

3M Display Materials & Systems Division

2020 Technical Data

3M[™] Enhanced Specular Reflector Films

- ESR 65 Auto
- ESR 80v2 Auto

Product Description

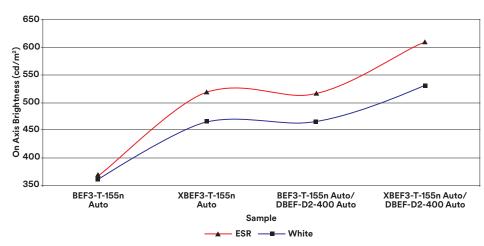
3M[™] Enhanced Specular Reflector Films (ESR) maximize the recycling efficiency of liquid crystal display backlights. 3M ESR is >98% reflective across the visible spectrum and contains no metal.

Construction/Performance

Product	3M ESR 65 Auto	3M ESR 80v2 Auto
Reflectivity (minimum)	98%	98%
Caliper (microns)	65 +/- 4	82 +/- 4
Halogen Free	Yes	Yes

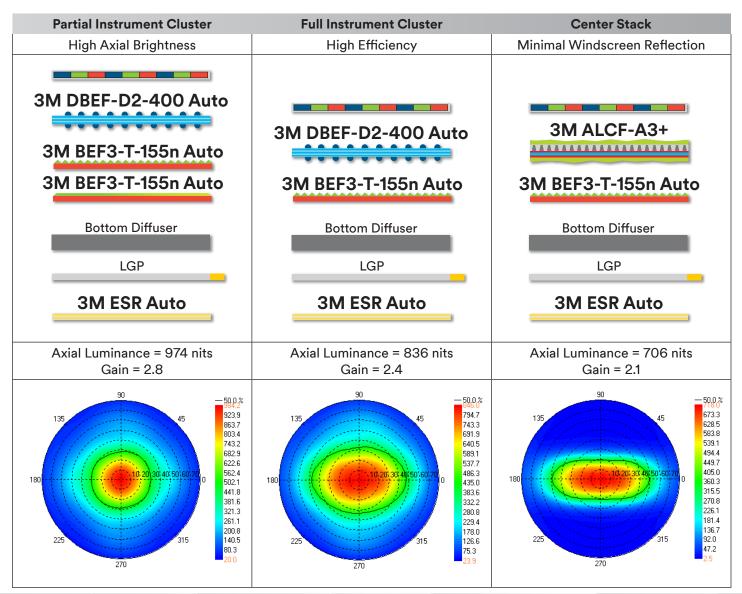


Backlight Efficiency



Reflector Impact Comparison

Automotive Display – Recommended Solutions



Automotive Environmental Testing

	Condition	Time
High Temperature	95°C	1000 hours
Low temperature	-40°C	1000 hours
Temperature/ Humidity	65°C/90%RH	1000 hours
Thermal Shock	-40°C to 95°C	1 hour dwell/ 100 cycles

Technical Information

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