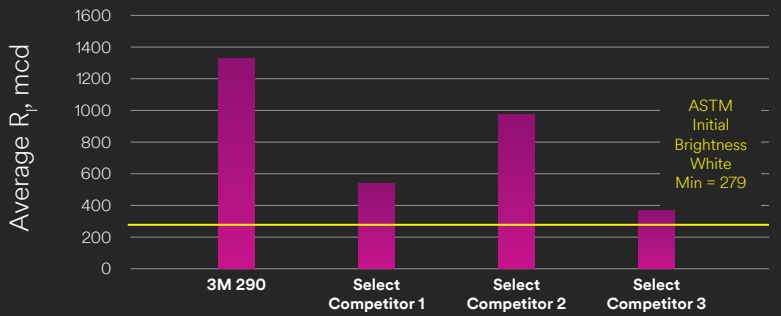


Performance Comparison between 3M and Select US Competitive RPMs

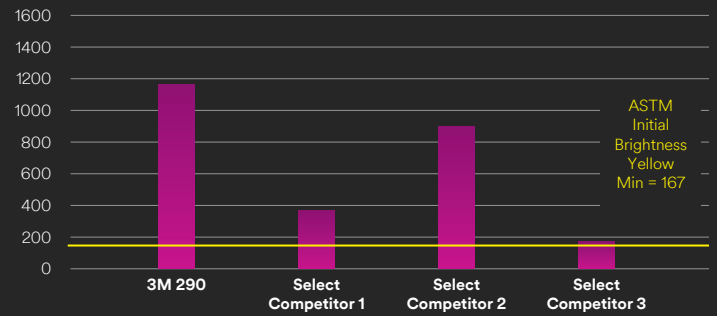
Initial Brightness

White RPM, 0 Degrees



3M averages nearly 5x brighter than the ASTM minimum*
3M averages nearly 1.5x brighter than the next leading select competitor

Yellow RPM, 0 Degrees

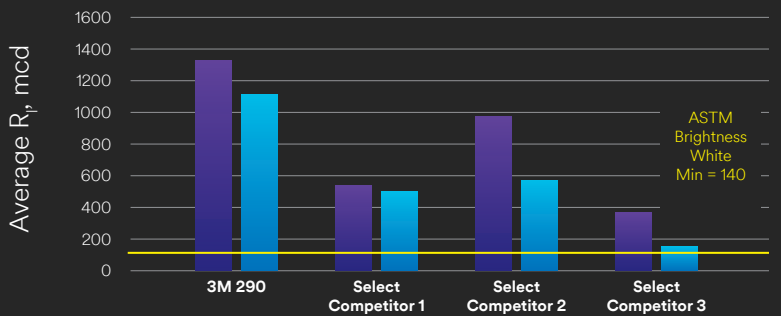


3M averages nearly 7x brighter than the ASTM minimum*
3M averages nearly 1.5x brighter than the next leading select competitor

Abrasion Resistance

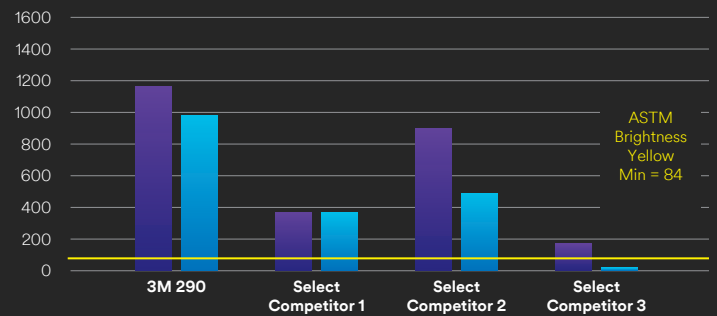
Number of Abrasion Cycles: 0 (Purple), 1 (Blue), 2 (Green), 3 (Yellow), 4 (Orange)

White RPM, 0 Degrees



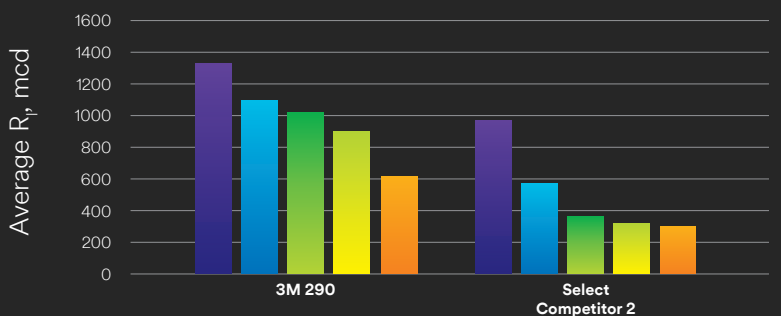
After 1 cycle, 3M averages 8x brighter than the ASTM minimum*
After 1 cycle, 3M averages nearly 2x brighter than the next leading select competitor

Yellow RPM, 0 Degrees



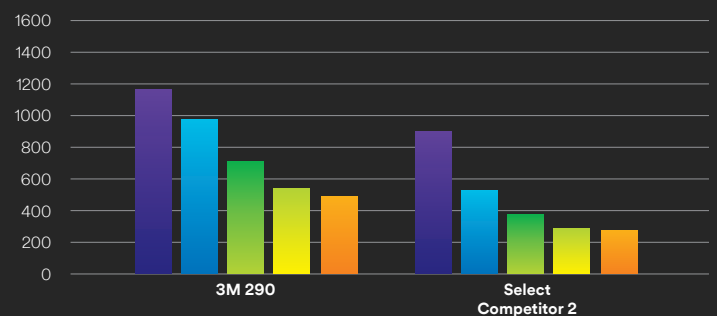
After 1 cycle, 3M averages nearly 12x brighter than the ASTM minimum*
After 1 cycle, 3M averages nearly 2x brighter than the next leading select competitor

White RPM, 0 Degrees



After 4 cycles, 3M averages nearly 2x brighter than the next leading select competitor

Yellow RPM, 0 Degrees



After 4 cycles, 3M averages nearly 2x brighter than the next leading select competitor

*as outlined in ASTM D4280 Standard Specifications for RPMs at 0 degrees

Source: 3M Series 290 RPM Reflective Pavement Markers Test Reports, Independent Laboratory, 2019.



- ▶ All test results were generated by an independent laboratory
- ▶ All Raised Pavement Markings (RPMs) were purchased through two different RPM distributors and were provided to an independent laboratory for testing
- ▶ Testing and reporting were conducted in compliance with ASTM D4280 for 1-abrasion cycle but was repeated 2, 3, and 4 times. Only one abrasion cycle is required for ASTM D4280.



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