Street lighting policy -

Appendix 1 - Proposed levels of service and light technical parameters for lighting of roads, pathways and public activity

- Main roads in city centres
- Main arterial roads
- Minor arterial roads
- Collector/intermediate roads
- Pathways in high risk, high brightness areas
- Pathways in low risk, high brightness areas
- Local/residential roads with high traffic
- Local/residential roads with low traffic
- Public activity areas in high risk, high brightness areas
- Public activity areas in high risk, low brightness areas
- Public activity areas in low risk areas
- Notes

Main roads in city centres

Operating characteristics	Lighting category	Average maintained luminance L	luminance uniformity	Longitudinal luminance uniformity UI	maintained		Horizontal illuminance uniformity Up
High/very high vehicle and pedestrian traffic Moderate/low vehicle speeds	V1/V2	1.5/1	0.33	0.3	N/A	N/A	N/A



Main arterial roads

Operating characteristics	Lighting category	Average maintained luminance L	Overall luminance uniformity Uo	Longitudinal luminance uniformity UI	Average maintained horizontal luminance Eh (ave)	maintained horizontal	Horizontal illuminance uniformity Up
Moderate/high vehicle speed/traffic High pedestrian volume	V2/V3	1/0.75	0.33	0.3	N/A	N/A	N/A

Minor arterial roads

Operating characteristics		Average maintained luminance L		Longitudinal luminance uniformity UI	Average maintained horizontal luminance Eh (ave)	maintained horizontal	Horizontal illuminance uniformity Up
Moderate vehicle speed/traffic High/moderate pedestrian volume	V3/V4	0.75/0.5	0.33	0.3	N/A	N/A	N/A



Collector/intermediate roads

Operating characteristics	Lighting category	Average maintained luminance L	luminance uniformity	Longitudinal luminance uniformity UI	maintained horizontal luminance	maintained horizontal	Horizontal illuminance uniformity Up
Low/moderate vehicle speed/traffic Low pedestrian volume	V4 (See Note 6)	0.5	0.33	0.3	N/A	N/A	N/A

Pathways in high risk, high brightness areas

Operating characteristics	Lighting category	Average maintained luminance L		Longitudinal luminance uniformity UI	maintained horizontal luminance	maintained	Horizontal illuminance uniformity Up
Pedestrian/cycle traffic only	P1	N/A	N/A	N/A	10 (See Note 5)		6

Pathways in low risk, high brightness areas

Operating characteristics	Lighting category	Average maintained luminance L	Overall luminance uniformity Uo	Longitudinal luminance uniformity UI	Average maintained horizontal luminance Eh (ave)	maintained horizontal	Horizontal illuminance uniformity Up
Pedestrian/cycle traffic only	P2	N/A	N/A	N/A	5 (See Note 5)	1	6



Local/residential roads with high traffic

Operating characteristics	Lighting category	Average maintained luminance L	Overall luminance uniformity Uo	Longitudinal luminance uniformity UI	Average maintained horizontal luminance Eh (ave)	maintained	Horizontal illuminance uniformity Up
Pedestrian/cycle traffic only	P3	N/A	N/A	N/A	3 (See Note 3)	0.6 (See Note 3)	6

Local/residential roads with low traffic

Operating characteristics	, ,	Average maintained luminance L		Longitudinal luminance uniformity UI	maintained	maintained horizontal	Horizontal illuminance uniformity Up
Pedestrian/cycle traffic only	P4	N/A	N/A	N/A	1.5 (See Note 3)	0.2 (See Note 3)	6

Public activity areas in high risk, high brightness areas

Operating characteristics	, ,	maintained	luminance	luminance uniformity UI	maintained horizontal luminance	maintained horizontal	Horizontal illuminance uniformity Up
Generally pedestrian movement only	P6	N/A	N/A	N/A	21	7	6



Public activity areas in high risk, low brightness areas

Operating characteristics	, ,	maintained	Overall luminance uniformity Uo	luminance uniformity UI	maintained horizontal luminance	maintained horizontal	Horizontal illuminance uniformity Up
Generally pedestrian movement only	P7	N/A	N/A	N/A	14	4	6

Public activity areas in low risk areas

Operating characteristics	Lighting category	maintained luminance	Overall luminance uniformity Uo	luminance uniformity UI	maintained horizontal	maintained horizontal	Horizontal illuminance uniformity Up
Generally pedestrian movement only	P7	N/A	N/A	N/A	14	4	6



Notes

Uo	Minimum/average luminance.
UI	Minimum/maximum luminance.
Up	Maximum/average illuminance.
(3)	Recommended objective values - based on values recommended in CIE Publication 115: Road lighting.
	For luminaires mounted on existing power poles the following reduced values may be applied:
	For category P3 - Eh (ave) = 2; Eh (min) = 0.2; Up = 10.
	For category P4 - Eh (ave) = 1.25; Eh (min) = 0.1; Up = 10.
(5)	Recommended objective values - based on values recommended in CIBSE Lighting guide LG6: 1992: The outdoor environment.
(6)	Collector/intermediate roads are essentially residential roads, and when they have a very low average daily traffic (ADT) they will be classified as P3 lighting category.

