Refrigerator State Table

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| --- | --- | --- | --- | --- | --- | --- |
| Events Buttons  STATE | Door Open | Door Close | Fridge On | Fridge Off | Current Temp below desired | Current Temp Above desired |
| Fridge On  Lights On / Door open Cooling | Fridge On  Lights On / Door open Cooling | Fridge On  Lights Off / Door closed Cooling | Fridge On  Lights On / Door open Cooling | Fridge Off Light Off / Door open Not Cooling | Fridge On  Lights On / Door open Not Cooling | Fridge On  Lights On / Door open Cooling |
| Fridge On  Lights On / Door open Not Cooling | Fridge On  Lights On / Door open Not Cooling | Fridge On  Lights Off / Door closed Not Cooling | Fridge On  Lights On / Door open Not Cooling | Fridge Off Light Off / Door open Not Cooling | Fridge On  Lights On / Door open Not Cooling | Fridge On  Lights On / Door open Cooling |
| Fridge On  Lights Off / Door closed Not Cooling | Fridge On  Lights On / Door Open Not Cooling | Fridge On  Lights Off / Door closed Not Cooling | Fridge On  Lights Off / Door closed Not Cooling | Fridge Off Light Off / Door closed Not Cooling | Fridge On  Lights Off / Door closed Not Cooling | Fridge On  Lights Off / Door closed Cooling |
| Fridge On  Lights Off / Door closed Cooling | Fridge On  Lights on / Door open Cooling | Fridge On  Lights Off / Door closed Cooling | Fridge On  Lights Off / Door closed Cooling | Fridge Off Light Off / Door closed Not Cooling | Fridge On  Lights Off / Door closed Not Cooling | Fridge On  Lights Off / Door closed Cooling |
| Fridge Off Lights Off / Door close Not Cooling | Fridge Off Light Off / Door open Not Cooling | Fridge Off Lights Off / Door closed Not Cooling | Fridge On  Lights Off / Door closed Not Cooling | Fridge Off Light Off / Door close Not Cooling | Fridge Off Lights Off / Door close Not Cooling | Fridge Off Lights Off / Door close Not Cooling |
| Fridge Off Light Off / Door open Not Cooling | Fridge Off Light Off / Door open Not Cooling | Fridge Off Lights Off / Door closed Not Cooling | Fridge On Light On / Door open Not Cooling | Fridge Off Light Off / Door open Not Cooling | Fridge Off Light Off / Door open Not Cooling | Fridge Off Light Off / Door open Not Cooling |