IPC OR High Heads Downs Cluster Display Intensity and Backlighting

The IPC shall utilize the following functions to support illumination control of its Display and all other lighting emitting sources within it i.e. backlighting, halo rings, gauges etc. as per RQT-002004-704098 Ford Welcome/Farewell and Lincoln Embrace Strategy":

- Subscribe to "Dimming IvI" published by BCM via CAN.
 - o Additionally subscribe to "Litval" to meet "Smooth Dimming" requirements
- "LE WF Illumination Requestor", section 5.3, with the following default values:
 - o Fade On = 40ms
 - o Fade Off = 40ms
- "LE WF Illumination Response", section 5.4.

CAN Signals			
Dimming_lvl	Ignition_Status	Switch-Backlighting Illumination "LE_WF_Illumination_Requestor" summary	Illumination Intensity ²
Off/ unused / invalid / missing (on reset)	Not-OFF	"Transition On" or "On"	Night_12
Night_1 Night_12, Day_1 Day_6	Not-OFF	"Transition On" or "On"	Night_1 Night_12, Day_1 Day_6
Night_1 Night_12, Day_1 Day_6 -> Missing	Not-OFF	"Transition On" or "On"	Keep last valid Dimming_lvI value > Missing (until "OFF" is received)
Off/ unused / invalid / missing (on reset)	OFF	"Transition Off" or "Off"	Off
Night_1 Night_12, Day_1 Day_6	OFF	"Transition On" or "On" to intensity	Night_1 Night_12, Day_1 Day_6 ²
Night_1 Night_12, Day_1 Day_6 -> Missing	OFF	"Transition On" or "On" to intensity	Keep last valid Dimming_lvl value > Missing (until "OFF" is received)

Note 1: Summary is a generic response, exact response listed in RQT-002004-704098 Ford Welcome/Farewell and Lincoln Embrace Strategy. Note 2: Shall also monitor and adjust illumination intensity based off of changes in Litval, in order to meet "Cockpit Illumination"/"Smooth Dimming" requirements listed in latest version of ES-H1BT-1A278-AA-VXX

Note 3: Illuminate to Night 12 intensity if warnings present, for duration of active warning.