

PUBLIC-MODE STROBE SPACING AND CONSIDERATIONS



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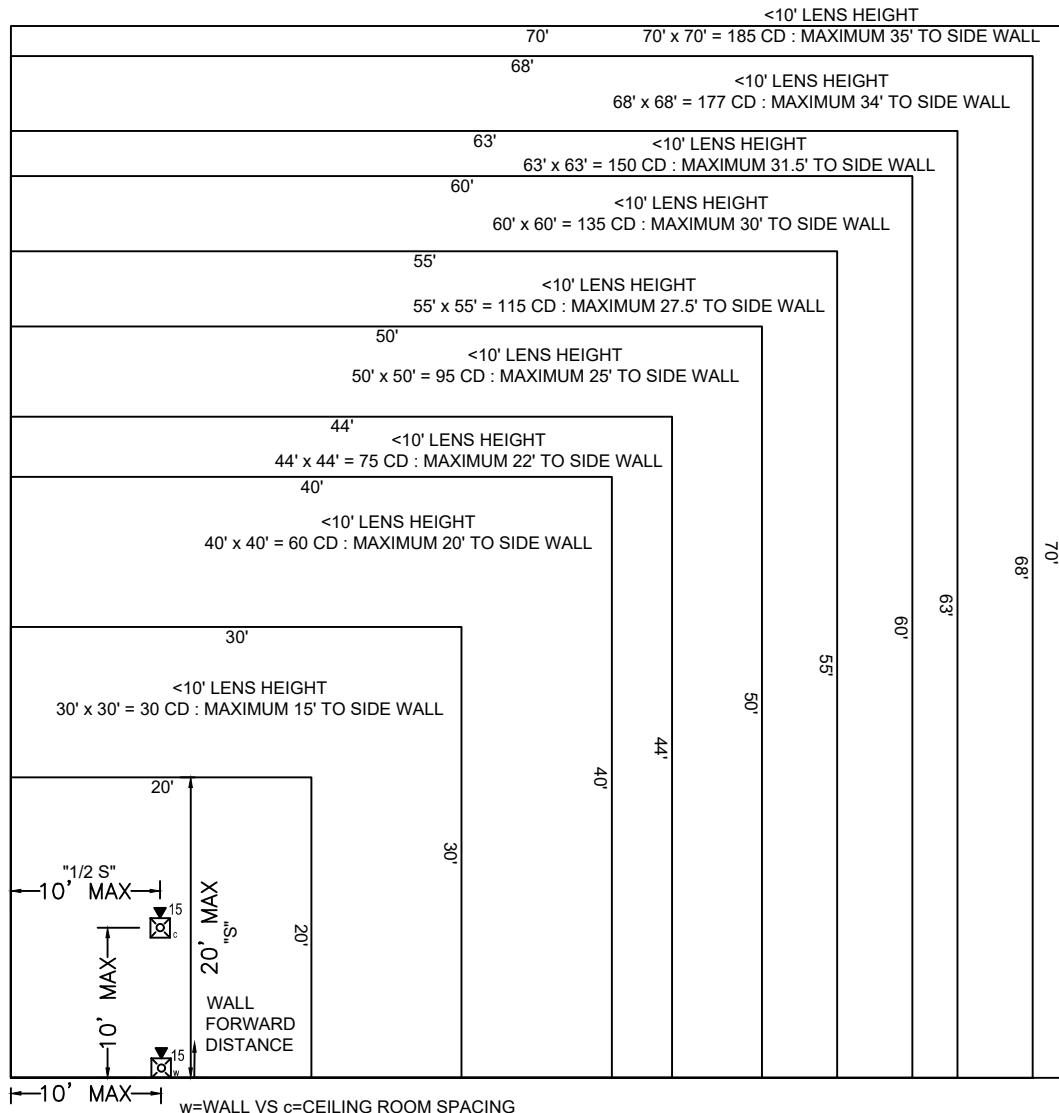
"WITHOUT ASSESSMENTS, ALL YOU HAVE ARE ASSUMPTIONS!"

THIS SHEET WAS COMPILED BY CSA BASED ON CRITERIA OF NFPA 72, (18.5) FOR COMMONLY AVAILABLE STROBE CANDELA AND GOOD DESIGN PRACTICES.

<10' LENS HEIGHT
20' x 20' = 15 CD WITH
MAXIMUM 10' TO SIDE WALL & 20' IN
FRONT FOR WALL MOUNT

SPACING CONCEPT OF 1/2 ROOM DIMENSION TO SIDE WALLS APPLIES TO EACH CANDELA AND ROOM SIZE

SIMILAR TO SPRINKLER "SPACING", THE CANDELA MAXIMUM DISTANCE IS "S" AND MAXIMUM DISTANCE TO A SIDE WALL IS "1/2 S". WALL DEVICE WOULD HAVE MAXIMUM FORWARD COVERAGE OF "S".



NOTES:

1. DIAGRAM SHOWS MAXIMUM AREA THAT A SINGLE STROBE CAN COVER FOR LENS HEIGHT UP TO 10' ABOVE FLOOR, WHEN STROBE IS CENTERED IN CEILING OR ALONG ONE WALL, AND WITHOUT OBSTRUCTIONS TO EFFECTIVE COVERAGE. CANDELA SHOWN ARE CODE MINIMUMS.
2. ADJUSTMENTS ARE NECESSARY FOR: LENS HEIGHTS >10' UP TO 30' MAXIMUM; IN OVERLY BRIGHT SPACES (SUN / SKYLIGHTS); OR WHERE WALLS OR EQUIPMENT WILL IMPACT EFFECT OF ACHIEVING 0.0375 LUMENS PER SQUARE FOOT. SEE NFPA 72 FOR GUIDANCE AND PERFORMANCE CRITERIA.
3. IF LOCATED ON A WALL, THE SIDE SPACING DISTANCE MUST NOT EXCEED 1/2 ROOM WIDTH INDICATED. DISTANCE IN FRONT OF A WALL DEVICE MUST NOT EXCEED THE MAXIMUM ROOM DIMENSION. I.E. 95 CD FOR 50' x 50' ROOM CAN ONLY COVER 25' TO EITHER SIDE BUT UP TO 50' IN FRONT.
4. CEILING DEVICES ARE LIMITED TO 1/2 ROOM WIDTH INDICATED TO ANY SIDE.
5. DISTANCES BETWEEN DEVICES ARE BASED ON CANDELA AND ASSUMES AN IMAGINARY WALL / BOUNDARY SPACED BETWEEN THEM.
6. CONSIDERING CEILING GRID SPACING, LIGHTING, AIR GRILLS, SPRINKLERS, ETC., IT IS RECOMMENDED TO ALLOW +4' IN ANY DIRECTION FOR FIELD ADJUSTMENTS. IF IN DOUBT GO TO NEXT CANDELA SETTING OR ADD ADDITIONAL DEVICES. IF INCREASING CANDELA OR ADDING DEVICES IN THE FIELD ENSURE VOLTAGE DROP, CURRENT DRAW, AND BATTERY CALCULATIONS CAN ACCOMMODATE THE INCREASE.
7. IF STROBES ARE NOT CENTERED, THE CANDELA MUST BE BASED ON THE LONGEST DISTANCE FROM ANY WALL / ADJACENT DEVICE, OR ADDITIONAL DEVICES ADDED.
8. DESIGNER IS RESPONSIBLE TO ALLOW FOR FIELD VARIATIONS OF WHERE DEVICES CAN BE LOCATED ALONG WALLS AND IN CEILINGS (INCLUDING STUD SPACING, CENTER OF TILE, ETC.). WALL DEVICES SHOULD ACCOUNT FOR CUSTOMER ARTWORK, CABINETS, DOORS, SHELVES, ALCOVES, ETC.
9. DESIGNER VOLTAGE CALCS MUST ACCOUNT FOR ACTUAL FIELD / CONDUIT ROUTING INCLUDING DROPS. EACH 6' WHIP / DROP TO CEILING TILES ADDS 28' OF WIRE LENGTH DOWN AND BACK WITH JUNCTION BOX LOOPS.
10. INSTALLER IS RESPONSIBLE TO VERIFY DISTANCES OF JUNCTION BOXES (AND LENS) FROM WALLS OR OTHER DEVICES BASED ON THE CANDELA AND ALLOWED SPACING. DON'T JUST RELY ON DRAWING APPROXIMATE LOCATION, MEASURE AND VERIFY IN FIELD BASED ON CANDELA.
11. FIELD ADJUSTABLE DEVICES MUST BE PROPERLY SET BASED ON THE PLANS, AREA COVERED, AND DESIGNER CALCULATIONS. THIS APPLIES TO STROBE, HORN, AND SPEAKER SETTINGS. AUDIBILITY ADJUSTMENTS MAY BE REQUIRED AFTER FURNITURE AND EQUIPMENT ARE INSTALLED.
12. CORRIDOR SPACING GENERALLY REQUIRES A MINIMUM 15 CD STROBE WITHIN 15' OF THE END OF CORRIDOR, NOT TO EXCEED 100' BETWEEN DEVICES (18.5.5.8). HOWEVER, ROOM SPACING IS ALLOWED IN CORRIDORS PER REFERENCE IN 18.5.5.8.1. THIS ALLOWS FOR ONE STROBE TO BE USED IN CORRIDORS LONGER THAN 30' (15' OF EACH END) OR TO EXCEED 15' FROM THE END. EXAMPLE, A 95 CD STROBE CENTERED IN A 50' LONG CORRIDOR RATHER THAN TWO 15 CD STROBES.
13. STROBES MUST BE LISTED FOR THE INTENDED ORIENTATION (WALL OR CEILING) BASED ON DESIGN OF LIGHT REFLECTORS (MIRRORS).
14. STROBE SPACING IN SLEEPING ROOMS MUST COMPLY WITH SEPARATE AND SPECIFIC REQUIREMENTS OF 18.5.5.10.
15. VISUAL CHARACTERISTICS FOR PRIVATE MODE AREAS (HOSPITALS / DETENTION) MAY VARY AND MUST BE APPROVED BY THE AHJ (18.6).
16. FOR GUIDANCE ON STROBE COVERAGE IN LARGE SPACES (WAREHOUSES, BOX RETAIL STORES, ETC.) SEARCH "DIRECT VISUAL SIGNALING AS A MEANS OF OCCUPANT NOTIFICATION IN LARGE SPACES".
17. DEVICES LABELED AS 15/75 CANDELA ARE ONLY LISTED FOR 15 CD SPACING.