Paper Trail

Al, Bob, Carl, Dave, and Earl walk into a room where an attendant attaches one piece of colored paper to each person's back without the person seeing the paper. The attendant then leaves the room with the remaining paper. The attendant started with 2 red, 2 yellow, 2 blue, 2 green, and 2 orange pieces of paper.

Al says: I can't see the paper on my back but I can see everyone else's paper.

Bob, Carl, Dave, and Earl agree.

Bob says: I can't see any red paper.

Al, Carl, Dave, and Earl agree.

Carl says: I can see exactly one pair of persons with the same color of paper

Al, Bob, and Dave agree.

Earl disagrees.

Dave says: I can't see any yellow paper.

Al, Bob, Carl, and Earl agree.

Earl says: I can see both blue and green paper.

Al, Bob, Carl, and Dave agree.

What color is the paper on Earl's back?