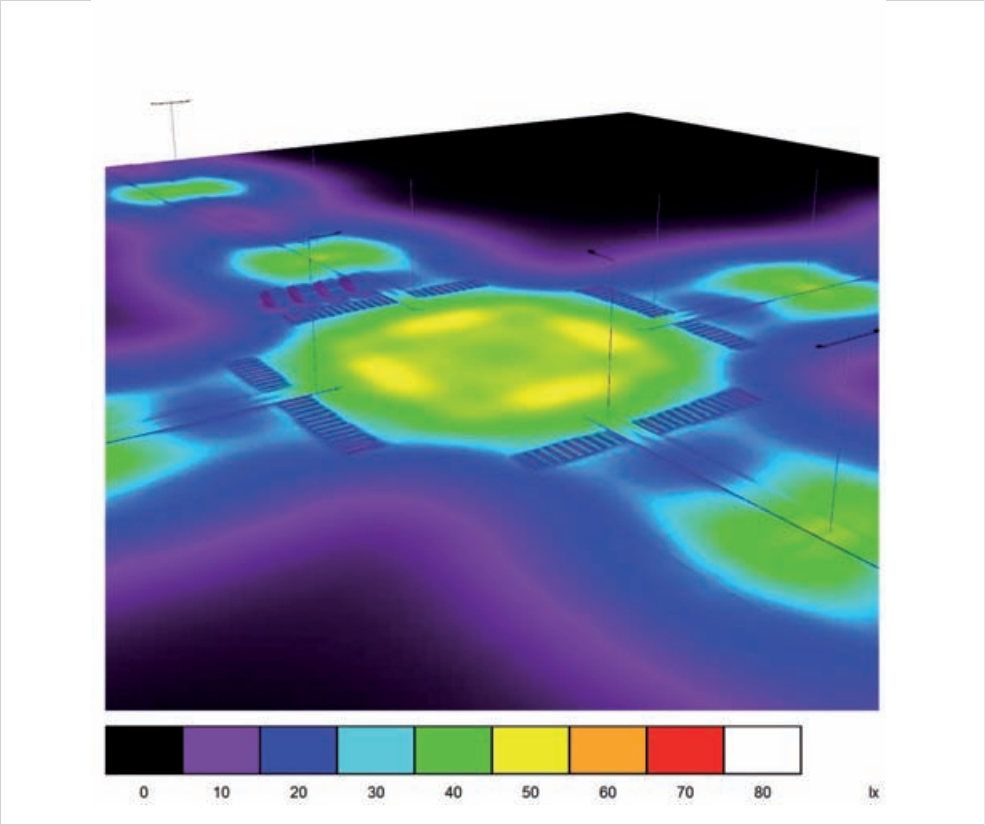

Figure 207
3D false-colour rendering of a typical junction of boulevard/boulevard street lighting layout, including approximate lux (lx) levels shown by different colours.

LDA Lighting Calculation 05 - Typical Road Lighting in Lux

Road/Area Type	Calculated Area	Page	Luminaire	Luminaire option	Power	Pole height	Distance	DMA Requirement	Calculated Values		
According to AD USDM					[W]	[m]	[m]		E_{av} [lux]	E_{min} [lux]	E_{min}/E_{av}
Typical Junction Boulevard-Boulevard	Road going into the Junction		Typical Street LED Luminaire	5° tilted, median single	296	14	50	Major Arterial (Boulevard) L_{av} = 1,3 cd/m² | L_{min}/L_{av} = 0,4 1,3 cd/m² similar to 20 lux	22	8,12	0,37
Typical Junction Boulevard-Boulevard	Outgoing road from the Junction		Typical Street LED Luminaire	5° tilted, median single	296	14	50	Major Arterial (Boulevard) L_{av} = 1,3 cd/m² | L_{min}/L_{av} = 0,4 1,3 cd/m² similar to 20 lux	23	7,91	0,35
Typical Junction Boulevard-Boulevard	Pedestrian Crossing 1		Typical Street LED Luminaire	5° tilted, median single				Conflict Areas L_{av} = 2,0 cd/m² | L_{min}/L_{av} = 0,4 2cd/m² similar to 30 lux	29	23	0,79
Typical Junction Boulevard-Boulevard	Vertical Calculations Points on 1m on Pedestrian Crossing 1		Typical Street LED Luminaire	5° tilted, median single				No requirement so far.	$Evert_{av}$ [lux] 16	$Evert_{min}$ [lux] 14	0,86
Typical Junction Boulevard-Boulevard	Pedestrian Crossing 2		Typical Street LED Luminaire	5° tilted, median single				Conflict Areas L_{av} = 2,0 cd/m² | L_{min}/L_{av} = 0,4 2cd/m² similar to 30 lux	30	25	0,83
Typical Junction Boulevard-Boulevard	Junction Area		Typical Street LED Luminaire	5° tilted, median single				Conflict Areas L_{av} = 2,0 cd/m² | L_{min}/L_{av} = 0,4 2cd/m² similar to 30 lux	44	28	0,64

Table 37
Table of results for a typical junction of boulevard/boulevard street lighting layout, showing conformity with DMA Lighting Specifications, results provided by DIALux in lx.