

DATE	PROJECT	FIRM	TYPE
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## PHOTOMETRY CHARACTERISTICS

Photometric testing done by an independent lab in accordance with current IES published Procedures . Lumen measurements comply with IES LM-79 - 08. Some IES files are generated by multiplying tested IES files with a calculated lumen values . IES data is available at [www.ecosenselighting.com](http://www.ecosenselighting.com)

### 80 CRI

#### F170 SINGLE LOW OUTPUT (13 WATTS)

	5°	10°	15°	20°	40°	60°	70°	90°	15' x 60'	30' x 60'	60' x 15'	60' x 30'
<b>2200K</b>												
Lumens	973	966	930	901	N/A	N/A	N/A	N/A	850	843	850	843
Efficacy	75	74	72	69	N/A	N/A	N/A	N/A	65	65	65	65
CBCP	56,108	14,245	8,791	3,827	N/A	N/A	N/A	N/A	1,643	1,471	1,643	1,471
<b>2700K</b>												
Lumens	1,123	1,114	1,073	1,040	1,464	1,005	1,110	976	981	973	981	973
Efficacy	86	86	83	80	113	77	85	75	75	75	75	75
CBCP	64,741	16,437	10,144	4,416	2,565	988	727	488	1,896	1,697	1,896	1,697
<b>3000K</b>												
Lumens	1,140	1,131	1,090	1,056	1,582	1,086	1,199	1,054	996	988	996	988
Efficacy	88	87	84	81	122	84	92	81	77	76	77	76
CBCP	65,737	16,690	10,300	4,484	2,771	1,068	785	527	1,925	1,723	1,925	1,723
<b>3500K</b>												
Lumens	1,231	1,221	1,176	1,139	1,615	1,108	1,223	1,054	1,075	1,066	1,075	1,066
Efficacy	95	94	90	88	124	85	94	83	83	82	83	82
CBCP	70,938	18,010	11,115	4,838	2,829	1,089	801	538	2,077	1,859	2,077	1,859
<b>4000K</b>												
Lumens	1,258	1,247	1,202	1,164	1,633	1,121	1,238	1,088	1,099	1,089	1,099	1,089
Efficacy	97	96	92	90	126	86	95	84	85	84	85	84
CBCP	72,487	18,404	11,357	4,944	2,861	1,102	810	544	2,123	1,900	2,123	1,900
<b>5000K</b>												
Lumens	1,297	1,287	1,239	1,201	1,652	1,134	1,252	1,101	1,133	1,123	1,133	1,123
Efficacy	100	99	95	92	127	87	96	85	87	86	87	86
CBCP	74,756	18,980	11,713	5,099	2,894	1,115	820	550	2,189	1,960	2,189	1,960
<b>6500K</b>												
Lumens	1,199	1,189	1,146	1,110	1,671	1,147	1,266	1,113	1,047	1,039	1,047	1,039
Efficacy	92	91	88	85	129	88	97	86	81	80	81	80
CBCP	69,112	17,547	10,829	4,714	2,927	1,128	829	556	2,024	1,812	2,024	1,812

#### F170 SINGLE MED OUTPUT (25 WATTS)

	5°	10°	15°	20°	40°	60°	70°	90°	15' x 60'	30' x 60'	60' x 15'	60' x 30'
<b>2200K</b>												
Lumens	1,686	1,672	1,611	1,561	N/A	N/A	N/A	N/A	1,473	1,460	1,473	1,460
Efficacy	67	67	64	62	N/A	N/A	N/A	N/A	59	58	59	58
CBCP	97,166	24,669	15,224	6,627	N/A	N/A	N/A	N/A	2,845	2,547	2,845	2,547
<b>2700K</b>												
Lumens	1,973	1,957	1,885	1,826	2,649	1,819	2,007	1,765	1,723	1,709	1,723	1,709
Efficacy	79	78	75	73	106	73	80	71	69	68	69	68
CBCP	113,711	28,870	17,816	7,756	4,641	1,788	1,314	882	3,330	2,981	3,330	2,981
<b>3000K</b>												
Lumens	1,999	1,983	1,910	1,850	2,862	1,965	2,168	1,907	1,746	1,731	1,746	1,731
Efficacy	80	79	76	74	114	79	87	76	70	69	70	69
CBCP	115,205	29,249	18,051	7,858	5,014	1,932	1,419	953	3,374	3,020	3,374	3,020
<b>3500K</b>												
Lumens	2,049	2,032	1,957	1,897	2,921	2,005	2,213	1,946	1,790	1,775	1,790	1,775
Efficacy	82	81	78	76	117	80	89	78	72	71	72	71
CBCP	118,082	29,980	18,501	8,054	5,117	1,971	1,449	973	3,458	3,095	3,458	3,095
<b>4000K</b>												
Lumens	2,131	2,114	2,036	1,973	2,955	2,028	2,239	1,969	1,862	1,846	1,862	1,846
Efficacy	85	85	81	79	118	81	90	79	74	74	74	74
CBCP	122,841	31,188	19,247	8,379	5,177	1,994	1,466	984	3,597	3,220	3,597	3,220
<b>5000K</b>												
Lumens	2,244	2,226	2,144	2,078	2,989	2,052	2,265	1,992	1,961	1,944	1,961	1,944
Efficacy	90	89	86	83	120	82	91	80	78	78	78	78
CBCP	129,370	32,845	20,270	8,824	5,236	2,017	1,483	996	3,788	3,391	3,788	3,391
<b>6500K</b>												
Lumens	2,094	2,077	2,000	1,938	2,989	2,075	2,290	2,014	1,829	1,814	1,829	1,814
Efficacy	84	83	80	78	121	83	92	81	73	73	73	73
CBCP	120,683	30,640	18,909	8,231	5,296	2,040	1,499	1,007	3,534	3,163	3,534	3,163

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DATE	PROJECT	FIRM	TYPE
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## 80 CRI

### F170 SINGLE HIGH OUTPUT (38 WATTS)

	5'	10'	15'	20'	40'	60'	70'	90'	15' x 60'	30' x 60'	60' x 15'	60' x 30'
<b>2200K</b>												
Lumens	2,173	2,156	2,077	2,012	N/A	N/A	N/A	N/A	1,899	1,883	1,899	1,883
Efficacy	57	57	55	53	N/A	N/A	N/A	N/A	50	50	50	50
CBCP	125,276	31,806	19,628	8,545	N/A	N/A	N/A	N/A	3,668	3,284	3,668	3,284
<b>2700K</b>												
Lumens	2,580	2,560	2,465	2,389	3,900	2,677	2,955	2,598	2,254	2,235	2,254	2,235
Efficacy	68	67	65	63	103	70	78	68	59	59	59	59
CBCP	148,737	37,762	23,304	10,145	6,832	2,632	1,934	1,299	4,355	3,899	4,335	3,899
<b>3000K</b>												
Lumens	2,651	2,629	2,532	2,454	4,213	2,892	3,192	2,807	2,315	2,296	2,315	2,296
Efficacy	70	69	67	65	111	64	84	74	61	60	61	61
CBCP	152,777	38,788	23,937	10,420	7,381	2,843	2,089	1,403	4,474	4,005	4,474	4,005
<b>3500K</b>												
Lumens	2,756	2,734	2,633	2,552	4,300	2,952	3,258	2,865	2,408	2,387	2,408	2,387
Efficacy	73	72	69	67	113	78	86	75	63	63	63	63
CBCP	158,863	40,333	24,891	10,835	7,533	2,902	2,133	1,432	4,652	4,164	4,652	4,164
<b>4000K</b>												
Lumens	2,878	2,855	2,750	2,665	4,350	2,986	3,296	2,898	2,514	2,493	2,514	2,493
Efficacy	76	75	72	70	114	79	87	76	66	66	66	66
CBCP	165,891	42,117	25,992	11,315	7,621	2,936	2,158	1,449	4,858	4,348	4,858	4,348
<b>5000K</b>												
Lumens	3,012	2,987	2,877	2,788	4,400	3,020	3,334	2,932	2,631	2,609	2,631	2,609
Efficacy	79	79	76	73	116	79	88	77	69	69	69	69
CBCP	173,582	44,070	27,197	11,839	7,708	2,969	2,182	1,466	5,083	4,550	5,083	4,550
<b>6500K</b>												
Lumens	2,750	2,728	2,628	2,546	4,450	3,055	3,372	2,965	2,403	2,382	2,403	2,382
Efficacy	72	72	69	67	117	80	89	78	63	63	63	63
CBCP	158,531	40,249	24,839	10,813	7,796	3,003	2,207	1,482	4,642	4,156	4,642	4,156

### F170 DUO LOW OUTPUT (26 WATTS)

	5'	10'	15'	20'	40'	60'	70'	90'	15' x 60'	30' x 60'	60' x 15'	60' x 30'
<b>2200K</b>												
Lumens	1,947	1,931	1,860	1,802	N/A	N/A	N/A	N/A	1,701	1,686	1,701	1,686
Efficacy	75	74	72	69	N/A	N/A	N/A	N/A	65	65	65	65
CBCP	112,217	28,490	17,582	7,654	N/A	N/A	N/A	N/A	3,286	2,942	3,286	2,942
<b>2700K</b>												
Lumens	2,246	2,228	2,146	2,080	2,928	2,010	2,220	1,952	1,962	1,946	1,962	1,946
Efficacy	86	86	83	80	113	77	85	75	75	75	75	75
CBCP	129,481	32,874	20,287	8,831	5,130	1,976	1,453	976	3,792	3,394	3,792	3,394
<b>3000K</b>												
Lumens	2,281	2,263	2,179	2,112	3,164	2,172	2,398	2,108	1,993	1,976	1,993	1,976
Efficacy	88	87	84	81	122	84	92	81	77	76	77	76
CBCP	131,473	33,379	20,599	8,967	5,543	2,135	1,570	1,054	3,850	3,446	3,850	3,446
<b>3500K</b>												
Lumens	2,461	2,442	2,352	2,279	3,230	2,216	2,446	2,152	2,150	2,132	2,150	2,132
Efficacy	95	94	90	88	124	85	94	83	83	82	83	82
CBCP	141,876	36,020	22,229	9,677	5,659	2,179	1,601	1,076	4,155	3,719	4,155	3,719
<b>4000K</b>												
Lumens	2,515	2,495	2,403	2,329	3,266	2,242	2,476	2,176	2,197	2,179	2,197	2,179
Efficacy	97	96	92	90	126	86	95	84	85	84	85	84
CBCP	144,975	36,807	22,715	9,888	5,722	2,204	1,621	1,088	4,245	3,800	4,245	3,800
<b>5000K</b>												
Lumens	2,594	2,573	2,478	2,401	3,304	2,268	2,504	2,202	2,266	2,247	2,266	2,247
Efficacy	100	99	95	92	127	87	96	85	87	86	87	86
CBCP	149,512	37,959	23,426	10,198	5,788	2,230	1,639	1,101	4,378	3,919	4,378	3,919
<b>6500K</b>												
Lumens	2,398	2,379	2,291	2,220	3,342	2,294	2,532	2,226	2,095	2,077	2,095	2,077
Efficacy	92	91	88	85	129	88	97	86	81	80	81	80
CBCP	138,224	35,093	21,657	9,428	5,855	2,255	1,657	1,113	4,048	3,623	4,048	3,623

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## 80 CRI

### F170 DUO MED OUTPUT (52 WATTS)

	5°	10°	15°	20°	40°	60°	70°	90°	15° x 60°	30° x 60°	60° x 15°	60° x 30°
<b>2200K</b>												
Lumens	3,372	3,344	3,221	3,121	N/A	N/A	N/A	N/A	2,945	2,921	2,945	2,921
Efficacy	65	64	62	60	N/A	N/A	N/A	N/A	57	56	57	56
CBCP	194,332	49,338	30,448	13,255	N/A	N/A	N/A	N/A	5,691	5,094	5,691	5,094
<b>2700K</b>												
Lumens	3,946	3,914	3,770	3,653	5,298	3,638	4,014	3,530	3,447	3,418	3,447	3,418
Efficacy	76	75	72	70	102	70	77	68	66	66	66	66
CBCP	227,422	57,739	35,633	15,512	9,281	3,577	2,628	1,765	6,660	5,961	6,660	5,961
<b>3000K</b>												
Lumens	3,997	3,965	3,819	3,701	5,724	3,930	4,336	3,814	3,492	3,463	3,492	3,463
Efficacy	77	76	73	71	110	76	83	73	67	67	67	67
CBCP	230,410	58,498	36,101	15,715	10,028	3,864	2,838	1,907	6,747	6,040	6,747	6,040
<b>3500K</b>												
Lumens	4,097	4,064	3,915	3,793	5,842	4,010	4,426	3,892	3,579	3,549	3,579	3,549
Efficacy	79	78	75	73	112	77	85	75	69	68	69	68
CBCP	236,165	59,959	37,003	16,108	10,234	3,942	2,897	1,946	6,916	6,191	6,916	6,191
<b>4000K</b>												
Lumens	4,462	4,228	4,072	3,946	5,910	4,056	4,478	3,938	3,723	3,692	3,723	3,692
Efficacy	82	81	78	76	114	78	86	76	72	71	72	71
CBCP	245,682	62,375	38,494	16,757	10,354	3,988	2,931	1,969	7,194	6,440	7,194	6,440
<b>5000K</b>												
Lumens	4,489	4,453	4,289	4,156	5,978	4,104	4,530	3,984	3,921	3,888	3,921	3,888
Efficacy	86	86	82	80	115	79	87	77	75	75	75	75
CBCP	258,741	65,691	40,540	17,648	10,473	4,035	2,965	1,992	7,577	6,782	7,577	6,782
<b>6500K</b>												
Lumens	4,188	4,154	4,001	3,877	6,046	4,150	4,580	4,028	3,658	3,627	3,658	3,627
Efficacy	81	80	77	75	116	80	88	77	70	70	70	70
CBCP	241,366	61,280	37,818	16,463	10,592	4,080	2,998	2,014	7,068	6,327	7,068	6,327

### F170 DUO HIGH OUTPUT (78 WATTS)

	5°	10°	15°	20°	40°	60°	70°	90°	15° x 60°	30° x 60°	60° x 15°	60° x 30°
<b>2200K</b>												
Lumens	4,347	4,312	4,153	4,024	N/A	N/A	N/A	N/A	3,797	3,765	3,797	3,765
Efficacy	56	55	53	52	N/A	N/A	N/A	N/A	49	48	49	48
CBCP	250,552	63,612	39,257	17,089	N/A	N/A	N/A	N/A	7,337	6,568	7,337	6,568
<b>2700K</b>												
Lumens	5,161	5,119	4,931	4,778	7,800	5,354	5,910	5,196	4,508	4,471	4,508	4,471
Efficacy	66	66	63	61	100	69	76	67	58	57	58	57
CBCP	297,475	75,525	46,609	20,290	13,665	5,264	3,869	2,598	8,711	7,798	8,711	7,798
<b>3000K</b>												
Lumens	5,301	5,258	5,065	4,908	8,426	5,784	6,384	5,614	4,631	4,592	4,631	4,592
Efficacy	68	67	65	63	108	74	82	72	59	59	59	59
CBCP	305,553	77,576	47,875	20,841	14,761	5,686	4,179	2,807	8,947	8,009	8,947	8,009
<b>3500K</b>												
Lumens	5,512	5,468	5,267	5,103	8,600	5,904	6,516	5,730	4,815	4,775	4,815	4,775
Efficacy	71	70	68	65	110	76	84	73	62	61	62	61
CBCP	317,727	80,667	49,782	21,671	15,066	5,804	4,265	2,865	9,304	8,329	9,304	8,329
<b>4000K</b>												
Lumens	5,756	5,710	5,499	5,329	8,700	5,972	6,592	5,796	5,028	4,986	5,028	4,986
Efficacy	74	73	71	68	112	77	85	74	64	64	64	64
CBCP	331,782	84,235	51,984	22,630	15,241	5,871	4,315	2,898	9,715	8,697	9,715	8,697
<b>5000K</b>												
Lumens	6,023	5,975	5,754	5,576	8,800	6,040	6,668	5,864	5,261	5,217	5,261	5,217
Efficacy	77	77	74	71	113	77	85	75	67	67	67	67
CBCP	347,164	88,140	54,394	23,679	15,417	5,938	4,365	2,932	10,166	9,100	10,166	9,100
<b>6500K</b>												
Lumens	5,501	5,457	5,256	5,093	8,900	6,110	6,744	5,930	4,805	4,765	4,805	4,765
Efficacy	71	70	67	65	114	78	86	76	62	61	62	61
CBCP	317,063	80,498	49,678	21,626	15,592	6,007	4,415	2,932	9,284	8,311	9,284	8,311

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## 80 CRI

### F170 QUAD LOW OUTPUT (52 WATTS)

	5'	10'	15'	20'	40'	60'	70'	90'	15' x 60'	30' x 60'	60' x 15'	60' x 30'
<b>2200K</b>												
Lumens	3,894	3,862	3,720	3,605	N/A	N/A	N/A	N/A	3,401	3,373	3,401	3,373
Efficacy	75	74	72	69	N/A	N/A	N/A	N/A	65	65	65	65
CBCP	224,434	56,981	35,165	15,308	N/A	N/A	N/A	N/A	6,572	5,883	6,572	5,883
<b>2700K</b>												
Lumens	4,493	4,457	4,292	4,159	6,328	4,344	4,796	4,216	3,925	3,892	3,925	3,892
Efficacy	86	86	83	80	122	84	92	81	75	75	75	75
CBCP	258,962	65,747	40,575	17,663	11,086	4,271	3,139	2,108	7,583	6,788	7,583	6,788
<b>3000K</b>												
Lumens	4,562	4,525	4,359	4,223	6,460	4,432	4,892	4,304	3,985	3,952	3,985	3,952
Efficacy	88	87	84	81	124	85	94	83	77	76	77	76
CBCP	262,946	66,759	41,199	17,935	11,317	4,357	3,202	2,152	7,700	6,893	7,700	6,893
<b>3500K</b>												
Lumens	4,923	4,883	4,703	4,558	6,532	4,484	4,952	4,352	4,300	4,264	4,300	4,264
Efficacy	95	94	90	88	126	86	95	84	82	83	83	82
CBCP	283,752	72,041	44,459	19,354	11,443	4,408	3,242	2,176	8,309	7,438	8,309	7,438
<b>4000K</b>												
Lumens	5,030	4,990	4,806	4,657	6,608	4,536	5,008	4,404	4,394	4,357	4,394	4,357
Efficacy	97	96	92	90	127	87	96	85	85	84	85	84
CBCP	289,949	73,614	45,430	19,776	11,576	4,459	3,278	2,202	8,491	7,600	8,491	7,600
<b>5000K</b>												
Lumens	5,188	5,146	4,957	4,803	6,684	4,588	5,064	4,452	4,532	4,494	4,532	4,494
Efficacy	100	99	95	92	129	88	97	86	87	86	87	86
CBCP	299,024	75,918	46,852	20,395	11,710	4,511	3,315	2,226	8,756	7,838	8,756	7,838
<b>6500K</b>												
Lumens	4,796	4,758	4,582	4,440	17,800	12,220	13,488	11,860	4,190	4,155	4,190	4,155
Efficacy	92	91	88	85	114	78	86	76	81	80	81	80
CBCP	276,448	70,186	43,314	18,855	31,184	12,014	8,829	5,930	8,095	7,247	8,095	7,247

### F170 QUAD MED OUTPUT (104 WATTS)

	5'	10'	15'	20'	40'	60'	70'	90'	15' x 60'	30' x 60'	60' x 15'	60' x 30'
<b>2200K</b>												
Lumens	6,743	6,689	6,442	6,243	N/A	N/A	N/A	N/A	5,890	5,841	5,890	5,841
Efficacy	65	64	62	60	N/A	N/A	N/A	N/A	57	56	57	56
CBCP	388,665	98,677	60,897	26,509	N/A	N/A	N/A	N/A	11,381	10,188	11,381	10,188
<b>2700K</b>												
Lumens	7,891	7,828	7,539	7,306	10,596	7,276	8,028	7,060	6,893	6,836	6,893	6,836
Efficacy	76	75	72	70	102	70	77	68	66	66	66	66
CBCP	454,844	115,479	71,266	31,023	18,563	7,153	5,255	3,530	13,319	11,923	13,319	11,923
<b>3000K</b>												
Lumens	7,995	7,931	7,638	7,402	11,448	7,860	8,672	7,628	6,984	6,925	6,984	6,925
Efficacy	77	76	73	71	110	76	83	73	67	67	67	67
CBCP	460,820	116,996	72,202	31,431	20,056	7,727	5,677	3,814	13,494	12,079	13,494	12,079
<b>3500K</b>												
Lumens	8,195	8,129	7,829	7,587	11,684	8,020	8,852	7,784	7,158	7,098	7,158	7,098
Efficacy	79	78	75	73	112	77	85	75	69	68	69	68
CBCP	472,330	119,918	74,006	32,216	20,469	7,885	5,794	3,892	13,831	12,381	13,831	12,381
<b>4000K</b>												
Lumens	8,525	8,456	8,145	7,892	11,820	8,112	8,956	7,876	7,447	7,384	7,447	7,384
Efficacy	82	81	78	76	114	78	86	76	72	71	72	71
CBCP	491,364	124,751	76,988	33,514	20,707	7,975	5,862	3,938	14,389	12,880	14,389	12,880
<b>5000K</b>												
Lumens	8,978	8,906	8,578	8,312	11,956	8,208	9,060	7,968	7,843	7,777	7,843	7,777
Efficacy	86	86	82	80	115	79	87	77	75	75	75	75
CBCP	517,482	131,382	81,080	35,295	20,946	8,070	5,931	3,984	15,153	13,565	15,153	13,565
<b>6500K</b>												
Lumens	8,375	8,308	8,002	7,754	12,092	8,300	9,160	8,056	7,316	7,255	7,316	7,255
Efficacy	81	80	77	75	116	80	88	77	70	70	70	70
CBCP	482,732	122,559	75,636	32,925	21,184	8,160	5,996	4,028	14,136	12,654	14,136	12,654

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DATE	PROJECT	FIRM	TYPE
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## 80 CRI

### F170 QUAD HIGH OUTPUT (156 WATTS)

	5'	10'	15'	20'	40'	60'	70'	90'	15' x 60'	30' x 60'	60' x 15'	60' x 30'
<b>2200K</b>												
Lumens	8,694	8,624	8,306	8,049	N/A	N/A	N/A	N/A	7,594	7,531	7,594	7,531
Efficacy	56	55	53	52	N/A	N/A	N/A	N/A	49	48	49	48
CBCP	501,103	127,223	78,514	34,178	N/A	N/A	N/A	N/A	14,674	13,135	14,674	13,135
<b>2700K</b>												
Lumens	10,322	10,239	9,862	9,556	15,600	10,708	11,820	10,392	9,017	8,941	9,017	8,941
Efficacy	66	66	63	61	100	69	76	67	58	57	58	57
CBCP	594,949	151,050	93,218	40,579	27,329	10,527	7,737	5,196	17,422	15,595	17,422	15,595
<b>3000K</b>												
Lumens	10,602	10,517	10,129	9,816	16,852	11,568	12,768	11,228	9,261	9,184	9,261	9,184
Efficacy	68	67	65	63	108	74	82	72	59	59	59	59
CBCP	611,107	155,152	95,749	41,681	29,523	11,373	8,358	5,614	17,895	16,019	17,895	16,019
<b>3500K</b>												
Lumens	11,025	10,936	10,533	10,207	17,200	11,808	13,032	11,460	9,630	9,550	9,630	9,550
Efficacy	71	70	68	65	110	76	84	73	62	61	62	61
CBCP	635,454	161,333	99,564	43,342	30,132	11,609	8,531	5,730	18,608	16,657	18,608	16,657
<b>4000K</b>												
Lumens	11,512	11,420	10,999	10,658	17,400	11,944	13,184	11,592	10,056	9,972	10,056	9,972
Efficacy	74	73	71	68	112	77	85	74	64	64	64	64
CBCP	663,563	168,470	103,968	45,259	30,483	11,743	8,630	5,796	19,431	17,394	19,431	17,394
<b>5000K</b>												
Lumens	12,046	11,949	11,509	11,152	17,600	12,080	13,336	11,728	10,523	10,435	10,523	10,435
Efficacy	77	77	74	71	113	77	85	75	67	67	67	67
CBCP	694,329	176,281	108,789	47,357	30,833	11,876	8,730	5,864	20,332	18,200	20,332	18,200
<b>6500K</b>												
Lumens	11,002	10,913	10,511	10,185	17,800	12,220	13,488	11,860	9,610	9,530	9,610	9,530
Efficacy	71	70	67	65	114	78	86	76	62	61	62	61
CBCP	634,126	160,996	99,356	43,251	31,184	12,014	8,829	5,930	18,569	16,622	18,569	16,622

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DATE	PROJECT	FIRM	TYPE
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## PHOTOMETRY CHARACTERISTICS

Photometric testing done by an independent lab in accordance with current IES published Procedures. Lumen measurements comply with IES LM-79 - 08. Some IES files are generated by multiplying tested IES files with a calculated lumen values. IES data is available at [www.ecosenselighting.com](http://www.ecosenselighting.com)

## 90 CRI

### F170 SINGLE LOW OUTPUT (13 WATTS)

	5"	10"	15"	20"	40"	60"	70"	90"	15' x 60"	30' x 60"	60' x 15"	60' x 30"
<b>2700K</b>												
Lumens	949	942	907	879	1,265	869	959	843	829	822	829	822
Efficacy	73	72	70	68	97	67	74	65	64	63	64	63
CBCP	54,725	13,894	8,574	3,733	2,216	854	628	421	1,603	1,435	1,603	1,435
<b>3000K</b>												
Lumens	1,002	994	958	928	1,367	938	1036	911	875	868	875	868
Efficacy	77	76	74	71	105	72	80	70	67	67	67	67
CBCP	57,769	14,667	9,051	3,940	2,395	922	678	455	1,692	1,514	1,692	1,514
<b>3500K</b>												
Lumens	1,031	1,023	985	955	1,395	958	1057	930	901	893	901	893
Efficacy	79	79	76	73	107	74	81	72	69	69	69	69
CBCP	59,429	15,088	9,311	4,053	2,444	942	692	465	1,740	1,558	1,740	1,558
<b>4000K</b>												
Lumens	1,047	1,039	1,001	970	1,411	969	1069	940	915	907	915	907
Efficacy	81	80	77	75	109	75	82	72	70	70	70	70
CBCP	60,369	15,327	9,459	4,118	2,472	953	700	470	1,768	1,582	1,768	1,582

### F170 SINGLE MED OUTPUT (25 WATTS)

	5"	10"	15"	20"	40"	60"	70"	90"	15' x 60"	30' x 60"	60' x 15"	60' x 30"
<b>2700K</b>												
Lumens	1,410	1,399	1,347	1,306	2,294	1,575	1,738	1,528	1,232	1,222	1,232	1,222
Efficacy	56	56	54	52	92	63	70	61	49	49	49	49
CBCP	81,285	20,637	12,736	5,544	4,019	1,548	1,138	764	2,380	2,131	2,380	2,131
<b>3000K</b>												
Lumens	1,626	1,613	1,554	1,506	2,478	1,701	1,877	1,651	1,421	1,409	1,421	1,409
Efficacy	65	65	62	60	99	68	75	66	57	56	57	56
CBCP	93,735	23,798	14,687	6,393	4,341	1,672	1,229	825	2,745	2,457	2,745	2,457
<b>3500K</b>												
Lumens	1,766	1,752	1,688	1,635	2,529	1,736	1,916	1,685	1,543	1,530	1,530	1,530
Efficacy	71	70	68	65	101	69	77	67	62	61	62	61
CBCP	101,814	25,849	15,952	6,944	4,431	1,707	1,254	842	2,981	2,669	2,981	2,669
<b>4000K</b>												
Lumens	1,799	1,785	1,719	1,666	2,559	1,756	1,939	1,705	1,572	1,558	1,558	1,558
Efficacy	72	71	69	67	102	70	78	68	63	62	63	62
CBCP	103,696	26,327	16,247	7,073	4,483	1,726	1,269	852	3,036	2,718	3,036	2,718

### F170 SINGLE HIGH OUTPUT (38 WATTS)

	5"	10"	15"	20"	40"	60"	70"	90"	15' x 60"	30' x 60"	60' x 15"	60' x 30"
<b>2700K</b>												
Lumens	1,960	1,945	1,873	1,815	3,298	2,264	2,499	2,198	1,712	1,698	1,712	1,698
Efficacy	52	51	49	48	87	60	66	58	45	45	45	45
CBCP	112,992	28,687	17,704	7,707	5,778	2,226	1,636	1,099	3,309	2,962	3,309	2,962
<b>3000K</b>												
Lumens	2,069	2,052	1,977	1,915	3,563	2,446	2,700	2,374	1,807	1,792	1,807	1,792
Efficacy	54	54	52	50	94	64	71	62	48	47	48	47
CBCP	119,244	30,275	18,683	8,133	6,242	2,405	1,767	1,187	3,492	3,126	3,492	3,126
<b>3500K</b>												
Lumens	2,346	2,327	2,242	2,172	3,637	2,496	2,755	2,423	2,050	2,032	2,050	2,032
Efficacy	62	61	59	57	96	66	72	64	54	53	54	53
CBCP	135,236	34,335	21,189	9,224	6,372	2,454	1,803	1,211	3,960	3,545	3,960	3,545
<b>4000K</b>												
Lumens	2,489	2,469	2,378	2,305	3,679	2,525	2,787	2,451	2,174	2,156	2,174	2,156
Efficacy	66	65	63	61	97	66	73	64	57	57	57	57
CBCP	143,481	36,428	22,481	9,786	6,445	2,482	1,824	1,225	4,202	3,761	4,202	3,761

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DATE	PROJECT	FIRM	TYPE
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## 90 CRI

### F170 DUO LOW OUTPUT (26 WATTS)

	5'	10'	15'	20'	40'	60'	70'	90'	15' x 60'	30' x 60'	60' x 15'	60' x 30'
<b>2700K</b>												
Lumens	1,899	1,884	1,814	1,758	2,530	1,738	1,918	1,686	1,659	1,645	1,659	1,645
Efficacy	73	72	70	68	97	67	74	65	64	63	64	63
CBCP	109,450	27,788	17,149	7,465	4,432	1,709	1,255	843	3,205	2,869	3,205	2,869
<b>3000K</b>												
Lumens	2,004	1,988	1,915	1,856	2,734	1,876	2,072	1,822	1,751	1,736	1,751	1,736
Efficacy	77	76	74	71	105	72	80	70	67	67	67	67
CBCP	115,537	29,333	18,103	7,880	4,790	1,844	1,356	911	3,383	3,029	3,383	3,029
<b>3500K</b>												
Lumens	2,062	2,045	1,970	1,909	2,790	1,916	2,114	1,860	1,801	1,786	1,801	1,786
Efficacy	79	79	76	73	107	74	81	72	69	69	69	69
CBCP	118,857	30,176	18,623	8,107	4,888	1,884	1,384	930	3,480	3,116	3,480	3,116
<b>4000K</b>												
Lumens	2,095	2,078	2,001	1,939	2,822	1,938	2,138	1,880	1,830	1,815	1,830	1,815
Efficacy	81	80	77	75	109	75	82	72	70	70	70	70
CBCP	120,738	30,654	18,918	8,235	4,944	1,905	1,400	940	3,536	3,165	3,536	3,165

### F170 DUO MED OUTPUT (52 WATTS)

	5'	10'	15'	20'	40'	60'	70'	90'	15' x 60'	30' x 60'	60' x 15'	60' x 30'
<b>2700K</b>												
Lumens	2,820	2,798	2,695	2,611	4,588	3,150	3,476	3,056	2,646	2,443	2,646	2,443
Efficacy	54	54	52	50	88	61	67	59	47	47	47	47
CBCP	162,571	41,275	25,472	11,088	8,038	3,097	2,275	1,528	4,761	4,261	4,761	4,261
<b>3000K</b>												
Lumens	3,252	3,226	3,107	3,011	4,956	3,402	3,754	3,302	2,841	2,817	2,841	2,817
Efficacy	63	62	60	58	95	65	72	63	55	54	55	54
CBCP	187,471	47,596	29,373	12,787	8,682	3,345	2,457	1,651	5,490	4,914	5,490	4,914
<b>3500K</b>												
Lumens	3,533	3,504	3,375	3,271	5,058	3,472	3,832	3,370	3,086	3,060	3,086	3,060
Efficacy	68	67	65	63	97	67	74	65	59	59	59	59
CBCP	203,628	51,699	31,905	13,889	8,861	3,413	2,508	1,685	5,963	5,338	5,963	5,338
<b>4000K</b>												
Lumens	3,598	3,569	3,438	3,331	5,118	3,512	3,878	3,410	3,143	3,117	3,143	3,117
Efficacy	69	69	66	64	98	68	75	66	60	60	60	60
CBCP	207,391	52,654	32,494	14,145	8,966	3,453	2,538	1,705	6,073	5,436	6,073	5,436

### F170 DUO HIGH OUTPUT (78 WATTS)

	5'	10'	15'	20'	40'	60'	70'	90'	15' x 60'	30' x 60'	60' x 15'	60' x 30'
<b>2700K</b>												
Lumens	3,921	3,889	3,746	3,630	6,596	4,528	4,998	4,396	3,425	3,396	3,425	3,396
Efficacy	50	50	48	47	85	58	64	56	44	44	44	44
CBCP	225,983	57,374	35,408	15,413	11,555	4,452	3,272	2,198	6,617	5,924	6,617	5,924
<b>3000K</b>												
Lumens	4,138	4,104	3,953	3,831	7,126	4,892	5,400	4,748	3,614	3,584	3,614	3,584
Efficacy	53	53	51	49	91	63	69	61	46	46	46	46
CBCP	238,489	60,549	37,367	16,266	12,484	4,809	3,535	2,374	6,984	6,251	6,984	6,251
<b>3500K</b>												
Lumens	4,692	4,655	4,483	4,344	7,274	4,992	5,510	4,846	4,099	4,065	4,099	4,065
Efficacy	60	60	57	56	93	64	71	62	53	53	53	52
CBCP	270,472	68,669	42,378	18,448	12,743	4,908	3,607	2,423	7,920	7,090	7,920	7,090
<b>4000K</b>												
Lumens	4,979	4,939	4,757	4,609	7,358	5,050	5,574	4,902	4,349	4,313	4,349	4,313
Efficacy	64	63	61	59	94	65	71	63	56	55	56	55
CBCP	286,961	72,856	44,962	19,573	12,890	4,965	3,649	2,451	8,403	7,522	8,403	7,522

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DATE	PROJECT	FIRM	TYPE
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## 90 CRI

### F170 QUAD LOW OUTPUT (52 WATTS)

	5'	10'	15'	20'	40'	60'	70'	90'	15' x 60'	30' x 60'	60' x 15'	60' x 30'
<b>2700K</b>												
Lumens	3,798	3,767	3,628	3,516	5,060	3,476	3,836	3,372	3,317	3,290	3,317	3,290
Efficacy	73	72	70	68	97	67	74	65	64	63	64	63
CBCP	218,901	55,576	34,298	14,930	8,865	3,417	2,511	1,686	6,410	5,738	6,410	5,738
<b>3000K</b>												
Lumens	4,009	3,977	3,830	3,712	5,468	3,752	4,144	3,644	3,502	3,473	3,473	3,473
Efficacy	77	76	74	71	105	72	80	70	67	67	67	67
CBCP	231,074	58,667	36,205	15,761	9,579	3,689	2,713	1,822	6,766	6,057	6,766	6,057
<b>3500K</b>												
Lumens	4,124	4,091	3,940	3,818	5,580	3,832	4,228	3,720	3,603	3,572	3,603	3,572
Efficacy	79	79	76	73	107	74	81	72	69	69	69	69
CBCP	237,714	60,352	37,246	16,214	9,776	3,767	2,768	1,860	6,961	6,231	6,961	6,231
<b>4000K</b>												
Lumens	4,189	4,156	4,003	3,879	5,644	3,876	4,276	3,760	3,660	3,629	3,660	3,629
Efficacy	81	80	77	75	109	75	82	72	70	70	70	70
CBCP	241,477	61,308	37,835	16,470	9,888	3,811	2,799	1,880	7,071	6,330	7,071	6,330

### F170 QUAD MED OUTPUT (104 WATTS)

	5'	10'	15'	20'	40'	60'	70'	90'	15' x 60'	30' x 60'	60' x 15'	60' x 30'
<b>2700K</b>												
Lumens	5,641	5,596	5,389	5,222	9,176	6,300	6,952	6,112	4,928	4,886	4,928	4,886
Efficacy	54	54	52	50	88	61	67	59	47	47	47	47
CBCP	325,142	82,549	50,944	22,177	16,075	6,194	4,551	3,056	9,521	8,523	9,521	8,523
<b>3000K</b>												
Lumens	6,505	6,453	6,215	6,022	9,912	6,804	7,508	6,604	5,682	5,635	5,682	5,635
Efficacy	63	62	60	58	95	65	72	63	55	54	55	54
CBCP	374,942	95,193	58,747	25,573	17,365	6,689	4,915	3,302	10,979	9,828	10,979	9,828
<b>3500K</b>												
Lumens	7,066	7,009	6,751	6,541	10,116	6,944	7,664	6,740	6,172	6,120	6,172	6,120
Efficacy	68	67	65	63	97	67	74	65	59	59	59	59
CBCP	407,257	103,397	63,810	27,777	17,722	6,827	5,017	3,370	11,926	10,675	11,926	10,675
<b>4000K</b>												
Lumens	7,196	7,138	6,875	6,662	10,236	7,024	7,756	6,820	6,286	6,234	6,286	6,234
Efficacy	69	69	66	64	98	68	75	66	60	60	60	60
CBCP	414,782	105,308	64,989	28,291	17,932	6,906	5,077	3,410	12,146	10,873	12,146	10,873

### F170 QUAD HIGH OUTPUT (156 WATTS)

	5'	10'	15'	20'	40'	60'	70'	90'	15' x 60'	30' x 60'	60' x 15'	60' x 30'
<b>2700K</b>												
Lumens	7,841	7,778	7,492	7,259	13,192	9,056	9,996	8,792	6,850	6,792	6,850	6,792
Efficacy	50	50	48	47	85	58	64	56	44	44	44	44
CBCP	451,967	114,748	70,815	30,827	23,111	25,781	6,543	4,396	13,235	11,847	13,235	11,847
<b>3000K</b>												
Lumens	8,275	8,209	7,906	7,661	14,252	9,784	10,800	9,496	7,229	7,168	7,229	7,168
Efficacy	53	53	51	49	91	63	69	61	46	46	46	46
CBCP	476,978	121,098	74,734	32,533	24,968	9,619	7,070	4,748	13,967	12,503	13,967	12,503
<b>3500K</b>												
Lumens	9,385	9,309	8,966	8,689	14,548	9,984	11,020	9,692	8,198	8,130	8,198	8,130
Efficacy	60	60	57	56	93	64	71	62	53	52	53	52
CBCP	540,943	137,338	84,756	36,896	25,486	9,816	7,214	4,846	15,840	14,180	15,840	14,180
<b>4000K</b>												
Lumens	9,957	9,877	9,513	9,218	14,716	10,100	11,148	9,804	8,698	8,625	8,698	8,625
Efficacy	64	63	61	59	94	65	71	63	56	55	56	55
CBCP	573,922	145,711	89,923	39,145	25,781	9,930	7,297	4,902	16,806	15,044	16,806	15,044

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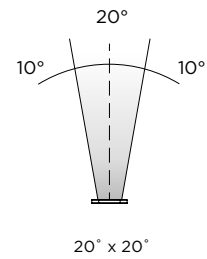
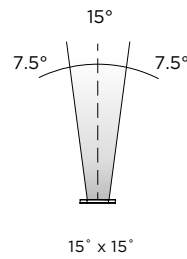
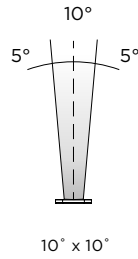
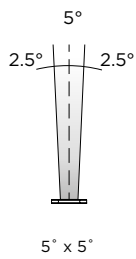
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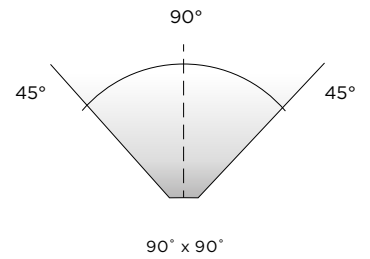
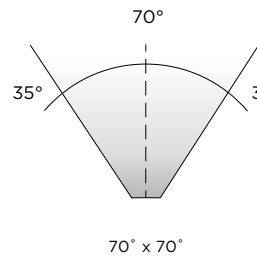
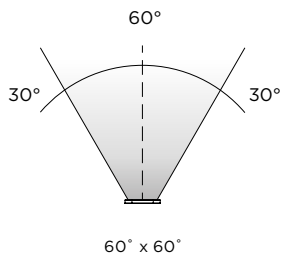
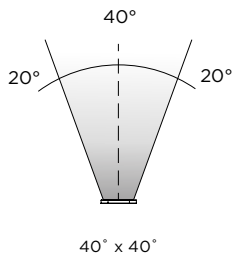


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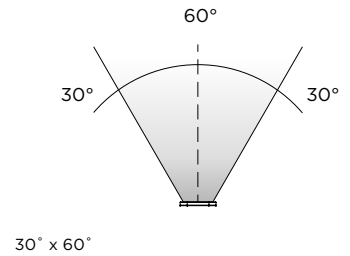
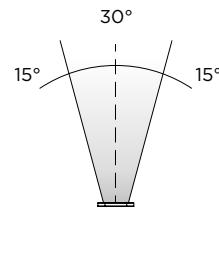
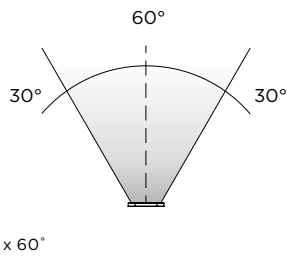
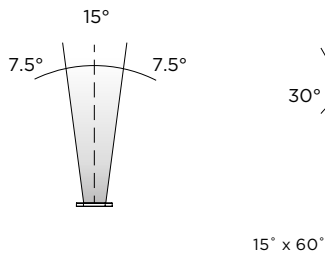
### Spot/Accent Light Distribution



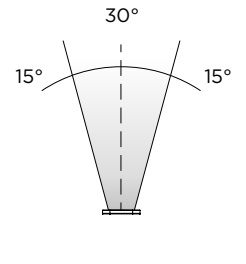
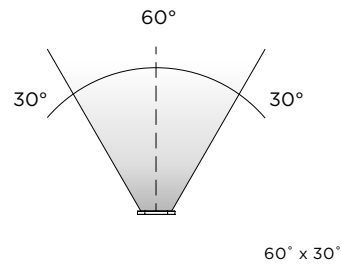
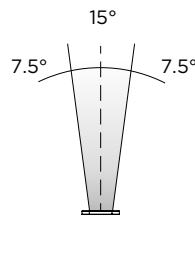
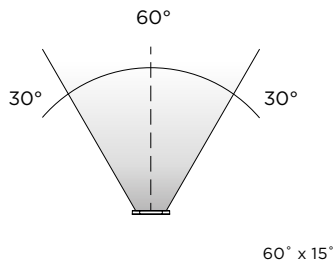
### Flood Light Distribution



### Horizontal Elliptical Light Distribution



### Vertical Elliptical Light Distribution



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