4.3. Schedule of Lighting Levels

Table 4.3.1 Schedule of Lighting Levels

Area/Roadway Type/ Lighting Class	Minimum Average Design Level: Luminance(L)=CD/m² Illumination (Em)=LUX	Uniformity Ratio (Minimum to Average)	Longitudinal Uniformity (Minimum to Maximum)	Emin/E max	TI*1	SR (EIR*9)	Pole Heights, Spacings & Priority Arrangements*2
Highways/Freeways*3 (100Kph or higher)	**1.0 CD/m²** (ConflictAreas 30Lux)	Uo≥0.4	Ul ≥ 0.7	≥0.2	≤10%	≥0.5 (≥0.35*9)	20m Pole Height 80-95m Spacing Median Arrangement*8
Major Arterials (80Kph)*3	**1.0 CD/m²** (Conflict Areas & Crosswalks 30Lux)	Uo≥0.4	Ul ≥ 0.7	≥0.2	≤10%	≥0.5 (≥0.35*9)	20m Pole Height 80-95m Spacing Median Arrangement*8
Arterials (60Kph)*3 **(USDM: Boulevards)**	**1.2 CD/m²** (Conflict Areas & Crosswalks 30Lux)	Uo≥0.4	Ul ≥ 0.7	≥0.2	≤10%	≥0.5 (≥0.35*9)	14m Pole Height 55-69m Spacing Median Arrangement*8
Secondary Arterial*3 (USDM: Avenues)	**0.8 CD/m²** (Conflict Areas & Crosswalks 20 Lux)	Uo≥0.4	Ul ≥ 0.7	≥0.2	≤15%	≥0.5 (≥0.3*9)	14m Pole Height 55-69m Spacing Median Arrangement*8
Sector Internal Roads *3 (USDM: Streets)	**8-10 Lux** (Conflict Areas & Crosswalks 15Lux)	Uo≥0.4	N/A	≥0.2	≤15%	N/A	8-10m Pole Height 40-45m Spacing Single-Sided
Access Lanes (USDM)*3	**5-7.5 Lux**(Conflict Areas & Crosswalks 15Lux)	Uo≥0.4	N/A	≥0.2	≤15%	N/A	8-10m Pole Height 40-45m Spacing Single-Sided
Traffic Conflict Areas (Ramps, Intersections, Roundabouts etc.)	Per Road Type as stated above	Uo≥0.4	N/A	≥0.2	≤15%	If appli-cable	To Match Road(s) ideally, otherwise lower (10, 14 & 20m only) heights used
Under Bridges*4	Match Road Luminance	Uo≥0.4	Match road	≥0.2	Match road	N/A	To Match Road/Soffit-mounted*4
Cross Walks (Pedestrian/Zebra Crossings etc.)	Per Road Type as stated Plus vertical matching Lux level*6	Uo≥0.4	N/A	≥0.2	N/A	N/A	Provided by Road Lighting (*or by dedicated supplementary lighting if required*7*)
Car Parking (Parking Lots/Off-Street Bays)	**5/10/15 Lux**: Low/ Med/High Risk*5	Uo≥0.4	N/A	≥0.2	N/A	N/A	10m Pole Height
Car Parking (On-Street Parallel/Angular)	Match Road Surface's equivalent Lux level	Uo≥0.4	N/A	≥0.2	N/A	N/A	From Road Lighting/To Match Adjacent Road
Cycle Lanes/Paths	**3-5 Lux + 1.5-2 Lux** Vertical*6	Uo≥0.25	N/A	≥0.2	N/A	N/A	As Design Proposal
Sidewalks/Pedestrian Pathways	**3-5 Lux + 1.5-2 Lux** Vertical*6	Uo≥0.2	N/A	≥0.2	N/A	N/A	As Design Proposal

(N/A = Not Applicable)