

3100 PNC Light Study

Introduction:

A light study was conducted on the 3100 PNC Canopy to certify the as designed down lighting configuration and verify that the lighting will meet the AB 244 requirements or Florida, Title XXXVIII, BANKS AND BANKING, Chapter 655, at the five foot distance from the ATM. This requirement states; "(a) There shall be a minimum of 10 candle foot power at the face of the automated teller machine and extending in an unobstructed direction outward 5 feet.". This has been interpreted as a 180° arc around the front of the ATM.

Also tested were two other configurations as requested by the bank. These test were conducted in an effort to reduce the number of down light required. The same testing format was used for each of these configurations.

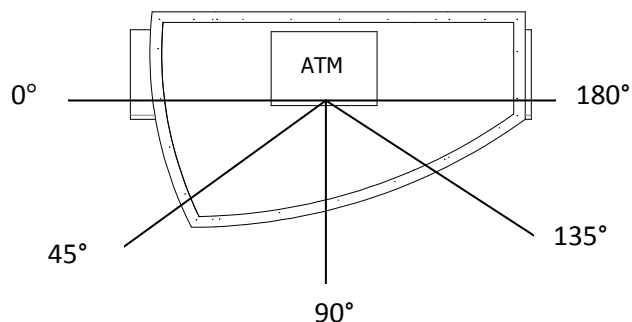
Conclusion:

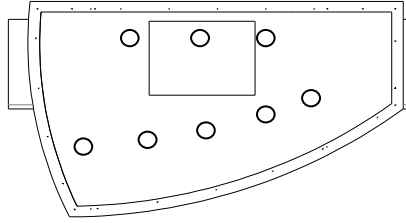
- Configuration 1. As can be seen by the results of the test either light (Compact Fluorescent or LED) will meet AB 244 and the Florida lighting requirements.
- Configuration 2. As can be seen by the results of the both light (Compact Fluorescent or LED) failed to meet AB 244 and the Florida lighting requirements.
- Configuration 3. As can be seen by the results only the LED) met the AB 244 and the Florida lighting requirements.

Recommendation:

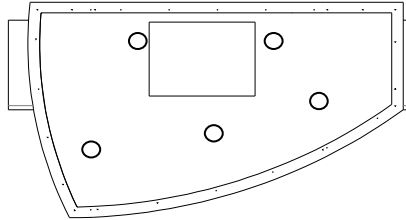
- 1. It is the recommendation of Companion Systems that the down lighting remain as designed (refer to Configuration 1).
- 2. It is further recommended that the down lighting be changed from the compact fluorescents to LED's. By switching to LED lights, it will make the down lighting fall well with the requirements of AB 244 and Florida codes.

Results:

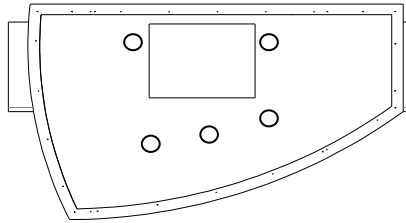




Configuration 1
Full Light Configuration as Designed



Configuration 2
Reduced Light Configuration



Configuration 3
Reduced Light Configuration

Light Configuration	Compact Fluorescent (CF)					LED					AB 244	
	0°	45°	90°	135°	180°	0°	45°	90°	135°	180°	CF	LED
Configuration 1	18	16	14	16	18	35	41	12	15	48	Yes	Yes
Configuration 2	11	10	8	8	12	26	21	7	9	42	No	No
Configuration 3	9	10	9	10	9	12	16	10	10	10	No	Yes

- Readings are in foot candles taken at 5' from the face of the ATM at 36" from the floor.
- Red denotes failure to meet the requirements.