

Area Category Method - Lighting Power Density (Watts/sf)					
Standards Vintage					
Function Areas:	2001	2005	2008	2013	2016
Auditorium	2.00	1.50	1.50	1.50	1.40
Classroom, Lecture	1.60	1.20	1.20	1.20	1.20
Commercial Storage	0.60	0.60	0.60	0.60	0.60
Corridors, Restrooms, Support	0.60	0.60	0.60	0.60	0.60
Convention, Conference	1.50	1.40	1.40	1.40	1.20
Dining	1.10	1.10	1.10	1.10	1.00
Exercise, Gym	1.00	1.00	1.00	1.00	1.00
Exhibit, Museum	2.00	2.00	2.00	2.00	1.80
General Commercial High Bay	1.20	1.10	1.00	1.00	1.00
General Commercial Low Bay	1.00	1.00	0.90	0.90	0.90
General Commercial, Precision	1.50	1.30	1.20	1.20	1.20
Grocery	1.60	1.60	1.60	1.20	1.20
Hotel	2.20	1.50	1.50	1.50	1.40
Library Reading Areas	1.20	1.20	1.20	1.20	1.10
Library Stacks	1.50	1.50	1.50	1.50	1.50
Lounge	1.10	1.10	1.10	1.10	0.90
Malls	1.20	1.20	1.20	1.20	0.95
Medical and Clinic	1.40	1.20	1.20	1.20	1.20
Office	1.30	1.20	0.95	0.81	0.81
Religious Worship	2.10	1.50	1.50	1.50	1.50
Retail	2.00	1.70	1.60	1.20	1.20
Theater Area	0.90	0.90	0.90	0.90	0.90
Average 2016 Savings Over Vintage for LPDs	19.7%	10.4%	8.2%	4.8%	

Percentage of
total square
footage

1.5%
8.8%
13.8%
2.0%
1.5%
7.3%
1.5%
1.5%
1.5%
1.5%
1.5%
1.5%
5.5%
1.5%
1.5%
1.5%
1.5%
3.8%
22.1%
1.5%
15.7%
1.5%

Total

100%

Area Category Method - Weighted Lighting Power Density (Watts/sf)					
Standards Vintage					
Function Areas:	2001	2005	2008	2013	2016
Auditorium	0.030	0.023	0.023	0.023	0.021
Classroom, Lecture	0.141	0.106	0.106	0.106	0.106
Commercial Storage	0.083	0.083	0.083	0.083	0.083
Corridors, Restrooms, Support	0.012	0.012	0.012	0.012	0.012
Convention, Conference	0.023	0.021	0.021	0.021	0.018
Dining	0.080	0.080	0.080	0.080	0.073
Exercise, Gym	0.015	0.015	0.015	0.015	0.015
Exhibit, Museum	0.030	0.030	0.030	0.030	0.027
General Commercial High Bay	0.018	0.017	0.015	0.015	0.015
General Commercial Low Bay	0.015	0.015	0.014	0.014	0.014
General Commercial, Precision	0.023	0.020	0.018	0.018	0.018
Grocery	0.024	0.024	0.024	0.018	0.018
Hotel	0.122	0.083	0.083	0.083	0.077
Library Reading Areas	0.018	0.018	0.018	0.018	0.017
Library Stacks	0.023	0.023	0.023	0.023	0.023
Lounge	0.017	0.017	0.017	0.017	0.014
Malls	0.018	0.018	0.018	0.018	0.014
Medical and Clinic	0.053	0.045	0.045	0.045	0.045
Office	0.287	0.265	0.210	0.179	0.179
Religious Worship	0.032	0.023	0.023	0.023	0.023
Retail	0.314	0.267	0.251	0.188	0.188
Theater Area	0.014	0.014	0.014	0.014	0.014
Weighted Average LPD for each Vintage	1.39	1.21	1.14	1.04	1.01
Average 2016 Savings Over Vintage for LPDs	27%	17%	11%	3%	0%
Average Savings Between Cycles	22%		16%		
30% Power reduction savings Over LPDs	36%		88%		

Area, Millions of SF
Percent of Total

OFF-SMALL	REST	RETAIL	FOOD	NWHSE	RWHSE	SCHOOL	COLLEGE	HOSP	HOTEL	MISC	OFF-LRG	TOTAL
10.264	5.729	29.218	7.784	24.228	1.457	9.852		6.570	6.983	10.301	42.941	186.148
6%	3%	16%	4%	13%	1%	5%	4%	3.8%	5.5%	23.1%	17%	
	7.3%			13.8%			8.8%				22.1%	

California Energy Commission

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15-BSTD-01

TN 75933

JUN 09 2015