

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

80 CRI

F080 SINGLE LOW OUTPUT (4 WATTS)

	5"	10"	15"	20"	40"	60"	80"	15" x 60"	30" x 60"	60" x 15"	60" x 30"
2200K											
Lumens	228	215	206	196	155	175	148	197	188	197	188
Efficacy	44	54	51	49	39	39	36	49	47	49	47
CBCP	16,239	3,445	1,449	770	215	119	109	452	306	452	306
2700K											
Lumens	281	264	254	242	191	215	182	243	231	243	231
Efficacy	70	66	63	60	48	49	45	61	58	61	58
CBCP	20,028	4,249	1,787	949	265	147	135	557	377	557	377
3000K											
Lumens	294	276	265	252	200	225	190	254	242	254	242
Efficacy	74	69	66	63	50	51	47	64	60	64	60
CBCP	20,976	4,450	1,871	994	277	154	141	582	395	582	395
3500K											
Lumens	302	284	273	260	205	231	196	261	249	261	249
Efficacy	76	71	68	65	51	52	48	65	62	65	62
CBCP	21,517	4,565	1,920	1,020	284	158	145	599	405	599	405
4000K											
Lumens	309	291	279	265	210	236	200	267	254	267	254
Efficacy	76	71	68	65	51	52	48	65	62	65	62
CBCP	21,991	4,665	1,962	1,042	291	162	148	612	414	612	414
5000K											
Lumens	323	303	291	277	219	247	209	279	265	279	265
Efficacy	81	76	73	69	54	56	51	69	66	69	66
CBCP	22,938	4,866	2,046	1,087	303	169	154	639	432	639	432
6500K											
Lumens	320	300	289	274	217	244	207	276	263	276	263
Efficacy	81	76	73	69	55	56	51	70	66	70	66
CBCP	23,005	4,880	2,052	1,090	304	169	155	633	433	633	433

F080 SINGLE MED OUTPUT (7.5 WATTS)

	5"	10"	15"	20"	40"	60"	80"	15" x 60"	30" x 60"	60" x 15"	60" x 30"
2200K											
Lumens	384	361	347	330	261	294	249	332	316	332	316
Efficacy	51	48	46	44	35	35	33	44	42	44	42
CBCP	27,404	5,813	2,445	1,299	362	201	185	760	516	760	516
2700K											
Lumens	487	457	440	418	331	372	315	421	400	421	400
Efficacy	65	62	59	56	44	45	41	56	54	56	54
CBCP	34,982	7,421	3,121	1,658	462	257	236	963	658	963	658
3000K											
Lumens	516	484	466	443	350	394	334	446	424	446	424
Efficacy	69	64	62	59	46	47	43	59	56	59	56
CBCP	36,673	7,780	3,272	1,738	485	270	247	1,020	690	1,020	690
3500K											
Lumens	526	494	475	452	357	402	341	455	433	455	433
Efficacy	70	66	63	60	47	49	44	61	58	61	58
CBCP	37,485	7,952	3,344	1,777	496	276	252	1,041	705	1,041	705
4000K											
Lumens	531	499	480	456	361	406	344	459	436	459	436
Efficacy	71	66	64	61	48	49	45	61	58	61	58
CBCP	37,824	8,024	3,374	1,793	500	278	255	1,051	712	1,051	712
5000K											
Lumens	565	531	511	485	384	432	366	489	465	489	465
Efficacy	75	71	68	65	51	52	48	65	62	65	62
CBCP	40,260	8,541	3,592	1,908	532	296	271	1,119	758	1,119	758
6500K											
Lumens	555	521	501	476	377	424	359	480	456	480	456
Efficacy	74	69	67	63	50	51	47	64	61	64	61
CBCP	39,515	8,383	3,525	1,873	522	290	266	1,098	744	1,098	744

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837 NORTH SPRING STREET
SUITE 103
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DATE	PROJECT	FIRM	TYPE
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80 CRI

F080 SINGLE HIGH OUTPUT (11.5 WATTS)

	5"	10"	15"	20"	40"	60"	80"	15" x 60"	30" x 60"	60" x 15"	60" x 30"
2200K											
Lumens	504	474	455	433	342	385	326	436	414	436	414
Efficacy	44	41	40	38	30	30	28	38	36	38	36
CBCP	35,929	7,621	3,205	1,703	475	264	242	998	676	998	676
2700K											
Lumens	680	639	614	584	462	520	440	587	559	587	559
Efficacy	60	56	54	51	40	41	38	52	49	52	49
CBCP	48,920	10,378	4,364	2,318	647	360	329	1,345	921	1,345	921
3000K											
Lumens	708	666	640	608	481	542	459	612	583	612	583
Efficacy	62	58	56	53	42	43	39	53	51	53	51
CBCP	50,477	10,708	4,503	2,392	667	371	340	1,402	950	1,402	950
3500K											
Lumens	726	682	656	623	493	555	470	627	597	627	597
Efficacy	64	60	58	55	43	44	40	55	52	55	52
CBCP	52,236	11,081	4,660	2,476	691	384	352	1,437	983	1,437	983
4000K											
Lumens	744	699	672	639	505	569	482	643	612	643	612
Efficacy	65	61	58	55	44	45	41	56	53	56	53
CBCP	53,048	11,253	4,733	2,514	701	390	357	1,473	998	1,473	998
5000K											
Lumens	782	735	707	672	532	598	507	676	643	676	643
Efficacy	68	64	61	58	46	47	43	59	56	59	56
CBCP	55,754	11,828	4,974	2,642	737	410	375	1,549	1,049	1,549	1,049
6500K											
Lumens	778	731	702	668	528	595	504	672	639	672	639
Efficacy	68	63	61	58	46	47	43	58	55	58	55
CBCP	55,348	11,742	4,938	2,623	732	407	373	1,539	1,042	1,539	1,042

F080 DUO LOW OUTPUT (8 WATTS)

	5"	10"	15"	20"	40"	60"	80"	15" x 60"	30" x 60"	60" x 15"	60" x 30"
2200K											
Lumens	456	428	411	391	308	315	289	393	374	393	374
Efficacy	57	54	51	49	39	39	36	49	47	49	47
CBCP	32,478	6,890	2,897	1,539	429	239	219	905	611	905	611
2700K											
Lumens	562	528	507	482	380	389	356	485	461	485	461
Efficacy	70	66	63	60	48	49	45	61	58	61	58
CBCP	40,057	8,498	3,574	1,898	530	294	270	1,114	754	1,114	754
3000K											
Lumens	589	553	532	505	398	407	373	508	483	508	483
Efficacy	74	69	66	63	50	51	47	64	60	64	60
CBCP	41,951	8,899	3,743	1,988	555	308	283	1,163	790	1,163	790
3500K											
Lumens	604	567	545	518	408	418	383	521	496	521	496
Efficacy	76	71	68	65	51	52	48	65	62	65	62
CBCP	43,034	9,129	3,839	2,039	569	316	290	1,197	810	1,197	810
4000K											
Lumens	618	580	557	529	417	427	391	533	507	533	507
Efficacy	77	72	70	66	52	53	49	67	63	67	63
CBCP	43,982	9,330	3,924	2,084	581	323	296	1,224	828	1,224	828
5000K											
Lumens	644	605	581	552	435	445	408	556	528	556	528
Efficacy	81	76	73	69	54	56	51	69	66	69	66
CBCP	45,876	9,732	4,093	2,174	606	337	309	1,277	863	1,277	863
6500K											
Lumens	646	607	583	554	437	447	409	557	530	557	530
Efficacy	81	76	73	69	55	56	51	70	66	70	66
CBCP	46,011	9,761	4,105	2,181	608	338	310	1,266	866	1,266	866

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DATE	PROJECT	FIRM	TYPE
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80 CRI

F080 DUO MED OUTPUT (15 WATTS)

	5'	10'	15'	20'	40'	60'	80'	15' x 60'	30' x 60'	60' x 15'	60' x 30'
2200K											
Lumens	770	723	694	660	520	532	488	664	631	664	631
Efficacy	51	48	46	44	35	35	33	44	42	44	42
CBCP	54,807	11,627	4,889	2,597	725	403	369	1,520	1,031	1,520	1,031
2700K											
Lumens	982	923	886	842	664	679	622	847	806	847	806
Efficacy	65	62	59	56	44	45	41	56	54	56	54
CBCP	69,964	14,842	6,242	3,316	925	514	471	1,927	1,317	1,927	1,317
3000K											
Lumens	1,030	967	929	883	696	712	652	888	845	888	845
Efficacy	69	64	62	59	46	47	43	59	56	59	56
CBCP	73,347	15,560	6,543	3,476	970	539	494	2,041	1,380	2,041	1,380
3500K											
Lumens	1,053	989	950	902	712	728	667	908	863	908	864
Efficacy	70	66	63	60	47	49	44	61	58	61	58
CBCP	74,971	15,904	6,688	3,553	991	551	505	2,083	1,411	2,083	1,411
4000K											
Lumens	1,062	997	958	910	718	735	673	916	871	916	871
Efficacy	71	66	64	61	48	49	45	61	58	61	58
CBCP	75,647	16,048	6,749	3,585	1,000	556	509	2,102	1,424	2,102	1,424
5000K											
Lumens	1,131	1,062	1,020	969	764	782	716	975	927	975	927
Efficacy	75	71	68	65	51	52	48	65	62	65	62
CBCP	80,519	17,081	7,183	3,816	1,064	592	542	2,239	1,515	2,239	1,515
6500K											
Lumens	1,110	1,042	1,001	951	750	767	703	957	910	957	910
Efficacy	74	69	67	63	50	51	47	64	61	64	61
CBCP	79,031	16,765	7,050	3,745	1,045	581	532	2,197	1,487	2,197	1,487

F080 DUO HIGH OUTPUT (23 WATTS)

	5'	10'	15'	20'	40'	60'	80'	15' x 60'	30' x 60'	60' x 15'	60' x 30'
2200K											
Lumens	1,008	948	910	864	682	698	640	870	828	870	828
Efficacy	44	41	40	38	30	30	28	38	36	38	36
CBCP	71,858	15,242	6,410	3,406	950	528	484	1,995	1,352	1,995	1,352
2700K											
Lumens	1,374	1,290	1,240	1,178	928	950	870	1,186	1,126	1,186	1,126
Efficacy	60	56	54	51	40	41	38	52	49	52	49
CBCP	97,841	20,756	8,728	4,636	1,294	720	658	2,691	1,842	2,691	1,842
3000K											
Lumens	1,418	1,332	1,280	1,214	958	980	898	1,222	1,162	1,222	1,162
Efficacy	62	58	56	53	42	43	39	53	51	53	51
CBCP	100,954	21,416	9,006	4,784	1,334	742	680	2,805	1,900	2,805	1,900
3500K											
Lumens	1,466	1,378	1,324	1,258	992	1,014	930	1,266	1,204	1,266	1,204
Efficacy	64	60	58	55	43	44	40	55	52	55	52
CBCP	104,472	22,162	9,320	4,951	1,381	768	704	2,873	1,966	2,873	1,966
4000K											
Lumens	1,490	1,398	1,344	1,276	1,006	1,030	944	1,286	1,222	1,286	1,222
Efficacy	65	61	58	55	44	45	41	56	53	56	53
CBCP	106,096	22,506	9,466	5,028	1,402	780	714	2,946	1,996	2,946	1,996
5000K											
Lumens	1,566	1,470	1,413	1,342	1,058	1,083	992	1,351	1,284	1,351	1,284
Efficacy	68	64	61	58	46	47	43	59	56	59	56
CBCP	111,509	23,655	9,948	5,285	1,474	820	751	3,098	2,099	3,098	2,099
6500K											
Lumens	1,554	1,460	1,402	1,332	1,050	1,074	984	1,340	1,274	1,340	1,274
Efficacy	68	63	61	58	46	47	43	58	55	58	55
CBCP	110,697	23,483	9,876	5,246	1,463	814	745	3,079	2,083	3,079	2,083

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3/9

DATE	PROJECT	FIRM	TYPE
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80 CRI

F080 QUAD LOW OUTPUT (16 WATTS)

	5'	10'	15'	20'	40'	60'	80'	15' x 60'	30' x 60'	60' x 15'	60' x 30'
2200K											
Lumens	912	857	823	782	616	631	578	787	748	787	748
Efficacy	57	54	51	49	39	39	36	49	47	49	47
CBCP	64,957	13,780	5,795	3,078	859	477	437	1,809	1,223	1,809	1,223
2700K											
Lumens	1,125	1,056	1,015	964	760	778	713	970	923	970	923
Efficacy	70	66	63	60	48	49	45	61	58	61	58
CBCP	80,113	16,995	7,147	3,797	1,059	589	540	2,227	1,508	2,227	1,508
3000K											
Lumens	1,178	1,106	1,063	1,010	796	815	746	1,016	966	1,016	966
Efficacy	74	69	66	63	50	51	47	64	60	64	60
CBCP	83,902	17,799	7,485	3,976	1,109	617	565	2,326	1,579	2,326	1,579
3500K											
Lumens	1,208	1,135	1,090	1,036	817	836	766	1,043	991	1,043	991
Efficacy	76	71	68	65	51	52	48	65	62	65	62
CBCP	86,068	18,258	7,678	4,079	1,138	633	580	2,394	1,620	2,394	1,620
4000K											
Lumens	1,235	1,160	1,114	1,059	835	854	782	1,066	1,013	1,066	1,013
Efficacy	77	72	70	66	52	53	49	67	63	67	63
CBCP	87,964	18,660	7,847	4,169	1,163	647	592	2,448	1,655	2,448	1,655
5000K											
Lumens	1,288	1,210	1,162	1,104	871	891	816	1,111	1,057	1,111	1,057
Efficacy	81	76	73	69	54	56	51	69	66	69	66
CBCP	91,751	19,464	8,185	4,348	1,213	674	618	2,554	1,727	2,554	1,727
6500K											
Lumens	1,292	1,213	1,166	1,107	873	894	819	1,115	1,060	1,115	1,060
Efficacy	81	76	73	69	55	56	51	70	66	70	66
CBCP	92,022	19,521	8,209	4,361	1,217	676	620	2,531	1,732	2,531	1,732

F080 QUAD MED OUTPUT (30 WATTS)

	5'	10'	15'	20'	40'	60'	80'	15' x 60'	30' x 60'	60' x 15'	60' x 30'
2200K											
Lumens	1,539	1,445	1,389	1,319	1,040	1,064	975	1,328	1,262	1,328	1,262
Efficacy	51	48	46	44	35	35	33	44	42	44	42
CBCP	109,614	23,253	9,779	5,195	1,449	806	738	3,041	2,063	3,041	2,063
2700K											
Lumens	1,965	1,845	1,773	1,684	1,328	1,359	1,245	1,695	1,612	1,695	1,612
Efficacy	65	62	59	56	44	45	41	56	54	56	54
CBCP	139,927	29,84	12,483	6,631	1,850	1,029	942	3,854	2,633	3,854	2,633
3000K											
Lumens	2,060	1,934	1,859	1,765	1,392	1,424	1,305	1,777	1,690	1,777	1,690
Efficacy	69	64	62	59	46	47	43	59	56	59	56
CBCP	146,694	31,119	13,087	6,952	1,939	1,078	988	4,082	2,761	4,082	2,761
3500K											
Lumens	2,105	1,977	1,900	1,804	1,423	1,456	1,334	1,816	1,727	1,816	1,728
Efficacy	70	66	63	60	47	49	44	61	58	61	58
CBCP	149,942	31,808	13,377	7,106	1,982	1,102	1,010	4,166	2,822	4,166	2,822
4000K											
Lumens	2,124	1,995	1,917	1,821	1,436	1,469	1,346	1,833	1,743	1,833	1,743
Efficacy	71	66	64	61	48	49	45	61	58	61	58
CBCP	151,295	32,095	13,497	7,170	2,000	1,112	1,019	4,204	2,847	4,204	2,847
5000K											
Lumens	2,261	2,123	2,040	1,938	1,528	1,564	1,432	1,951	1,855	1,951	1,855
Efficacy	75	71	68	65	51	52	48	65	62	65	62
CBCP	161,038	34,162	14,367	7,632	2,129	1,184	1,084	4,477	3,031	4,477	3,031
6500K											
Lumens	2,219	2,084	2,003	1,902	1,500	1,535	1,406	1,915	1,820	1,915	1,820
Efficacy	74	69	67	63	50	51	47	64	61	64	61
CBCP	158,061	33,531	14,101	7,491	2,090	1,162	1,064	4,394	2,975	4,394	2,975

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80 CRI

F080 QUAD HIGH OUTPUT (46 WATTS)

	5'	10'	15'	20'	40'	60'	80'	15' x 60'	30' x 60'	60' x 15'	60' x 30'
2200K											
Lumens	2,016	1,896	1,820	1,728	1,364	1,396	1,280	1,740	1,656	1,740	1,656
Efficacy	44	41	40	38	30	30	28	38	36	38	36
CBCP	143,716	30,484	12,820	6,812	1,900	1,056	968	3,991	2,704	3,991	2,704
2700K											
Lumens	2,748	2,580	2,480	2,356	1,856	1,900	1,740	2,372	926	2,372	2,252
Efficacy	60	56	54	51	40	41	38	52	20	52	49
CBCP	195,682	41,512	17,456	9,272	2,588	1,440	1,316	5,382	3,684	5,382	3,684
3000K											
Lumens	2,836	2,664	2,560	2,428	1,916	1,960	1,796	2,444	2,324	2,444	2,324
Efficacy	62	58	56	53	42	43	39	53	51	53	51
CBCP	201,908	42,832	18,012	9,568	2,668	1,484	1,360	5,610	3,800	5,610	3,800
3500K											
Lumens	2,932	2,756	2,648	2,516	1,984	2,028	1,860	2,532	2,408	2,532	2,408
Efficacy	64	60	58	55	43	44	40	55	52	55	52
CBCP	208,944	44,325	18,640	9,902	2,762	1,536	1,407	5,747	3,932	5,747	3,932
4000K											
Lumens	2,980	2,796	2,688	2,552	2,012	2,060	1,888	2,572	2,444	2,572	2,444
Efficacy	65	61	58	55	44	45	41	56	53	56	53
CBCP	212,192	45,012	18,932	10,056	2,804	1,560	1,428	5,891	1,996	5,891	1,996
5000K											
Lumens	3,132	2,941	2,826	2,684	2,117	2,165	1,984	2,701	2,568	2,701	2,569
Efficacy	68	64	61	58	46	47	43	59	56	59	56
CBCP	223,018	283,863	19,896	10,569	2,948	1,639	1,502	6,195	4,197	6,195	4,197
6500K											
Lumens	3,108	2,920	2,804	2,664	2,100	2,148	1,968	2,680	2,548	2,680	2,548
Efficacy	68	63	61	58	46	47	43	58	55	58	55
CBCP	221,394	46,966	19,751	10,492	2,927	1,627	1,491	6,157	4,167	6,157	4,167

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 LOS ANGELES CA, 90012

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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

90 CRI

F080 SINGLE LOW OUTPUT (4 WATTS)

	5"	10"	15"	20"	40"	60"	80"	15" x 60"	30" x 60"	60" x 15"	60" x 30"
2700K											
Lumens	226	212	204	194	153	173	146	195	185	195	185
Efficacy	56	53	51	48	38	43	37	49	46	49	46
CBCP	16,068	3,411	1,435	763	213	136	84	447	303	447	303
3000K											
Lumens	233	219	211	200	158	178	151	202	192	202	192
Efficacy	58	55	53	50	40	45	38	50	48	50	48
CBCP	16,615	3,527	1,484	789	221	141	86	462	313	462	313
3500K											
Lumens	252	236	227	216	171	192	163	217	207	217	207
Efficacy	63	59	57	54	43	48	41	54	52	54	52
CBCP	17,914	3,803	1,600	851	238	152	93	498	338	498	338
4000K											
Lumens	260	244	235	223	177	199	168	225	214	225	214
Efficacy	65	61	59	56	44	50	42	56	53	56	53
CBCP	18,530	3,934	1,655	880	246	157	96	515	350	515	350

F080 SINGLE MED OUTPUT (7.5 WATTS)

	5"	10"	15"	20"	40"	60"	80"	15" x 60"	30" x 60"	60" x 15"	60" x 30"
2700K											
Lumens	367	345	331	315	249	280	237	317	302	317	302
Efficacy	49	46	44	42	33	37	32	42	40	42	40
CBCP	26,119	5,545	2,333	1,240	347	221	136	726	493	726	493
3000K											
Lumens	403	379	364	346	274	308	261	348	332	348	332
Efficacy	54	51	49	46	37	41	35	46	44	46	44
CBCP	28,718	6,096	2,565	1,364	381	243	149	798	542	798	542
3500K											
Lumens	436	410	394	374	296	333	282	377	358	377	358
Efficacy	58	55	52	50	39	44	38	50	48	50	48
CBCP	31,042	6,590	2,772	1,474	412	263	162	863	586	863	586
4000K											
Lumens	456	429	412	392	310	349	295	394	375	394	375
Efficacy	61	57	55	52	41	46	39	53	50	53	50
CBCP	32,478	6,895	2,901	1,542	431	275	169	903	613	903	613

F080 SINGLE HIGH OUTPUT (11.5 WATTS)

	5"	10"	15"	20"	40"	60"	80"	15" x 60"	30" x 60"	60" x 15"	60" x 30"
2700K											
Lumens	531	499	480	456	361	406	344	459	436	459	436
Efficacy	46	43	42	40	31	35	30	40	38	40	38
CBCP	37,812	8,027	3,377	1,795	502	320	197	1,051	713	1,051	713
3000K											
Lumens	572	538	517	491	389	438	371	494	470	494	470
Efficacy	50	47	45	43	34	38	32	43	41	43	41
CBCP	40,752	8,651	3,640	1,935	541	345	212	1,133	769	1,133	769
3500K											
Lumens	617	580	558	530	419	472	400	533	508	533	508
Efficacy	54	50	48	46	36	41	35	46	44	46	44
CBCP	43,965	9,333	3,927	2,088	584	372	229	1,222	829	1,222	829
4000K											
Lumens	656	616	592	563	445	501	425	567	539	567	539
Efficacy	57	54	52	49	39	44	37	49	47	49	47
CBCP	46,700	9,914	4,171	2,218	620	395	243	1,298	881	1,298	881

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90 CRI

F080 DUO LOW OUTPUT (8 WATTS)

	5'	10'	15'	20'	40'	60'	80'	15' x 60'	30' x 60'	60' x 15'	60' x 30'
2700K											
Lumens	451	424	408	387	307	345	292	390	371	390	371
Efficacy	56	53	51	48	38	43	37	49	46	49	46
CBCP	32,136	6,822	2,870	1,526	427	272	167	893	606	893	606
3000K											
Lumens	467	438	421	401	317	357	302	403	384	403	384
Efficacy	58	55	53	50	40	45	38	50	48	50	48
CBCP	33,230	7,054	2,968	1,578	441	281	173	924	627	924	627
3500K											
Lumens	503	473	454	432	342	385	326	435	414	435	414
Efficacy	63	59	57	54	43	48	41	54	52	54	52
CBCP	35,829	7,606	3,200	1,701	476	303	186	996	676	996	676
4000K											
Lumens	520	489	470	447	353	398	337	450	428	450	428
Efficacy	65	61	59	56	44	50	42	56	53	56	53
CBCP	37,059	7,867	3,310	1,760	492	314	193	1,030	699	1,030	699

F080 DUO MED OUTPUT (15 WATTS)

	5'	10'	15'	20'	40'	60'	80'	15' x 60'	30' x 60'	60' x 15'	60' x 30'
2700K											
Lumens	733	689	663	630	498	561	475	634	603	634	603
Efficacy	49	46	44	42	33	37	32	42	40	42	40
CBCP	52,239	11,089	4,666	2,481	694	442	272	1,452	985	1,452	985
3000K											
Lumens	806	758	728	692	548	617	522	697	663	697	663
Efficacy	54	51	49	46	37	41	35	46	44	46	44
CBCP	57,435	12,192	5,130	2,727	763	486	299	1,596	1,083	1,596	1,083
3500K											
Lumens	872	819	787	748	592	667	565	753	717	753	717
Efficacy	58	55	52	50	39	44	38	50	48	50	48
CBCP	62,085	13,179	5,545	2,948	824	526	323	1,726	1,171	1,726	1,171
4000K											
Lumens	912	857	824	783	620	697	591	788	750	788	750
Efficacy	61	57	55	52	41	46	39	53	50	53	50
CBCP	64,957	13,789	5,801	3,084	862	550	338	1,805	1,225	1,805	1,225

F080 DUO HIGH OUTPUT (23 WATTS)

	5'	10'	15'	20'	40'	60'	80'	15' x 60'	30' x 60'	60' x 15'	60' x 30'
2700K											
Lumens	1,062	998	959	912	721	812	688	918	873	918	873
Efficacy	46	43	42	40	31	35	30	40	38	40	38
CBCP	75,623	16,053	6,754	3,591	1,004	640	394	2,102	1,426	2,102	1,426
3000K											
Lumens	1,144	1,075	1,034	983	777	875	741	989	941	989	941
Efficacy	50	47	45	43	34	38	32	43	41	43	41
CBCP	81,503	17,302	7,279	3,870	1,082	690	424	2,265	1,537	2,265	1,537
3500K											
Lumens	1,235	1,160	1,115	1,060	839	944	800	1,067	1,015	1,067	1,015
Efficacy	54	50	48	46	36	41	35	46	44	46	44
CBCP	87,931	18,666	7,853	4,175	1,168	745	458	2,444	1,659	2,444	1,659
4000K											
Lumens	1,311	1,232	1,185	1,126	891	1,003	849	1,133	1,078	1,133	1,078
Efficacy	57	54	52	49	39	44	37	49	47	49	47
CBCP	93,401	19,827	8,342	4,435	1,240	791	486	2,596	1,762	2,596	1,762

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F080 QUAD LOW OUTPUT (16 WATTS)

	5"	10"	15"	20"	40"	60"	80"	15' x 60"	30' x 60"	60' x 15'	60' x 30"
2700K											
Lumens	902	848	815	775	613	690	584	780	742	780	742
Efficacy	56	53	51	48	38	43	37	49	46	49	46
CBCP	64,273	13,644	5,740	3,052	853	544	335	1,786	1,212	1,786	1,212
3000K											
Lumens	933	877	843	801	634	714	604	806	767	806	767
Efficacy	58	55	53	50	40	45	38	50	48	50	48
CBCP	66,461	14,108	5,936	3,156	882	563	346	1,847	1,254	1,847	1,254
3500K											
Lumens	1,006	946	909	864	684	769	652	869	827	869	827
Efficacy	63	59	57	54	43	48	41	54	52	54	52
CBCP	71,657	15,212	6,400	3,403	951	607	373	1,992	1,352	1,992	1,352
4000K											
Lumens	1,041	978	940	893	707	796	674	899	856	899	856
Efficacy	65	61	59	56	44	50	42	56	53	56	53
CBCP	74,119	15,734	6,620	3,520	984	628	386	2,060	1,398	2,060	1,398

F080 QUAD MED OUTPUT (30 WATTS)

	5"	10"	15"	20"	40"	60"	80"	15' x 60"	30' x 60"	60' x 15'	60' x 30"
2700K											
Lumens	1,467	1,379	1,325	1,259	997	1,122	950	1,268	1,206	1,268	1,206
Efficacy	49	46	44	42	33	37	32	42	40	42	40
CBCP	104,478	22,179	9,331	4,961	1,387	885	544	2,904	1,971	2,904	1,971
3000K											
Lumens	1,613	1,516	1,457	1,385	1,096	1,233	1,044	1,394	1,326	1,394	1,326
Efficacy	54	51	49	46	37	41	35	46	44	46	44
CBCP	114,871	24,385	10,259	5,455	1,525	973	598	3,193	2,167	3,193	2,167
3500K											
Lumens	1,743	1,638	1,575	1,497	1,184	1,333	1,129	1,507	1,433	1,507	1,433
Efficacy	58	55	52	50	39	44	38	50	48	50	48
CBCP	124,170	26,359	11,090	5,896	1,649	1,051	646	3,451	2,342	3,451	2,342
4000K											
Lumens	1,824	1,714	1,648	1,566	1,239	1,395	1,181	1,576	1,500	1,576	1,500
Efficacy	61	57	55	52	41	46	39	53	50	53	50
CBCP	129,913	27,578	11,603	6,169	1,725	1,100	676	3,611	2,451	3,611	2,451

F080 QUAD HIGH OUTPUT (46 WATTS)

	5"	10"	15"	20"	40"	60"	80"	15' x 60"	30' x 60"	60' x 15'	60' x 30"
2700K											
Lumens	2,124	1,996	1,918	1,823	1,443	1,624	1,375	1,835	1,746	1,835	1,746
Efficacy	46	43	42	40	31	35	30	40	38	40	38
CBCP	151,246	32,107	13,508	7,182	2,008	1,281	787	4,204	2,853	4,204	2,853
3000K											
Lumens	2,289	2,151	2,068	1,965	1,555	1,750	1,482	1,978	1,882	1,978	1,882
Efficacy	50	47	45	43	34	38	32	43	41	43	41
CBCP	163,007	34,603	14,559	7,740	2,164	1,380	848	4,530	3,075	4,530	3,075
3500K											
Lumens	2,469	2,320	2,231	2,120	1,677	1,888	1,599	2,134	2,030	2,134	2,030
Efficacy	54	50	48	46	36	41	35	46	44	46	44
CBCP	175,862	37,332	15,707	8,351	2,335	1,489	915	4,888	3,317	4,888	3,317
4000K											
Lumens	2,623	2,465	2,369	2,252	1,782	2,006	1,699	2,267	2,156	2,267	2,156
Efficacy	57	54	52	49	39	44	37	49	47	49	47
CBCP	186,802	39,654	16,684	8,870	2,480	1,582	972	5,192	3,524	5,192	3,524

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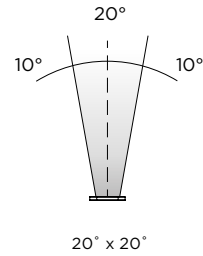
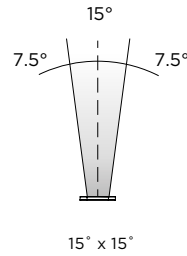
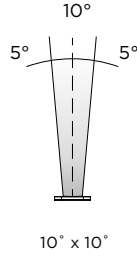
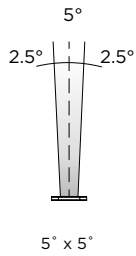
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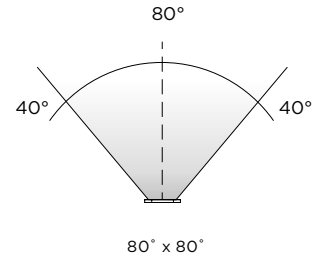
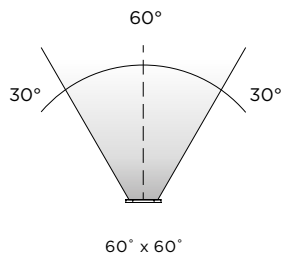
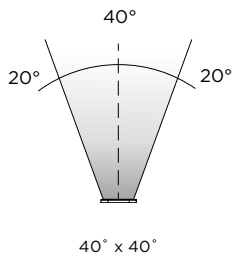
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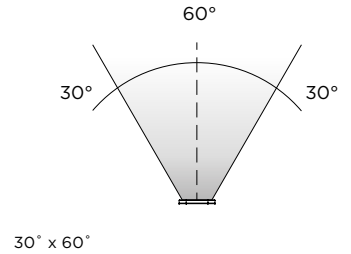
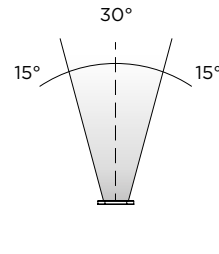
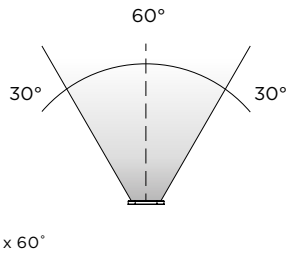
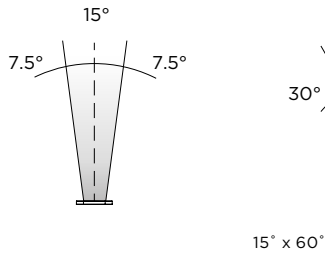
Spot/Accent Light Distribution



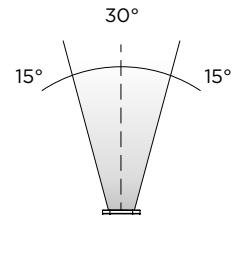
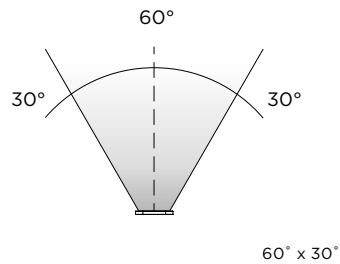
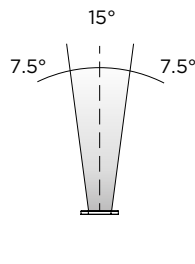
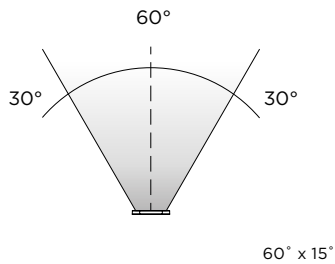
Flood Light Distribution



Horizontal Elliptical Light Distribution



Vertical Elliptical Light Distribution



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