



Autonomous Dimming Function for Outdoor luminaires and LED Modules Basic+

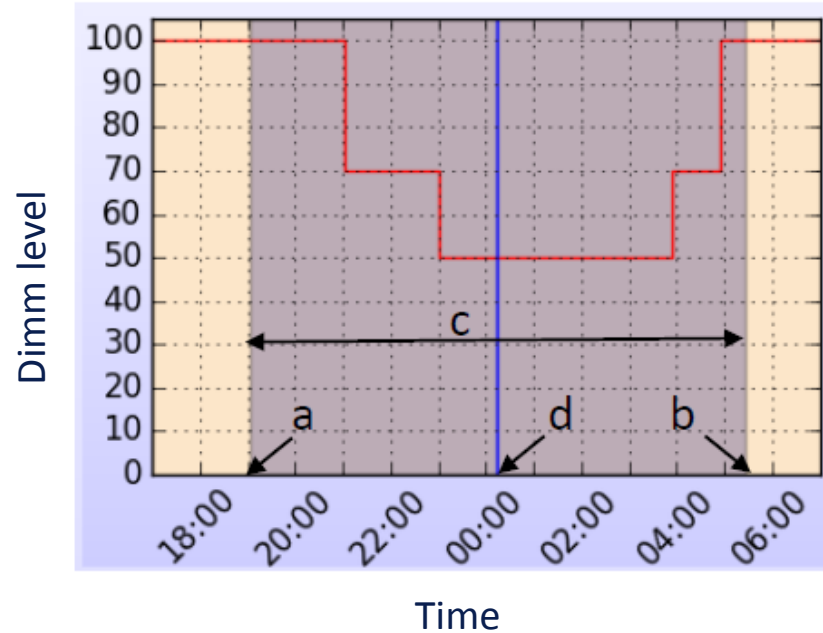
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LED Lighting solutions for Municipality , Industry und Commerce

Description of Operation

- Lunux luminaires provide the option of autonomous dimming operation.
- During operation, the light level is automatically dimmed to different levels according to a predefined profile (examples below) .
- A maximum of 5 dimming steps between 0-100% can be defined.

Description of Operation

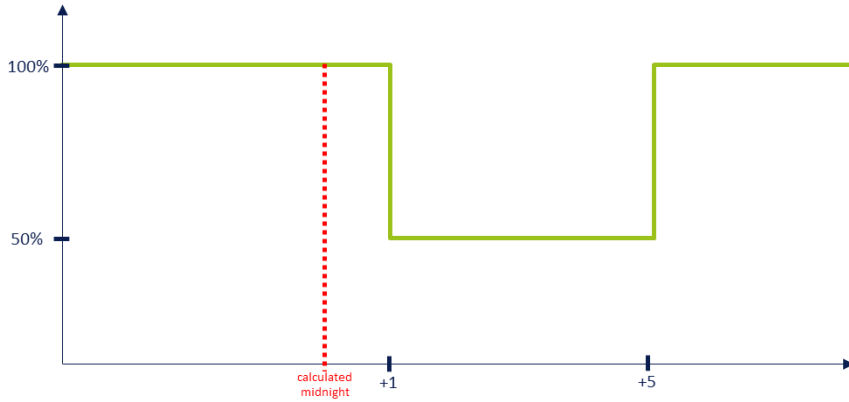


1. During operation the luminaire counts the runtime between switching on and off and saves this information
2. At next operation the saved runtime is used to calculate a virtual midnight point*.
3. The dimming points for next operation are then determined relative to this midnight point

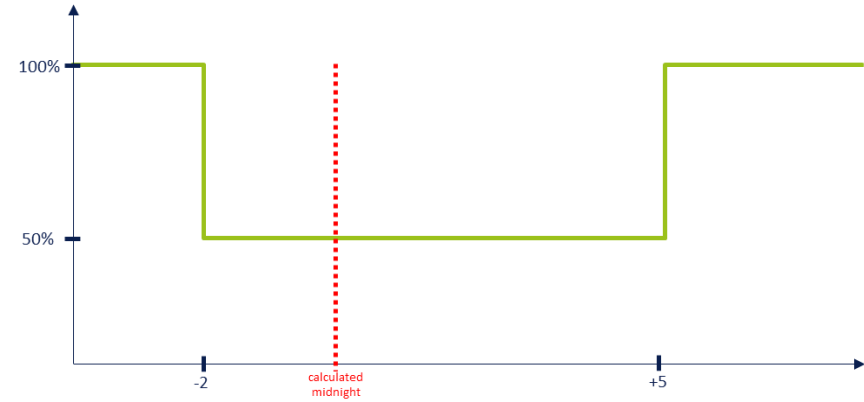
*for accurate midnight calculation, the luminaire needs to be switched on in the same offset to sunset as it is switched off to sunrise (e.g. switch on 20 min after sunset and switch off 20 min before sunrise)

Overview

D01: Dimming profile 1



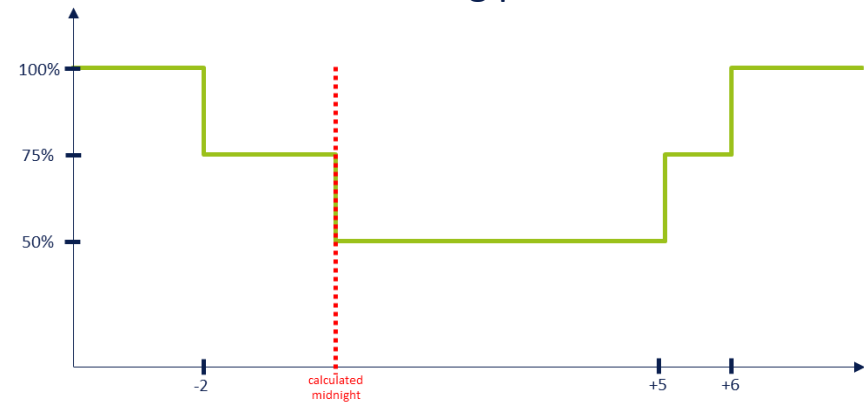
D02: Dimming profile 2



D03: Dimming profile 3

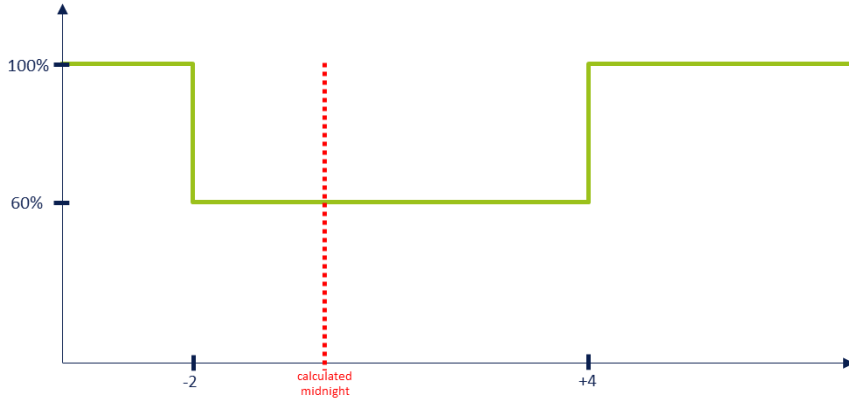


D04: Dimming profile 4

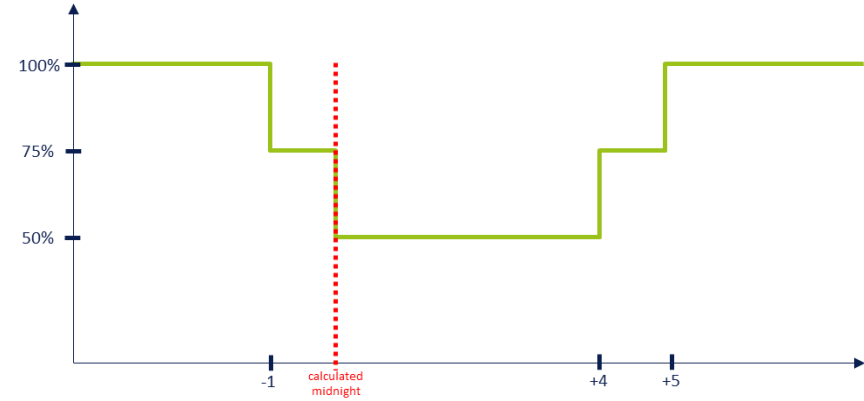


Overview

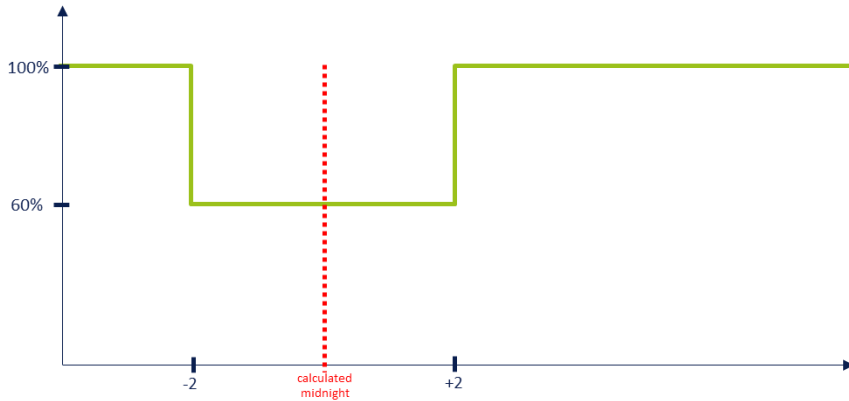
D05: Dimming profile 5



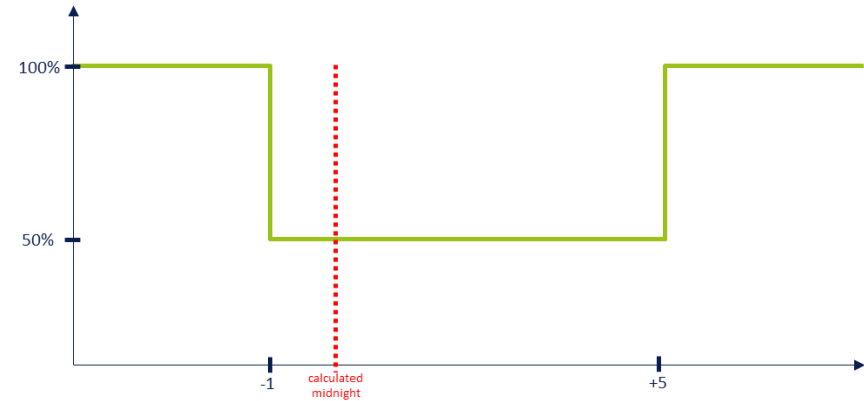
D06: Dimming profile 6



D07: Dimming profile 7

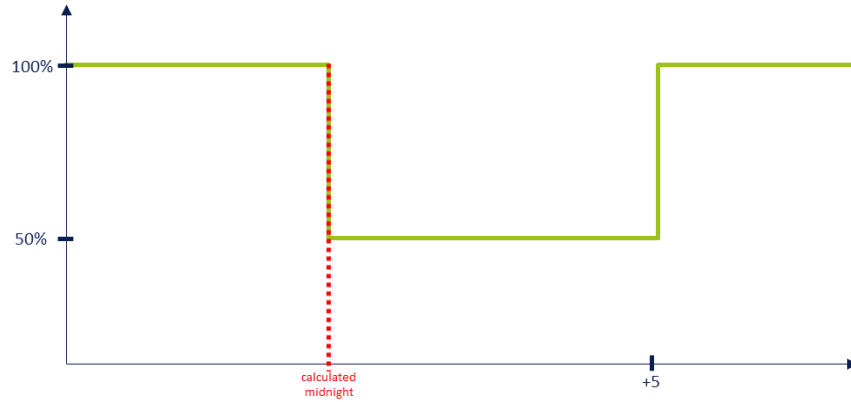


D08: Dimming profile 8

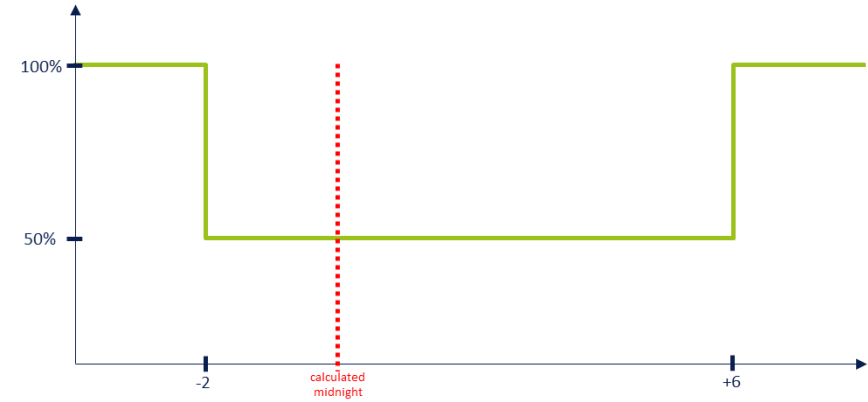


Overview

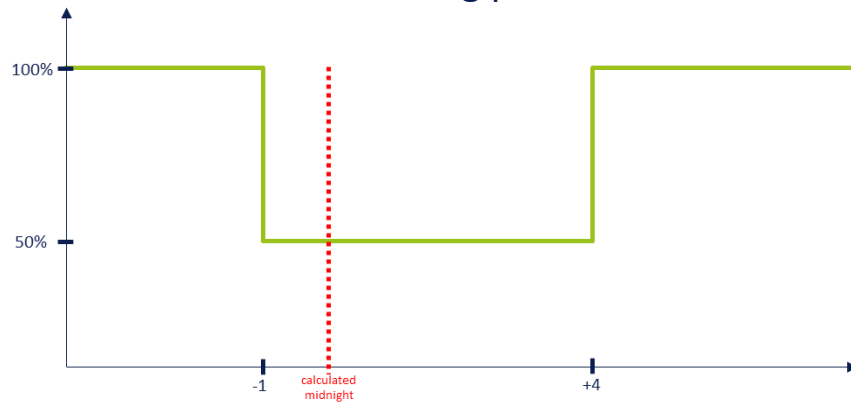
D09: Dimming profile 9



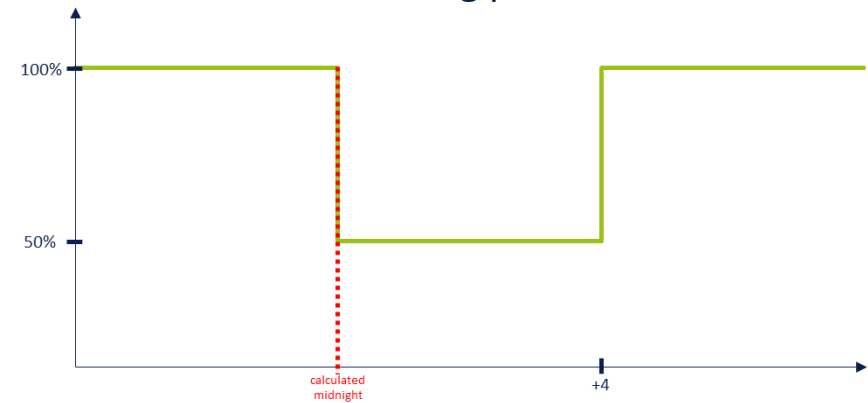
D10: Dimming profile 10



D11: Dimming profile 11

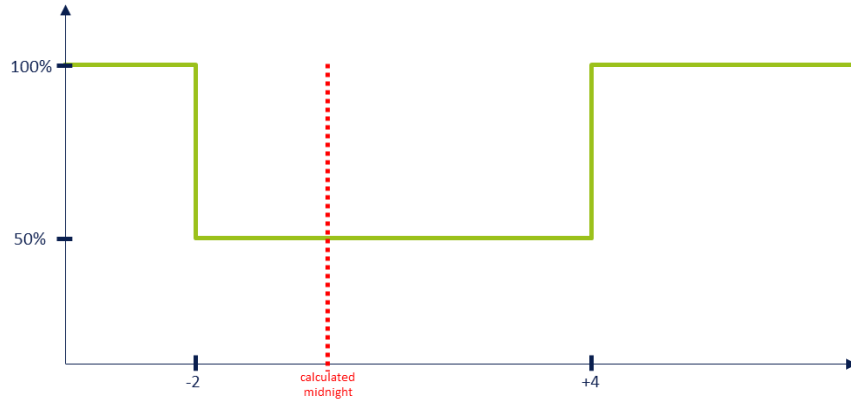


D12: Dimming profile 12

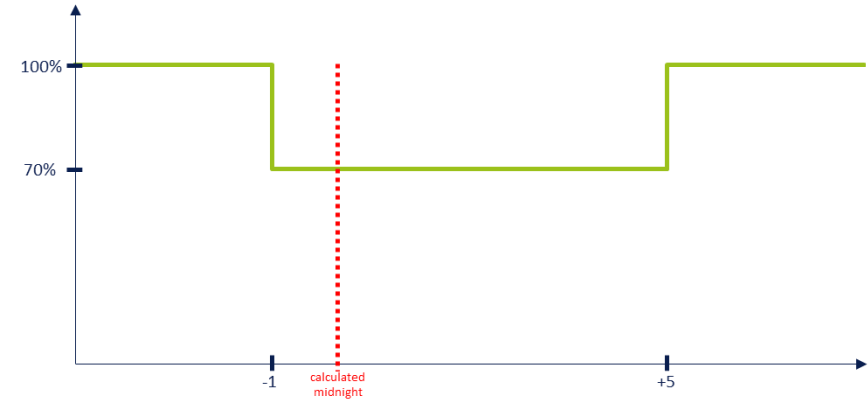


Overview

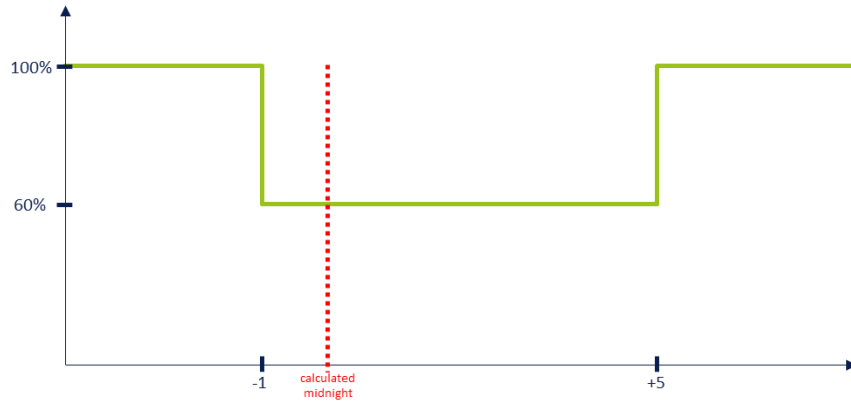
D13: Dimming profile 13



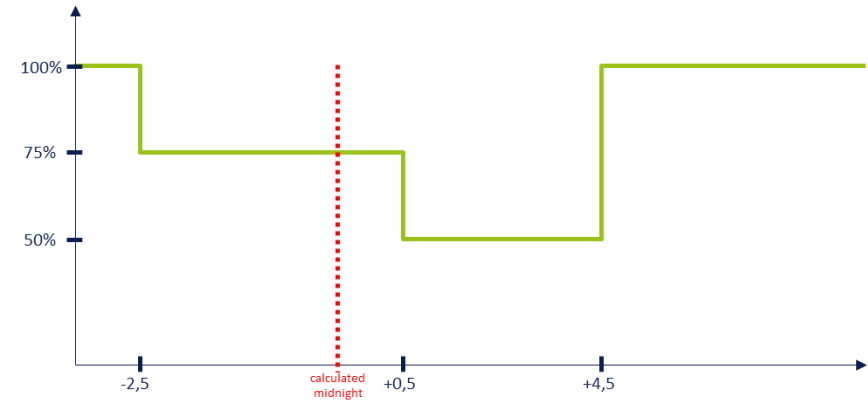
D14: Dimming profile 14



D15: Dimming profile 15

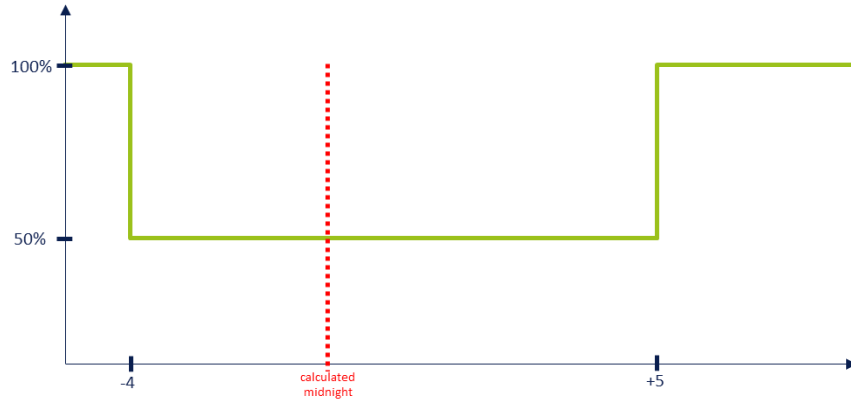


D16: Dimming profile 16

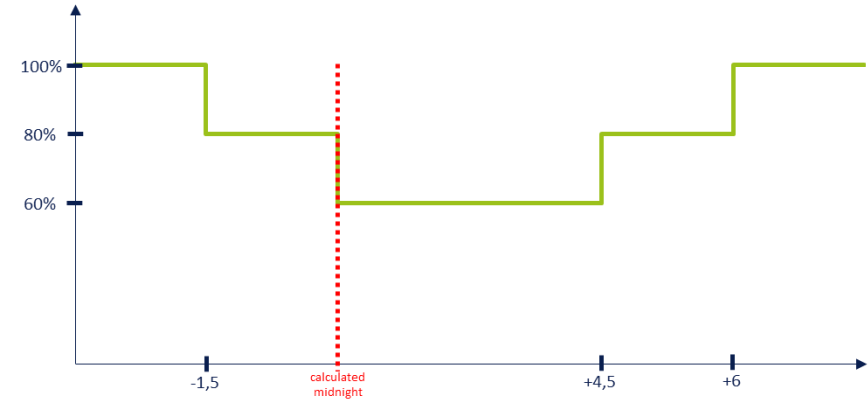


Overview

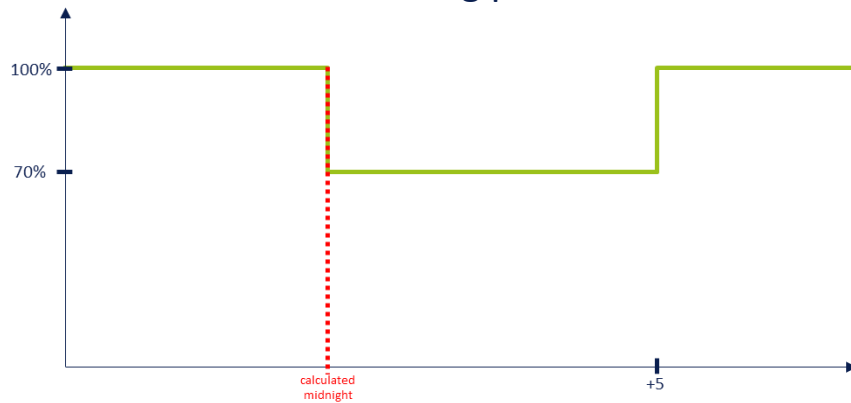
D17: Dimming profile 17



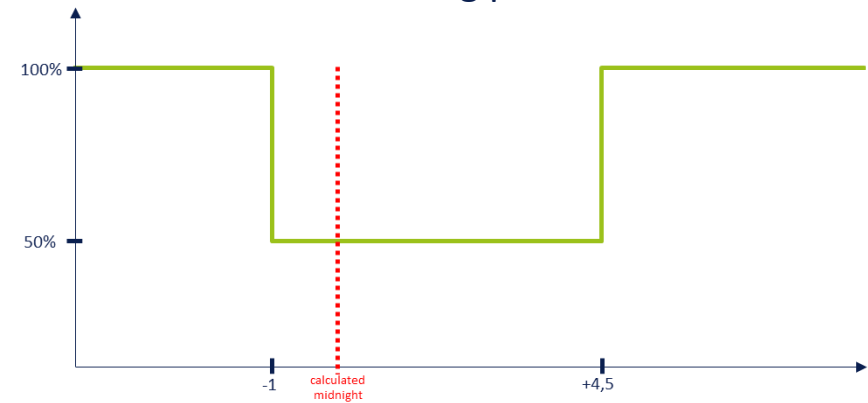
D18: Dimming profile 18



D19: Dimming profile 19



D20: Dimming profile 20

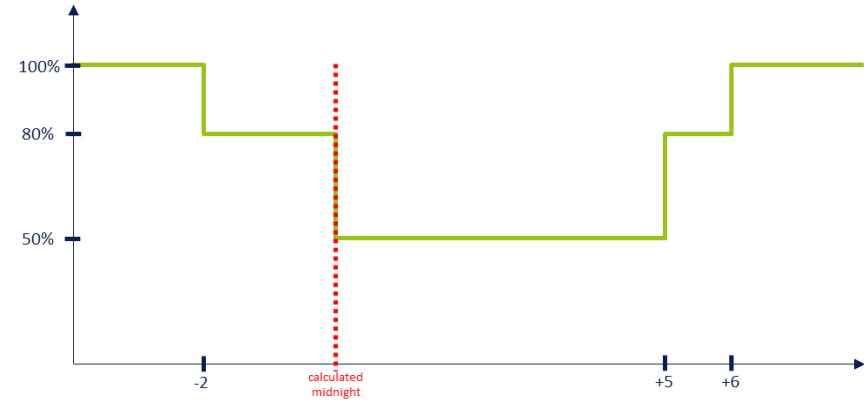


Overview

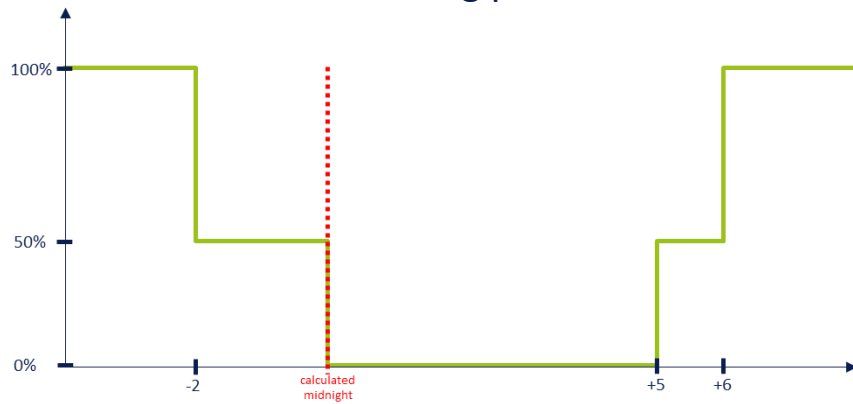
D21: Dimming profile 21



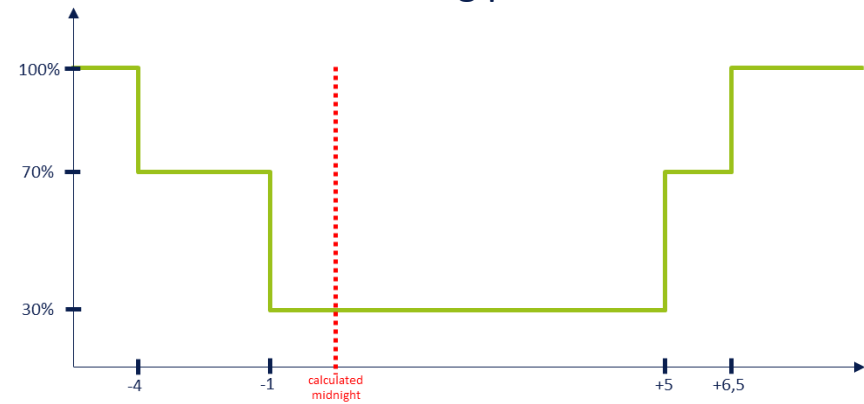
D22: Dimming profile 22



D23: Dimming profile 23

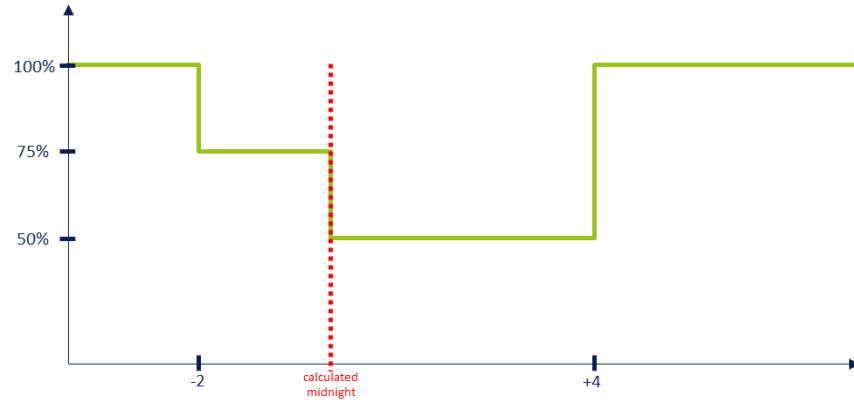


D24: Dimming profile 24

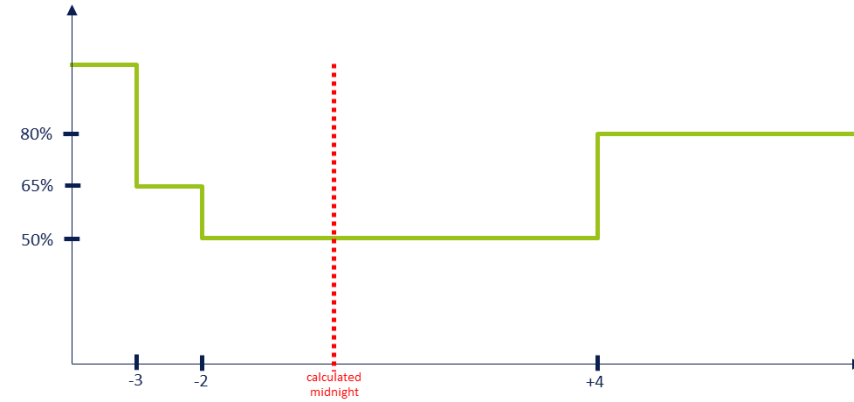


Overview

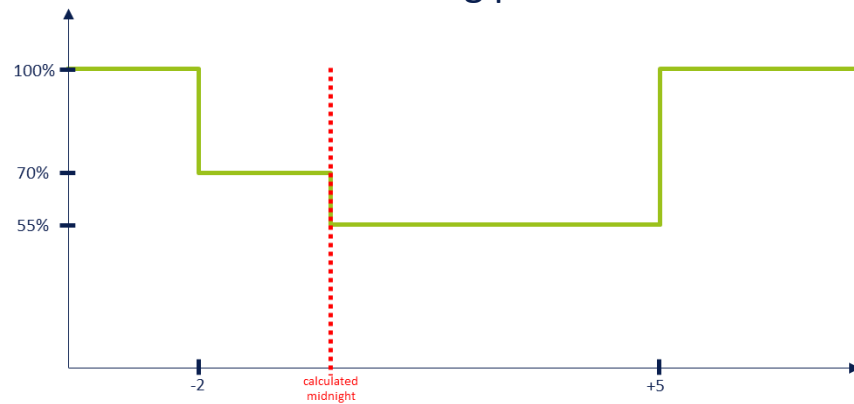
D25: Dimming profile 25



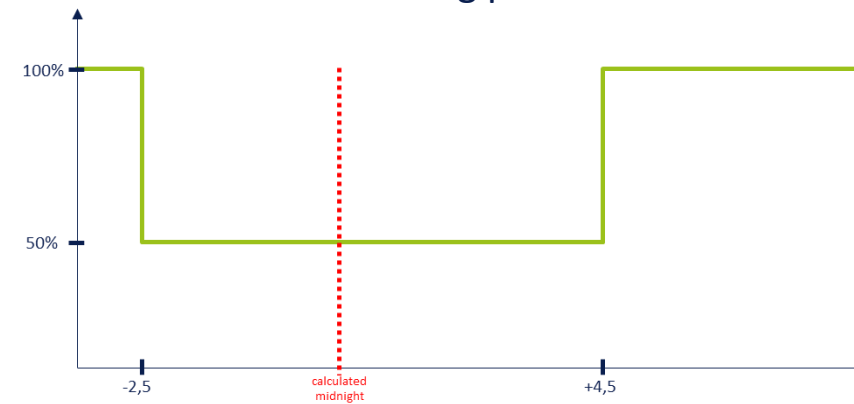
D26: Dimming profile 26



D27: Dimming profile 27



D28: Dimming profile 28

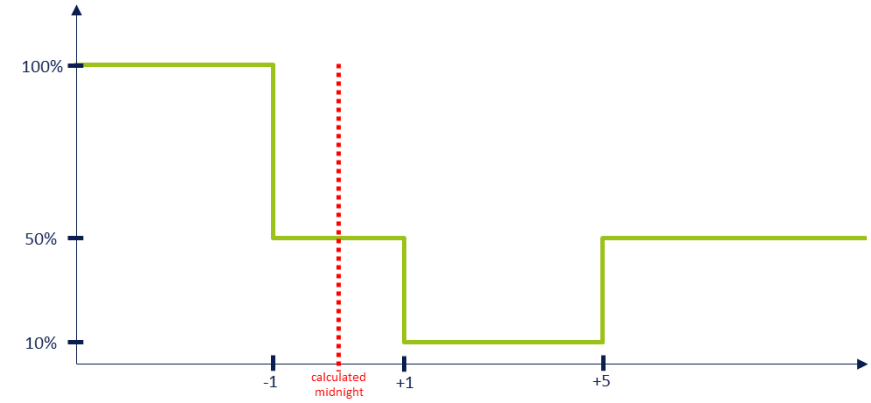


Overview

D29: Dimming profile 29

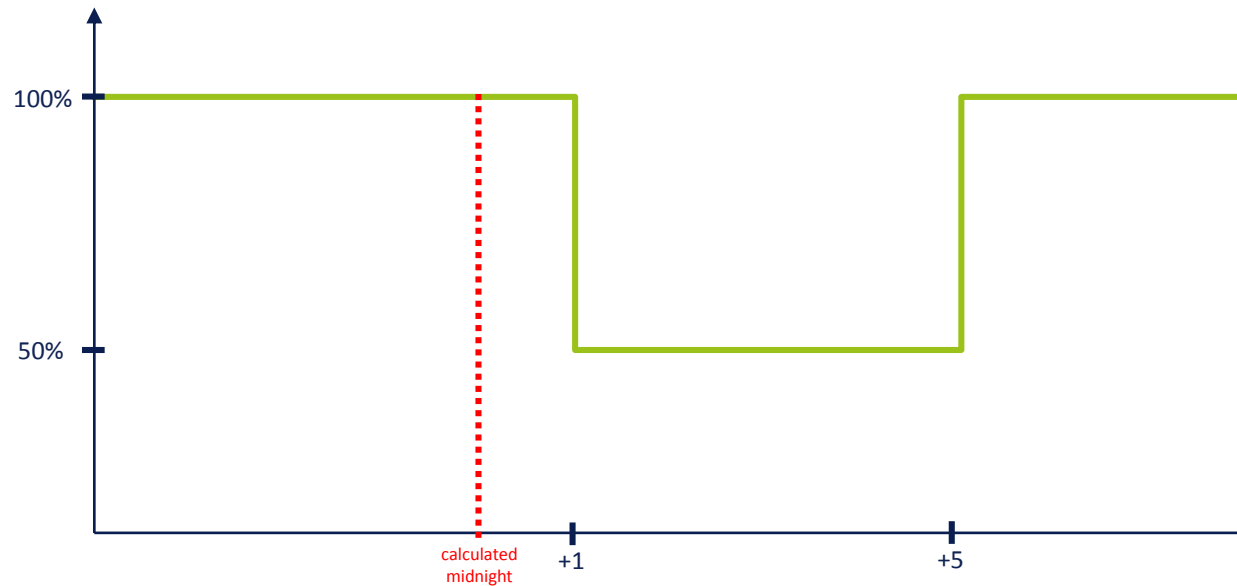


D30: Dimming profile 30



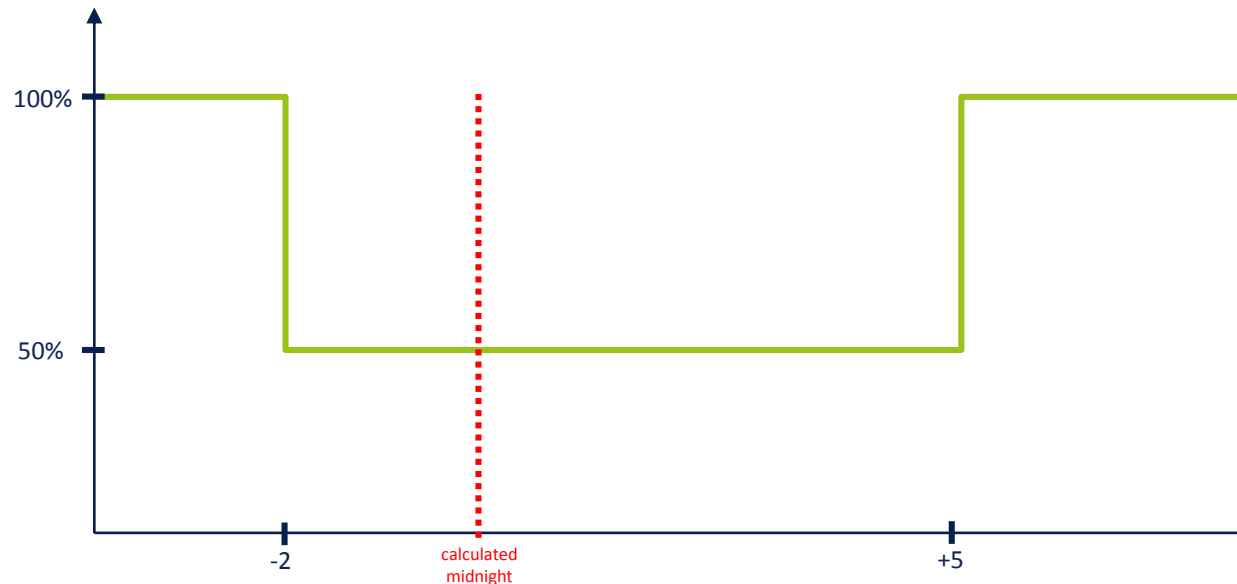
D01: Dimming profile 1

Time	Level
Until +1	100%
+1 to +5	50%
From +5	100%



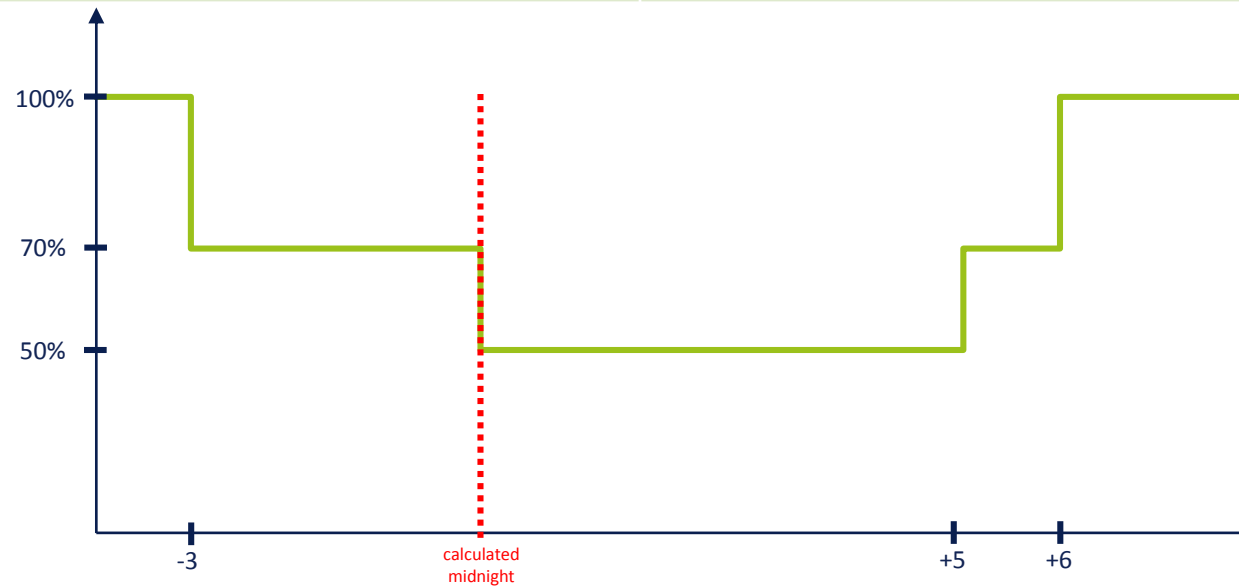
D02: Dimming profile 2

Time	Level
Until -2	100%
-2 to +5	50%
From +5	100%



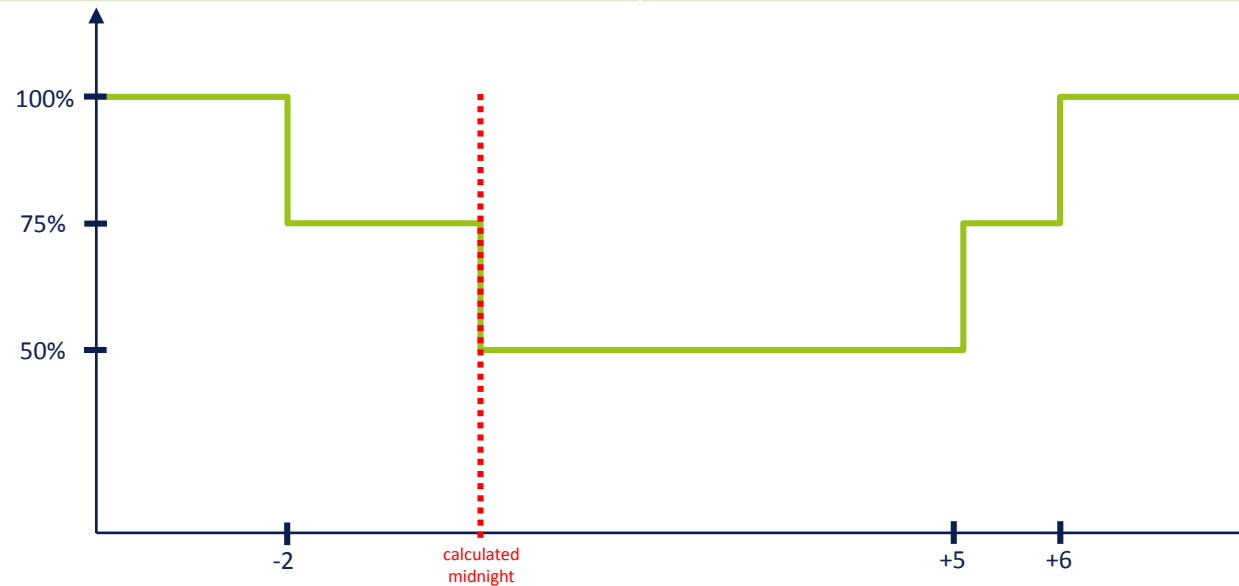
D03: Dimming profile 3

Time	Level
Until -3	100%
-3 to 0	70%
0 to +5	50%
+5 to +6	70%
From +6	100%



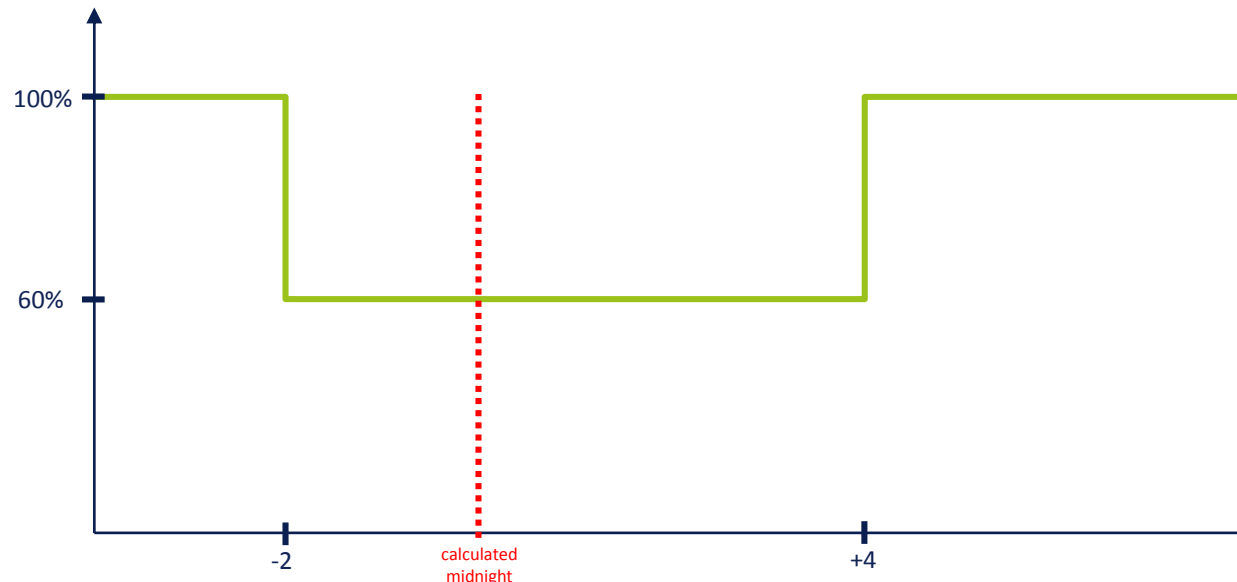
D04: Dimming profile 4

Time	Level
Until -2	100%
-2 to 0	75%
0 to +5	50%
+5 to +6	75%
From +6	100%



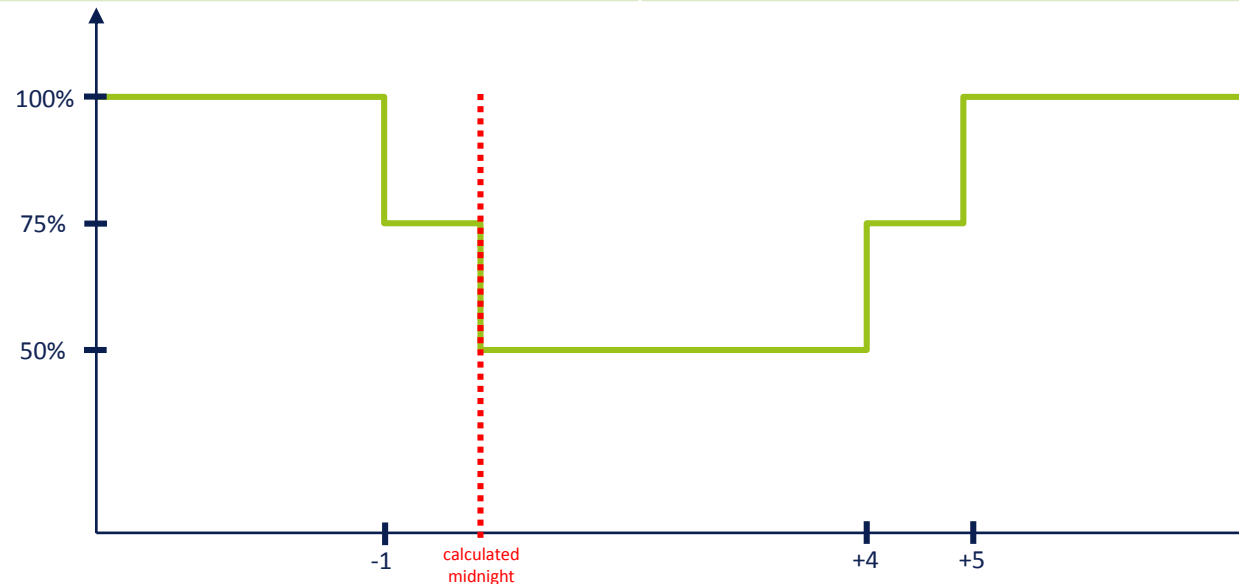
D05: Dimming profile 5

Time	Level
Until -2	100%
-2 to +4	60%
From +4	100%



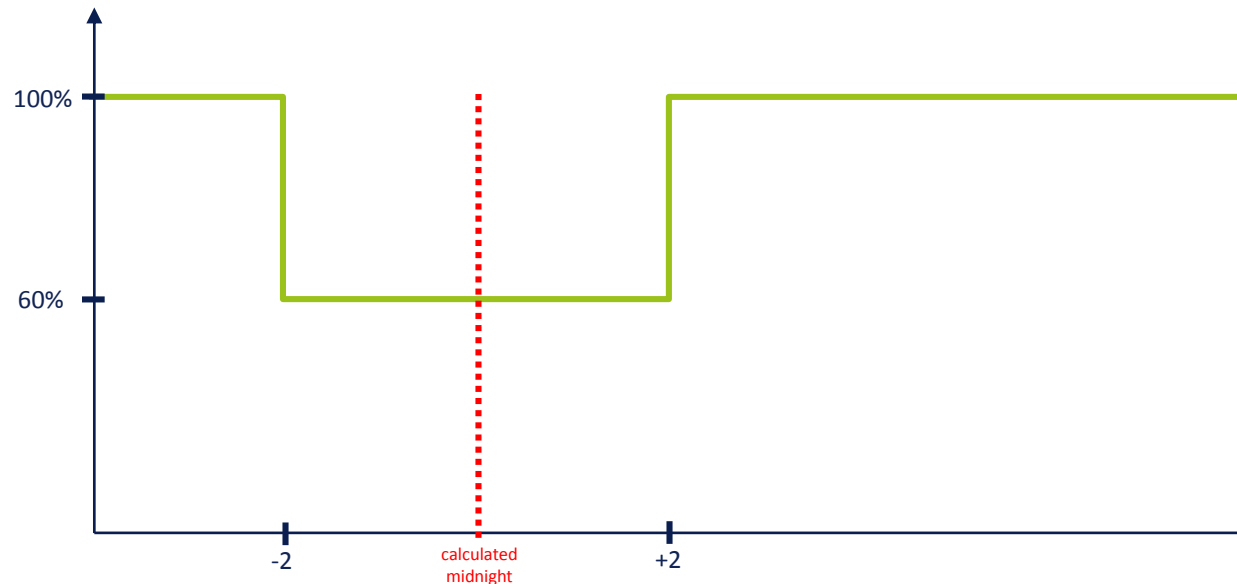
D06: Dimming profile 6

Time	Level
Until -1	100%
-1 to 0	75%
0 to +4	50%
+4 to +5	75%
From +5	100%



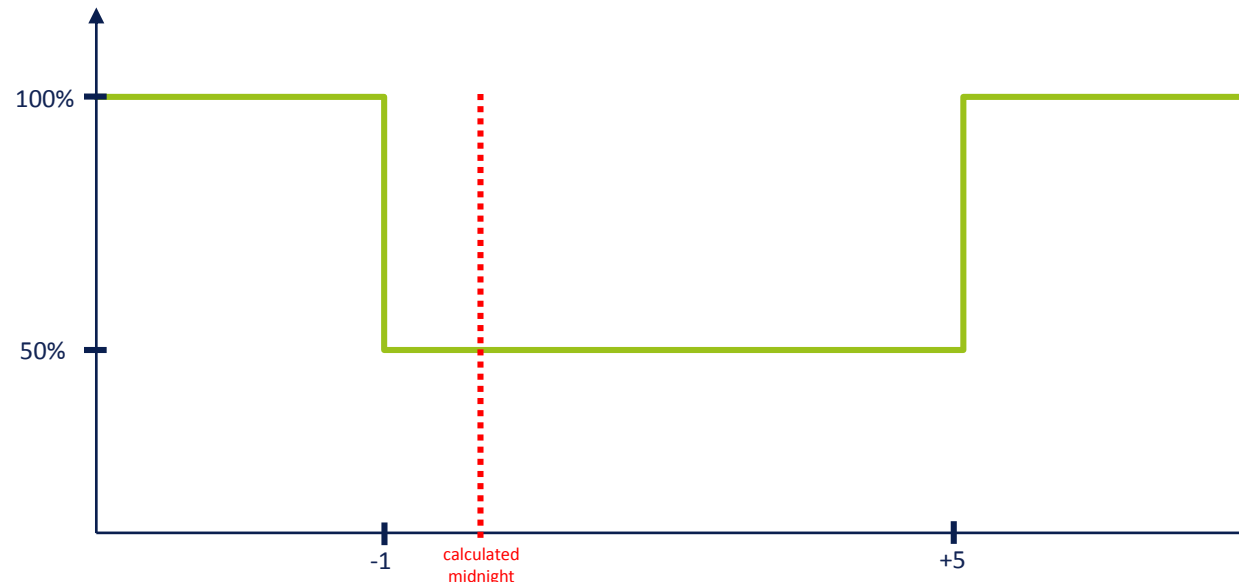
D07: Dimming profile 7

Time	Level
Until -2	100%
-2 to +2	60%
From +2	100%



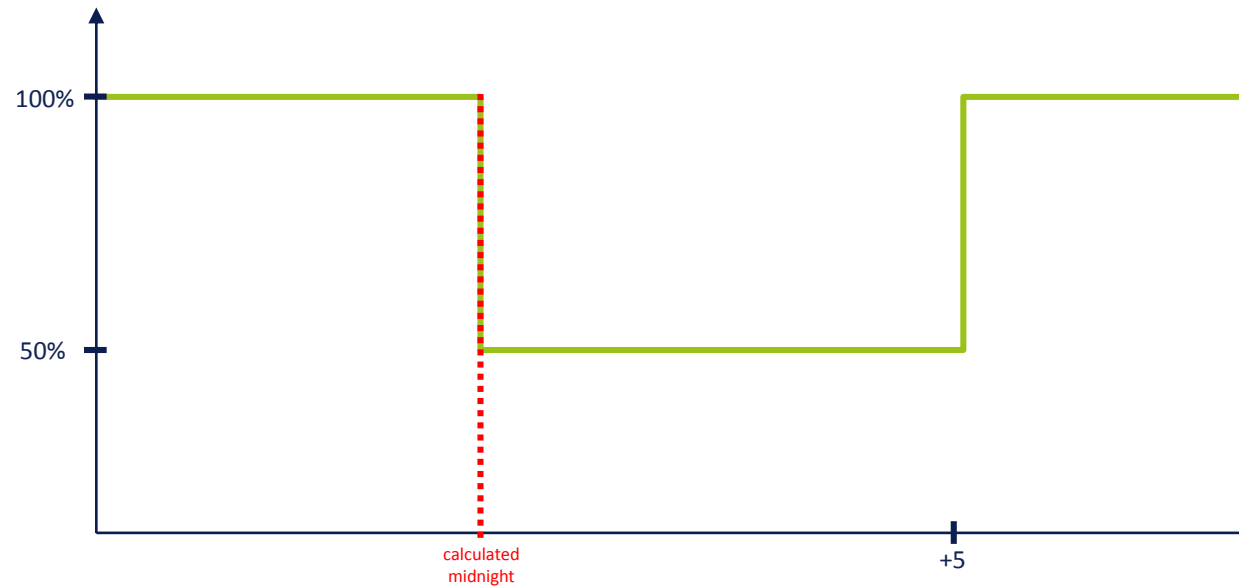
D08: Dimming profile 8

Time	Level
Until -1	100%
-1 to +5	50%
From +5	100%



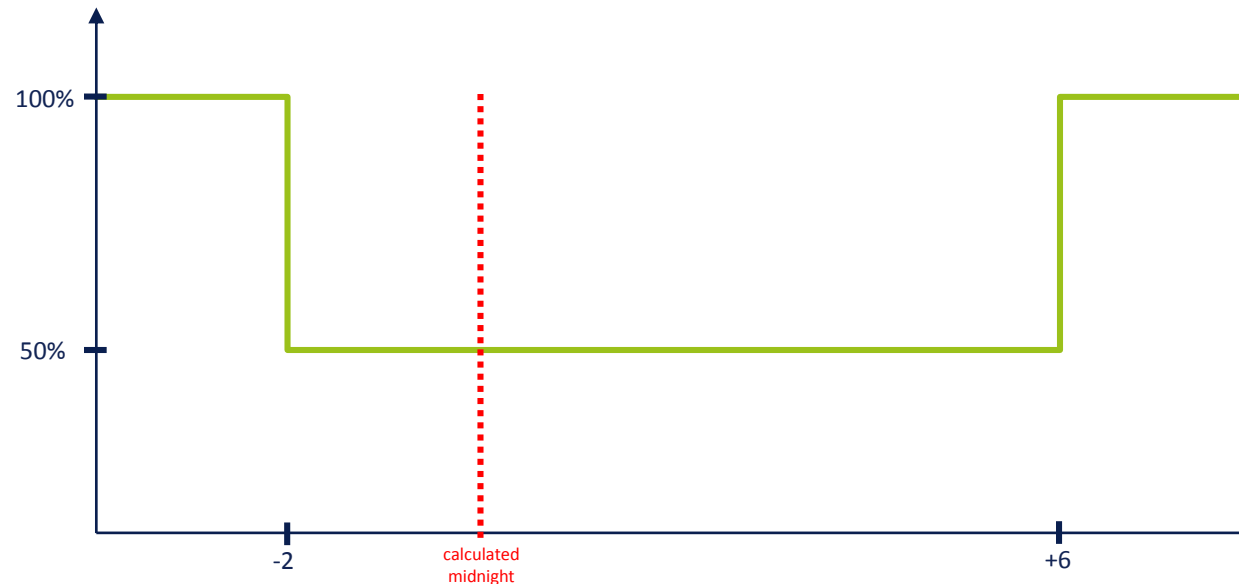
D09: Dimming profile 9

Time	Level
Until 0	100%
0 to +5	50%
From +5	100%



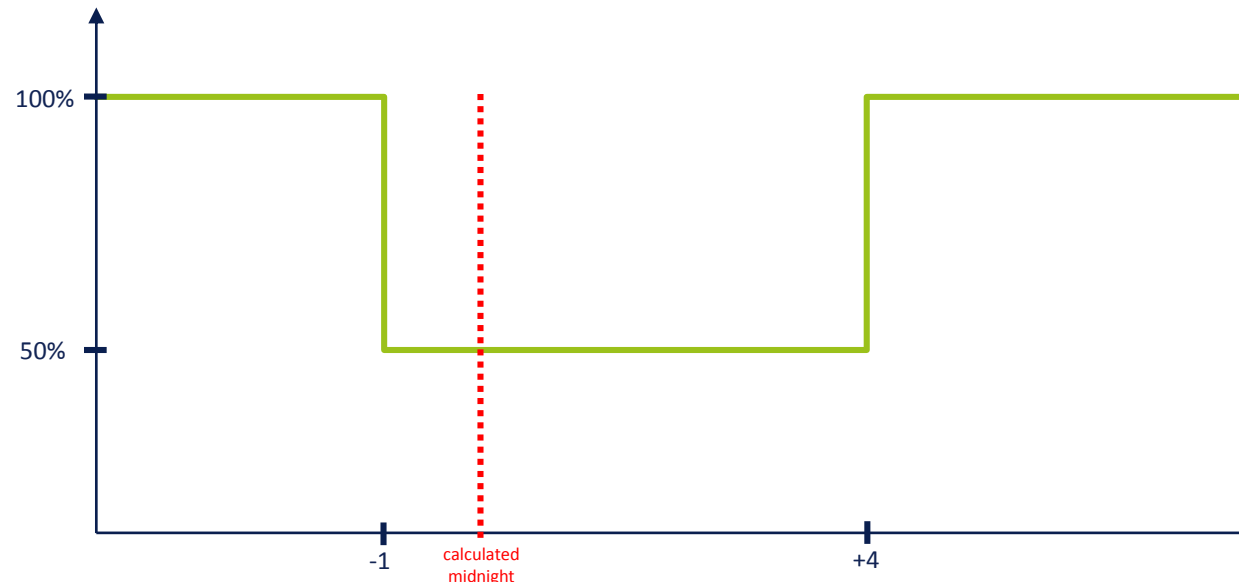
D10: Dimming profile 10

Time	Level
Until -2	100%
-2 to +6	50%
From +6	100%



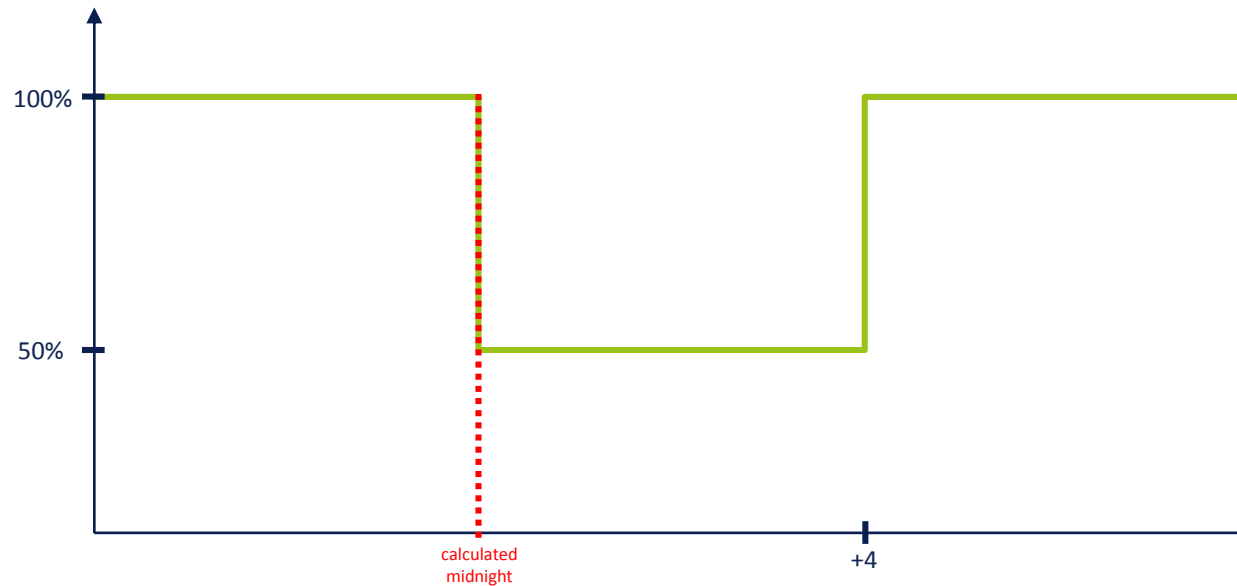
D11: Dimming profile 11

Time	Level
Until -1	100%
-1 to +4	50%
From +4	100%



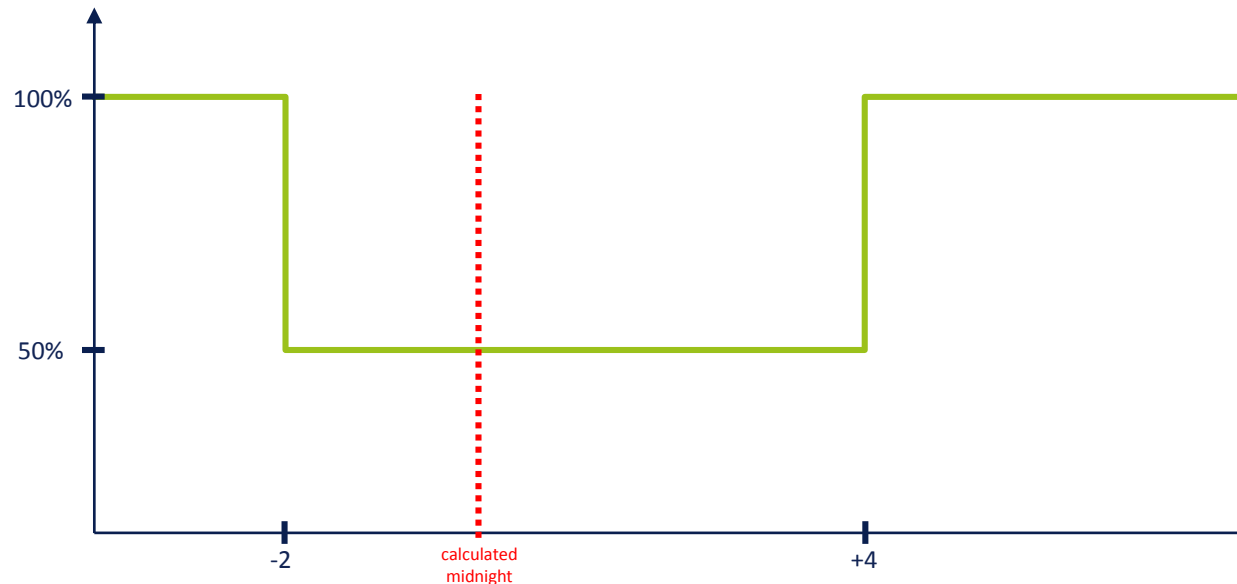
D12: Dimming profile 12

Time	Level
Until 0	100%
0 to +4	50%
From +4	100%



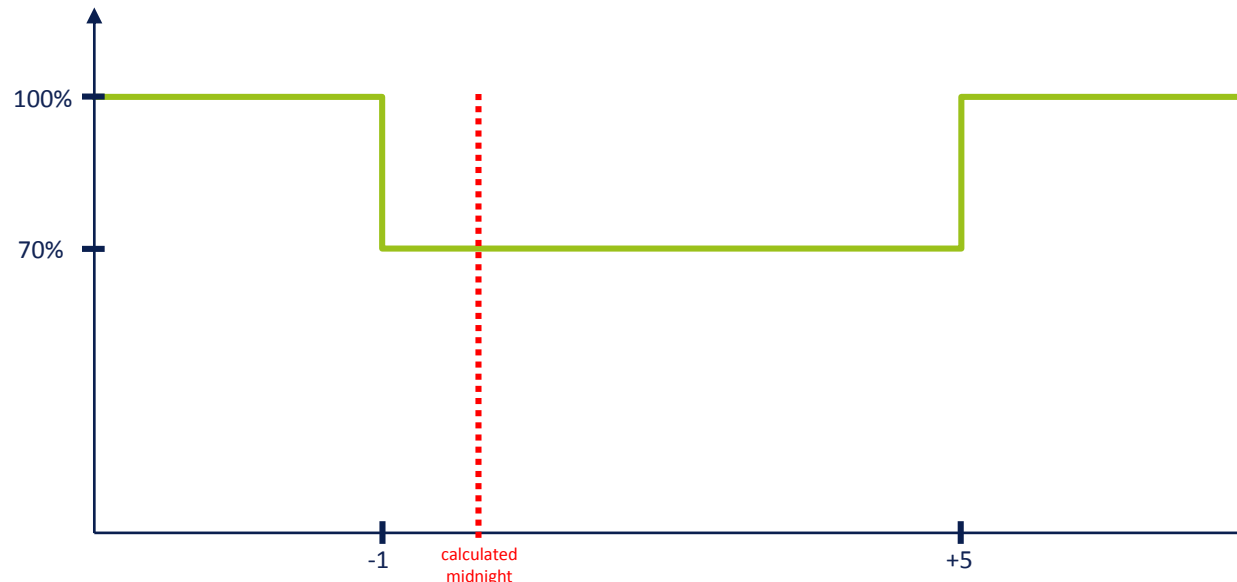
D13: Dimming profile 13

Time	Level
Until -2	100%
-2 to +4	50%
From +4	100%



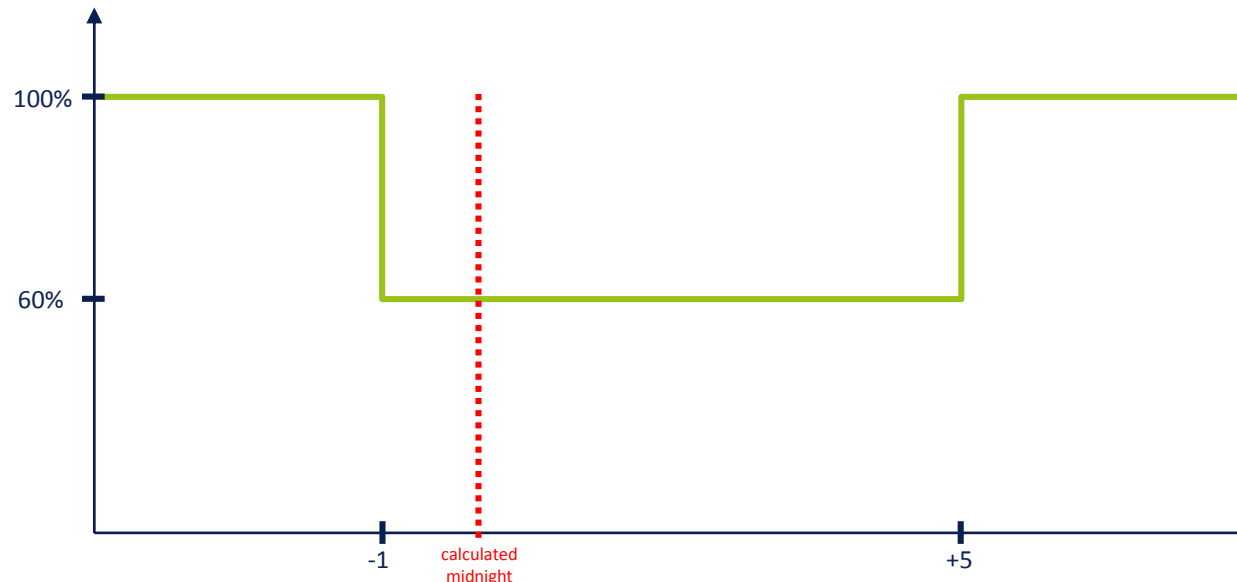
D14: Dimming profile 14

Time	From
Until -1	100%
-1 to +5	70%
From +5	100%



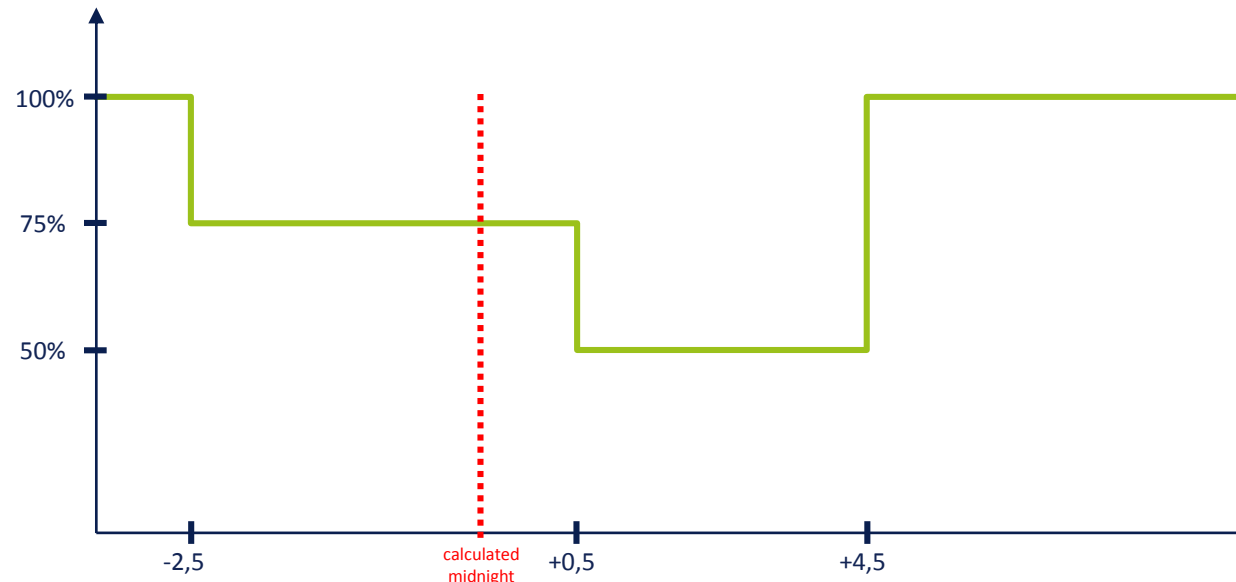
D15: Dimming profile 15

Time	Level
Until -1	100%
-1 to +5	60%
From +5	100%



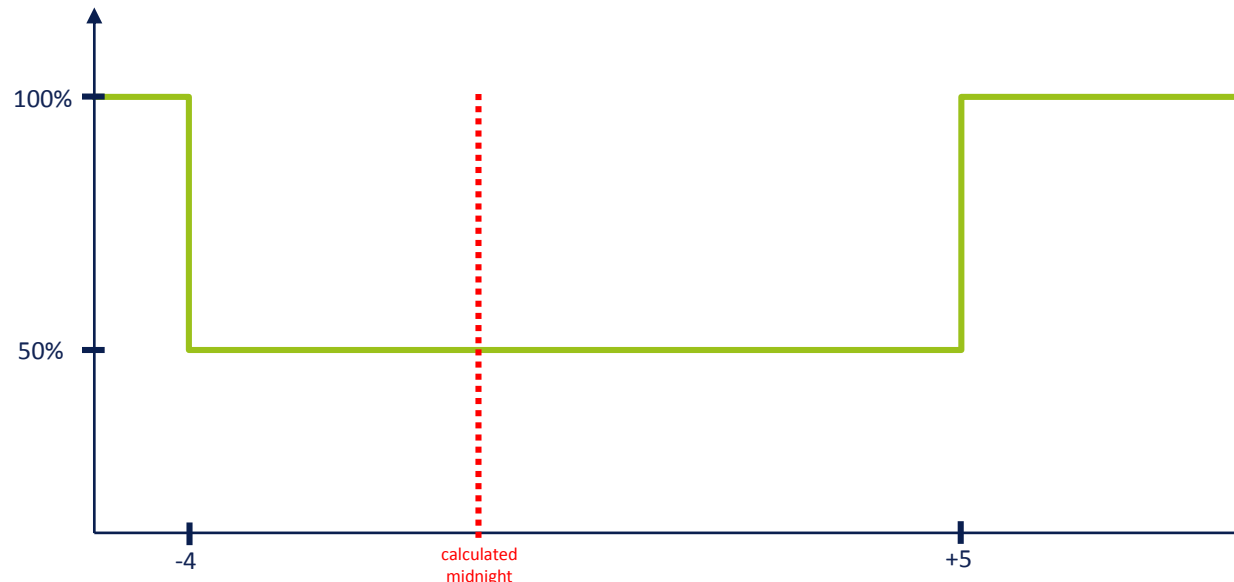
D16: Dimming profile 16

Time	Level
Until -2,5	100%
-2,5 to +0,5	75%
+0,5 to +4,5	50%
From +4,5	100%



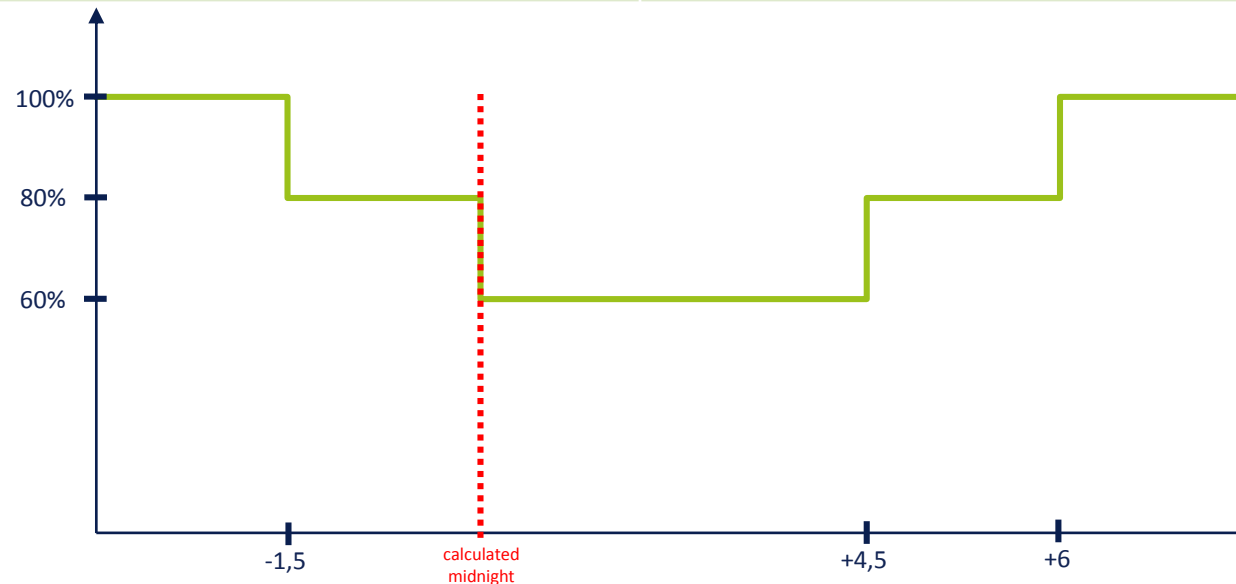
D17: Dimming profile 17

Time	Level
Until -4	100%
-4 to +5	50%
From +5	100%



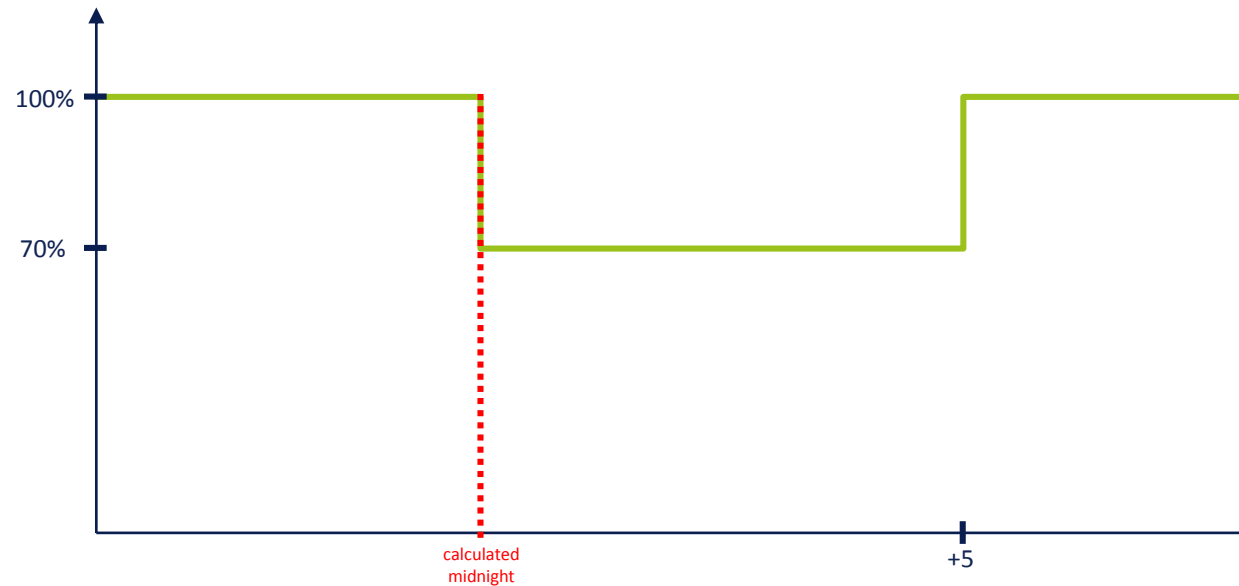
D18: Dimming profile 18

Time	Level
Until -1,5	100%
-1,5 to 0	80%
0 to +4,5	60%
+4,5 to +6	80%
From +6	100%



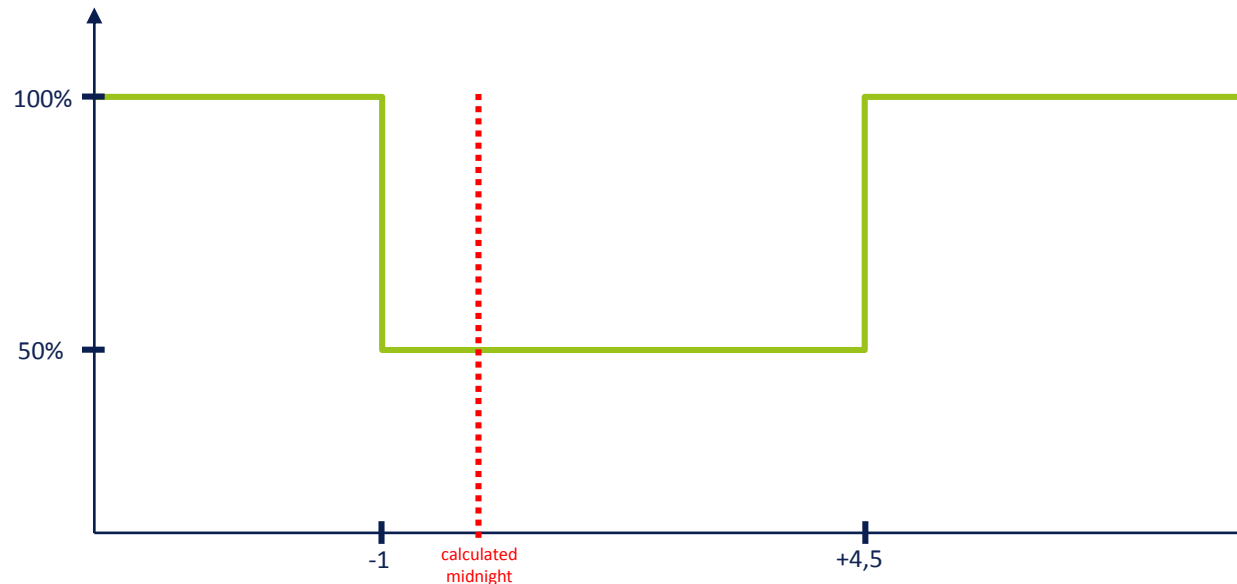
D19: Dimming profile 19

Time	Level
Until 0	100%
0 to +5	70%
From +5	100%



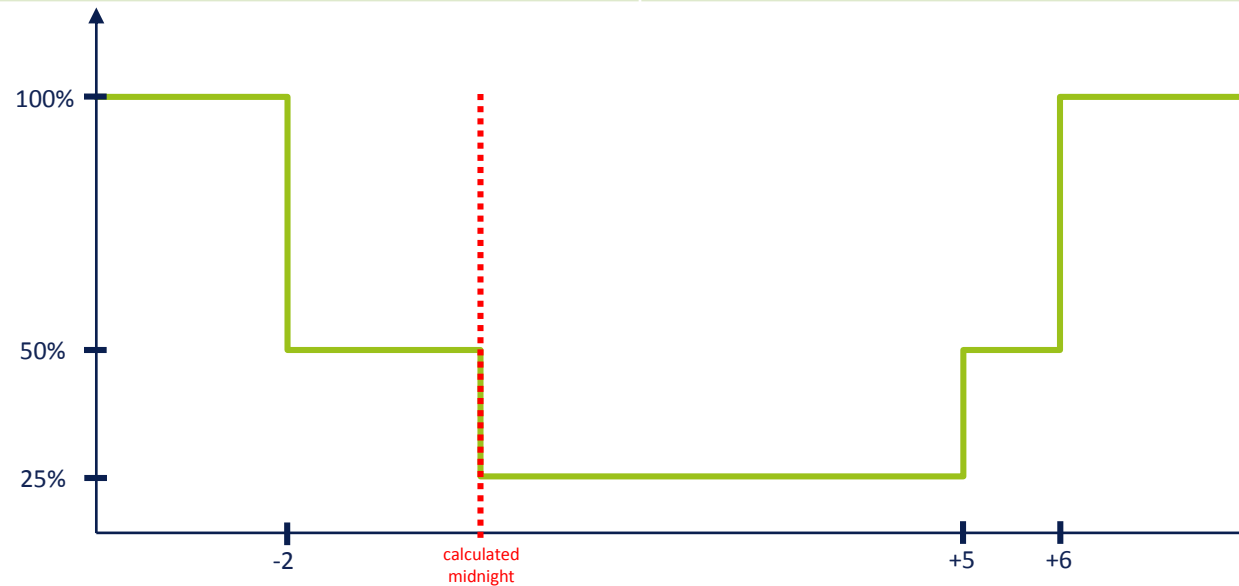
D20: Dimming profile 20

Time	Level
Until -1	100%
-1 to +4,5	50%
From +4,5	100%



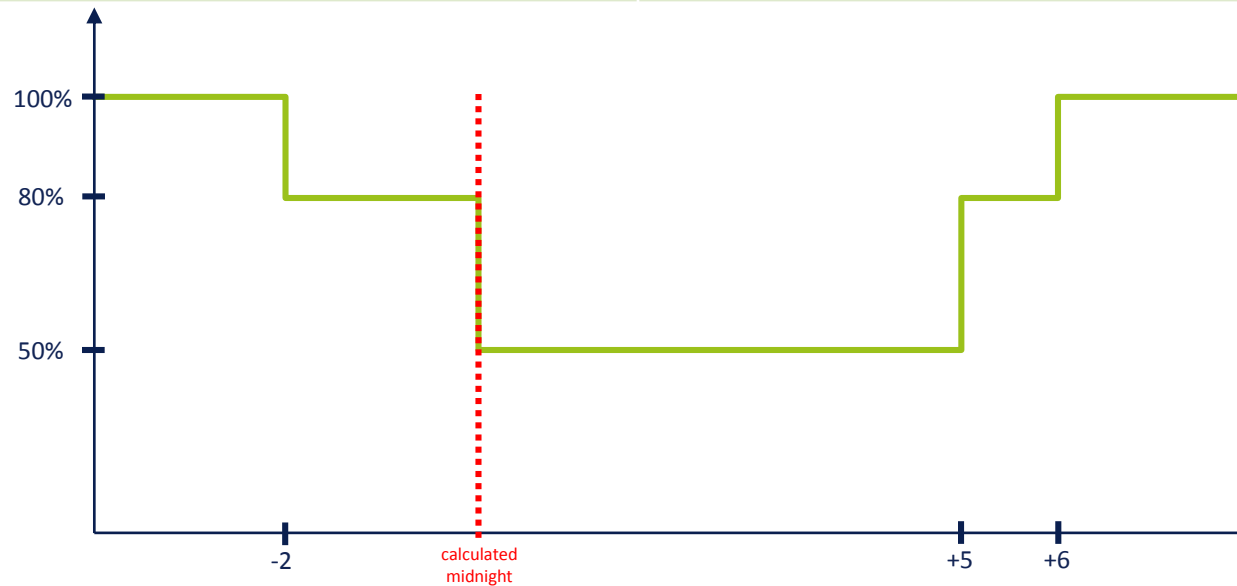
D21: Dimming profile 21

Time	Level
Until -2	100%
-2 to 0	50%
0 to +5	25%
+5 to +6	50%
From +6	100%



D22: Dimming profile 22

Time	Level
Until -2	100%
-2 to 0	80%
0 to +5	50%
+5 to +6	80%
From +6	100%



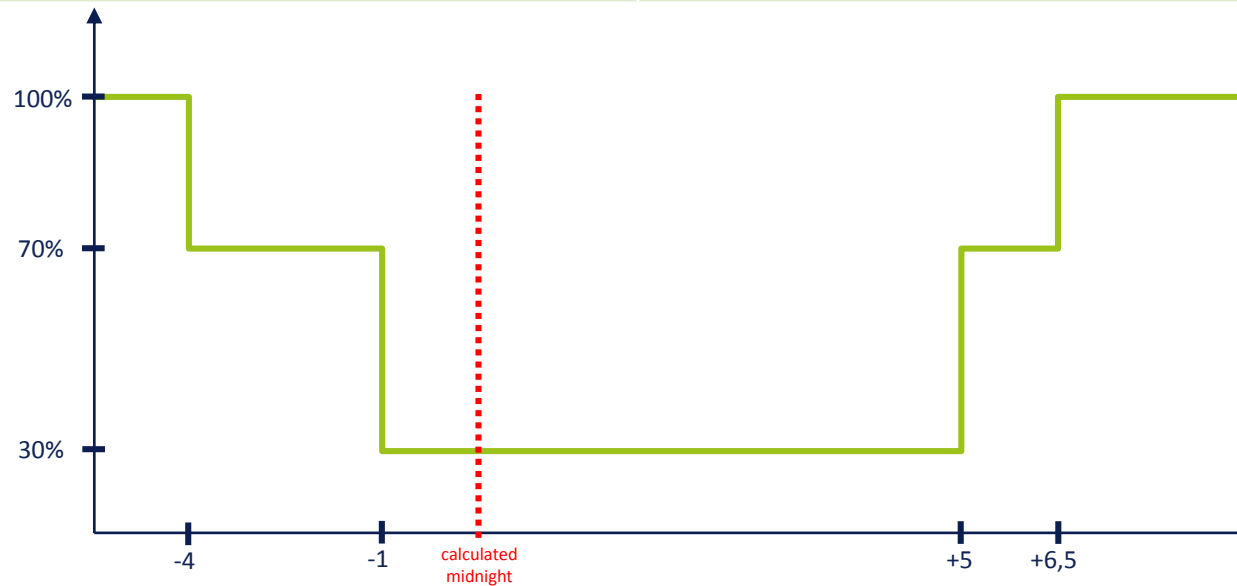
D23: Dimming profile 23

Time	Level
Until -2	100%
-2 to 0	50%
0 to +5	0%
+5 to +6	50%
From +6	100%



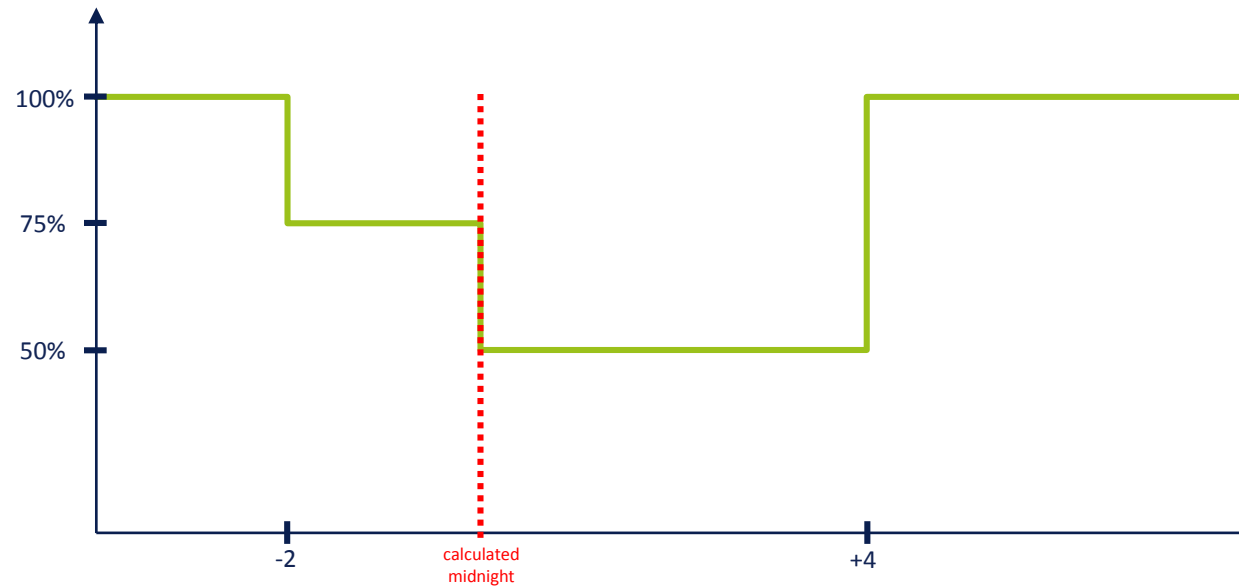
D24: Dimming profile 24

Time	Level
Until -4	100%
-4 to -1	70%
-1 to +5	30%
+5 to +6,5	70%
From +6,5	100%



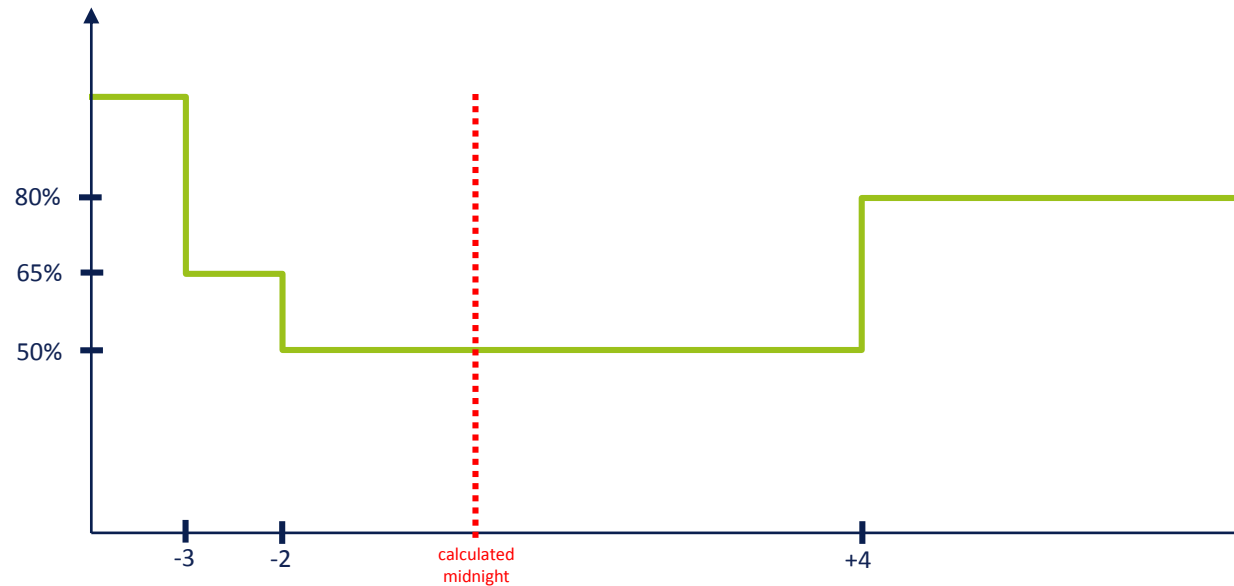
D25: Dimming profile 25

Time	Level
Until -2	100%
-2 to 0	75%
0 to +4	50%
From +4	100%



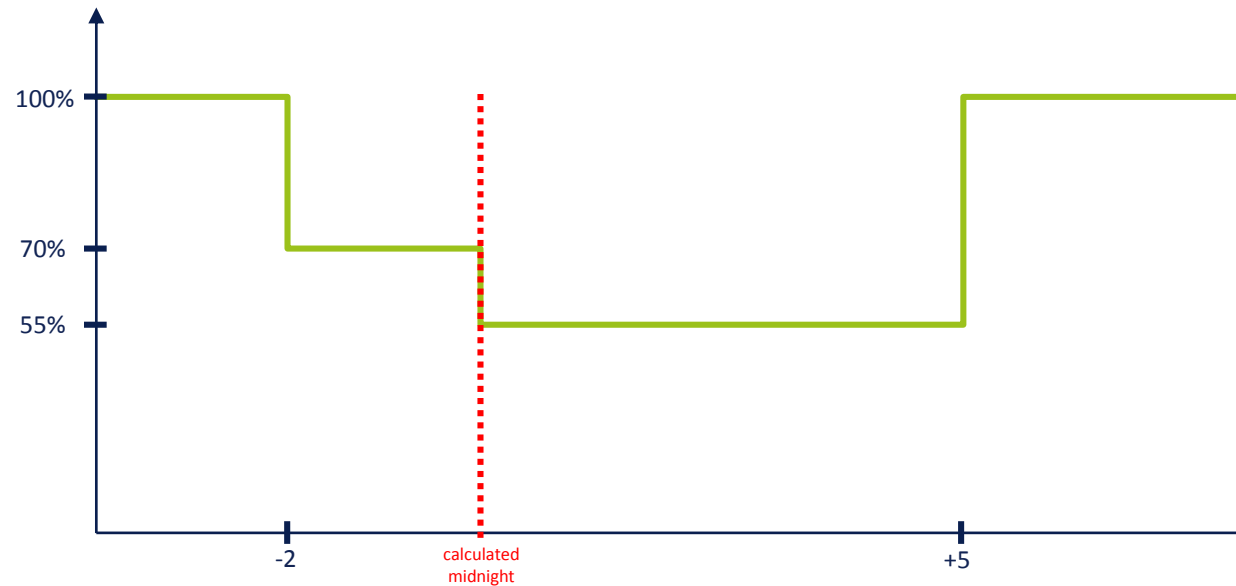
D26: Dimming profile 26

Time	Level
Until -3	100%
-3 to -2	65%
-2 to +4	50%
From +4	80%



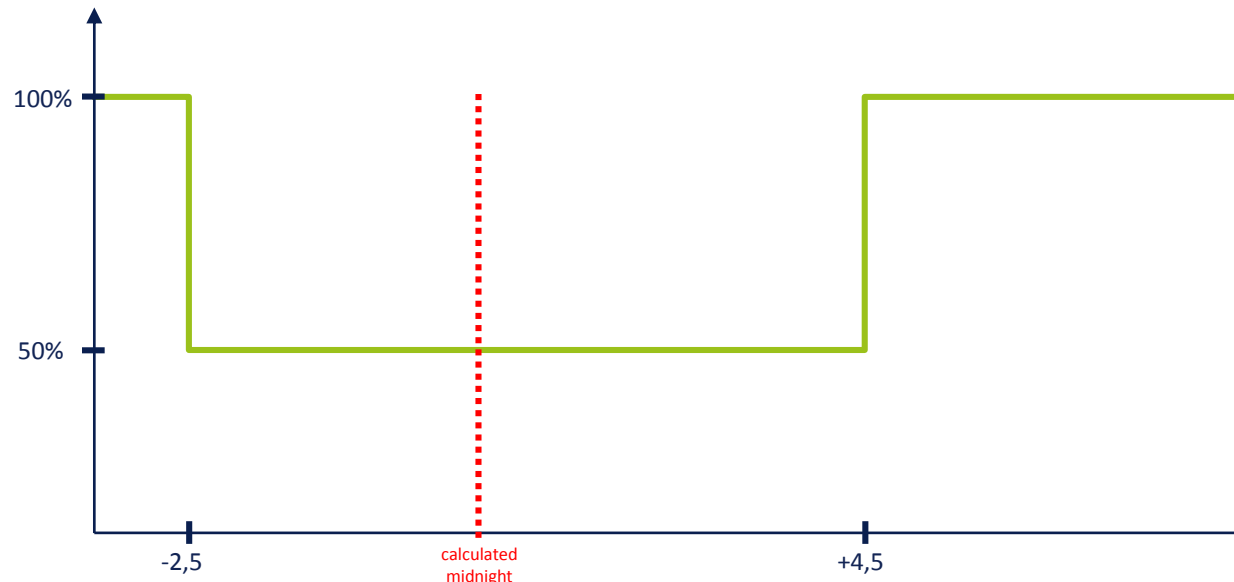
D27: Dimming profile 27

Time	Level
Until -2	100%
-2 to 0	70%
0 to +5	55%
From +5	100%



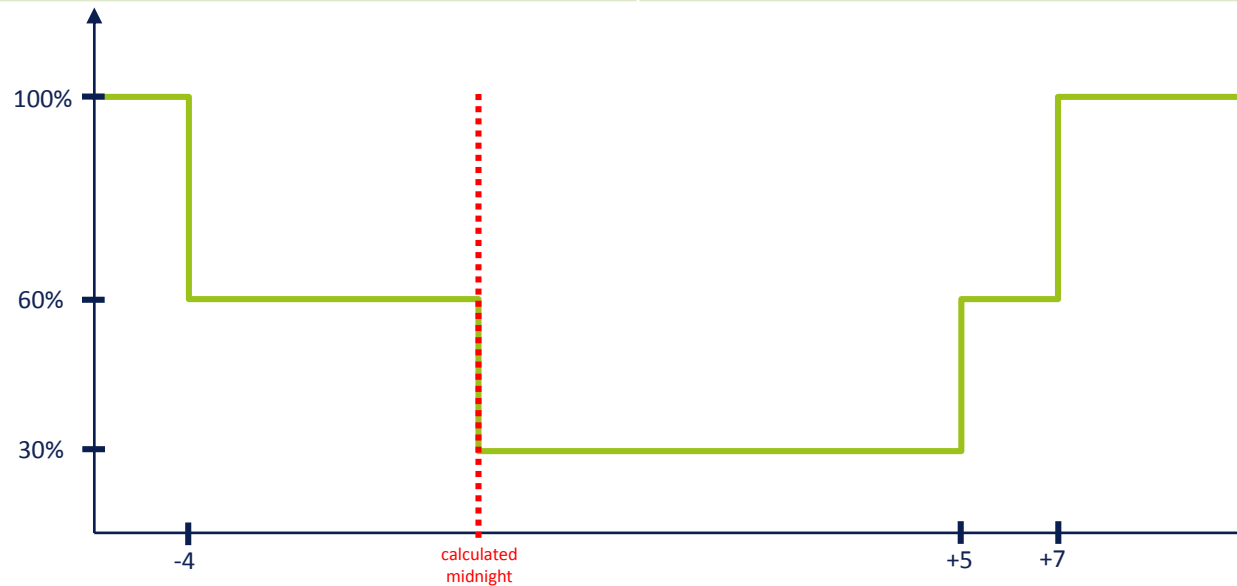
D28: Dimming profile 28

Time	Level
Until -2,5	100%
-2,5 to +4,5	50%
From +4,5	100%



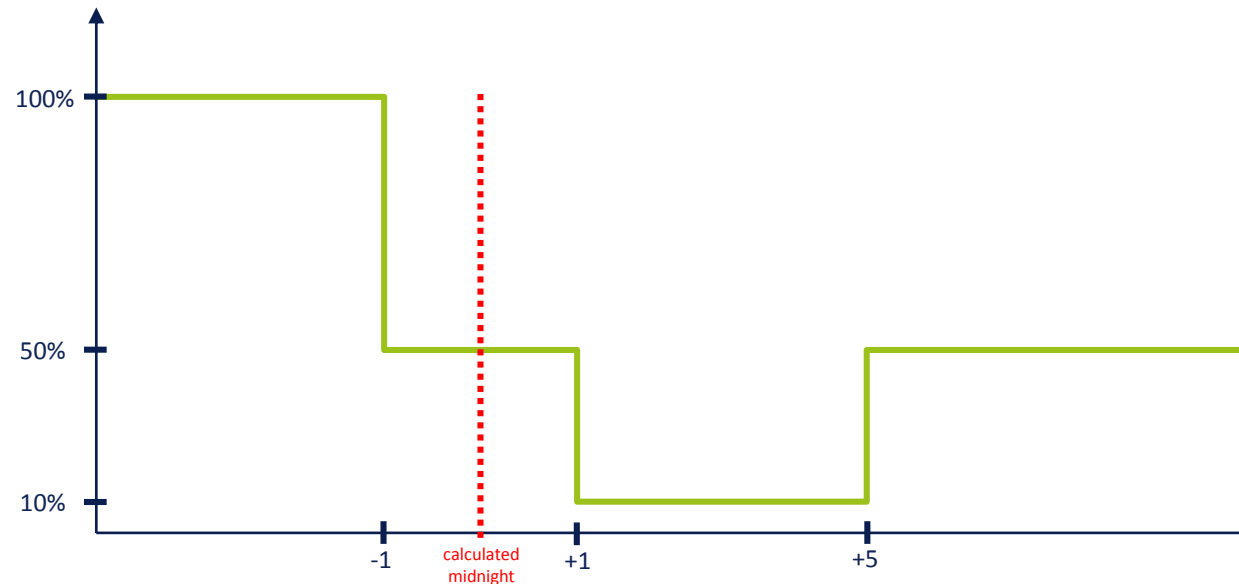
D29: Dimming profile 29

Time	Level
Until -4	100%
-4 to 0	60%
0 to +5	30%
+5 to +7	60%
From +7	100%



D30: Dimming profile 30

Time	Level
Until -1	100%
-1 to +1	50%
+1 to +5	10%
From +5	50%





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for your attention!

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