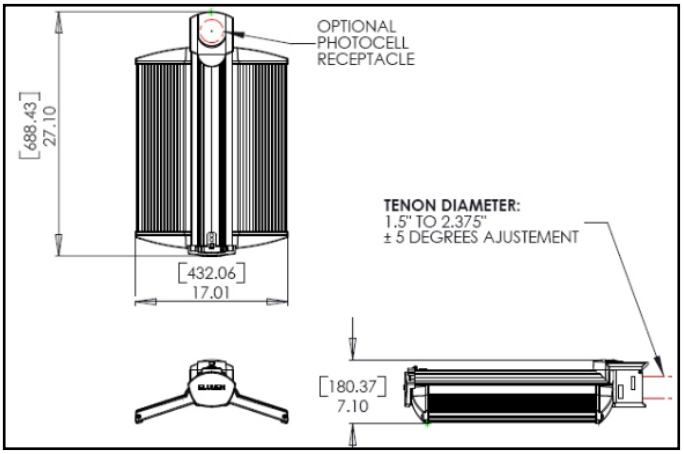
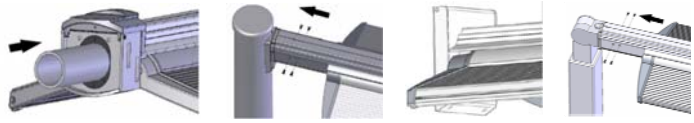
LED-SL 100WX

Model: SE _ ____ __ __ _ _ __

Ordering Guide





Horizontal Tenon | Direct Mount | Wall Mount | Knuckle Mount

Example: SE G 100X C3 TMN 5A

Product Code	SE	Streetlight Elumen
Color	K B G	BLACK DARK BROWN GREY
POWER	100X	105W
LEDS	C3	5000K White LEDs type 2 to 3 distribution *
MOUNTING	TM DM DR WM KM	Horizontal Tenon Mount 1.5" to 2 3/8" (38mm to 59mm) Direct Mount Square Pole Direct Mount Round Pole Wall Mount ** Knuckle Mount
PHOTO RECEPTACLE	N R	None Twist Lock Receptacle **
WING ANGLE	1 2 3 4 5 6	degree (spacing up to 4 MH) 4.5 deg (spacing up to 4.5 MH) 9 deg (spacing up to 5MH) 13.5 deg (spacing up to 6 MH) 18 deg (spacing up to 7 MH) 22.5 deg (spacing up to 7.5 MH)
LED DRIVER	A AM AS	85-300VAC *** 85-300VAC w Midnight Dimming (50% from 11h30PM to 5h30AM) 85-300VAC w Motion Sensor (50% no motion, 100% when motion)

* Type depends on wing angle. See cut sheet for more details
** No photocell receptacle available on Wall Mount models
*** Optional 347 VAC or 480 VAC available. Ask representative

Product Specifications

LED Light: 105W intial consumption, 6430 delivered and maintained lumens, 60,000 hrs without lumen depreciation (LLF>95), CRI>80.

LED ARRAYS: 1440 5mm low power, lighting grade LEDs arranged in a series/parallel matrix for optimal reliability and heat dissipation. Each led uses less than 1/10th of a watt each and is precision aimed for optimal photometric performance. Separate panel assemblies (wings) can be field adjusted to 6 different beam patterns to achieve desired spacing requirements.

LED DRIVER: Elumen Lighting Networks ***OptiAC***tm auto-ranging 85-300Vac 50-60Hz input. Power factor of 0.98 and THD<10%. Standard aging compensation algorithm insures long led life and uniform intensity for 14 years (end of life power consumption will be 30% more than initial). Temperature compensation, temperature protection and lightning protection are built-in. OPTIONS: Automatic Midnight dimming to 50% from 11h30PM to 5h30AM or Motion sensor inputs for 50% /100% operation upon presence or absence of AC signal from an external sensor (not provided)

HOUSING: Aluminum extrusions and castings finished with a super durable, electrostatically applied thermoset polyester powdercoat applied after a 5 stage conversion cleaning process and bonded by heat fusion thermosetting. Laboratory tested for superior weatherability and fade resistance in accordance with ASTM B-117-64 and ANSI/ASTM G53-77 specifications. High Impact Acrylic Lens is sealed to housing (IP66 protection).

ENVIRONMENTAL: -60 °C to 45 °C operating temperature. Vibration tested as per ANSI C136.31-2001 for bridges.

CERTIFICATIONS: CSA Listed to U.S. Safety Standards UL1598 and CSA C22.2 No. 250.0-08 for wet locations. Manufactured to ISO 9001:2000 Standards. RoHS.

WARRANTY: 5 year limited warranty

IESNA Classifications: Full Cut-Off at 0 degrees wing angle.

DIMENSIONS (W x H x L) : 15.75" x 7.0" x 26.6" (400mm x 178mm x 676mm)
EPA: 1.25 sq. ft.
WEIGHT: 18.5 lbs (8,4 Kg)

PATENT PENDING

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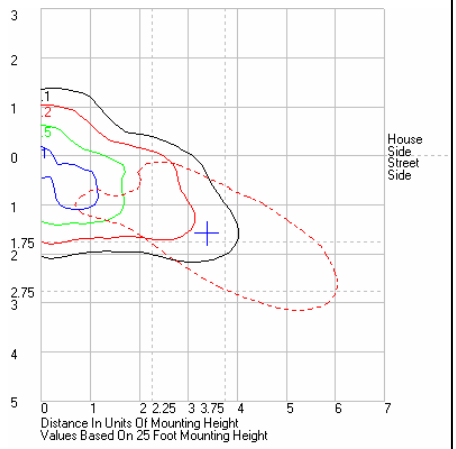
elumen
LIGHTING NETWORKS

LED-SL 100WX

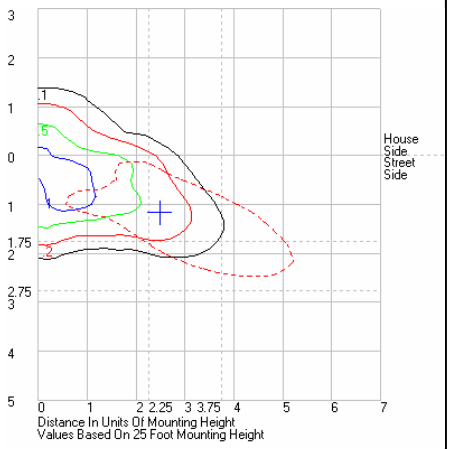
Model: SE _ ____ __ __ _ _ __

22.5 Degrees Wing Angle



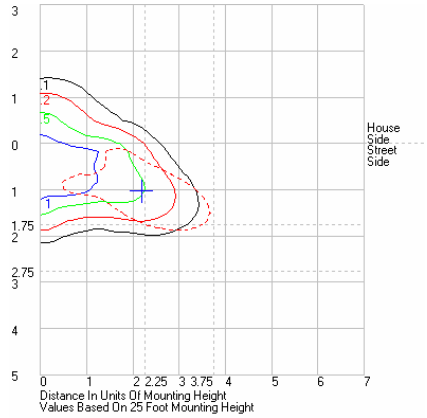
LCS Zone		Lumens	%Lamp	%Lum
FL	(0-30)	338.8	5.6	5.5
FM	(30-60)	2151.2	35.3	35.1
FH	(60-80)	2078.6	34.1	33.9
FVH	(80-90)	228.8	3.8	3.7
BL	(0-30)	264.7	4.3	4.3
BM	(30-60)	594.3	9.8	9.7
BH	(60-80)	407.9	6.7	6.7
BVH	(80-90)	47.6	0.8	0.8
UL	(90-100)	14.4	0.2	0.2
UH	(100-180)	0.0	0.0	0.0
Total		6126.3	100.6	100.0
BUG Rating		**B1-U3-G2**		

18 Degrees Wing Angle



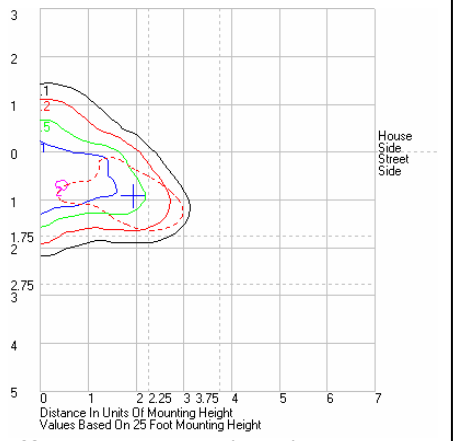
LCS Zone		Lumens	%Lamp	%Lum
FL	(0-30)	373.6	6.0	5.9
FM	(30-60)	2395.2	38.2	37.9
FH	(60-80)	2049.3	32.7	32.5
FVH	(80-90)	169.9	2.7	2.7
BL	(0-30)	269.8	4.3	4.3
BM	(30-60)	616.3	9.8	9.8
BH	(60-80)	382.1	6.1	6.1
BVH	(80-90)	47.2	0.8	0.7
UL	(90-100)	9.6	0.2	0.2
UH	(100-180)	0.0	0.0	0.0
Total		6313.0	100.8	100.0
BUG Rating		**B1-U3-G2**		

13.5 Degrees Wing Angle



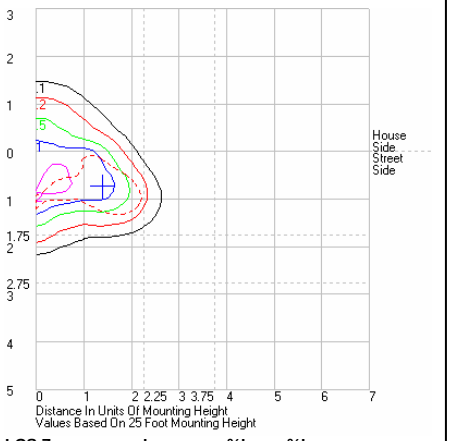
LCS Zone		Lumens	%Lamp	%Lum
FL	(0-30)	424.0	6.7	6.6
FM	(30-60)	2674.4	42.1	41.9
FH	(60-80)	1859.2	29.3	29.1
FVH	(80-90)	106.0	1.7	1.7
BL	(0-30)	279.7	4.4	4.4
BM	(30-60)	651.2	10.2	10.2
BH	(60-80)	345.5	5.4	5.4
BVH	(80-90)	44.9	0.7	0.7
UL	(90-100)	4.6	0.1	0.1
UH	(100-180)	0.0	0.0	0.0
Total		6389.5	100.6	100.0
BUG Rating		**B1-U2-G2**		

9 Degrees Wing Angle



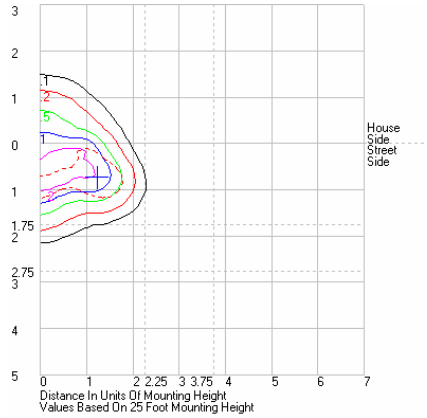
LCS Zone		Lumens	%Lamp	%Lum
FL	(0-30)	471.7	7.3	7.3
FM	(30-60)	2946.0	45.8	45.6
FH	(60-80)	1642.1	25.5	25.4
FVH	(80-90)	77.7	1.2	1.2
BL	(0-30)	289.3	4.5	4.5
BM	(30-60)	682.4	10.6	10.6
BH	(60-80)	307.5	4.8	4.8
BVH	(80-90)	43.2	0.7	0.7
UL	(90-100)	3.8	0.1	0.1
UH	(100-180)	0.0	0.0	0.0
Total		6463.7	100.5	100.0
BUG Rating		**B1-U2-G1**		

4.5 Degrees Wing Angle



LCS Zone		Lumens	%Lamp	%Lum
FL	(0-30)	573.6	9.0	9.0
FM	(30-60)	3344.6	52.6	52.3
FH	(60-80)	1127.5	17.7	17.6
FVH	(80-90)	33.3	0.5	0.5
BL	(0-30)	305.0	4.8	4.8
BM	(30-60)	721.8	11.3	11.3
BH	(60-80)	258.1	4.1	4.0
BVH	(80-90)	26.3	0.4	0.4
UL	(90-100)	1.0	0.0	0.0
UH	(100-180)	0.0	0.0	0.0
Total		6391.2	100.4	100.0
BUG Rating		**B1-U1-G1**		

0 Degree Wing Angle



LCS Zone		Lumens	%Lamp	%Lum
FL	(0-30)	677.0	10.7	10.6
FM	(30-60)	3597.1	56.8	56.6
FH	(60-80)	773.7	12.2	12.2
FVH	(80-90)	21.4	0.3	0.3
BL	(0-30)	319.8	5.1	5.0
BM	(30-60)	726.1	11.5	11.4
BH	(60-80)	227.2	3.6	3.6
BVH	(80-90)	16.0	0.3	0.3
UL	(90-100)	0.0	0.0	0.0
UH	(100-180)	0.0	0.0	0.0
Total		6358.3	100.5	100.0
BUG Rating		**B1-U1-G1**		

+Data Sheet +Cut Sheet +Installation Instructions + LM-79 IES Files & data +Product Shots +Motion Sensor Installation and operation

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