

SD6

6" SQUARE RECESSED

A versatile 6" square aperture recessed LED fixture, offered in downlight, accent, and wall wash. Available in flanged and flangeless, with a wide range of lumen outputs and optical control options to suit a variety of applications. See page 2 for lumens/wattage data.

PROJECT: _____
 QUANTITY: _____ TYPE: _____



PRODUCT SELECTOR GUIDE

SERIES	LUMENS	CCT	OPTICS	DRIVER / DIMMING / VOLTAGE	OPTIONS	BAR HANGER	TRIM	FINISH	FLANGE FINISH	LENSES
EXAMPLE										
SDF06PC	10L	35K	MD	DS2W1	EM	H12	SD6FPC	MW	MF	SOX

FIXTURE HOUSING SPECIFICATION

SERIES	LUMENS ¹	CCT	OPTIC	DRIVER / DIMMING / VOLTAGE ²	EMERGENCY	BAR HANGER OPTIONS ³
FLANGE SDF06PC Downlight SAF06PC Adjustable SWF06PC Wall Wash	10L 851 Lm 15L 1198 Lm 20L 1644 Lm 30L 2431 Lm 40L 3196 Lm 50L 3885 Lm	27K 2700K 30K 3000K 35K 3500K 40K 4000K	DOWNLIGHT ND 18° MD 24° WD 50° XW 60° ADJUSTABLE ND 21° MD 33° WD 48° XW 54° WALL WASH WD Wide (not available in flangeless) XW Extra Wide	E Electronic Driver DO10 1% 0-10v DS2W1 ELV/Triac AWN Athena Wireless Node (RF Module Only)	1 120V 2 277V EM Integral Emergency Battery	BH27⁴ 27" Solid Bars H12 12" - 24" Expandable Bars CB24 24" C-Channel Bars
FLANGELESS SDZ06PC Downlight SAZ06PC Adjustable SWZ06PC Wall Wash	10L 739 Lm 15L 1040 Lm 20L 1427 Lm 30L 2110 Lm 40L 2774 Lm 50L 3372 Lm	27HK 2700K 30HK 3000K 35HK 3500K 40HK 4000K				

AVAILABLE TRIM / MODULE TYPES



TRIM / MODULE SPECIFICATION

TRIM	FINISH	FLANGE FINISH	LENSES ¹⁰
FLANGE⁵ SD6FPC Downlight SA6FPC Adjustable SW6FPC Wall Wash	MW^{6,7} Matte White MB Matte Black PT Platinum Silver SG^{8,9} Soft Glow HZ^{8,9} Haze CC⁹ Custom Color	FLANGE MF⁸ Match Flange NON MATCHING WF White Flange BF Black Flange SF Platinum Flange CCF Custom Color FLANGELESS No Option Available *Use MF for matching Flange when choosing MW SG/HZ/PT come with SF - Platinum Silver flange when selecting MF	DOWNLIGHT/ADJUSTABLE SOX¹¹ Solite Micro Prism Lens GLX¹¹ Clear Glass Lens SOW Solite Micro Prism Lens Wet Location GLW Clear Glass Lens Wet Location WALL WASH SKX¹² Linear Wall Wash Lens SKW Linear Wall Wash Lens Wet Location
FLANGELESS⁶ SD6NPC Downlight SA6NPC Adjustable SW6NPC Wall Wash	*Use MF for matching Flange when choosing MW ** Not available in Flangeless		

NOTES:

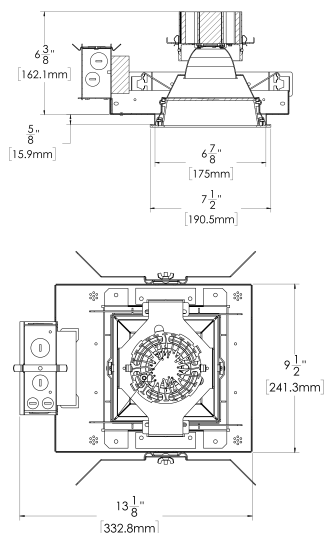
1 Nominal Delivered Lumens at 80CRI at any CCT with MD-SG-MF 2 Contact Factory for Additional Options 3 See Products Options Page for Details 4 Standard Bar Hangers 5 "F" Indicates Self-Flanged Trim 6 "N" Indicates Flangeless Trim 7 Standard Finish (MW) 8 Anodized Reflector with Matte White Flange 9 Contact Factory for Special Finishes 10 Contact Factory for Special Lenses / Louvers 11 Standard Lens for MD, WD, XW - Dwn & Adj 12 Standard Lens for ND - Dwn & Adj 13 Standard Lens for Wall Wash



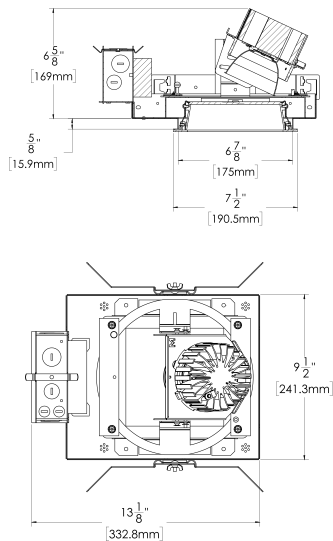
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HOUSING DIMENSIONS

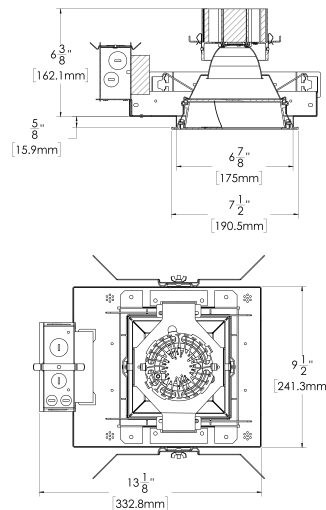
SDF06PC - Downlight



SAF06PC -Adjustable



SWF06PC - Wall Wash



LUMENS / WATTAGE DATA Nominal Delivered Lumens at 80CRI at any CCT with MD-SG-MF.

SDF06PC - Downlight

PART NUMBER	SOURCE LUMENS	DELIVERED LUMENS	SYSTEM WATTS	LPW
SDF06PC10L	1000	824	6.77	121.71
SDF06PC15L	1500	1198	9.91	120.89
SDF06PC20L	2000	1566	13.78	113.64
SDF06PC30L	3000	2300	20.41	112.69
SDF06PC40L	4000	3180	27.83	114.27
SDF06PC50L	5000	2948	35.34	111.71

SAF06PC -Adjustable

PART NUMBER	SOURCE LUMENS	DELIVERED LUMENS	SYSTEM WATTS	LPW
SAF06PC10L	1000	660	6.85	96.35
SAF06PC15L	1500	996	9.93	100.3
SAF06PC20L	2000	1309	13.76	95.13
SAF06PC30L	3000	1881	20.48	91.85
SAF06PC40L	4000	2688	28.11	95.62
SAF06PC50L	5000	3390	34.85	97.21

SWF06PC - Wall Wash

PART NUMBER	SOURCE LUMENS	DELIVERED LUMENS	SYSTEM WATTS	LPW
SWF06PC10L	1000	557	6.78	82.15
SWF06PC15L	1500	793	10.2	79.14
SWF06PC20L	2000	1065	13.78	77.29
SWF06PC30L	3000	1560	20.37	76.58
SWF06PC40L	4000	2116	28.14	75.2
SWF06PC50L	5000	2468	35.09	70.33

FINISH



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. Shallow plenum design. Tool-less driver and j-box access. Posi-lock trim retention torsion springs.

- Adjustable Accent LED module tilts 30° and rotates 360°.

TRIM FINISH

A variety of architectural powdercoat and anodized finishes are available.

ELECTRONICS

LED system features state of the art, high efficiency LEDs providing consistent stable color with excellent CCT control over the life of the light engine. Base 80 min CRI with 3-step MacAdam ellipse binning. High CRI of 90 min is also available as a standard option. A variety of electronic 120/277V and dimming options are available. Emergency backup version available as standard option.

CONSTRUCTION

Housing/frame constructed of #20 ga. Galvanized steel to resist corrosion. Self-flanged or flangeless one-piece trim spun from 0.063" thick high purity aluminum and finished to specification.

CODE COMPLIANCE

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

OPTICS

ND - Narrow Beam



MD - Medium Beam



WD - Wide Beam



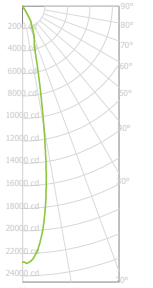
XW - Extra Wide Beam



WW - Wall Wash



SDF06PC50L35KNDE1-SD6FPCSGMF - Downlight

CANDLEPOWER CURVE TEST SP-R312	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT																																																																														
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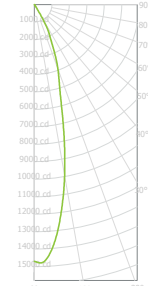
Delivered Lumens: 3922
Luminaire Watts: 35.41
LER: 110.76

CP at 0deg (Nadir): 22788
CRI: 80+

Beam Angle: 17.29
Spacing Ratio: 0.33

Lumen Multiplier: 10L x 0.208, 15L x 0.303, 20L x 0.397, 30L x 0.583, 40L x 0.805
CCT Multiplier: 27K x 0.952, 30K x 0.983, 40K x 1.032, 27HK x 0.787, 30HK x 0.85, 35HK x 0.868, 40HK x 0.892

SDF06PC50L35KMDE1-SD6FPCSGMF - Downlight

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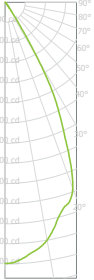
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Luminaire Watts: 35.34
LER: 111.71

CP at 0deg (Nadir): 14707
CRI: 80+

Beam Angle: 23.54
Spacing Ratio: 0.43

Lumen Multiplier: 10L x 0.208, 15L x 0.303, 20L x 0.397, 30L x 0.583, 40L x 0.805
CCT Multiplier: 27K x 0.952, 30K x 0.983, 40K x 1.032, 27HK x 0.787, 30HK x 0.85, 35HK x 0.868, 40HK x 0.892

SDF06PC50L35KWDE1-SD6FPCSGMF - Downlight

CANDLEPOWER CURVE TEST SP-R313	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT																																																																														
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0.00° 6487	0° - 20° 2051 52%																																																																																	
10.00° 5998	0° - 30° 3516 89%																																																																																	
20.00° 4912	0° - 40° 3927 99%																																																																																	
30.00° 1648	0° - 60° 3946 100%																																																																																	
40.00° 66	0° - 80° 3951 100%																																																																																	
50.00° 5	0° - 90° 3952 100%																																																																																	
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70.00° 2																																																																																		
80.00° 2																																																																																		
90.00° 1																																																																																		

Delivered Lumens: 3964
Luminaire Watts: 35.29
LER: 112.33

CP at 0deg (Nadir): 6487
CRI: 80+

Beam Angle: 50.09
Spacing Ratio: 0.83

Lumen Multiplier: 10L x 0.208, 15L x 0.303, 20L x 0.397, 30L x 0.583, 40L x 0.805
CCT Multiplier: 27K x 0.952, 30K x 0.983, 40K x 1.032, 27HK x 0.787, 30HK x 0.85, 35HK x 0.868, 40HK x 0.892

SDF06PC50L35KXWE1-SD6FPCSGMF - Downlight

CANDLEPOWER CURVE TEST SP-R314	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT								
	0.00°	0° - 10° 446 11%	Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4	
	0.00° 4823	0° - 20° 1726 43%	5.5'	159 fc	6.0'	53 fc	9'	4'	250	2.14	222	2.14
	5.00° 4698	0° - 30° 3389 85%	6.5'	114 fc	7.1'	38 fc	12'	6'	117	1.00	104	1.00
	10.00° 4494	0° - 40° 3934 99%	7.5'	86 fc	8.2'	29 fc	16'	10'	44	0.38	29	0.28
	15.00° 4466	0° - 60° 3964 100%	8.5'	67 fc	9.3'	22 fc	Delivered Illuminance Rating: (DIR)		117 FC per W/Sq. Ft. 104 FC per W/Sq. Ft.			
	20.00° 4854	0° - 80° 3969 100%	10.0'	48 fc	10.9'	16 fc						
	30.00° 2024	0° - 90° 3971 100%	12.0'	33 fc	13.1'	11 fc						
	40.00° 103	Total 3983 100%	14.0'	25 fc	15.3'	8 fc						
	50.00° 6		16.0'	19 fc	17.5'	6 fc						
	60.00° 3											
	70.00° 2											
	80.00° 2											
	90.00° 2											
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 Initial Footcandles at 2.5' Above Floor												

Delivered Lumens: 3983

CP at 0deg (Nadir): 4823

Beam Angle: 57.37

Lumen Multiplier: 10L x 0.208, 15L x 0.303, 20L x 0.397, 30L x 0.583, 40L x 0.805

Luminaire Watts: 35.31

CRI: 80+

Spacing Ratio: 0.99

CCT Multiplier: 27K x 0.952, 30K x 0.983, 40K x 1.032, 27HK x 0.787, 30HK x 0.85, 35HK x 0.868, 40HK x 0.892

LER: 112.80

SAF06PC50L35KNDE1-SA6FPCSGMF - Adjustable

CANDLEPOWER CURVE TEST SP-R345	INTENSITY	ZONAL LUMENS	INITIAL FC ON VERTICAL PLANE 30° aiming angle	INITIAL FC ON HORIZONTAL PLANE 30° aiming angle
	CP at 0°	0° - 10° 527 17%		
	0° 4813	0° - 20° 1827 58%		
	5° 11155	0° - 30° 2612 83%		
	15° 19382	0° - 40° 2989 95%		
	25° 5567	0° - 60° 3141 100%		
	35° 1946	0° - 80° 3145 100%		
	45° 945	0° - 90° 3146 100%		
	55° 13			
	65° 6			
	75° 1			
	85° 1			
	90° 1			

Delivered Lumens: 3146

CP at 0° (Nadir): 4813

Beam Angle: 17°

Lumen Multiplier: 10L x 0.202, 20L x 0.401, 30L x 0.577, 40L x 0.824
27K x 0.903, 30K x 1.039, 40K x 1.132, 27HK x 1.06, 30HK x 1.013, 35HK x 0.975, 40HK x 0.996

Luminaire Watts: 35.06

Efficacy: 89.73

SAF06PC50L35KMDE1-SA6FPCSGMF - Adjustable

CANDLEPOWER CURVE TEST SP-R344	INTENSITY	ZONAL LUMENS	INITIAL FC ON VERTICAL PLANE 30° aiming angle	INITIAL FC ON HORIZONTAL PLANE 30° aiming angle
	CP at 0°	0° - 10° 473 15%		
	0° 4984	0° - 20° 1639 52%		
	5° 8645	0° - 30° 2581 81%		
	15° 12969	0° - 40° 3008 95%		
	25° 6700	0° - 60° 3165 100%		
	35° 2362	0° - 80° 3171 100%		
	45° 1027	0° - 90° 3173 100%		
	55° 21			
	65° 8			
	75° 2			
	85° 2			
	90° 1			

Delivered Lumens: 3173

CP at 0° (Nadir): 4984

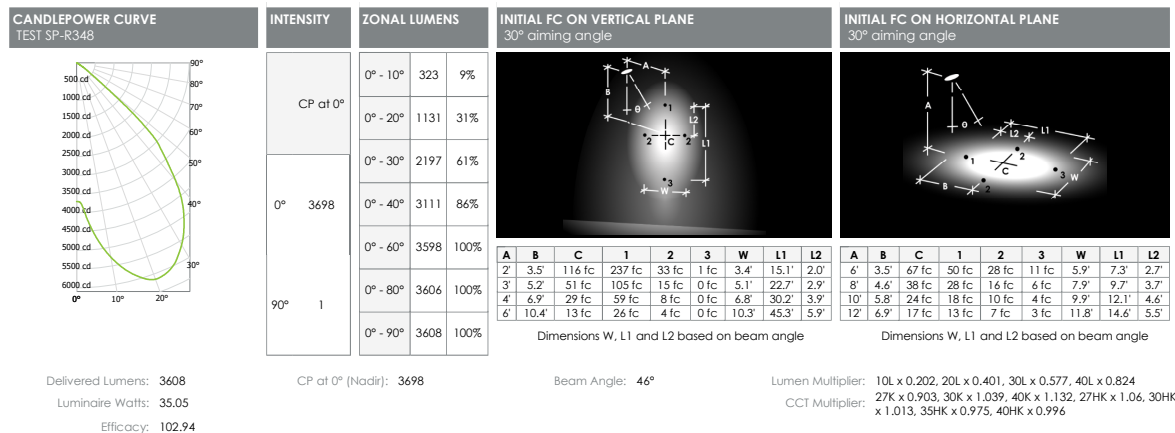
Beam Angle: 23°

Lumen Multiplier: 10L x 0.202, 20L x 0.401, 30L x 0.577, 40L x 0.824
27K x 0.903, 30K x 1.039, 40K x 1.132, 27HK x 1.06, 30HK x 1.013, 35HK x 0.975, 40HK x 0.996

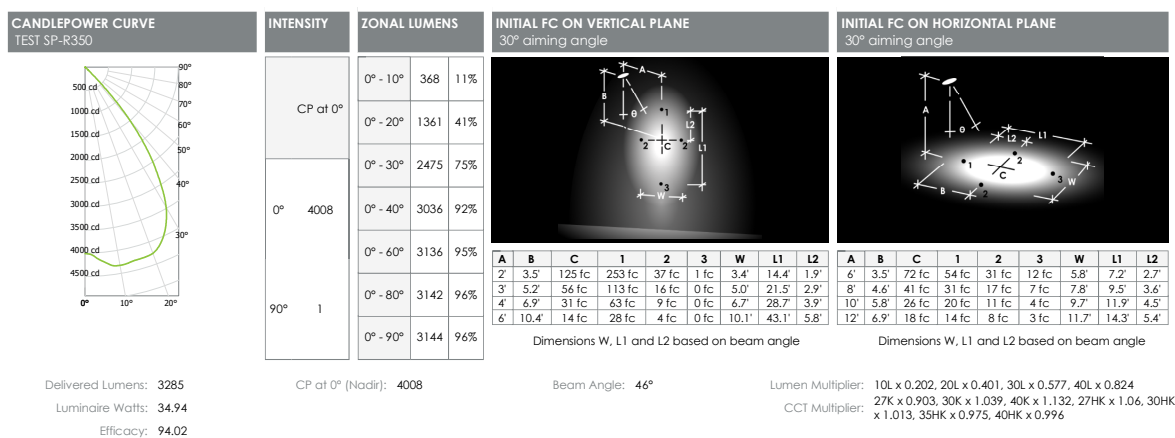
Luminaire Watts: 34.99

Efficacy: 90.68

SAF06PC50L35KWDE1-SA6FPCSGMF - Adjustable



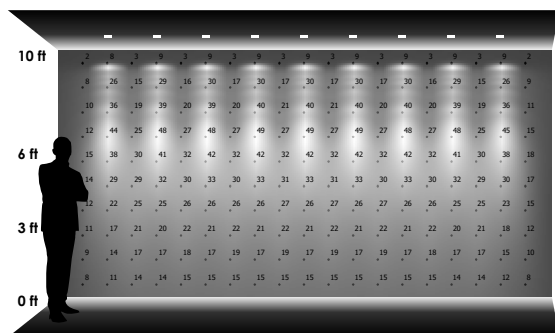
SAF06PC50L35KXWE1-SA6FPCSGMF - Adjustable



SWF06PC50L35KWDE1-SW6FPCSGMFSKX - Wall Wash

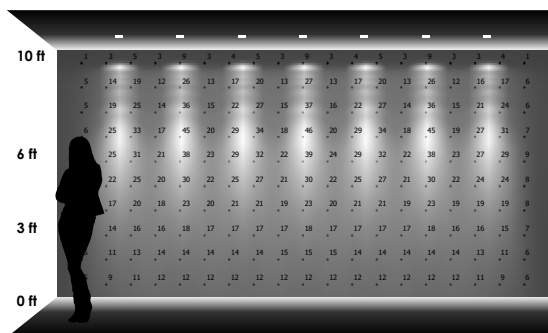
CANDLEPOWER CURVE TEST SP-R759	PERFORMANCE SUMMARY	REFERENCE DIAGRAM
	Delivered Lumens: 2370	
	Luminaire Watts: 35.27	
	LER: 67.20	
	CP at 0deg (Nadir): 4680	
	CRI:	
	Lumen Multiplier: 10L x 0.235, 20L x 0.449, 30L x 0.658, 40L x 0.893	
	CCT Multiplier: 27K x 1.072, 30K x 1.041, 40K x 1.116, 27HK x 0.832, 30HK x 0.916, 35HK x 0.861, 40HK x 1.001	

PERFORMANCE DATA - INITIAL ILLUMINATION (FOOTCANDLES) ON WALL - DIRECT LIGHT ONLY



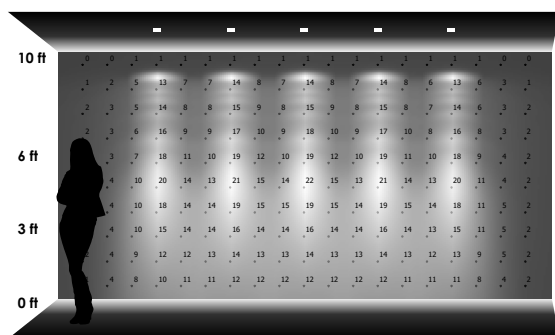
9 LUMINAIRES

2' - 0" away from wall
2' - 0" between luminaires



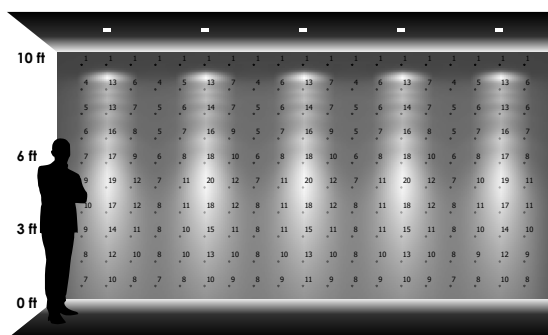
7 LUMINAIRES

2' - 6" away from wall
2' - 6" between luminaires



5 LUMINAIRES

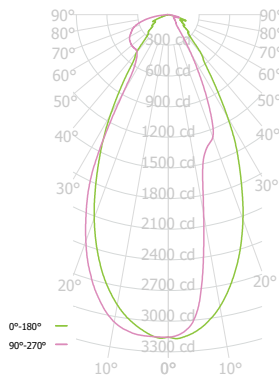
3' - 0" away from wall
3' - 0" between luminaires



5 LUMINAIRES

3' - 0" away from wall
4' - 0" between luminaires

SWF06PC50L35KXWE1-SW6FPCSGMFSKX - Wall Wash

CANDLEPOWER CURVE
TEST SP-R759

PERFORMANCE SUMMARY

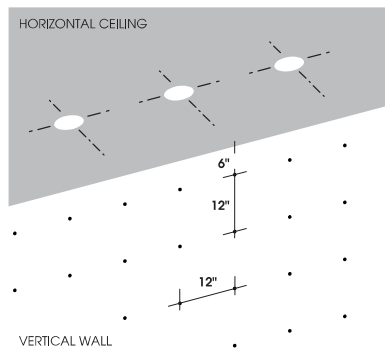
Delivered Lumens: 2541
 Luminaire Watts: 35.37
 LER: 71.84

CP at 0deg (Nadir): 3157
 CRI:

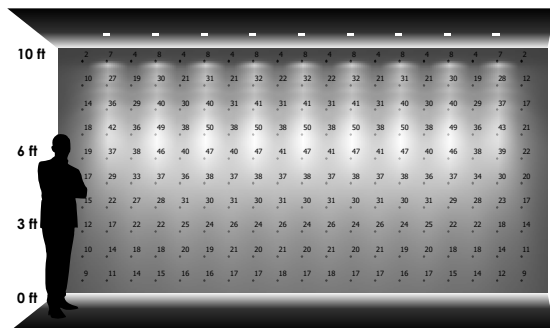
Lumen Multiplier: 10L x 0.235, 20L x 0.449, 30L x 0.658, 40L x 0.893

CCT Multiplier: 27K x 1.072, 30K x 1.041, 40K x 1.116, 27HK x 0.832, 30HK x 0.916, 35HK x 0.861, 40HK x 1.001

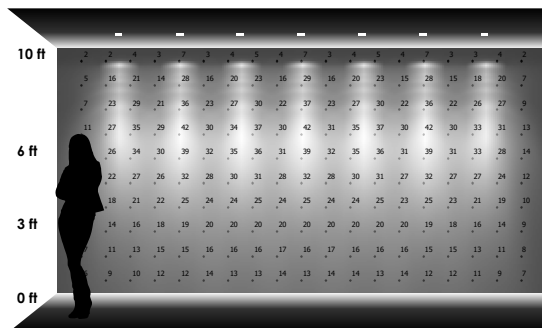
REFERENCE DIAGRAM



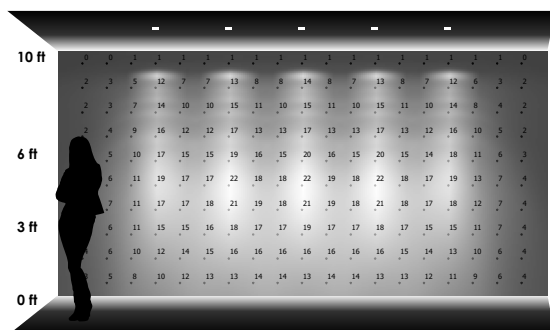
PERFORMANCE DATA - INITIAL ILLUMINATION (FOOTCANDLES) ON WALL - DIRECT LIGHT ONLY



9 LUMINAIRES
 2' - 0" away from wall
 2' - 0" between luminaires



7 LUMINAIRES
 2' - 6" away from wall
 2' - 6" between luminaires



5 LUMINAIRES
 3' - 0" away from wall
 3' - 0" between luminaires



5 LUMINAIRES
 3' - 0" away from wall
 4' - 0" between luminaires