

## Lighting Tables for Existing/Base Equipment

4/15/2011

### T12 Fluorescent Lamps and Fixtures

LAMP LENGTH	DESCRIPTION	NUMBER OF LAMPS	CODE	WATTS	LAMP LENGTH	DESCRIPTION	NUMBER OF LAMPS	CODE	WATTS	
2'	F20T12	1	8000	28	5'	F60T12	1	8029	100	
		2	8001	46			2	8030	135	
		3	8002	68			F60T12 HO	1	8031	126
		4	8003	91				2	8032	170
3'	F30T12 (30 watt lamps)	1	8004	43		3		8033	250	
		2	8005	70		4		8034	330	
		3	8006	113		F60T12 VHO	1	8035	157	
		4	8007	138			2	8036	310	
F30T12 (25 watt lamps)	1	8008	40	6'			F72T12	1	8037	107
	2	8009	63					2	8038	145
	3	8010	103			F72T12 HO		1	8039	135
	4	8011	125					2	8040	195
4'	F40T12 (40 watt lamps)	1	8012		46		3	8041	265	
		2	8013		81		4	8042	330	
		3	8014		123	F72T12 VHO	1	8043	180	
		4	8015		161		2	8044	300	
F40T12 (34 watt lamps)	1	8016	43		3		8045	450		
	2	8017	72		8'		F96T12 (75 watt lamps)	1	8046	100
	3	8018	115			2		8047	180	
	4	8019	144			F96T12 (60 watt lamps)	1	8048	75	
F48T12	1	8020	55	2			8049	123		
	2	8021	93	F96T12 HO (110 watt lamps)		1	8050	139		
F48T12 HO	1	8022	76			2	8051	257		
	2	8023	130			3	8052	330		
	3	8024	195	F96T12 HO (95 watt lamps)		1	8053	125		
	4	8025	260			2	8054	227		
F48T12 VHO	1	8026	134	F96T12 VHO (215 watt lamps)		1	8055	230		
	2	8027	240			2	8056	375		
	3	8028	450			3	8057	570		
					F96T12 VHO (185 watt lamps)	1	8058	200		
				2		8059	325			

### Existing/Base Incandescent Lamps

LAMP WATTAGE	WATTS	CODE	LAMP WATTAGE	WATTS	CODE
6 Watt	6	8095	200 Watt	200	8065
40 Watt	40	8060	300 Watt	300	8066
50 Watt	50	8097	450 Watt	450	8096
60 Watt	60	8061	500 Watt	500	8067
65 Watt	65	8102	575 Watt	575	8098
75 Watt	75	8062	750 Watt	750	8068
100 Watt	100	8063	1000 Watt	1000	8069
150 Watt	150	8064	1500 Watt	1500	8070

## Lighting Tables for Existing/Base Equipment

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### Existing/Base T8 Lamps

DESCRIPTION	WATTS	CODE
4' - 32 Watt T8 Lamps Only (Use Codes 475 through 478 for New Equipment Code)	32	8091

### Existing/Base T5 Lamps

DESCRIPTION	WATTS	CODE
54 Watt T5 HO Lamps Only (Use Codes 2088 and 2089 for New Equipment Code)	54	8101

### Existing/Base Mercury Vapor Fixtures

DESCRIPTION	WATTS	CODE	DESCRIPTION	WATTS	CODE
50 Watt - 1 lamp	118	8071	400 Watt - 2 lamp	880	8075
100 Watt - 1 lamp	125	8072	500 Watt - 1 lamp	570	8077
175 Watt - 1 lamp	205	8073	700 Watt - 1 lamp	775	8078
250 Watt - 1 lamp	285	8074	1000 Watt - 1 lamp	1080	8079
400 Watt - 1 lamp	454	8076			

### Existing/Base Metal Halide Lamps

DESCRIPTION	WATTS	CODE
250 Watt Metal Halide Lamps Only (Use Code 983 or Code 984 for New Equipment Code)	250	8099
400 Watt Metal Halide Lamps Only (Use Code 985 or Code 986 for New Equipment Code)	400	8100

### Existing/Base Metal Halide Fixtures

DESCRIPTION	WATTS	CODE	DESCRIPTION	WATTS	CODE
150 Watt - 1 lamp	190	8086	400 Watt - 2 lamp	916	8090
175 Watt - 1 lamp	215	8087	1000 Watt - 1 lamp	1080	8092
250 Watt - 1 lamp	295	8088	1000 Watt - 2 lamp	2160	8093
400 Watt - 1 lamp	458	8089	1000 Watt - 3 lamp	3240	8094

### Existing/Base Exit Signs

DESCRIPTION	WATTS	CODE	DESCRIPTION	WATTS	CODE
15 Watt - 2 lamp Incandescent	30	8080	20 Watt - 2 lamp Incandescent	40	8081

**Definitions:**

HO - High Output

VHO - Very High Output

## Lighting Tables for New Equipment

1/1/2012

### T8 and SUPER T8 Fluorescent Lamps and Fixtures with Electronic Ballasts

LAMP LENGTH	DESCRIPTION	NUMBER OF LAMPS	WATTS	RETROFIT		NEW CONSTRUCTION			
				CODE	REBATE PER FIXTURE	CODE	REBATE PER FIXTURE		
2'	F17T8	1	18	206	11.00	---	---		
		2	32	207	11.00	---	---		
		3	48	208	18.00	---	---		
		4	57	209	18.00	---	---		
	F17T8 with Reflectors	1	18	210	17.00	---	---		
		2	32	211	17.00	---	---		
3'	F25T8	1	24	306	11.00	---	---		
		2	46	307	11.00	---	---		
		3	66	308	18.00	---	---		
		4	82	309	18.00	---	---		
	F25T8 with Reflectors	1	24	310	19.00	---	---		
		2	46	311	19.00	---	---		
4'	F32T8	1	31	100	11.00	---	---		
		2	58	101	11.00	---	---		
		3	85	102	18.00	---	---		
		4	112	103	18.00	---	---		
	F32T8 with Reflectors	1	31	104	14.00	---	---		
		2	58	105	14.00	---	---		
		3	85	106	24.00	---	---		
		4	112	107	24.00	---	---		
		5	148	108	31.00	---	---		
		6	170	109	37.00	---	---		
		8	224	110	48.00	---	---		
		F32T8 - RLO	1	26	111	11.00	---	---	
	2		51	112	11.00	---	---		
	3		74	113	18.00	---	---		
	4		94	114	18.00	---	---		
	F32T8 - RLO / Reflectors	1	26	115	22.00	---	---		
		2	51	116	22.00	---	---		
	400 watt MH base →	8	192	117	78.00	118	39.00		
		F32T8 - HBF / Reflectors	100 watt MH base →	1	37	119	24.00	120	12.00
			150 watt MH base →	2	73	121	30.00	122	15.00
			175 watt MH base →	3	93	123	36.00	124	18.00
			250 watt MH base →	4	146	125	42.00	126	21.00
			400 watt MH base →	6	186	127	78.00	128	39.00
	F32 SUPER T8 (ceiling height ≤ 15') Must meet SUPER T8 lamp and ballast requirements shown on last page.  (Compare to standard T8 and T12 fixtures. Applicable to all SUPER T8 ballast-factor ballasts.)	1	26	129	13.00	451	1.75		
		2	53	130	13.00	452	1.75		
		3	80	131	24.00	453	2.25		
		4	106	132	24.00	454	2.25		
		6	159	133	37.00	455	2.75		
F32 SUPER T8 (ceiling height > 15') Must meet SUPER T8 lamp and ballast requirements shown on last page.	250 watt MH base →	4	146	134	56.00	135	28.00		

## Lighting Tables for New Equipment

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### T8 and SUPER T8 Fluorescent Lamps and Fixtures with Electronic Ballasts

LAMP LENGTH	DESCRIPTION	NUMBER OF LAMPS	WATTS	RETROFIT		NEW CONSTRUCTION		
				CODE	REBATE PER FIXTURE	CODE	REBATE PER FIXTURE	
4'	F32 SUPER T8 / Reflectors (ceiling height ≤ 15') Must meet SUPER T8 lamp and ballast requirements shown on last page.  (Compare to standard T8 and T12 fixtures. Applicable to all SUPER T8 ballast-factor ballasts.)	1	26	136	16.00	472	2.75	
		2	53	137	16.00	470	2.75	
		3	80	138	29.00	456	3.75	
		4	106	139	29.00	457	4.25	
		6	159	140	42.00	458	4.75	
		8	212	141	53.00	459	6.75	
	F32 SUPER T8 / Reflectors (ceiling height > 15') Must meet SUPER T8 lamp and ballast requirements shown on last page.	250W MH base →	4	146	142	61.00	143	30.50
		400 watt MH base →	6	186	144	105.00	145	52.50
		600 watt HPS base →	8	292	146	125.00	147	62.50
	F36T8	2	74	148	11.00	---	---	
	F36T8 with Reflectors	1	37	149	11.00	---	---	
	F48T8/HO	1	40	150	11.00	---	---	
		2	81	151	11.00	---	---	
		3	118	152	18.00	---	---	
4		149	153	18.00	---	---		
Low-Wattage, 28 watt, 4' T8 Lamps Only (use Code 8091 as Existing/Base Code)	NA	28	475	1.00 per lamp	476	1.00 per lamp		
Low-Wattage, 25 watts or less, 4' T8 Lamps Only (use Code 8091 as Existing/Base Code)	NA	25	477	1.50 per lamp	478	1.50 per lamp		
5'	F40T8	1	46	504	11.00	---	---	
		2	71	505	11.00	---	---	
		3	105	506	22.00	---	---	
	F40T8 with Reflectors	1	46	507	11.00	---	---	
6'	F72T8/HO	1	80	602	11.00	---	---	
		2	147	603	11.00	---	---	
8'	F96T8	1	58	810	11.00	---	---	
		2	109	811	11.00	---	---	
		6	324	812	36.00	---	---	
	F96T8 with Reflectors	1	58	813	11.00	---	---	
	F96T8 with Reflectors (From F96T12/HO/VHO)	2	109	814	33.00	---	---	
	F96T8 - RLO	1	49	815	11.00	---	---	
		2	99	816	11.00	---	---	
	F96T8 - RLO / Reflectors	1	49	817	11.00	---	---	
F96T8/HO	2	160	818	11.00	---	---		

### T5 Fluorescent Fixtures with Electronic Ballasts

DESCRIPTION	NUMBER OF LAMPS	WATTS	RETROFIT		NEW CONSTRUCTION	
			CODE	REBATE PER FIXTURE	CODE	REBATE PER FIXTURE
14 Watt T5 HBF 2-lamp F32T8 base →	2	39	2106	12.00	2087	2.00
18 Watt T5	1	20	2107	12.00	2000	2.00
	2	34	2108	12.00	2002	2.00
	3	50	2109	19.00	2004	2.50
28 Watt T5	1	29	2110	12.00	2085	2.00
	2	58	2111	12.00	2077	2.00
	3	96	2112	19.00	2079	2.50
	4	116	2113	19.00	2081	2.50

## Lighting Tables for New Equipment

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### T5 Fluorescent Fixtures with Electronic Ballasts

DESCRIPTION	NUMBER OF LAMPS	WATTS	RETROFIT		NEW CONSTRUCTION		
			CODE	REBATE PER FIXTURE	CODE	REBATE PER FIXTURE	
39 Watt T5	1	38	2114	12.00	2006	2.00	
	2	66	2115	12.00	2008	2.00	
	3	104	2116	19.00	2010	2.50	
40 Watt T5	1	35	2117	12.00	2013	2.00	
	2	68	2118	12.00	2014	2.00	
	3	98	2119	19.00	2016	2.50	
40 Watt T5	4	136	2120	19.00	2018	2.50	
	6	204	2121	24.00	2020	3.00	
50 Watt T5	1	50	2122	12.00	2022	2.00	
	2	100	2123	12.00	2026	2.00	
	3	150	2124	19.00	2030	8.00	
	4	200	2125	19.00	2034	8.00	
55 Watt T5	1	55	2126	12.00	2024	2.00	
	2	110	2127	12.00	2028	2.00	
	3	165	2128	19.00	2032	8.00	
	4	220	2129	19.00	2036	8.00	
24 Watt HO T5	1	29	2130	5.00	2038	2.00	
	2	55	2131	5.00	2040	2.00	
	3	82	2132	10.00	2083	4.00	
39 Watt HO T5	1	43	2133	10.00	2042	2.00	
	2	85	2134	10.00	2044	2.00	
48 Watt HO T5 / Reflectors	400 watt HID base →	4	224	2135	90.00	2136	45.00
54 Watt HO T5	150 watt MH base →	1	59	2137	45.00	2138	22.50
	175 watt MH base →	2	117	2139	40.00	2140	20.00
	250 watt MH base →	3	179	2141	60.00	2142	30.00
	400 watt MH base →	4	234	2143	85.00	2144	42.50
54 Watt HO T5 / Reflectors	2-lamp 8' T12 HO base →	2	117	2145	33.00	2146	16.50
	250 watt MH base →	3	179	2147	45.00	2148	22.50
	400 watt MH base →	4	234	2149	85.00	2150	42.50
	600 watt HPS base →	6	351	2151	115.00	2152	57.50
	750 watt MH base →	8	468	2153	135.00	2154	67.50
	1000 watt MH base →	10	585	2155	165.00	2156	82.50
	1000 watt MH base →	12	702	2157	145.00	2158	72.50
	80 Watt HO T5		4	368	2159	17.00	2048
Low-Wattage, 49 watts or less, T5 HO Lamps Only (use Code 8101 as Existing/Base Code)		NA	49	2088	1.20 per lamp	2089	1.20 per lamp

### Metal Halide (MH) Fixtures and Lamps

DESCRIPTION	NUMBER OF LAMPS	WATTS	RETROFIT		NEW CONSTRUCTION	
			CODE	REBATE PER UNIT	CODE	REBATE PER UNIT
32 Watt MH Fixture	1	41	901	17.00	900	7.50
50 Watt MH Fixture	1	67	905	17.00	904	7.50
70 Watt MH Fixture	1	92	909	17.00	908	7.50
100 Watt MH Fixture	1	129	913	17.00	912	7.50
150 Watt Pulse-Start MH Fixture with magnetic ballast	1	167	968	25.00	916	6.00
150 Watt Pulse-Start MH Fixture with electronic ballast	1	163	987	26.00	988	6.50
175 Watt Pulse-Start MH Fixture with magnetic ballast	1	191	969	25.00	970	6.00

## Lighting Tables for New Equipment

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### Metal Halide (MH) Fixtures and Lamps

DESCRIPTION	NUMBER OF LAMPS	WATTS	RETROFIT		NEW CONSTRUCTION	
			CODE	REBATE PER UNIT	CODE	REBATE PER UNIT
200 Watt Pulse-Start MH Fixture with magnetic ballast	1	232	971	40.00	972	8.00
250 Watt Pulse-Start MH Fixture with magnetic ballast	1	288	973	40.00	974	8.00
320 Watt Pulse-Start MH Fixture with magnetic ballast	1	367	975	55.00	976	12.00
320 Watt Pulse-Start MH Fixture with electronic ballast	1	340	989	61.00	990	15.00
350 Watt Pulse-Start MH Fixture with magnetic ballast	1	395	977	55.00	978	12.00
400 Watt Pulse-Start MH Fixture with magnetic ballast	1	422	979	55.00	980	12.00
	2	844	981	110.00	982	24.00
575 Watt Pulse-Start MH Fixture with magnetic ballast	1	620	967	85.00	966	20.00
750 Watt Pulse-Start MH Fixture with magnetic ballast	1	814	947	65.00	946	15.00
875 Watt Pulse-Start MH Fixture with magnetic ballast	1	935	953	65.00	952	15.00
	2	1870	955	130.00	954	30.00
	3	2805	957	195.00	956	45.00
360 Watt – MH Lamp Only w/Ferro Electric Capacitor	1	418	951	10.00	950	5.00

### Ceramic Metal Halide Fixtures and Lamps

DESCRIPTION	NUMBER OF LAMPS	WATTS	RETROFIT		NEW CONSTRUCTION	
			CODE	REBATE PER UNIT	CODE	REBATE PER UNIT
25 Watt Integrated Ceramic Metal Halide Lamp	1	25	959	20.00	958	8.00
205 Watt Ceramic Metal Halide Lamp (use Code 8099 as Existing/Base Code)	1	205	983	20.00	984	8.00
330 Watt Ceramic Metal Halide Lamp (use Code 8100 as Existing/Base Code)	1	330	985	20.00	986	8.00
830 Watt Ceramic Metal Halide Lamp (use Code 8103 as Existing/Base Code)	1	830	991	40.00	992	16.00
150 Watt or less Ceramic Metal Halide Fixture	All	100	961	50.00	960	20.00
151-250 Watt Ceramic Metal Halide Fixture	All	200	963	45.00	962	10.00
251 Watt or greater Ceramic Metal Halide Fixture	All	300	965	60.00	964	15.00

### High Pressure Sodium (HPS) Fixtures

DESCRIPTION	NUMBER OF LAMPS	WATTS	RETROFIT		NEW CONSTRUCTION	
			CODE	REBATE PER UNIT	CODE	REBATE PER UNIT
35 Watt HPS Fixture	1	41	903	17.00	902	7.50
50 Watt HPS Fixture	1	67	907	17.00	906	7.50
70 Watt HPS Fixture	1	92	911	17.00	910	7.50
100 Watt HPS Fixture	1	129	915	17.00	914	7.50
150 Watt HPS Fixture	1	187	919	17.00	918	7.50
200 Watt HPS Fixture	1	240	925	28.00	924	15.00
250 Watt HPS Fixture	1	295	929	28.00	928	15.00
310 Watt HPS Fixture	1	365	931	45.00	930	15.00
400 Watt HPS Fixture	1	460	939	45.00	938	15.00
600 Watt HPS Fixture	1	665	945	45.00	944	15.00
750 Watt HPS Fixture	1	835	949	45.00	948	15.00

### Compact Fluorescent Lamps – 1 Piece

DESCRIPTION	WATTS	RETROFIT		NEW CONSTRUCTION	
		CODE	REBATE PER LAMP	CODE	REBATE PER LAMP
3 - 10 Watt CFL	6	1011	6.00	1010	3.00
11 - 15 Watt CFL	13	1025	6.00	1024	3.00

## Lighting Tables for New Equipment

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### Compact Fluorescent Lamps – 1 Piece

DESCRIPTION	WATTS	RETROFIT		NEW CONSTRUCTION	
		CODE	REBATE PER LAMP	CODE	REBATE PER LAMP
16 - 20 Watt CFL	18	1035	6.00	1034	3.00
21 - 25 Watt CFL	23	1045	9.00	1044	4.50
26 - 30 Watt CFL	28	1055	9.00	1054	4.50
31 - 35 Watt CFL	33	1065	9.00	1064	4.50
36 - 40 Watt CFL	38	1075	12.00	1074	6.00
41 - 45 Watt CFL	43	1085	12.00	1084	6.00
46 - 50 Watt CFL	48	1095	12.00	1094	6.00
51 - 55 Watt CFL	53	1105	12.00	1104	6.00
56 - 60 Watt CFL	58	1231	18.50	1230	9.25
61 - 65 Watt CFL	63	1233	18.50	1232	9.25
66 - 70 Watt CFL	68	1235	18.50	1234	9.25
71 - 75 Watt CFL	73	1237	21.50	1236	10.25
76 - 80 Watt CFL	78	1239	21.50	1238	10.25
81 - 85 Watt CFL	83	1241	21.50	1240	10.25
86 - 90 Watt CFL	88	1243	25.00	1242	12.50
91 - 95 Watt CFL	93	1245	25.00	1244	12.50
96 - 100 Watt CFL	98	1247	25.00	1246	12.50
101 - 105 Watt CFL	103	1249	25.00	1248	12.50
106 - 110 Watt CFL	108	1251	25.00	1250	12.50
180 Watt CFL (400 watt MH base)	200	1270	25.00	1271	12.50

### Compact Fluorescent Lamps – Hardwired Fixtures (Does not include screw-base CFLs)

TOTAL CFL WATTAGE	WATTS	RETROFIT		NEW CONSTRUCTION	
		CODE	REBATE PER UNIT	CODE	REBATE PER UNIT
3 - 10 Watts Total	7	1253	8.00	1252	3.00
11 - 15 Watts Total	15	1255	8.00	1254	3.75
16 - 20 Watts Total	18	1257	18.00	1256	4.00
21 - 25 Watts Total	24	1259	18.00	1258	5.00
26 - 30 Watts Total	31	1261	18.00	1260	5.00
31 - 40 Watts Total	36	1263	24.00	1262	8.00
41 - 50 Watts Total	48	1265	24.00	1264	8.00
51 - 60 Watts Total	60	1267	24.00	1266	8.00
3 Lamp - Industrial Multi-CFL Fixture	165	1003	25.00	1002	15.00
8 Lamp - Industrial Multi-CFL Fixture	310	1001	25.00	1000	15.00
9 Lamp - Industrial Multi-CFL Fixture (400 watt MH base)	318	1269	30.00	1268	15.00

### Cold Cathode Lamps

LAMP WATTAGE	WATTS	RETROFIT		NEW CONSTRUCTION	
		CODE	REBATE PER UNIT	CODE	REBATE PER UNIT
5 - 10 Watt	7	1405	15.00	1406	7.50
11 - 20 Watt	14	1407	25.00	1408	12.50

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### Induction Lamps and Fixtures

LAMP WATTAGE	WATTS	RETROFIT		NEW CONSTRUCTION	
		CODE	REBATE PER UNIT	CODE	REBATE PER UNIT
15 - 22 Watt (70 watt HID base)	15	1603	17.50	1602	8.75
23 - 39 Watt (100 watt HID base)	23	1601	22.00	1600	11.00
40 - 149 Watt (175 watt HID base)	80	1605	41.00	1604	20.50
150 - 199 Watt (250 watt HID base)	150	1607	60.00	1606	30.00
200 - 299 Watt (400 watt HID base)	225	1609	100.00	1608	50.00
300 - 400 Watt (1000 watt HID base)	350	1611	100.00	1610	50.00

### LED Lamps and Fixtures

DESCRIPTION	RETROFIT		NEW CONSTRUCTION	
	CODE	REBATE	CODE	REBATE
ENERGY STAR <sup>®</sup> rated LED Light Bulbs – less than or equal to 10 watts ( <a href="http://www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&amp;pgw_code=ILB">http://www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&amp;pgw_code=ILB</a> for a list of qualifying bulbs)	1505	15.00	1504	15.00
ENERGY STAR <sup>®</sup> rated LED Light Bulbs – greater than 10 watts ( <a href="http://www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&amp;pgw_code=ILB">http://www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&amp;pgw_code=ILB</a> for a list of qualifying bulbs)	1507	20.00	1506	20.00
ENERGY STAR <sup>®</sup> rated LED Fixtures (visit <a href="http://www.energystar.gov/index.cfm?c=ssl.pr_commercial">http://www.energystar.gov/index.cfm?c=ssl.pr_commercial</a> for a list of qualifying fixtures)	1503	\$30 per fixture	1502	\$30 per fixture
LED Lamps and Fixtures (non-ENERGY STAR <sup>®</sup> rated) - All wattages (Not including exit signs or traffic signals)	1501	0.24 per watt saved	1500	0.24 per watt saved
LED Lighting in Enclosed COOLER Display Cases	1509	\$50 per door	1508	\$40 per door
LED Lighting in Enclosed FREEZER Display Cases	1511	\$50 per door	1510	\$40 per door

### Exit Signs, Occupancy Sensors, and Photocells

DESCRIPTION	WATTS	RETROFIT		NEW CONSTRUCTION	
		CODE	REBATE PER UNIT	CODE	REBATE PER UNIT
Exit Sign – LED (incandescent existing)	4	3001	12.00	---	---
Exit Sign – LED (CFL existing)	4	3002	6.00	---	---
Exit Sign – LEC/Electroluminescent (incandescent existing)	1	3003	15.00	---	---
Exit Sign – LEC/Electroluminescent (CFL existing)	1	3004	10.00	---	---
Exit Sign – Photoluminescent (incandescent existing)	0	3005	16.00	---	---
Exit Sign – Photoluminescent (CFL existing)	0	3006	11.00	---	---
Wall Mount Occupancy Sensor	---	4001	12.00	4000	6.00
Ceiling Mount Occupancy Sensor	---	4003	36.00	4002	18.00
Photocells	---	4005	12.00	4004	6.00

### Definitions:

CFL – Compact Fluorescent Lamp  
 HBF – High Ballast Factor  
 HID – High Intensity Discharge  
 HO – High Output

HPS – High Pressure Sodium  
 LEC – Light Emitting Capacitor  
 LED – Light Emitting Diode  
 MH – Metal Halide

RLO – Reduced Light Output  
 VHO – Very High Output

SUPER T8 systems must meet the following CEE specifications:

- This specification applies to systems using 4' 32 watt T8 lamps. Lamps must produce at least 3100 initial lumens; color-rendering index (CRI)  $\geq 80$ ; mean lumens per watt  $\geq 90$  for instant-start ballasts or  $\geq 88$  for programmed rapid-start ballasts; lamp life  $\geq 24,000$  hours (at 3 hours/start); and lumen maintenance  $\geq 94\%$  or minimum mean lumens of 2900.
- Ballasts must have a ballast efficacy factor (BEF) equal to or greater than the factors shown in the table below; ballast power factor  $\geq 0.90$ ; and total harmonic distortion  $\leq 20\%$ . (BF=Ballast Factor)

INSTANT START BALLAST (BEF)			
Lamps	Low (BF $\leq 0.85$ )	Medium (0.85 < BF $\leq 1.0$ )	High (BF $\geq 1.01$ )
1	3.08	3.11	3.03
2	1.60	1.58	1.55
3	1.04	1.05	1.04
4	0.79	0.80	0.77
6	N/A	N/A	0.52

PROGRAMMED RAPID START BALLAST (BEF)			
Lamps	Low (BF $\leq 0.85$ )	Medium (0.85 < BF $\leq 1.0$ )	High (BF $\geq 1.01$ )
1	2.84	2.84	2.95
2	1.48	1.47	1.51
3	0.97	1.00	1.00
4	0.76	0.75	0.75
6	N/A	N/A	0.50