

Site Lighting Power Density Calculation

Site Lighting Fixture	Fixture Power (Watts)	Total Fixtures (QTY)	Total Fixture Power (Watts)	Site Location	Site Area (SF)	LPD (W/SF)
Pole Fixture 1	250	14	3500	Parking 1	32,000	0.11
Pole Fixture 1	250	8	2000	Parking 2	18,000	0.11
Pole Fixture 2	115	1	115	Walkways 1	875	0.13
Bollard Fixture 1	40	4	160	Walkways 1	875	0.18
Bollard Fixture 1	40	6	240	Courtyard 1	1,500	0.16
Wall Washer 1	50	5	250	Building Façade N	2,500	0.10

Site Areas

Identification	Area (SF)	ASHRAE 90.1.2004 Allowable LPD (W/SF)	Actual LPD (From Site Lighting Table)		Required LPD Reduction (%)	Complies (Y/N)
			Actual LPD	Reduction (%)		
Parking 1	32,000	0.25	0.11	56%	20%	Yes
Parking 2	18,000	0.15	0.11	27%	20%	Yes
Walkways 1 (10' wide)	1,500	0.2	0.16	20%	20%	Yes
Courtyard 1	1,500	0.2	0.16	20%	20%	Yes
Building Façade N	2,500	0.2	0.1	50%	50%	Yes

Lamp Lumen Calculation

Luminaire Type	Quantity of Installed Luminaires	Initial Fixture Lumens per Luminaire	Total Fixture Lumens (column 2 x column 3)	Initial Fixture Lumens from Luminaire above 90 Degrees from Nadir	Total Fixture Lumens above 90 Degrees (column 2 x column 5)	Pecent Lumens above 90 Degrees from Nadir
A	10	4600	46,000	100	1000	2%
B	20	11,900	238,000	0	0	0%
C	5	2,000	10,000	2000	10000	100%
Total			294,000		11,000	4%