

## XCP 304 Series Multi-Level

Multi-Level Option	Drive Current (mA)	Voltage	Floodlight	Parking Structure			Recessed Canopy			Recessed Interior		Recessed Soffit	
			4 Mount	0 Mount	8 Mount	9 Mount	1 Mount	2 Mount	N Mounts <sup>1</sup>	2 Mount <sup>1</sup>	IC Rated 1 Mount	S Mount <sup>1</sup>	IC Rated F Mount
CL	75/525	120 – 277	40 – 60 LEDs	40 – 60 LEDs	40 – 60 LEDs	40 – 60 LEDs	40 – 60 LEDs	40 – 60 LEDs	40 – 60 LEDs	40 – 60 LEDs	N/A	40 – 60 LEDs	N/A
		347 – 480	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

1. Fixture limited to 525mA maximum drive current.

## Additional Options Available with Multi-Level

Multi-Level Option	Voltage	Floodlight	Parking Structure			Recessed Canopy			Recessed Interior		Recessed Soffit	
		4 Mount	0 Mount	8 Mount	9 Mount	1 Mount	2 Mount	N Mounts	2 Mount	IC Rated 1 Mount	S Mount	IC Rated F Mount
CL	120 – 277	F	F	F	F	F	F	F	F	N/A	F	N/A
	347 – 480	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

F = Fuse

## SENSOR SETTINGS

Time Delay Feature (D)		Ambient Light Feature (A)		Low Dimming Feature (L)		High Dimming Feature (H)	
Position	Time Delay minutes	Position	Light Level Lux (FC)	Position	Drive Current mA	Position	Drive Current mA
0	0.5	0	Test Mode	0	OFF	0	350
1	1.0	1	20 (2)	1	75	1	425
2	2.0	2	110 (10)	2	125	2	475
3	<b>4.0</b>	3	215 (20)	3	150	3	<b>525</b>
4	6.0	4	550 (50)	4	175	4	550
5	15.0	5	1100 (100)	5	225	5	575
6	20.0	6	1900 (175)	6	275	6	625
7	30.0	7	<b>Disable</b>	7	325	7	700

Notes:

Sensor feature settings can be independently selected for desired performance.

Factory Settings: Time (D): 4 min.; Ambient Light (A): Disable; Low Dimming (L): 75mA; High Dimming (H): 525mA

## MULTI-LEVEL OPTION OUTPUT MULTIPLIERS

Drive Current (mA)	Series D			
	System Watts Multiplier	System Lumen Multiplier	L <sub>70</sub> Life Hours @ 25° C (77° F)	50K Hours Lumen Maintenance Factor @ 15° C (59° F)
75	0.19	0.42	>150K	95%
125	0.33	0.52	>150K	95%
150	0.40	0.57	>150K	95%
175	0.48	0.63	>150K	95%
225	0.62	0.73	>150K	94%
275	0.77	0.84	>150K	94%
325	0.91	0.94	>150K	94%
350	1.00	1.00	>150K	94%
425	1.20	1.15	150K	93%
475	1.35	1.26	150K	93%
525	1.51	1.40	144K	93%
550	1.56	1.41	140K	92%
575	1.64	1.47	137K	92%
625	1.78	1.57	130K	92%
700	2.03	1.75	120K	91%

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

Notes:

NOTE: All data subject to change without notice.

## General Description

The BetaLED 304 Series Multi-Level option allows multiple operating drive currents for high and low dimming modes. Our CK and CL option drive currents have been selected to balance LED life, lumen output and energy savings. The 304 Series Multi-Level option includes an integrated sensor into the fixture and is designed to operate all LED's at the same drive current for maximum and uniform life.

The drive current combination (175/525mA) provides approximately 45% of the delivered lumens while consuming only 33% of the energy in low mode (175mA) 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 a system that delivers energy savings and/or a lower initial cost without compromising quality or performance.

The occupancy sensor used in the 304 Series 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 setting, 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 has customer adjustable independent Ambient Level Time Delay and High and Low Dimming features.

The Ambient Level feature (A) can be adjusted from 20 to 1900Lux and is factory set at 1900 Lux. This feature will only prevent the lights from turning on or going to high mode (depending on the settings of the sensor) when ambient light exceeds selected level. The Ambient light levels will switch the fixture to the low mode that it is selected to operate in once the set time cycle is completed.

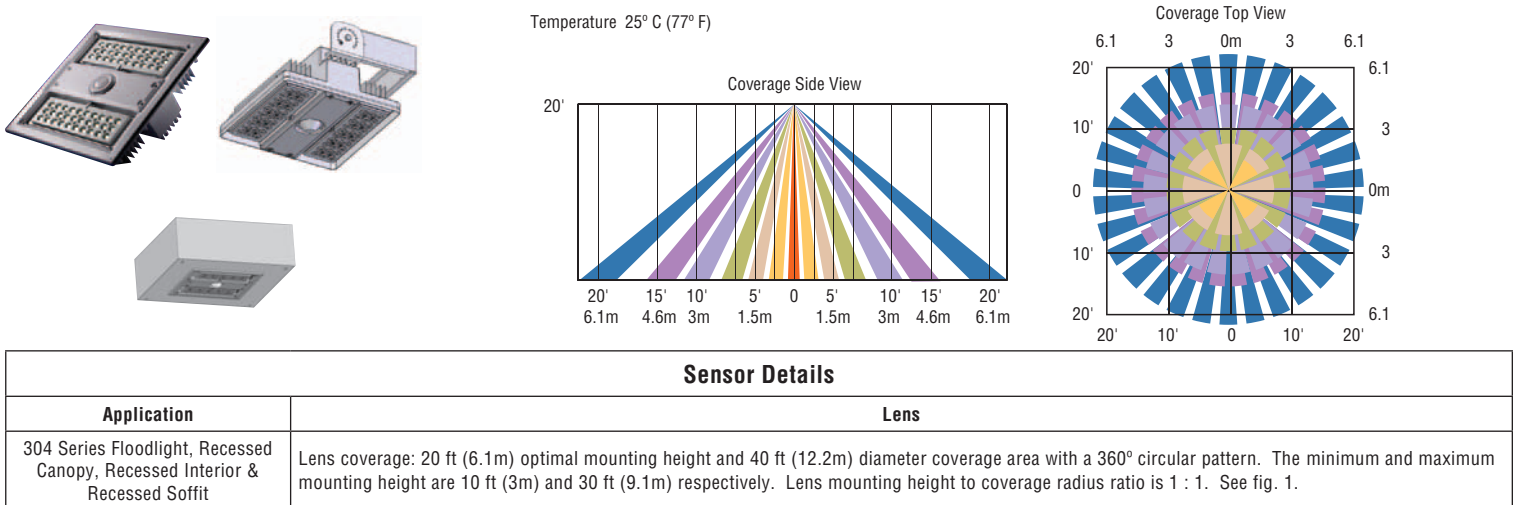
The Time Delay feature (D) can be adjusted from 0.5 min to 30 min. and is factory set at 15 min. Once motion is detected, the lighting load will remain unchanged until the set time cycle is completed.

The Low Dimming feature can be adjusted from an off position to a maximum drive current of 325mA. This feature is factory set at 175mA.

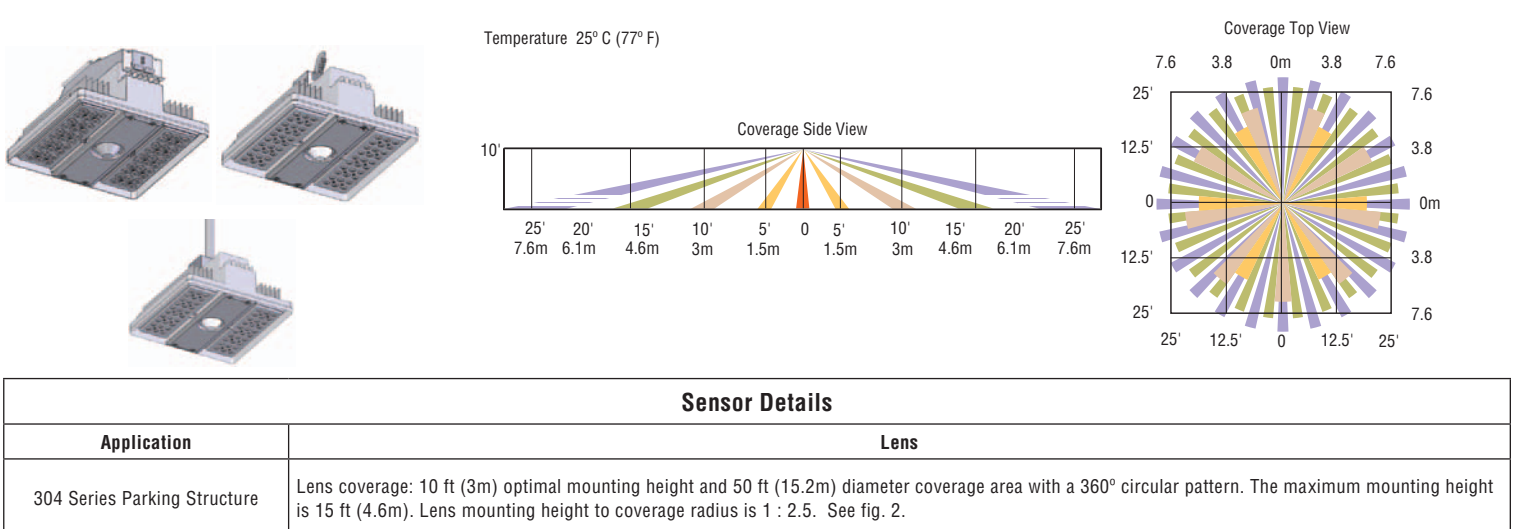
The High Dimming feature can be adjusted from a 350mA drive current to a maximum drive current of 525mA. This feature is factory set at 525mA.

Lens coverage: 20 ft optimal mounting height and 40 ft. coverage area with a 360° circular pattern. The minimum and maximum mounting height are 15 and 30 ft respectively. Lens mounting height to coverage radius ratio is 1 : 2.5. See fig. 1.

**Figure 1 – 304 Series Floodlight, Recessed Canopy, Recessed Interior, Recessed Soffit**



**Figure 2 - 304 Series Parking Structure**



NOTE: All data subject to change without notice.

