STREET LIGHT DESIGN CRITERIA

City of Richland Street Light Design Criteria		Roadway Classification											
		Principal Arterial Roadway			Minor Arterial Roadway			Collector Roadway			Local Street		
Pedestrian Conflict Area		High	Medium	Low	High	Medium	Low	High	Medium	Low	High	Medium	Low
Average Maintained Luminance (cd/m²)		1.2	0.9	0.6	1.2	0.9	0.6	0.8	0.6	0.4	0.6	0.5	0.3
Luminance Uniformity	Ave/Min	3.0	3.0	3.5	3.0	3.0	3.5	3.0	3.5	4.0	6.0	6.0	6.0
	Max/Min	5.0	5.0	6.0	5.0	5.0	6.0	5.0	6.0	8.0	10.0	10.0	10.0
Average Maintained Illuminance for curved roadway sections (fc)†		1.7	1.3	0.9	1.7	1.3	0.9	1.2	0.9	0.6	0.9	0.7	0.4
Illuminance Uniformity	Ave/Min	3.0	3.0	3.0	3.0	3.0	3.0	4.0	4.0	4.0	6.0	6.0	6.0
Site Characteristics	Maximum Pole spacing for LED Lighting (ft)‡	180	220	280	150	200	300	220	280	340	210	260	350
	Setback (ft)	8			8			8 or 2.5			8 or 2.5		
	Configuration	Staggered* or Opposite			Staggered* or Opposite			Staggered*			Staggered*		
LED Luminaire Characteristics	Luminaire Distribution	III			II			II			II		
	Max Fixture Wattage	270			170			110			70		
	Color Temperature	4100K (±200)			4100K (±200)			4100K (±200)			4100K (±200)		
	Minimum LLD (100,000 hrs)	0.75			0.75			0.75			0.75		
	Max BUG Rating	B3 U0 G3			B2 U0 G3			B2 U0 G3			B1 U0 G2		
Pole Characteristics	Mounting Height (ft)	38			38			28			28		
	Arm Length (ft)	8 or 12			8 or 12			8			8		

* Staggered spacing measured between luminaires on the *same* side of the road.

† For R2 and R3 Pavement

‡ Maximum spacing requirement may be revised periodically to better reflect the capabilities of new LED lighting technology.

PUBLIC WORKS ENGINEERING

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