

Products												
Option	Drive Current (mA)	Voltage	XAL THE EDGE® Area ¹			XAR THE EDGE® Round Area 1, 2, 3 Mounts ¹	XCL THE EDGE® Canopy ¹	XSL LEDway	XPS THE EDGE® Parking ¹	XSE THE EDGE® Security ¹	SLM ²	XCR 227 Series Recessed Canopy
			1, 2, 3 Mounts	F, H Mounts	SA Mount							
G	175/350/525	120-277	20-120 LEDs	40-120 LEDs	n/a	40-120 LEDs	40-120 LEDs	20-120 LEDs	40-100 LEDs	n/a	n/a	30-120 LEDs
		347-480	40-120 LEDs	40-120 LEDs	n/a	40-120 LEDs	40-120 LEDs	n/a	n/a	n/a	n/a	n/a
CL	75/525	120-277	20-160 LEDs	40-160 LEDs	20-60 LEDs	40-120 LEDs	40-160 LEDs	20-120 LEDs ²	40-100 LEDs	20-80 LEDs	20-60 LEDs	n/a
		347-480	20-160 LEDs	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

¹ All THE EDGE® Series D products are rated to 700 maximum drive current up to 60 LEDs
² IP66 rated fixtures only

Additional Options Available with Multi-Level												
Option	Drive Current (mA)	Voltage	XAL THE EDGE® Area			XAR THE EDGE® Round Area 1, 2, 3 Mounts	XCL THE EDGE® Canopy	XSL LEDway	XPS THE EDGE® Parking	XSE THE EDGE® Security	SLM	XCR 227 Series Recessed Canopy
			1, 2, 3 Mounts	F, H Mounts	SA Mount							
G	175/350/525	120-277	F	F	n/a	F	F	F	F	n/a	n/a	F
		347-480	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
CL	75/525	120-277	F, P, R	F, P	n/a	F	F, P	F, R	F	F	F, R	n/a
		347-480	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

F = Fuse; P = Photocell; R = NEMA Photocell Receptacle. If fixture is equipped with photocell, fixture is wired as off, low mode, high mode.

Sensor Settings							
Time Delay Feature (D)		Ambient Level Feature (A)		Low Dimming Feature (L)		High Dimming Feature (H)	
Position	Time (Min)	Position	Light Level (LUX)	Position	Drive Current (mA)	Position	Drive Current (mA)
0	0.5	0	Test Mode	0	OFF	0	350
1	1	1	20	1	75	1	425
2	2	2	110	2	125	2	475
3	4	3	215	3	150	3	525
4	6	4	550	4	175	4	550
5	15	5	1100	5	225	5	575
6	20	6	1900	6	275	6	625
7	30	7	Disable	7	325	7	700

Notes:
 Sensor feature settings can be independently selected for desired performance.
 Factory Settings: Time (D): 4min.; Ambient Light (A): Disable; Low Dimming (L): 75mA; High Dimming (H): 525mA

HL Option Drive Current Configurations		
Leads		Drive Current Output
175mA	350mA	
ON	OFF	175
OFF	ON	350
ON	ON	525

140-240 LED EDGE Area		
175	175	Output
On	On	350



Multi-Level Option Output Multipliers								
Drive Current (mA)	THE EDGE®				LEDway / SLM / 227			
	System Watts Multiplier	System Lumen Multiplier	L ₇₀ Life Hours @ 25° C (77° F)	50K Hours Lumen Maintenance Factor @ 15° C (59° F)	System Watts Multiplier	System Lumen Multiplier	L ₇₀ Life Hours @ 25° C (77° F)	50K Hours Lumen Maintenance Factor @ 15° C (59° F)
75	0.19	0.46	> 150K	95%	0.12	0.30	> 150K	95%
125	0.33	0.56	> 150K	95%	0.22	0.37	> 150K	95%
150	0.40	0.61	> 150K	95%	0.27	0.41	> 150K	95%
175	0.48	0.66	> 150K	95%	0.32	0.45	> 150K	95%
225	0.62	0.76	> 150K	94%	0.41	0.52	> 150K	94%
275	0.77	0.86	> 150K	94%	0.51	0.60	> 150K	94%
325	0.91	0.96	> 150K	93%	0.60	0.67	> 150K	94%
350	1.00	1.00	> 150K	93%	0.66	0.71	> 150K	94%
425	1.20	1.16	145K	93%	0.80	0.82	> 150K	93%
475	1.35	1.26	138K	92%	0.89	0.90	150K	93%
525	1.51	1.40	131K	92%	1.00	1.00	144K	93%
550	1.56	1.41	129K	91%	1.04	1.01	140K	92%
575	1.64	1.46	126K	91%	1.08	1.05	137K	92%
625	1.78	1.56	120K	91%	1.18	1.12	130K	92%
700	2.03	1.71	113K	90%	1.34	1.25	120K	91%

Note: Multipliers are for estimating purposes only. Check actual spec sheet data where available.

General Description

The BetaLED multi-level options allow multiple operating drive currents for high and low modes. These drive currents are conveniently selected to balance LED life, lumen output and energy savings. Multi-level options are designed to have integrated and remotely located sensors. Multi-level function is designed with all LEDs operating at the same current for maximum and uniform LED life.

The CL option (75/525mA) provides approximately 27% of the delivered lumens while consuming only 16% of the energy in low mode (75mA) compared to the high mode (525mA). Assuming an 80% vacancy rate in a given space, this drive current combination provides similar life expectancy to that of our standard 350mA product. The result is maximum energy efficiency while still providing adequate light for vacant areas.

The G option drive current combination (175/525mA) provides approximately 45% of the delivered lumens while consuming only 33% of the energy in low (175mA) versus high (525mA) mode. Assuming an 80% vacancy rate in a space it also had a similar life expectancy to that of our standard 350mA product. The result is a system that provides energy savings and/or a lower initial cost without compromising quality or performance.

The G option will be wired such that five power leads will exit the fixture, two hots (line 1 and line 2), two common (N1 and N2) and one ground. The two hot leads will be labeled identifying the drive current, 175mA (line 1) and 350mA (line 2). Fixtures are factory set for phase to neutral systems and can be field adjusted to accommodate phase to phase systems. See chart for G option drive currents for high/low configurations. The CL option will have three power leads: hot, common, and ground.

The occupancy sensor used in the BetaLED CL option uses passive infrared technology that reacts to changes in infrared energy (moving heat) within the coverage area. During operation if motion is detected within the sensor's coverage area, the relay in the sensor closes and the lighting load is automatically turned on. When motion is no longer detected for the duration of the time settings, the relay opens and the lighting load is turned off, or set to low level depending on the settings of the sensor. The occupancy sensor includes independent field adjustable settings for Ambient Light, Time Delay, and High Low Dimming.

The Ambient Light feature (A) is factory set at "disabled" which eliminates any daylight harvesting management and allows the fixture to operate only on occupancy. The Ambient Light feature has eight possible settings and can be adjusted from 20–1900 Lux (2–175FC). When activated, the Ambient Light feature will only prevent the lights from turning on or going into high mode (depending on the setting of the sensor) when ambient light exceeds the selected level. In the event occupancy switches a luminaire to high mode and shortly thereafter ambient light levels increase above the selected ambient level, the unit will not immediately return to low mode, rather it must complete the set time cycle (Time Delay Feature) prior to returning to low mode. Settings will vary based on application. Please be aware that light from different sources may disrupt the ambient light feature. Testing and adjusting the Ambient Light feature is recommended before adjusting settings for all other installed luminaires for the specific application.

The Time Delay feature (D) can be adjusted from 0.5 minutes to 30 minutes and is factory set at 4 minutes. Once motion is detected, the lighting load will remain unchanged until the set time cycle is completed.

The Low Dimming feature (L) can be adjusted from an off position to a maximum drive current of 325mA. This feature is factory set at 75mA.

The High Dimming feature (H) can be adjusted from a 350mA drive current to a maximum drive current of 700mA and is factory set at 525mA. Please note that some fixtures may be rated for 525mA maximum drive current.



Figure 1 – LEDway / SLM / THE EDGE® Area Luminaire

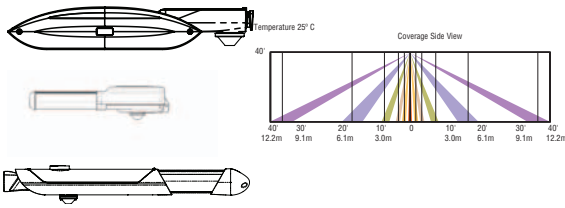


Figure 3 – THE EDGE® Security / THE EDGE® Parking Structure Luminaire

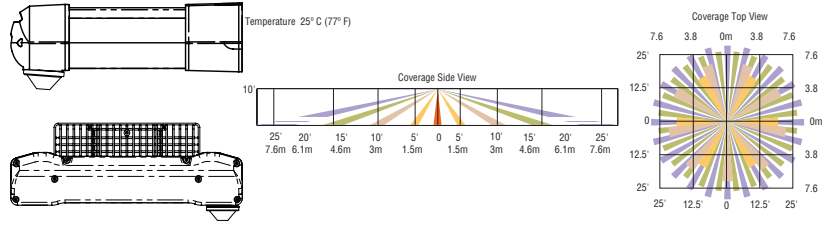
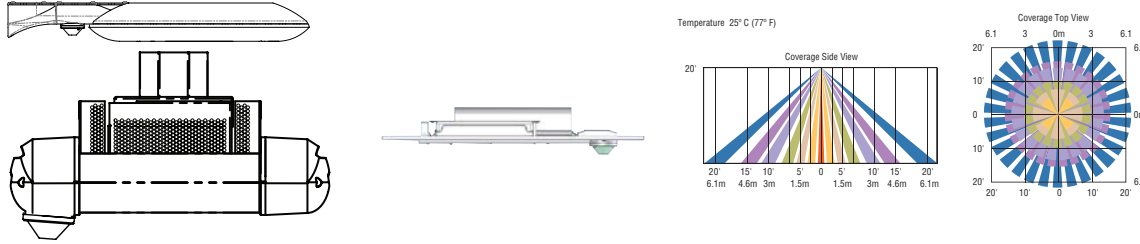


Figure 2 – THE EDGE® Canopy / THE EDGE® Round Area Luminaire / 227 Retrofit



Sensor Details	
Application	Lens
Area, LEDway, SLM	Lens coverage: 30' (9.1m) optimal mounting height and 60' (18.3m) diameter coverage with a 360° circular pattern. The minimum and maximum mounting heights are 20' (6.1m) 40' (12.2m) respectively. Lens mounting height to coverage radius is 1:1. See Figure 1. Note: When mounting heights are above 30' (9.1m), the sensor only detects large objects such as fork lift trucks or cars.
Canopy, Area Round, 227 Retrofit	Lens coverage: 20' (6.1m) optimal mounting height and 40' (12.2m) diameter coverage area with a 360° circular pattern. The minimum and maximum mounting heights are 10' (3m) and 30' (9.1m) respectively. Lens mounting height to coverage radius is 1:1. See Figure 2.
Security, Parking Structure	Lens coverage: 10' (3m) optimal mounting height and 50' (15.2m) diameter coverage area with a 360° circular pattern. The maximum mounting height is 15' (4.6m). Lens mounting height to coverage radius is 1:2.5. See Figure 3.