	16.0' 6 fc 27.7' 1 fc																																										
90° 3		20.0' 4 fc 34.6' 1 fc																																										

Delivered Lumens: 2,633
Luminaire Watts: 30.3
LER: 86.90

CP at 0° (Nadir): 1,466
CRI: 80+

Beam Angle: 82°
Spacing Ratio: 1.10

Lumen Multiplier: 10L x 0.24, 20L x 0.50, 30L x 0.75
CCT Multiplier: 30K x 0.97, 40K x 1.03, 50K x 1.03

SGECS4FX 40L 35K XX AR4FX80 FO SG

CANDLEPOWER CURVE TEST SP-01171	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																																								
	0°	0° - 10° 189 7%	Mounting Height AFF	<table border="1"> <thead> <tr> <th rowspan="2">Ceiling Height</th> <th rowspan="2">Fixture Spacing</th> <th colspan="2">RCR 2</th> <th colspan="2">RCR 4</th> </tr> <tr> <th>FC +</th> <th>W/Sq. Ft.</th> <th>FC +</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr> <td>9'</td> <td>6'</td> <td>64</td> <td>0.72</td> <td>78</td> <td>1.03</td> </tr> <tr> <td>12'</td> <td>8'</td> <td>43</td> <td>0.48</td> <td>36</td> <td>0.48</td> </tr> <tr> <td>16'</td> <td>10'</td> <td>29</td> <td>0.33</td> <td>18</td> <td>0.24</td> </tr> <tr> <td colspan="2">Delivered Illuminance Rating: (DIR)</td> <td colspan="2">89 FC per W/Sq. Ft.</td> <td colspan="2">75 FC per W/Sq. Ft.</td> </tr> <tr> <td colspan="6"> 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 </td> </tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 2		RCR 4		FC +	W/Sq. Ft.	FC +	W/Sq. Ft.	9'	6'	64	0.72	78	1.03	12'	8'	43	0.48	36	0.48	16'	10'	29	0.33	18	0.24	Delivered Illuminance Rating: (DIR)		89 FC per W/Sq. Ft.		75 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					
	Ceiling Height	Fixture Spacing	RCR 2				RCR 4																																					
			FC +		W/Sq. Ft.	FC +	W/Sq. Ft.																																					
	9'	6'	64		0.72	78	1.03																																					
	12'	8'	43		0.48	36	0.48																																					
	16'	10'	29		0.33	18	0.24																																					
	Delivered Illuminance Rating: (DIR)		89 FC per W/Sq. Ft.		75 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																																											
	0° 1,917	0° - 20° 696 25%	6.5' 45 fc 10.1' 11 fc																																									
	5° 1,911	0° - 30° 1,406 51%	7.5' 34 fc 11.6' 8 fc																																									
15° 1,811	0° - 40° 2,090 76%	8.5' 27 fc 13.2' 7 fc																																										
25° 1,558	0° - 60° 2,722 99%	10.0' 19 fc 15.5' 5 fc																																										
35° 1,109	0° - 80° 2,752 100%	12.0' 13 fc 18.6' 3 fc																																										
45° 573	Downlight 2,753 100%	14.0' 10 fc 21.7' 2 fc																																										
55° 198	Total 2,761 100%	16.0' 7 fc 24.8' 2 fc																																										
90° 1		20.0' 5 fc 30.9' 1 fc																																										

Delivered Lumens: 2,761
Luminaire Watts: 30.3
LER: 91.12

CP at 0° (Nadir): 1,917
CRI: 80+

Beam Angle: 75°
Spacing Ratio: 1.09

Lumen Multiplier: 10L x 0.24, 20L x 0.50, 30L x 0.75
CCT Multiplier: 30K x 0.97, 40K x 1.03, 50K x 1.03



PHOTOMETRIC DATA - 4" ROUND DOWNLIGHT

SGECS4FX 20L 35HK XX AR4FX60 SO SG

CANDLEPOWER CURVE TEST SP-01180	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																												
	0°	0° - 10° 156 10%	Mounting Height AFF	<table border="1"> <thead> <tr> <th rowspan="2">Ceiling Height</th> <th rowspan="2">Fixture Spacing</th> <th colspan="2">RCR 2</th> <th colspan="2">RCR 4</th> </tr> <tr> <th>FC +</th> <th>W/Sq. Ft.</th> <th>FC +</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr> <td>8'</td> <td>5'</td> <td>49</td> <td>0.55</td> <td>61</td> <td>0.79</td> </tr> <tr> <td>10'</td> <td>6'</td> <td>38</td> <td>0.42</td> <td>33</td> <td>0.42</td> </tr> <tr> <td>12'</td> <td>7'</td> <td>32</td> <td>0.36</td> <td>21</td> <td>0.26</td> </tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 2		RCR 4		FC +	W/Sq. Ft.	FC +	W/Sq. Ft.	8'	5'	49	0.55	61	0.79	10'	6'	38	0.42	33	0.42	12'	7'	32	0.36	21	0.26
	Ceiling Height	Fixture Spacing	RCR 2				RCR 4																									
			FC +	W/Sq. Ft.	FC +	W/Sq. Ft.																										
	8'	5'	49	0.55	61	0.79																										
	10'	6'	38	0.42	33	0.42																										
	12'	7'	32	0.36	21	0.26																										
	0° 1,621	0° - 20° 531 35%	5.5'	54 fc	5.8'	19 fc																										
	5° 1,594	0° - 30° 955 64%	6.5'	38 fc	6.8'	13 fc																										
	15° 1,352	0° - 40° 1,273 85%	7.5'	29 fc	7.9'	10 fc																										
	25° 932	0° - 60° 1,475 99%	8.5'	22 fc	9.0'	8 fc																										
	35° 511	0° - 80° 1,486 99%	10.0'	16 fc	10.5'	6 fc																										
	45° 189	Downlight 1,487 99%	12.0'	11 fc	12.6'	4 fc																										
55° 53	Total 1,496 100%	14.0'	8 fc	14.8'	3 fc																											
90° 1		16.0'	6 fc	16.9'	2 fc																											
		Delivered Illuminance Rating: (DIR)		90 FC per W/Sq. Ft. 78 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: 1,496
Luminaire Watts: 16.6
LER: 90.12

CP at 0° (Nadir): 1,621
CRI: 90+

Beam Angle: 56°
Spacing Ratio: 0.83

Lumen Multiplier: 10L x 0.58
CCT Multiplier: 27HK x 0.93, 30HK x 0.97, 35HK x 1.00, 40HK x 1.02

SGECS4FX 20L 35HK XX AR4FX60 SO MW

CANDLEPOWER CURVE TEST SP-01179	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																												
	0°	0° - 10° 117 8%	Mounting Height AFF	<table border="1"> <thead> <tr> <th rowspan="2">Ceiling Height</th> <th rowspan="2">Fixture Spacing</th> <th colspan="2">RCR 2</th> <th colspan="2">RCR 4</th> </tr> <tr> <th>FC +</th> <th>W/Sq. Ft.</th> <th>FC +</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr> <td>8'</td> <td>5'</td> <td>49</td> <td>0.55</td> <td>60</td> <td>0.79</td> </tr> <tr> <td>10'</td> <td>6'</td> <td>38</td> <td>0.42</td> <td>32</td> <td>0.42</td> </tr> <tr> <td>12'</td> <td>7'</td> <td>32</td> <td>0.36</td> <td>20</td> <td>0.26</td> </tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 2		RCR 4		FC +	W/Sq. Ft.	FC +	W/Sq. Ft.	8'	5'	49	0.55	60	0.79	10'	6'	38	0.42	32	0.42	12'	7'	32	0.36	20	0.26
	Ceiling Height	Fixture Spacing	RCR 2				RCR 4																									
			FC +	W/Sq. Ft.	FC +	W/Sq. Ft.																										
	8'	5'	49	0.55	60	0.79																										
	10'	6'	38	0.42	32	0.42																										
	12'	7'	32	0.36	20	0.26																										
	0° 1,194	0° - 20° 423 27%	5.5'	39 fc	7.0'	12 fc																										
	5° 1,187	0° - 30° 811 52%	6.5'	28 fc	8.3'	8 fc																										
	15° 1,095	0° - 40° 1,132 73%	7.5'	21 fc	9.6'	6 fc																										
	25° 855	0° - 60° 1,446 93%	8.5'	17 fc	10.9'	5 fc																										
	35° 515	0° - 80° 1,536 99%	10.0'	12 fc	12.8'	4 fc																										
	45° 249	Downlight 1,543 99%	12.0'	8 fc	15.3'	2 fc																										
55° 128	Total 1,551 100%	14.0'	6 fc	17.9'	2 fc																											
90° 2		16.0'	5 fc	20.5'	1 fc																											
		Delivered Illuminance Rating: (DIR)		90 FC per W/Sq. Ft. 76 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: 1,551
Luminaire Watts: 16.6
LER: 93.43

CP at 0° (Nadir): 1,194
CRI: 90+

Beam Angle: 65°
Spacing Ratio: 0.98

Lumen Multiplier: 10L x 0.58
CCT Multiplier: 27HK x 0.93, 30HK x 0.97, 35HK x 1.00, 40HK x 1.02

PHOTOMETRIC DATA - 4" ROUND DOWNLIGHT

SGECS4FX 20L 35HK XX AR4FX80 FO MW

CANDLEPOWER CURVE TEST SP-01177	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																												
	0°	0° - 10° 76 6%	Mounting Height AFF	<table border="1"> <thead> <tr> <th rowspan="2">Ceiling Height</th> <th rowspan="2">Fixture Spacing</th> <th colspan="2">RCR 2</th> <th colspan="2">RCR 4</th> </tr> <tr> <th>FC +</th> <th>W/Sq. Ft.</th> <th>FC +</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr> <td>8'</td> <td>5'</td> <td>43</td> <td>0.55</td> <td>51</td> <td>0.79</td> </tr> <tr> <td>10'</td> <td>6'</td> <td>33</td> <td>0.42</td> <td>27</td> <td>0.42</td> </tr> <tr> <td>12'</td> <td>7'</td> <td>28</td> <td>0.36</td> <td>17</td> <td>0.26</td> </tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 2		RCR 4		FC +	W/Sq. Ft.	FC +	W/Sq. Ft.	8'	5'	43	0.55	51	0.79	10'	6'	33	0.42	27	0.42	12'	7'	28	0.36	17	0.26
	Ceiling Height	Fixture Spacing	RCR 2				RCR 4																									
			FC +	W/Sq. Ft.	FC +	W/Sq. Ft.																										
	8'	5'	43	0.55	51	0.79																										
	10'	6'	33	0.42	27	0.42																										
	12'	7'	28	0.36	17	0.26																										
	0° 774	0° - 20° 280 20%	5.5'	26 fc	9.5'	6 fc																										
	5° 771	0° - 30° 567 41%	6.5'	18 fc	11.2'	4 fc																										
	15° 726	0° - 40° 867 63%	7.5'	14 fc	12.9'	3 fc																										
	25° 629	0° - 60° 1,265 92%	8.5'	11 fc	14.7'	2 fc																										
	35° 482	0° - 80° 1,365 99%	10.0'	8 fc	17.2'	2 fc																										
45° 318	Downlight 1,371 99%	12.0'	5 fc	20.7'	1 fc																											
55° 170	Total 1,379 100%	14.0'	4 fc	24.1'	1 fc																											
90° 1		16.0'	3 fc	27.6'	1 fc																											
				Delivered Illuminance Rating: (DIR)	78 FC per W/Sq. Ft. 64 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: 1,379
Luminaire Watts: 16.6
LER: 83.07

CP at 0° (Nadir): 774
CRI: 90+

Beam Angle: 82°
Spacing Ratio: 1.10

Lumen Multiplier: 10L x 0.58
CCT Multiplier: 27HK x 0.93, 30HK x 0.97, 35HK x 1.00, 40HK x 1.02

SGECS4FX 20L 35HK XX AR4FX80 FO SG

CANDLEPOWER CURVE TEST SP-01178	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																												
	0°	0° - 10° 94 7%	Mounting Height AFF	<table border="1"> <thead> <tr> <th rowspan="2">Ceiling Height</th> <th rowspan="2">Fixture Spacing</th> <th colspan="2">RCR 2</th> <th colspan="2">RCR 4</th> </tr> <tr> <th>FC +</th> <th>W/Sq. Ft.</th> <th>FC +</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr> <td>8'</td> <td>5'</td> <td>45</td> <td>0.55</td> <td>54</td> <td>0.79</td> </tr> <tr> <td>10'</td> <td>6'</td> <td>34</td> <td>0.42</td> <td>29</td> <td>0.42</td> </tr> <tr> <td>12'</td> <td>7'</td> <td>29</td> <td>0.36</td> <td>18</td> <td>0.26</td> </tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 2		RCR 4		FC +	W/Sq. Ft.	FC +	W/Sq. Ft.	8'	5'	45	0.55	54	0.79	10'	6'	34	0.42	29	0.42	12'	7'	29	0.36	18	0.26
	Ceiling Height	Fixture Spacing	RCR 2				RCR 4																									
			FC +	W/Sq. Ft.	FC +	W/Sq. Ft.																										
	8'	5'	45	0.55	54	0.79																										
	10'	6'	34	0.42	29	0.42																										
	12'	7'	29	0.36	18	0.26																										
	0° 961	0° - 20° 348 25%	5.5'	32 fc	8.5'	8 fc																										
	5° 955	0° - 30° 703 51%	6.5'	23 fc	10.0'	6 fc																										
	15° 904	0° - 40° 1,045 76%	7.5'	17 fc	11.6'	4 fc																										
	25° 777	0° - 60° 1,357 98%	8.5'	13 fc	13.1'	3 fc																										
	35° 553	0° - 80° 1,371 99%	10.0'	10 fc	15.5'	2 fc																										
45° 287	Downlight 1,372 99%	12.0'	7 fc	18.5'	2 fc																											
55° 96	Total 1,379 100%	14.0'	5 fc	21.6'	1 fc																											
90° 1		16.0'	4 fc	24.7'	1 fc																											
				Delivered Illuminance Rating: (DIR)	81 FC per W/Sq. Ft. 68 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: 1,379
Luminaire Watts: 16.6
LER: 83.07

CP at 0° (Nadir): 961
CRI: 90+

Beam Angle: 75°
Spacing Ratio: 1.09

Lumen Multiplier: 10L x 0.58
CCT Multiplier: 27HK x 0.93, 30HK x 0.97, 35HK x 1.00, 40HK x 1.02

