DATE	PROJECT	FIRM	TYPE

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

80 CRI

F080 SINGLE LOW OUTPUT (4 WATTS)

	5˚	10˚	15˚	20˚	40˚	60˚	70˚	90˚	15˚x 60˚	30˚x 60˚	60˚x 15˚	60˚x 30˚
2200K												
Lumens	228	215	206	196	N/A	N/A	N/A	N/A	197	188	197	188
Efficacy	44	54	51	49	N/A	N/A	N/A	N/A	49	47	49	47
CBCP	16,239	3,445	1,449	770	N/A	N/A	N/A	N/A	452	306	452	306
2700K												
Lumens	281	264	254	242	365	261	292	261	243	231	243	231
Efficacy	70	66	63	60	91	65	73	65	61	58	61	58
CBCP	20,028	4,249	1,787	949	600	259	192	128	557	377	557	377
3000K												
Lumens	294	276	265	252	412	295	329	295	254	242	254	242
Efficacy	74	69	66	63	103	74	82	74	64	60	64	60
CBCP	20,976	4,450	1,871	994	677	293	216	145	582	395	582	395
3500K												
Lumens	302	284	273	260	422	302	337	302	261	249	261	249
Efficacy	76	71	68	65	105	75	84	75	65	62	65	62
CBCP	21,517	4,565	1,920	1,020	694	300	221	149	599	405	599	405
4000K												
Lumens	309	291	279	265	429	307	343	307	267	254	267	254
Efficacy	76	71	68	65	107	77	86	77	65	62	65	62
CBCP	21,991	4,665	1,962	1,042	705	305	225	151	612	414	612	414
5000K												
Lumens	323	303	291	277	433	310	346	310	279	265	279	265
Efficacy	81	76	73	69	108	77	86	77	69	66	69	66
CBCP	22,938	4,866	2,046	1,087	712	308	227	152	639	432	639	432
6500K												
Lumens	320	300	289	274	440	315	352	315	276	263	276	263
Efficacy	81	76	73	69	110	79	88	79	70	66	70	66
CBCP	23,005	4,880	2,052	1,090	723	313	231	155	633	433	633	433

F080 SINGLE MED OUTPUT (7.5 WATTS)

	5˚	10˚	15˚	20˚	40˚	60˚	70˚	90˚	15˚x 60˚	30˚x 60˚	60˚x 15˚	60˚x 30˚
2200K												
Lumens	384	361	347	330	N/A	N/A	N/A	N/A	332	316	332	316
Efficacy	51	48	46	44	N/A	N/A	N/A	N/A	44	42	44	42
CBCP	27,404	5,813	2,445	1,299	N/A	N/A	N/A	N/A	760	516	760	516
2700K												
Lumens	487	457	440	418	648	464	517	464	421	400	421	400
Efficacy	65	62	59	56	86	62	69	62	56	54	56	54
CBCP	34,982	7,421	3,121	1,658	1065	460	339	228	963	658	963	658
3000K												
Lumens	516	484	466	443	731	523	584	523	446	424	446	424
Efficacy	69	64	62	59	97	70	78	70	59	56	59	56
CBCP	36,673	7,780	3,272	1,738	1,202	519	383	257	1,020	690	1,020	690
3500K												
Lumens	526	494	475	452	748	535	597	535	455	433	455	433
Efficacy	70	66	63	60	100	71	80	71	61	58	61	58
CBCP	37,485	7,952	3,344	1,777	1,229	531	392	263	1,041	705	1,041	705
4000K												
Lumens	531	499	480	456	761	545	608	545	459	436	459	436
Efficacy	71	66	64	61	101	73	81	73	61	58	61	58
CBCP	37,824	8,024	3,374	1,793	1,251	541	399	268	1,051	712	1,051	712
5000K												
Lumens	565	531	511	485	768	550	613	550	489	465	489	465
Efficacy	75	71	68	65	102	73	82	73	65	62	65	62
CBCP	40,260	8,541	3,592	1,908	1,262	546	402	271	1,119	758	1,119	758
6500K												
Lumens	555	521	501	476	781	559	624	559	480	456	480	456
Efficacy	74	69	67	63	104	75	83	75	64	61	64	61
CBCP	39,515	8,383	3,525	1,873	1,284	555	410	275	1,098	744	1,098	744

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DATE	PROJECT	FIRM	TYPE

80 CRI

F080 SINGLE HIGH OUTPUT (11.5 WATTS)

	5°	10°	15°	20°	40°	60°	70°	90°	15°x 60°	30°x 60°	60°x 15°	60°x 30°
2200K												
Lumens	504	474	455	433	N/A	N/A	N/A	N/A	436	414	436	414
Efficacy	44	41	40	38	N/A	N/A	N/A	N/A	38	36	38	36
CBCP	35,929	7,621	3,205	1,703	N/A	N/A	N/A	N/A	998	676	998	676
2700K												
Lumens	680	639	614	584	970	695	775	695	587	559	587	559
Efficacy	60	56	54	51	84	60	67	60	52	49	52	49
CBCP	48,920	10,378	4,364	2,318	1,594	690	509	342	1,345	921	1,345	921
3000K												
Lumens	708	666	640	608	1,095	784	875	784	612	583	612	583
Efficacy	62	58	56	53	95	68	76	68	53	51	53	51
CBCP	50,477	10,708	4,503	2,392	1,800	778	574	386	1,402	950	1,402	950
3500K												
Lumens	726	682	656	623	1,120	802	895	802	627	597	627	597
Efficacy	64	60	58	55	97	70	78	70	55	52	55	52
CBCP	52,236	11,081	4,660	2,476	1,841	796	588	395	1,437	983	1,437	983
4000K												
Lumens	744	699	672	639	1,120	816	911	816	643	612	643	612
Efficacy	65	61	58	55	99	71	79	71	56	53	56	53
CBCP	53,048	11,253	4,733	2,514	1,874	810	598	401	1,473	998	1,473	998
5000K												
Lumens	782	735	707	672	1,150	823	919	823	676	643	676	643
Efficacy	68	64	61	58	100	72	80	72	59	56	59	56
CBCP	55,754	11,828	4,974	2,642	1,890	817	603	405	1,549	1,049	1,549	1,049
6500K												
Lumens	778	731	702	668	1,170	838	935	838	672	639	672	639
Efficacy	68	63	61	58	102	73	81	73	58	55	58	55
CBCP	55,348	11,742	4,938	2,623	1,923	832	614	412	1,539	1,042	1,539	1,042

F080 DUO LOW OUTPUT (8 WATTS)

	5°	10°	15°	20°	40°	60°	70°	90°	15°x 60°	30°x 60°	60°x 15°	60°x 30°
2200K												
Lumens	456	428	411	391	N/A	N/A	N/A	N/A	393	374	393	374
Efficacy	57	54	51	49	N/A	N/A	N/A	N/A	49	47	49	47
CBCP	32,478	6,890	2,897	1,539	N/A	N/A	N/A	N/A	905	611	905	611
2700K												
Lumens	562	528	507	482	730	522	584	522	485	461	485	461
Efficacy	70	66	63	60	91	65	73	65	61	58	61	58
CBCP	40,057	8,498	3,574	1,898	1,200	518	383	257	1,114	754	1,114	754
3000K												
Lumens	589	553	532	505	824	590	658	590	508	483	508	483
Efficacy	74	69	66	63	103	74	82	74	64	60	64	60
CBCP	41,951	8,899	3,743	1,988	1,354	585	432	290	1,163	790	1,163	790
3500K												
Lumens	604	567	545	518	844	604	674	604	521	496	521	496
Efficacy	76	71	68	65	105	75	84	75	65	62	65	62
CBCP	43,034	9,129	3,839	2,039	1,387	599	442	297	1,197	810	1,197	810
4000K												
Lumens	618	580	557	529	858	614	686	614	533	507	533	507
Efficacy	77	72	70	66	107	77	86	77	67	63	67	63
CBCP	43,982	9,330	3,924	2,084	1,410	609	450	302	1,224	828	1,224	828
5000K												
Lumens	644	605	581	552	866	620	692	620	556	528	556	528
Efficacy	81	76	73	69	108	77	86	77	69	66	69	66
CBCP	45,876	9,732	4,093	2,174	1,423	609	454	305	1,277	863	1,277	863
6500K												
Lumens	646	607	583	554	880	630	704	630	557	530	557	530
Efficacy	81	76	73	69	110	79	88	79	70	66	70	66
CBCP	46,011	9,761	4,105	2,181	1,446	625	462	310	1,266	866	1,266	866

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DATE	PROJECT	FIRM	TYPE

80 CRI

F080 DUO MED OUTPUT (15 WATTS)

	5˚	10˚	15˚	20˚	40˚	60˚	70˚	90˚	15˚x 60˚	30˚x 60˚	60˚x 15˚	60˚x 30˚
2200K												
Lumens	770	723	694	660	N/A	N/A	N/A	N/A	870	828	870	828
Efficacy	51	48	46	44	N/A	N/A	N/A	N/A	38	36	38	36
CBCP	54,807	11,627	4,889	2,597	N/A	N/A	N/A	N/A	1,995	1,352	1,995	1,352
2700K												
Lumens	982	923	886	842	1,296	928	1,034	928	1,186	1,126	1,186	1,126
Efficacy	65	62	59	56	86	62	69	62	52	49	52	49
CBCP	69,964	14,842	6,242	3,316	2,130	921	679	456	2,691	1,842	2,691	1,842
3000K												
Lumens	1,030	967	929	883	1,462	1,046	1,168	1,046	1,222	1,162	1,222	1,162
Efficacy	69	64	62	59	97	70	78	70	53	51	53	51
CBCP	73,347	15,560	6,543	3,476	2,403	1,038	767	515	2,805	1,900	2,805	1,900
3500K												
Lumens	1,053	989	960	902	1,496	1,070	1,194	1,070	1,266	1,204	1,266	1,204
Efficacy	70	66	63	60	100	71	80	71	55	52	55	52
CBCP	74,971	15,904	6,688	3,553	2,459	1,062	784	526	2,873	1,966	2,873	1,966
4000K												
Lumens	1,062	997	958	910	1,522	1,090	1,216	1,090	1,286	1,222	1,286	1,222
Efficacy	71	66	64	61	101	73	81	73	56	53	56	53
CBCP	75,647	16,048	6,749	3,585	2,502	1,082	798	536	2,946	1,996	2,946	1,996
5000K												
Lumens	1,131	1,062	1,020	969	1,536	1,100	1,226	1,100	1,351	1,284	1,351	1,284
Efficacy	75	71	68	65	102	73	82	73	59	56	59	56
CBCP	80,519	17,081	7,183	3,816	2,525	1,091	805	541	3,098	2,099	3,098	2,099
6500K												
Lumens	1,110	1,042	1,001	951	1,562	1,118	1,248	1,118	1,340	1,274	1,340	1,274
Efficacy	74	69	67	63	104	75	83	75	58	55	58	55
CBCP	79,031	16,765	7,050	3,745	2,567	1,109	819	550	3,079	2,083	3,079	2,083

F080 DUO HIGH OUTPUT (23 WATTS)

	5˚	10˚	15˚	20˚	40˚	60˚	70˚	90˚	15˚x 60˚	30˚x 60˚	60˚x 15˚	60˚x 30˚
2200K												
Lumens	1,008	948	910	864	N/A	N/A	N/A	N/A	870	828	870	828
Efficacy	44	41	40	38	N/A	N/A	N/A	N/A	38	36	38	36
CBCP	71,858	15,242	6,410	3,406	N/A	N/A	N/A	N/A	1,995	1,352	1,995	1,352
2700K												
Lumens	1,374	1,290	1,240	1,178	1,940	1,390	1,550	1,390	1,186	1,126	1,186	1,126
Efficacy	60	56	54	51	84	60	67	60	52	49	52	49
CBCP	97,841	20,756	8,728	4,636	3,189	1,379	1,018	684	2,691	1,842	2,691	1,842
3000K												
Lumens	1,418	1,332	1,280	1,214	2,190	1,568	1,750	1,568	1,222	1,162	1,222	1,162
Efficacy	62	58	56	53	95	68	76	68	53	51	53	51
CBCP	100,954	21,416	9,006	4,784	3,600	1,556	1,149	771	2,805	1,900	2,805	1,900
3500K												
Lumens	1,466	1,378	1,324	1,258	2,240	1,604	1,790	1,604	1,266	1,204	1,266	1,204
Efficacy	64	60	58	55	97	70	78	70	55	52	55	52
CBCP	104,472	22,162	9,320	4,951	3,682	1,592	1,175	789	2,873	1,966	2,873	1,966
4000K												
Lumens	1,490	1,398	1,344	1,276	2,280	1,632	1,822	1,632	1,286	1,222	1,286	1,222
Efficacy	65	61	58	55	99	71	79	71	56	53	56	53
CBCP	106,096	22,506	9,466	5,028	3,748	1,619	1,196	803	2,946	1,996	2,946	1,996
5000K												
Lumens	1,566	1,470	1,413	1,342	2,300	1,646	1,838	1,646	1,351	1,284	1,351	1,284
Efficacy	68	64	61	58	100	72	80	72	59	56	59	56
CBCP	111,509	23,655	99,48	5,285	3,780	1,633	1,207	810	3,098	2,099	3,098	2,099
6500K												
Lumens	1,554	1,460	1,402	1,332	2,340	1,676	1,870	1,676	1,340	1,274	1,340	1,274
Efficacy	68	63	61	58	102	73	81	73	58	55	58	55
CBCP	110,697	23,483	9,876	5,246	3,846	1,663	1,228	824	3,079	2,083	3,079	2,083

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DATE	PROJECT	FIRM	TYPE

80 CRI

F080 QUAD LOW OUTPUT (16 WATTS)

	5˚	10˚	15˚	20˚	40˚	60˚	70˚	90˚	15˚x 60˚	30˚x 60˚	60˚x 15˚	60˚x 30˚
2200K												
Lumens	912	857	823	782	N/A	N/A	N/A	N/A	787	748	787	748
Efficacy	57	54	51	49	N/A	N/A	N/A	N/A	49	47	49	47
CBCP	64,957	13,780	5,795	3,078	N/A	N/A	N/A	N/A	1,809	1,223	1,809	1,223
2700K												
Lumens	1,125	1,056	1,015	964	1,460	1,044	1,168	1,044	970	923	970	923
Efficacy	70	66	63	60	91	65	73	65	61	58	61	58
CBCP	80,113	16,995	7,147	3,797	2,400	1,036	767	514	2,227	1,508	2,227	1,508
3000K												
Lumens	1,178	1,106	1,063	1,010	1,648	1,180	1,316	1,180	1016	966	1,016	966
Efficacy	74	69	66	63	103	74	82	74	64	60	64	60
CBCP	83,902	17,799	7,485	3,976	2,709	1,171	864	580	2,326	1,579	2,326	1,579
3500K												
Lumens	1,208	1,135	1,090	1,036	1,688	1,208	1,348	1,208	1,043	991	1,043	991
Efficacy	76	71	68	65	105	75	84	75	65	62	65	62
CBCP	86,068	18,258	7,678	4,079	2,774	1,199	885	594	2,394	1,620	2,394	1,620
4000K												
Lumens	1,235	1,160	1,114	1,059	1,716	1,228	1,372	1,228	1,066	1,013	1,066	1,013
Efficacy	77	72	70	66	107	77	86	77	67	63	67	63
CBCP	87,964	18,660	7,847	4,169	2,821	1,218	901	604	2,448	1,655	2,448	1,655
5000K												
Lumens	1,288	1,210	1,162	1,104	1,732	1240	1,384	1,240	1,111	1,057	1,111	1,057
Efficacy	81	76	73	69	108	77	86	77	69	66	69	66
CBCP	91,751	19,464	8,185	4,348	2,847	1,230	909	610	2,554	1727	2,554	1,727
6500K												
Lumens	1,292	1,213	1,166	1,107	1,760	1,260	1,408	1,260	1,115	1,060	1,115	1,060
Efficacy	81	76	73	69	110	79	88	79	70	66	70	66
CBCP	92,022	19,521	8,209	4,361	2,893	1,250	924	620	2,531	1,732	2,531	1,732

F080 QUAD MED OUTPUT (30 WATTS)

	5˚	10˚	15˚	20˚	40˚	60˚	70˚	90˚	15˚x 60˚	30˚x 60˚	60˚x 15˚	60˚x 30˚
2200K												
Lumens	1,539	1,445	1,389	1,319	N/A	N/A	N/A	N/A	1,328	1,262	1,328	1,262
Efficacy	51	48	46	44	N/A	N/A	N/A	N/A	44	42	44	42
CBCP	109,614	23,253	9,779	5,195	N/A	N/A	N/A	N/A	3,041	2,063	3,041	2,063
2700K												
Lumens	1,965	1,845	1,773	1,684	2,592	1,856	2,068	1,856	1,695	1,612	1,695	1,612
Efficacy	65	62	59	56	86	62	69	62	56	54	56	54
CBCP	139,927	29,84	12,483	6,631	4,260	1,842	1,358	913	3,854	2,633	3,854	2,633
3000K												
Lumens	2,060	1,934	1,859	1,765	2,924	2,092	2,336	2,092	1,777	1,690	1,777	1,690
Efficacy	69	64	62	59	97	70	78	70	59	56	59	56
CBCP	146,694	31,119	13,087	6,952	4,806	2076	1,533	1,029	4,082	2,761	4,082	2,761
3500K												
Lumens	2,105	1,977	1,900	1,804	2,992	2,140	2,388	2,140	1,816	1,727	1,816	1,728
Efficacy	70	66	63	60	100	71	80	71	61	58	61	58
CBCP	149,942	31,808	13,377	7,106	4,918	2,123	1,568	1,053	4,166	2,822	4,166	2,822
4000K												
Lumens	2,124	19,95	1,917	1,821	3,044	2,180	2,432	2,180	1,833	1,743	1,833	1,743
Efficacy	71	66	64	61	101	73	81	73	61	58	61	58
CBCP	151,295	32,095	13,497	7,170	5,003	2,163	1,597	1,053	4,204	2,847	4,204	2,847
5000K												
Lumens	2,261	2,123	2,040	1,938	3,072	2200	2,452	2,200	1,951	1,855	1,951	1,855
Efficacy	75	71	68	65	102	73	82	73	65	62	65	62
CBCP	161,038	34,162	14,367	7,632	5,049	2,183	1,610	1,082	4,477	3,031	4,477	3,031
6500K												
Lumens	2,219	2,084	2,003	1,902	3,124	2,236	2,496	2,236	1,915	1,820	1,915	1,820
Efficacy	74	69	67	63	104	75	83	75	64	61	64	61
CBCP	158,061	33,531	14,101	7,491	5,135	2,219	1,639	1100	4,394	2,975	4,394	2,975

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DATE | PROJECT | FIRM | TYPE

80 CRI

F080 QUAD HIGH OUTPUT (46 WATTS)

	5°	10°	15°	20°	40°	60°	70°	90°	15°x 60°	30°x 60°	60°x 15°	60°x 30°
2200K												
Lumens	2,016	1,896	1,820	1,728	N/A	N/A	N/A	N/A	1,740	1,656	1,740	1,656
Efficacy	44	41	40	38	N/A	N/A	N/A	N/A	38	36	38	36
CBCP	143,716	30,484	12,820	6,812	N/A	N/A	N/A	N/A	3,991	2,704	3,991	2,704
2700K												
Lumens	2,748	2,580	2,480	2,356	3,880	2,780	3,100	2,780	2,372	926	2,372	2,252
Efficacy	60	56	54	51	84	60	67	60	52	20	52	49
CBCP	195,682	41,512	17,456	9,272	6,377	2,758	2,035	1,368	5,382	3,684	5,382	3,684
3000K												
Lumens	2,836	2,664	2,560	2,428	4,380	3,136	3,500	3,136	2,444	2,324	2,444	2,324
Efficacy	62	58	56	53	95	68	76	68	53	51	53	51
CBCP	201,908	42,832	1,8012	9,568	7,199	3,112	2,298	1,543	5,610	3,800	5,610	3,800
3500K												
Lumens	2,932	2,756	2,648	2,516	4,480	3,208	3,580	3,208	2,532	2,408	2,532	2,408
Efficacy	64	60	58	55	97	70	78	70	55	52	55	52
CBCP	208,944	44,325	18,640	9,902	7,364	3,183	2,350	1,578	5,747	3,932	5,747	3,932
4000K												
Lumens	2,980	2,796	2,688	2,552	4,560	3,264	3,644	3,264	2,572	2,444	2,572	2,444
Efficacy	65	61	58	55	99	71	79	71	56	53	56	53
CBCP	212,192	45,012	18,932	10,056	7,495	3,239	2,392	1,606	5,891	1,996	5,891	1,996
5000K												
Lumens	3,132	2,941	2,826	2,684	4,600	3,292	3,676	3,292	2,701	2,568	2,701	2,569
Efficacy	68	64	61	58	100	72	80	72	59	56	59	56
CBCP	223,018	283,863	19,896	10,569	7,561	3,266	2,413	1,619	6,195	4,197	6,195	4,197
6500K												
Lumens	3,108	2,920	2,804	2,664	4,680	3,352	3,740	3,352	2,680	2,548	2,680	2,548
Efficacy	68	63	61	58	102	73	81	73	58	55	58	55
CBCP	221,394	46,966	19,751	10,492	7,692	3,326	2,455	1,649	6,157	4,167	6,157	4,167

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DATE	PROJECT	FIRM	TYPE

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

90 CRI

F080 SINGLE LOW OUTPUT (4 WATTS)

	5˚	10˚	15˚	20˚	40˚	60˚	70˚	90˚	15˚x 60˚	30˚x 60˚	60˚x 15˚	60˚x 30˚
2700K												
Lumens	226	212	204	194	322	231	258	231	195	185	195	185
Efficacy	56	53	51	48	80	58	64	58	49	46	49	46
CBCP	16,068	3,411	1,435	763	529	229	169	114	447	303	447	303
3000K												
Lumens	233	219	211	200	364	261	291	261	202	192	202	192
Efficacy	58	55	53	50	91	65	73	65	50	48	50	48
CBCP	16,615	3,527	1,484	789	598	259	191	128	462	313	462	313
3500K												
Lumens	252	236	227	216	372	267	298	267	217	207	217	207
Efficacy	63	59	57	54	93	67	74	67	54	52	54	52
CBCP	17.914	3,803	1,600	851	611	265	196	131	498	338	498	338
4000K												
Lumens	260	244	235	223	379	271	303	271	225	214	225	214
Efficacy	65	61	59	56	95	68	76	68	56	53	56	53
CBCP	18,530	3,934	1,655	880	623	269	199	133	515	350	515	350

F080 SINGLE MED OUTPUT (7.5 WATTS)

	5˚	10˚	15˚	20˚	40˚	60˚	70˚	90˚	15˚x 60˚	30˚x 60˚	60˚x 15˚	60˚x 30˚
2700K												
Lumens	367	345	331	315	572	409	457	409	317	302	317	302
Efficacy	49	46	44	42	76	55	61	55	42	40	42	40
CBCP	26,119	5,545	2,333	1,240	940	406	300	201	726	493	726	493
3000K												
Lumens	403	379	364	346	645	462	516	462	348	332	348	332
Efficacy	54	51	49	46	86	62	69	62	46	44	46	44
CBCP	28,718	6,096	2,565	1,364	1,060	458	339	227	798	542	798	542
3500K												
Lumens	436	410	394	374	660	473	528	473	377	358	377	358
Efficacy	58	55	52	50	88	63	70	63	50	48	50	48
CBCP	31,042	6,590	2,772	1,474	1,085	469	347	233	863	586	863	586
4000K												
Lumens	456	429	412	392	672	481	537	481	394	375	394	375
Efficacy	61	57	55	52	90	64	72	64	53	50	53	50
CBCP	32,478	6,895	2,901	1,542	1,105	477	353	237	903	613	903	613

F080 SINGLE HIGH OUTPUT (11.5 WATTS)

	5˚	10˚	15˚	20˚	40˚	60˚	70˚	90˚	15˚x 60˚	30˚x 60˚	60˚x 15˚	60˚x 30˚
2700K												
Lumens	531	499	480	456	876	627	700	627	459	436	459	436
Efficacy	46	43	42	40	76	55	61	55	40	38	40	38
CBCP	37,812	8,027	3,377	1,795	1,440	622	460	308	1,051	713	1,051	713
3000K												
Lumens	572	538	517	491	989	708	791	708	494	470	494	470
Efficacy	50	47	45	43	86	62	69	62	43	41	43	41
CBCP	40,752	8,651	3,640	1,935	1,626	703	519	348	1,133	769	1,133	769
3500K												
Lumens	617	580	558	530	1012	725	809	725	533	508	533	508
Efficacy	54	50	48	46	88	63	70	63	46	44	46	44
CBCP	43,965	9,333	3,927	2,088	1,663	719	531	357	1,222	829	1,222	829
4000K												
Lumens	656	616	592	563	1030	737	823	737	567	539	567	539
Efficacy	57	54	52	49	90	64	72	64	49	47	49	47
CBCP	46,700	9,914	4,171	2,218	1,693	731	540	363	1,298	881	1,298	881

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DATE	PROJECT	FIRM	TYPE

90 CRI

F080 DUO LOW OUTPUT (8 WATTS)

	5˚	10˚	15˚	20˚	40˚	60˚	70˚	90˚	15˚x 60˚	30˚x60˚	60˚x 15˚	60˚x 30˚
2700K												
Lumens	451	424	408	387	644	462	516	462	390	371	390	371
Efficacy	56	53	51	48	80	58	64	58	49	46	49	46
CBCP	32,136	6,822	2,870	1,526	1,059	458	339	227	893	606	893	606
3000K												
Lumens	467	438	421	401	728	522	582	522	403	384	403	384
Efficacy	58	55	53	50	91	65	73	65	50	48	50	48
CBCP	33,230	7,054	2,968	1,578	1,197	518	382	257	924	627	924	627
3500K												
Lumens	503	473	454	432	744	534	596	534	435	414	435	414
Efficacy	63	59	57	54	93	67	74	67	54	52	54	52
CBCP	35,829	7,606	3,200	1,701	1,223	530	391	263	996	676	996	676
4000K												
Lumens	520	489	470	447	758	542	606	542	450	428	450	428
Efficacy	65	61	59	56	95	68	76	68	56	53	56	53
CBCP	37,059	7,867	3,310	1,760	1,246	538	398	267	1,030	699	1,030	699

F080 DUO MED OUTPUT (15 WATTS)

	5˚	10˚	15˚	20˚	40˚	60˚	70˚	90˚	15˚x 60˚	30˚x 60˚	60˚x 15˚	60˚x 30˚
2700K												
Lumens	733	689	663	630	1,144	818	914	818	634	603	634	603
Efficacy	49	46	44	42	76	55	61	55	42	40	42	40
CBCP	52,239	11,089	4,666	2,481	1,880	812	600	402	1,452	985	1,452	985
3000K												
Lumens	806	758	728	692	1,290	924	1,032	924	697	663	697	663
Efficacy	54	51	49	46	86	62	69	62	46	44	46	44
CBCP	57,435	12,192	5,130	2,727	2,120	917	677	455	1,596	1,083	1,596	1,083
3500K												
Lumens	872	819	787	748	1,320	946	1,056	946	753	717	753	717
Efficacy	58	55	52	50	88	63	70	63	50	48	50	48
CBCP	62,085	13,179	5,545	2,948	2,170	939	693	465	1,726	1,171	1,726	1,171
4000K												
Lumens	912	857	824	783	1,344	962	1,074	962	788	750	788	750
Efficacy	61	57	55	52	90	64	72	64	53	50	53	50
CBCP	64,957	13,789	5,801	3,084	2,209	955	705	473	1,805	1,225	1,805	1,225

F080 DUO HIGH OUTPUT (23 WATTS)

	5˚	10˚	15˚	20˚	40˚	60˚	70˚	90˚	15˚x 60˚	30˚x 60˚	60˚x 15˚	60˚x 30˚
2700K												
Lumens	1,062	998	959	912	1,752	1,254	1,400	1,254	918	873	918	918
Efficacy	46	43	42	40	76	55	61	55	40	38	40	38
CBCP	75,623	16,053	6,754	3,591	2,880	1,244	919	617	2,102	1,426	2,102	1,426
3000K												
Lumens	1,144	1,075	1,034	983	1,978	1,416	1,582	1,416	989	941	989	989
Efficacy	50	47	45	43	86	62	69	62	43	41	43	41
CBCP	81,503	17,302	7,279	3,870	3,251	1,405	1,039	697	2,265	1,537	2,265	2,265
3500K												
Lumens	1,235	1,160	1,115	1,400	2,024	1,450	1,618	1,450	1,067	1,015	1,067	1,067
Efficacy	54	50	48	46	88	63	70	63	46	44	46	44
CBCP	87,931	18,666	7,853	4,175	3,327	1,439	1,062	713	2,444	1,659	2,444	1,659
4000K												
Lumens	1,311	1,232	1,185	1,126	2,060	1,474	1,646	1,474	1,133	1,078	1,133	1,133
Efficacy	57	54	52	49	90	64	72	64	49	47	49	47
CBCP	93,401	19,827	8,342	4,435	3,386	1,463	1,081	725	2,596	1,762	2,596	1,762

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DATE	PROJECT	FIRM	TYPE

90 CRI

F080 QUAD LOW OUTPUT (16 WATTS)

	5˚	10˚	15˚	20˚	40˚	60˚	70˚	90˚	15˚x 60˚	30˚x 60˚	60˚x 15˚	60˚x 30˚
2700K												
Lumens	902	848	815	775	1,288	924	1,032	924	780	742	780	742
Efficacy	56	53	51	48	80	58	64	58	49	46	49	46
CBCP	64,273	13,644	5,740	3,052	2117	917	677	455	1,786	1,212	1,786	1,212
3000K												
Lumens	933	877	843	801	1,456	1,044	1,164	1,044	806	767	806	767
Efficacy	58	55	53	50	91	65	73	65	50	48	50	48
CBCP	66,461	14,108	5,936	3,156	2,393	1,036	764	514	1,847	1,254	1,847	1,254
3500K												
Lumens	1,006	946	909	864	1,488	1,068	1,192	1,068	869	827	869	827
Efficacy	63	59	57	54	93	67	74	67	54	52	54	52
CBCP	71,657	15,212	6,400	3,403	2,446	1,036	782	525	1,992	1,352	1,992	1,352
4000K												
Lumens	1,041	978	940	893	1,516	1,084	1,212	1,084	899	856	899	856
Efficacy	65	61	59	56	95	68	76	68	56	53	56	53
CBCP	74,119	15,734	6,620	3,520	2,492	1,076	796	533	2,060	1,398	2,060	1,398

F080 QUAD MED OUTPUT (30 WATTS)

	5˚	10˚	15˚	20˚	40˚	60˚	70˚	90˚	15˚x 60˚	30˚x 60˚	60˚x 15˚	60˚x 30˚
2700K												
Lumens	1,467	1,379	1,325	1,259	2,288	1,636	1,828	1,636	1,268	1,206	1,268	1,206
Efficacy	49	46	44	42	76	55	61	61	42	40	42	40
CBCP	104,478	22,179	9,331	4,961	3,761	1,623	1,200	805	2,904	1,971	2,904	1,971
3000K												
Lumens	1,613	1,516	1,457	1,385	2,580	1,848	2,064	1,848	1,394	1,326	1,394	1,326
Efficacy	54	51	49	46	86	62	69	69	46	44	46	44
CBCP	114,871	24,385	10,259	5,455	4,241	1,834	1,355	909	3,193	2,167	3,193	2,167
3500K												
Lumens	1,743	1,638	1,575	1,497	2,640	1,892	2112	1,892	1,507	1,433	1,507	1,433
Efficacy	58	55	52	50	88	63	70	70	50	48	50	50
CBCP	124,170	26,359	11,090	5,896	1,649	1,877	1,386	931	3,451	2,342	3,451	2,342
4000K												
Lumens	1,824	1,714	1,648	1,566	2,688	1,924	2,148	1,924	1,576	1,500	1,576	1,500
Efficacy	61	57	55	52	90	64	72	72	53	50	53	53
CBCP	129,913	27,578	11,603	6,169	4,418	1,909	1,410	946	3,611	2,451	3,611	2,451

F080 QUAD HIGH OUTPUT (46 WATTS)

	5˚	10˚	15˚	20˚	40˚	60˚	70˚	90˚	15˚x 60˚	30˚x 60˚	60˚x 15˚	60˚x 30˚
2700K												
Lumens	2,124	1,996	1,918	1,823	3,504	2,508	2,800	2,508	1,835	1,746	1,375	1,746
Efficacy	46	43	42	40	76	55	61	55	40	38	40	38
CBCP	151,246	32,107	13,508	7,182	5,759	2,489	1,838	1,234	4,204	2,853	4,204	2,853
3000K												
Lumens	2,289	2,151	2,068	1,965	3,956	2,832	3,164	2,832	1,978	1,882	1,978	1,882
Efficacy	50	47	45	43	86	62	69	62	43	41	43	41
CBCP	163,007	34,603	14,559	7,740	6,502	2,810	2,077	1,393	4,530	3,075	4,530	3,075
3500K												
Lumens	2,469	2,320	2,231	2,120	4,048	2,900	3,236	2,900	2,134	2,030	2,134	2,030
Efficacy	54	50	48	46	88	63	70	63	46	44	46	44
CBCP	175,862	37,332	15,707	8.351	6,654	2,878	2,124	1,427	4,888	3,317	4,888	3,317
4000K												
Lumens	2,623	2,465	2,369	2,252	4,120	2,948	3,292	2,948	2,267	2,156	2,267	2,156
Efficacy	57	54	52	49	90	64	72	64	49	47	49	47
CBCP	186,802	39,654	16,684	8,870	6,772	2,925	2,161	1,450	5,192	3,524	5,192	3,524

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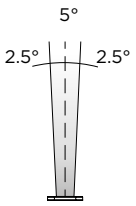
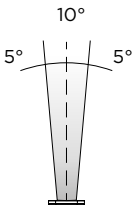
DATE	PROJECT	FIRM	TYPE

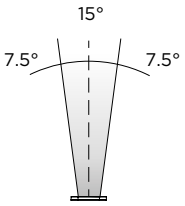
Spot/Accent Light Distribution



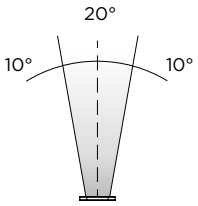
5˚ x 5˚



10˚ x 10˚

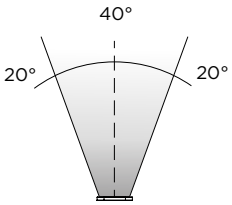


15˚ x 15˚

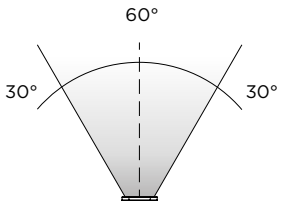


20˚ x 20˚

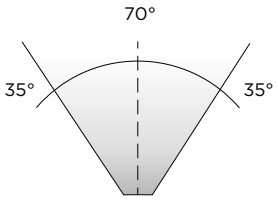
Flood Light Distribution



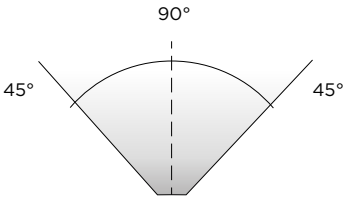
40˚ x 40˚



60˚ x 60˚

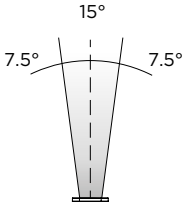


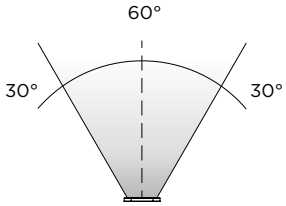
70˚ x 70˚



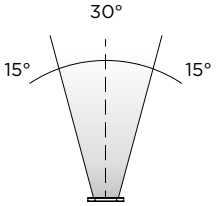
90˚ x 90˚

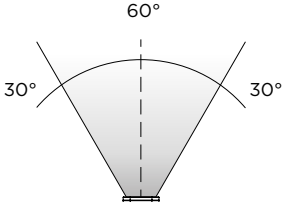
Horizontal Eliptical Light Distribution





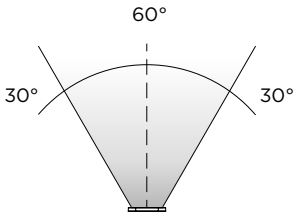
15˚ x 60˚

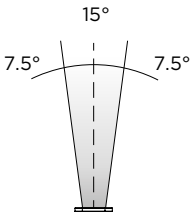




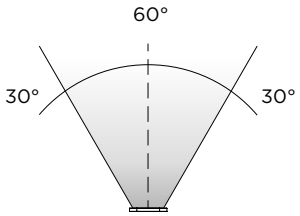
30˚ x 60˚

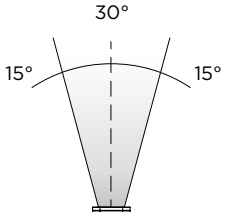
Vertical Eliptical Light Distribution





60˚ x 15˚





60˚ x 30˚

NOTE: Information on this Spec Sheet is subject to change, please visit the website for most updated information.

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