

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

F080 SINGLE LOW OUTPUT (4 WATTS)

	5'	10'	15'	20'	40'	60'	80'	15'x60'	30'x60'	60'x15'	60'x 30'
2200K											
Lumens/LF	228	214	206	195	154	158	144	197	187	197	187
Efficacy	57	54	51	49	39	39	36	49	47	49	47
CBCP	16,239	3,445	1,449	770	215	119	109	451	306	447	306
2700K											
Lumens/LF	281	264	254	241	190	194	178	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	556	377	552	377
3000K											
Lumens/LF	295	277	266	252	199	204	187	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	578	395
3500K											
Lumens/LF	302	284	273	259	204	209	191	261	248	261	248
Efficacy	76	71	68	65	51	52	48	65	62	65	62
CBCP	21,517	4,565	1,920	1,020	284	158	145	597	405	593	405
4000K											
Lumens/LF	309	290	279	265	209	214	196	266	253	266	253
Efficacy	76	71	68	65	51	52	48	65	62	65	62
CBCP	21,991	4,665	1,962	1,042	291	162	148	610	414	606	414
5000K											
Lumens/LF	322	302	291	276	218	223	204	278	264	278	264
Efficacy	81	76	73	69	54	56	51	69	66	69	66
CBCP	22,938	4,866	2,046	1,087	303	169	154	636	432	632	432
6500K											
Lumens/LF	323	303	291	277	218	223	205	279	265	279	265
Efficacy	81	76	73	69	55	56	51	70	66	70	66
CBCP	23,005	4,880	2,052	1,090	304	169	155	638	433	634	433

F080 SINGLE MED OUTPUT (7.5 WATTS)

	5'	10'	15'	20'	40'	60'	80'	15'x60'	30'x60'	60'x15'	60'x 30'
2200K											
Lumens/LF	385	361	347	330	260	266	244	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	755	516
2700K											
Lumens/LF	491	461	443	421	332	340	311	424	403	424	403
Efficacy	65	62	59	56	44	45	41	56	54	56	54
CBCP	34,982	7,421	3,121	1,658	462	257	236	971	658	964	658
3000K											
Lumens/LF	515	484	465	441	348	356	326	444	422	444	422
Efficacy	69	64	62	59	46	47	43	59	56	59	56
CBCP	36,673	7,780	3,272	1,738	485	270	247	1,018	690	1,010	690
3500K											
Lumens/LF	526	494	475	451	356	364	333	454	432	454	432
Efficacy	70	66	63	60	47	49	44	61	58	61	58
CBCP	37,485	7,952	3,344	1,777	496	276	252	1,040	705	1,033	705
4000K											
Lumens/LF	531	499	479	455	359	367	336	458	436	458	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	1,050	712	1,042	712
5000K											
Lumens/LF	565	531	510	484	382	391	358	488	464	488	464
Efficacy	75	71	68	65	51	52	48	65	62	65	62
CBCP	40,260	8,541	3,592	1,908	532	296	271	1,117	758	1,109	758
6500K											
Lumens/LF	555	521	501	476	375	384	351	479	455	479	455
Efficacy	74	69	67	63	50	51	47	64	61	64	61
CBCP	39,515	8,383	3,525	1,873	522	290	266	1,096	744	1,089	744

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F080 SINGLE HIGH OUTPUT (11.5 WATTS)

	5'	10'	15'	20'	40'	60'	80'	15'x60'	30'x60'	60'x15'	60'x 30'
2200K											
Lumens/LF	504	474	455	432	341	349	320	435	414	435	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	997	676	990	676
2700K											
Lumens/LF	687	645	620	589	464	475	435	593	563	593	563
Efficacy	60	56	54	51	40	41	38	52	49	52	49
CBCP	48,920	10,378	4,364	2,318	647	360	329	1,357	921	1,348	921
3000K											
Lumens/LF	709	666	640	607	479	490	449	611	581	611	581
Efficacy	62	58	56	53	42	43	39	53	51	53	51
CBCP	50,477	10,708	4,503	2,392	667	371	340	1,401	950	1,391	950
3500K											
Lumens/LF	733	689	662	629	496	507	465	633	602	633	602
Efficacy	64	60	58	55	43	44	40	55	52	55	52
CBCP	52,236	11,081	4,660	2,476	691	384	352	1,449	983	1,439	983
4000K											
Lumens/LF	745	699	672	638	503	515	472	643	611	643	611
Efficacy	65	61	58	55	44	45	41	56	53	56	53
CBCP	53,048	11,253	4,733	2,514	701	390	357	1,472	998	1,461	998
5000K											
Lumens/LF	783	735	706	671	529	541	496	675	642	675	642
Efficacy	68	64	61	58	46	47	43	59	56	59	56
CBCP	55,754	11,828	4,974	2,642	737	410	375	1,547	1,049	1,536	1,049
6500K											
Lumens/LF	777	730	701	666	525	537	492	670	637	670	637
Efficacy	68	63	61	58	46	47	43	58	55	58	55
CBCP	55,348	11,742	4,938	2,623	732	407	373	1,536	1,042	1,525	1,042

F080 DUO LOW OUTPUT (8 WATTS)

	5'	10'	15'	20'	40'	60'	80'	15'x60'	30'x60'	60'x15'	60'x 30'
2200K											
Lumens/LF	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	901	611	895	611
2700K											
Lumens/LF	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	1,111	754	1,104	754
3000K											
Lumens/LF	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	1,164	790	1,156	790
3500K											
Lumens/LF	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	1,194	810	1,186	810
4000K											
Lumens/LF	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	1,220	828	1,212	828
5000K											
Lumens/LF	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	1,273	863	1,264	863
6500K											
Lumens/LF	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	1,277	866	1,268	866

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F080 DUO MED OUTPUT (15 WATTS)

	5°	10°	15°	20°	40°	60°	80°	15°x60°	30°x60°	60°x15°	60°x 30°
2200K											
Lumens/LF	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	1,521	1,031	1,510	1,031
2700K											
Lumens/LF	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	1,941	1,317	1,927	1,317
3000K											
Lumens/LF	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	2,035	1,380	2,021	1,380
3500K											
Lumens/LF	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	2,080	1,411	2,065	1,411
4000K											
Lumens/LF	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	2,099	1,424	2,084	1,424
5000K											
Lumens/LF	1,131	1062	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	2,234	1,515	2,218	1,515
6500K											
Lumens/LF	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	2,193	1,487	2,177	1,487

F080 DUO HIGH OUTPUT (23 WATTS)

	5°	10°	15°	20°	40°	60°	80°	15°x60°	30°x60°	60°x15°	60°x30°
2200K											
Lumens/LF	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	1,994	1,352	1,980	1,352
2700K											
Lumens/LF	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	2,714	1,842	2,696	1,842
3000K											
Lumens/LF	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	2,802	1,900	2,782	1,900
3500K											
Lumens/LF	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	2,899	1,966	2,878	1,966
4000K											
Lumens/LF	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	2,944	1,996	2,922	1,996
5000K											
Lumens/LF	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	3,094	2,099	3,072	2,099
6500K											
Lumens/LF	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	3,072	2,083	3,050	2,083

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F080 QUAD LOW OUTPUT (16 WATTS)

	5°	10°	15°	20°	40°	60°	80°	15°x60°	30°x60°	60°x15°	60°x 30°
2200K											
Lumens/LF	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	1,802	1,223	1,790	1,223
2700K											
Lumens/LF	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	2,223	1,508	2,207	1,508
3000K											
Lumens/LF	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	2,328	1,579	2,311	1,579
3500K											
Lumens/LF	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	2,388	1,620	2,371	1,620
4000K											
Lumens/LF	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	2,441	1,655	2,423	1,655
5000K											
Lumens/LF	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	2,546	1,727	2,528	1,727
6500K											
Lumens/LF	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	2,553	1,732	2,535	1,732

F080 QUAD MED OUTPUT (30 WATTS)

	5°	10°	15°	20°	40°	60°	80°	15°x60°	30°x60°	60°x15°	60°x 30°
2200K											
Lumens/LF	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	3,020	2,063
2700K											
Lumens/LF	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	3,883	2,633	3,855	2,633
3000K											
Lumens/LF	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	4,070	2,761	4,041	2,761
3500K											
Lumens/LF	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	4,160	2,822	4,131	2,822
4000K											
Lumens/LF	2,124	19,95	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	4,198	2,847	4,168	2,847
5000K											
Lumens/LF	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	4,468	3,031	4,437	3,031
6500K											
Lumens/LF	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	4,386	2,975	4,354	2,975

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DATE	PROJECT	FIRM	TYPE
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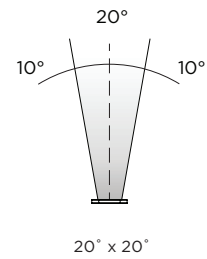
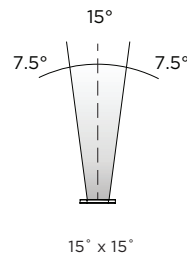
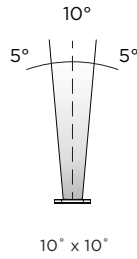
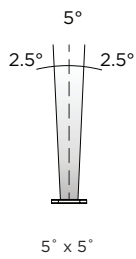
F080 QUAD HIGH OUTPUT (46 WATTS)

	5'	10'	15'	20'	40'	60'	80'	15'x60'	30'x60'	60'x15'	60'x30'
2200K											
Lumens/LF	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	3,988	2,704	3,960	2,704
2700K											
Lumens/LF	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	5,428	3,684	5,392	3,684
3000K											
Lumens/LF	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	5,604	3,800	5,564	3,800
3500K											
Lumens/LF	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	5,798	3,932	5,756	3,932
4000K											
Lumens/LF	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	5,888	1,996	2,922	1,996
5000K											
Lumens/LF	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	6,188	4,197	6,144	4,197
6500K											
Lumens/LF	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	6,143	4,167	6,099	4,167

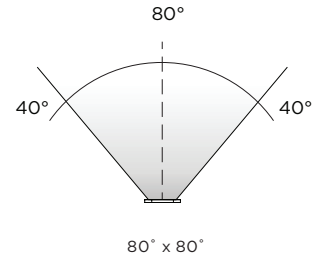
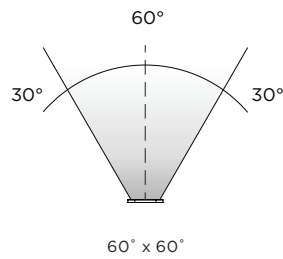
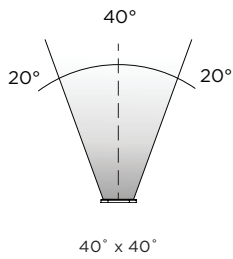
NOTE: Information on this Spec Sheet is subject to change, please visit the website for most updated information.

DATE	PROJECT	FIRM	TYPE
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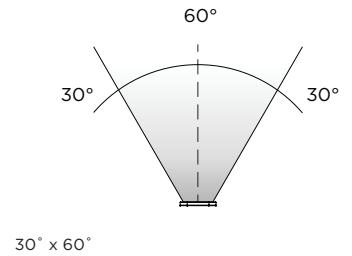
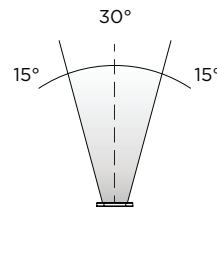
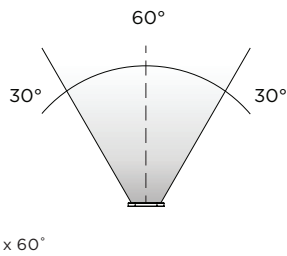
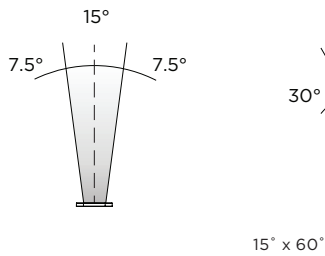
Spot/Accent Light Distribution



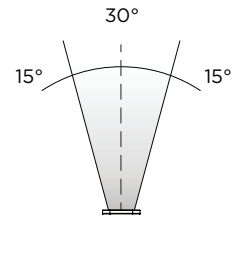
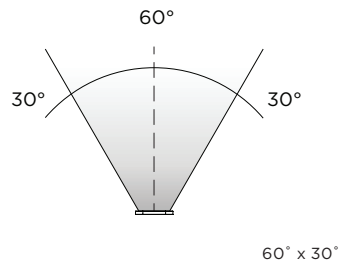
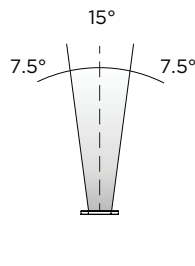
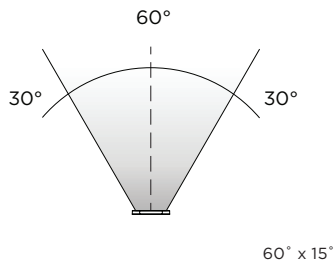
Flood Light Distribution



Horizontal Elliptical Light Distribution



Vertical Elliptical Light Distribution



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