

4" SQUARE DOWNLIGHT

IC NEW CONSTRUCTION

Spectrum's Infinium 4" recessed square 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
SGECS4SQ FX10L	1000	760	6.6	115
SGECS4SQ FX20L	2000	1583	14.1	112
SGECS4SQ FX30L	3000	2374	21.9	108
SGECS4SQ FX40L	4000	3170	30.3	105

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

PROJECT: _____
 TYPE: _____



AVAILABLE HOUSING TYPE

SGECS4SQFX - IC New Construction



HOUSING							
SERIES	LUMENS	CRI/CCT	DRIVER / VOLTAGE	OPTIONS	MOUNTING		
SGECS4SQ	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

CA4FX/SO - SOLITE LENS **CA4FX/FO** - WHITE OPTICAL ACRYLIC



TRIM OPTIONS					
TRIM TYPE	LENS	FINISH	FLANGE FINISH	OPTION	
CA4FX Downlight	SO Solite™ Micro Prism Lens	MW Matte White MB Matte Black SG Semi-Diffuse PT Platinum Silver CC Custom Color	MF Matching Flange Not Available with SG Finish WF White Flange For Use with Non-White Trim Finish	GS Gasket WL Wet Location GS is included with WL Option	
	FO White Optical Acrylic				

EXAMPLE: SGECS4SQFX10L35KDS10X/BH27/CA4FXSOMWMF

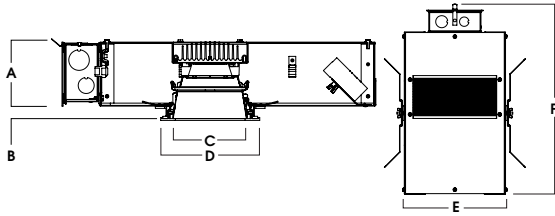
Dimensions and values shown are nominal. Spectrum Lighting continually works to improve products and reserves the right to make changes which may alter the performance or appearance of products.



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	3.8	5.4	9.7	17.8
91.4 mm	15.9 mm	96.5 mm	137.2 mm	246.4 mm	452.1 mm

Ceiling Cutout: 4.8 SQ.

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. Non-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" SQUARE DOWNLIGHT

SGECS4SQFX 40L 35K XX CA4FX SO SG

CANDLEPOWER CURVE TEST SP-01175	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° 186 6%	6.5'	44 fc	10.6'	10 fc	9'	6'	72	0.72	87	1.03
	0° 1,847	0° - 20° 736 24%	7.5'	33 fc	12.2'	8 fc	12'	8'	49	0.48	41	0.48
	5° 1,857	0° - 30° 1,590 51%	8.5'	26 fc	13.9'	6 fc	16'	10'	24	0.24	20	0.24
	15° 1,940	0° - 40° 2,398 77%	10.0'	18 fc	16.3'	4 fc	Delivered Illuminance Rating: (DIR)		100 FC per W/Sq. Ft.		85 FC per W/Sq. Ft.	
	25° 1,875	0° - 60° 3,034 97%	12.0'	13 fc	19.6'	3 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					
	35° 1,311	0° - 80° 3,114 99%	14.0'	9 fc	22.9'	2 fc						
	45° 578	Downlight 3,121 100%	16.0'	7 fc	26.1'	2 fc						
	55° 195	Total 3,131 100%	20.0'	5 fc	32.7'	1 fc						
	90° 2											

Delivered Lumens: 3,131
Luminaire Watts: 30.3
LER: 103.33

CP at 0° (Nadir): 1,847
CRI: 80+

Beam Angle: 78°
Spacing Ratio: 1.25

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

SGECS4SQFX 40L 35K XX CA4FX SO MW

CANDLEPOWER CURVE TEST SP-01174	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° 196 6%	6.5'	47 fc	9.7'	12 fc	9'	6'	71	0.72	85	1.03
	0° 1,978	0° - 20° 739 23%	7.5'	35 fc	11.2'	9 fc	12'	8'	48	0.48	40	0.48
	5° 1,977	0° - 30° 1,501 47%	8.5'	27 fc	12.7'	7 fc	16'	10'	32	0.33	20	0.24
	15° 1,932	0° - 40° 2,184 69%	10.0'	20 fc	14.9'	5 fc	Delivered Illuminance Rating: (DIR)		99 FC per W/Sq. Ft.		82 FC per W/Sq. Ft.	
	25° 1,682	0° - 60° 2,858 90%	12.0'	14 fc	17.9'	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					
	35° 1,102	0° - 80° 3,132 99%	14.0'	10 fc	20.9'	3 fc						
	45° 535	Downlight 3,161 100%	16.0'	8 fc	23.9'	2 fc						
	55° 277	Total 3,170 100%	20.0'	5 fc	29.9'	1 fc						
	90° 6											

Delivered Lumens: 3,170
Luminaire Watts: 30.3
LER: 104.62

CP at 0° (Nadir): 1,978
CRI: 80+

Beam Angle: 73°
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



PHOTOMETRIC DATA - 4" SQUARE DOWNLIGHT

SGECS4SQFX 40L 35K XX CA4FX FO MW

CANDLEPOWER CURVE TEST SP-01172	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° 153 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>67</td> <td>0.72</td> <td>78</td> <td>1.03</td> </tr> <tr> <td>12'</td> <td>8'</td> <td>45</td> <td>0.48</td> <td>37</td> <td>0.48</td> </tr> <tr> <td>16'</td> <td>10'</td> <td>30</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">93 FC per W/Sq. Ft.</td> <td colspan="2">76 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'	67	0.72	78	1.03	12'	8'	45	0.48	37	0.48	16'	10'	30	0.33	18	0.24	Delivered Illuminance Rating: (DIR)		93 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					
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	0° 1,565	0° - 20° 564 18%	6.5' 37 fc 12.0' 7 fc																																									
	5° 1,556	0° - 30° 1,148 38%	7.5' 28 fc 13.8' 6 fc																																									
	15° 1,462	0° - 40° 1,779 58%	8.5' 22 fc 15.7' 4 fc																																									
25° 1,275	0° - 60° 2,699 88%	10.0' 16 fc 18.4' 3 fc																																										
35° 1,014	0° - 80° 3,016 99%	12.0' 11 fc 22.1' 2 fc																																										
45° 711	Downlight 3,046 100%	14.0' 8 fc 25.8' 2 fc																																										
55° 415	Total 3,056 100%	16.0' 6 fc 29.5' 1 fc																																										
90° 6		20.0' 4 fc 36.9' 1 fc																																										

Delivered Lumens: 3,056
Luminaire Watts: 30.3
LER: 100.86

CP at 0° (Nadir): 1,565
CRI: 80+

Beam Angle: 85°
Spacing Ratio: 1.11

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

SGECS4SQFX 40L 35K XX CA4FX FO SG

CANDLEPOWER CURVE TEST SP-01173	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° 143 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>68</td> <td>0.72</td> <td>79</td> <td>1.03</td> </tr> <tr> <td>12'</td> <td>8'</td> <td>46</td> <td>0.48</td> <td>37</td> <td>0.48</td> </tr> <tr> <td>16'</td> <td>10'</td> <td>23</td> <td>0.24</td> <td>18</td> <td>0.24</td> </tr> <tr> <td colspan="2">Delivered Illuminance Rating: (DIR)</td> <td colspan="2">95 FC per W/Sq. Ft.</td> <td colspan="2">77 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'	68	0.72	79	1.03	12'	8'	46	0.48	37	0.48	16'	10'	23	0.24	18	0.24	Delivered Illuminance Rating: (DIR)		95 FC per W/Sq. Ft.		77 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					
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			FC +	W/Sq. Ft.	FC +	W/Sq. Ft.																																						
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	0° 1,442	0° - 20° 538 18%	6.5' 34 fc 14.4' 5 fc																																									
	5° 1,441	0° - 30° 1,131 37%	7.5' 26 fc 16.7' 4 fc																																									
	15° 1,402	0° - 40° 1,816 60%	8.5' 20 fc 18.9' 3 fc																																									
25° 1,289	0° - 60° 2,853 94%	10.0' 14 fc 22.2' 2 fc																																										
35° 1,099	0° - 80° 3,023 99%	12.0' 10 fc 26.7' 2 fc																																										
45° 822	Downlight 3,032 100%	14.0' 7 fc 31.1' 1 fc																																										
55° 458	Total 3,041 100%	16.0' 6 fc 35.5' 1 fc																																										
90° 3		20.0' 4 fc 44.4' 1 fc																																										

Delivered Lumens: 3,041
Luminaire Watts: 30.3
LER: 100.36

CP at 0° (Nadir): 1,442
CRI: 80+

Beam Angle: 96°
Spacing Ratio: 1.23

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" SQUARE DOWNLIGHT

SGECS4SQFX 20L 35HK XX CA4FX SO SG

CANDLEPOWER CURVE TEST SP-01184	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° 90 6%	Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	<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>59</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>23</td> <td>0.26</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	59	0.79	10'	6'	38	0.42	32	0.42	12'	7'	23	0.26	20	0.26
	Ceiling Height	Fixture Spacing	RCR 2		RCR 4																														
			FC +	W/Sq. Ft.	FC +	W/Sq. Ft.																													
	8'	5'	49	0.55	59	0.79																													
	10'	6'	38	0.42	32	0.42																													
	12'	7'	23	0.26	20	0.26																													
	0° 918	0° - 20° 363 24%	5.5'	30 fc	8.0'	8 fc	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																												
	5° 924	0° - 30° 782 52%	6.5'	22 fc	9.5'	6 fc																													
	15° 966	0° - 40° 1,171 77%	7.5'	16 fc	10.9'	4 fc																													
	25° 872	0° - 60° 1,468 97%	8.5'	13 fc	12.4'	3 fc																													
	35° 542	0° - 80° 1,501 99%	10.0'	9 fc	14.6'	2 fc																													
45° 218	Downlight 1,505 99%	12.0'	6 fc	17.5'	2 fc																														
55° 82	Total 1,513 100%	14.0'	5 fc	20.4'	1 fc																														
90° 2		16.0'	4 fc	23.3'	1 fc																														

Delivered Lumens: 1,513
Luminaire Watts: 16.6
LER: 91.14

CP at 0° (Nadir): 918
CRI: 90+

Beam Angle: 72°
Spacing Ratio: 1.17

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

SGECS4SQFX 20L 35HK XX CA4FX SO MW

CANDLEPOWER CURVE TEST SP-01183	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 6%	Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	<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>48</td> <td>0.55</td> <td>57</td> <td>0.79</td> </tr> <tr> <td>10'</td> <td>6'</td> <td>37</td> <td>0.42</td> <td>31</td> <td>0.42</td> </tr> <tr> <td>12'</td> <td>7'</td> <td>31</td> <td>0.36</td> <td>19</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'	48	0.55	57	0.79	10'	6'	37	0.42	31	0.42	12'	7'	31	0.36	19	0.26
	Ceiling Height	Fixture Spacing	RCR 2		RCR 4																														
			FC +	W/Sq. Ft.	FC +	W/Sq. Ft.																													
	8'	5'	48	0.55	57	0.79																													
	10'	6'	37	0.42	31	0.42																													
	12'	7'	31	0.36	19	0.26																													
	0° 976	0° - 20° 361 24%	5.5'	32 fc	7.5'	9 fc	Delivered Illuminance Rating: (DIR) 87 FC per W/Sq. Ft. 72 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																												
	5° 973	0° - 30° 734 48%	6.5'	23 fc	8.9'	6 fc																													
	15° 945	0° - 40° 1,062 70%	7.5'	17 fc	10.3'	5 fc																													
	25° 781	0° - 60° 1,377 91%	8.5'	14 fc	11.7'	4 fc																													
	35° 470	0° - 80° 1,500 99%	10.0'	10 fc	13.7'	3 fc																													
45° 217	Downlight 1,511 99%	12.0'	7 fc	16.5'	2 fc																														
55° 121	Total 1,518 100%	14.0'	5 fc	19.2'	1 fc																														
90° 2		16.0'	4 fc	21.9'	1 fc																														

Delivered Lumens: 1,518
Luminaire Watts: 16.6
LER: 91.45

CP at 0° (Nadir): 976
CRI: 90+

Beam Angle: 69°
Spacing Ratio: 1.04

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" SQUARE DOWNLIGHT

SGECS4SQFX 20L 35HK XX CA4FX FO MW

CANDLEPOWER CURVE TEST SP-01181	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° 73 5%	Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4	
	0° 765	0° - 20° 274 19%	5.5'	25 fc	9.9'	5 fc	8'	5'	FC +	W/Sq. Ft.	FC +	W/Sq. Ft.
	5° 760	0° - 30° 559 38%	6.5'	18 fc	11.7'	4 fc	10'	6'	45	0.55	53	0.79
	15° 713	0° - 40° 865 59%	7.5'	14 fc	13.5'	3 fc	12'	7'	35	0.42	28	0.42
	25° 618	0° - 60° 1,304 89%	8.5'	11 fc	15.3'	2 fc	Delivered Illuminance Rating: (DIR)		82 FC per W/Sq. Ft.		67 FC per W/Sq. Ft.	
	35° 487	0° - 80° 1,445 99%	10.0'	8 fc	18.0'	2 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° 335	Downlight 1,457 99%	12.0'	5 fc	21.5'	1 fc						
	55° 188	Total 1,466 100%	14.0'	4 fc	25.1'	1 fc						
	90° 3		16.0'	3 fc	28.7'	1 fc						

Delivered Lumens: 1,466
Luminaire Watts: 16.6
LER: 88.31

CP at 0° (Nadir): 765
CRI: 90+

Beam Angle: 84°
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

SGECS4SQFX 20L 35HK XX CA4FX FO SG

CANDLEPOWER CURVE TEST SP-01182	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° 69 5%	Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4	
	0° 709	0° - 20° 263 18%	5.5'	23 fc	11.6'	4 fc	8'	5'	FC +	W/Sq. Ft.	FC +	W/Sq. Ft.
	5° 709	0° - 30° 554 38%	6.5'	17 fc	13.7'	3 fc	10'	6'	46	0.55	54	0.79
	15° 688	0° - 40° 889 60%	7.5'	13 fc	15.9'	2 fc	12'	7'	36	0.42	29	0.42
	25° 626	0° - 60° 1,388 94%	8.5'	10 fc	18.0'	2 fc	Delivered Illuminance Rating: (DIR)		84 FC per W/Sq. Ft.		68 FC per W/Sq. Ft.	
	35° 525	0° - 80° 1,460 99%	10.0'	7 fc	21.1'	1 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° 383	Downlight 1,463 99%	12.0'	5 fc	25.4'	1 fc						
	55° 205	Total 1,472 100%	14.0'	4 fc	29.6'	1 fc						
	90° 2		16.0'	3 fc	33.8'	0 fc						

Delivered Lumens: 1,472
Luminaire Watts: 16.6
LER: 88.67

CP at 0° (Nadir): 709
CRI: 90+

Beam Angle: 93°
Spacing Ratio: 1.20

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

