

Design Parameters



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Project Number:		100102		Author:		JLD	
Project Name:		Former Colt Site, Havant		Date:		13/12/2019	
Parameters for the selection of lighting Class P							
Travel Speed	Low		v ≥ 11 m/h		1		1
	Very Low		< 11 mph		0		
Use Intensity	Busy - Town Centre, Shopping/High Roads			1		0	
	Normal - Housing Estate, Residential Access to Houses, Pubs Local Amenities			0			
	Quiet - Cul-de-sac			-1			
Traffic Calming	Traffic Calming proposed as per Technical Report 25		Yes		1		0
			No		0		
Traffic Composition	Pedestrians, cyclists and motorized traffic			2		1	
	Pedestrians and motorized traffic			1			
	Pedestrians and cyclists only			1			
	Pedestrians only			0			
	Cyclists only			0			
Parked Vehicles	Present			1		1	
	Not Present			0			
Ambient Luminance	High			1		0	
	Moderate			0			
	Low			-1			
					Total Score		3

P-Class Lux Levels					
Score	P Class	SP Ratio	Eav	Emin	Eav (max)
6	P1	1.61			
5	P2				
4	P3				
3	P4		3.69	0.74	5.54
2	P5				
1	P6				
Environmental Zone		Surrounding		Lighting Environment	Examples
E0		Protected		Dark	UNESCO starlight reserves, IDA dark sky parks
E1		Natural		Intrinsically dark	National parks, Areas of Outstanding Natural Beauty etc.
E2		Rural		Low district brightness	Village or relatively dark outer suburban locations
E3		Suburban		Medium district brightness	Small town centres of suburban locations
E4		Urban		High district brightness	Town / City centres with high levels of night-time activity

Luminaire Maintenance Factor - Table B.1 from BS5489-1							
Environmental Zone	Mounting Height	Cleaning Frequency					
		12 Months	24 Months	36 Months	48 Months	60 Months	72 Months
E1/E2	≤6m	0.96	0.96	0.95	0.94	0.93	0.92
E1/E2	>6m	0.96	0.96	0.95	0.94	0.93	0.92
E3/E4	≤6m	0.94	0.92	0.90	0.88	0.86	0.84
E3/E4	>6m	0.96	0.96	0.95	0.94	0.93	0.92

Maintenance Factors for LED Luminaires - Annex C from BS5489-1	
Lx @100,00hrs	0.90
Lamp survival factor (LSF)	1.00
Luminaire Maintenance Factor (LMF)	0.84
Overall Maintenance Factor	0.76