

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

F170 SINGLE LOW OUTPUT (13 WATTS)

	5'	10'	15'	20'	40'	60'	80'	15'x60'	30'x60'	60'x15'	60'x30'
2200K											
Lumens/LF	1,022	993	956	926	702	686	668	873	866	873	866
Efficacy	79	76	74	71	54	53	51	67	67	67	67
CBCP	58,920	14,649	9,036	3,932	1,021	520	506	1,687	1,510	1,687	1,510
2700K											
Lumens/LF	1,180	1,146	1,103	1,069	810	792	771	1,008	999	1,008	999
Efficacy	91	88	85	82	62	61	59	78	77	78	77
CBCP	68,009	16,909	10,430	4,539	1,179	600	584	1,947	1,743	1,947	1,743
3000K											
Lumens/LF	1,198	1,164	1,120	1,085	822	805	783	1,023	1,014	1,023	1,014
Efficacy	92	90	86	83	63	62	60	79	78	79	78
CBCP	69,050	17,167	10,590	4,608	1,197	609	593	1,977	1,770	1,977	1,770
3500K											
Lumens/LF	1,293	1,256	1,209	1,171	888	868	845	1,104	1,095	1,104	1,095
Efficacy	99	97	93	90	68	67	65	85	84	85	84
CBCP	74,526	18,529	11,430	4,973	1,292	657	640	2,134	1,910	2,134	1,910
4000K											
Lumens/LF	1,321	1,284	1,236	1,197	907	887	864	1,129	1,119	1,129	1,119
Efficacy	102	99	95	92	70	68	66	86	86	87	86
CBCP	76,168	18,937	11,682	5,083	1,321	672	654	2,181	1,952	2,181	1,952
5000K											
Lumens/LF	1,362	1,323	1,274	1,234	935	915	890	1,164	1,154	1,164	1,154
Efficacy	105	102	98	95	72	70	68	90	89	90	89
CBCP	78,523	19,523	12,043	5,240	1,361	693	674	2,248	2,013	2,248	2,013
6500K											
Lumens/LF	1,260	1,224	1,178	1,141	865	846	823	1,076	1,067	1,076	1,067
Efficacy	97	94	91	88	67	65	63	83	82	83	82
CBCP	72,609	18,052	11,136	4,846	1,259	640	623	2,079	1,861	2,079	1,861

F170 SINGLE MED OUTPUT (25 WATTS)

	5'	10'	15'	20'	40'	60'	80'	15'x60'	30'x60'	60'x15'	60'x30'
2200K											
Lumens/LF	1,771	1,720	1,656	1,604	1,216	1,189	1,157	1,512	1,500	1,512	1,500
Efficacy	71	69	66	64	49	48	46	60	60	60	60
CBCP	102,069	25,377	15,654	6,811	1,770	900	876	2,922	2,616	2,922	2,616
2700K											
Lumens/LF	2,072	2,013	2,013	1,877	1,422	1,391	1,354	1,770	1,755	1,770	1,755
Efficacy	83	81	81	75	57	56	54	71	70	71	70
CBCP	119,427	29,693	18,316	7,970	2,070	1,053	1,025	3,419	3,061	3,419	3,061
3000K											
Lumens/LF	2,100	2,039	1,963	1,902	1,441	1,410	1,372	1,793	1,778	1,793	1,778
Efficacy	84	82	79	76	58	56	55	72	71	72	71
CBCP	121,015	30,087	18,560	8,076	2,098	1,067	1,039	3,465	3,102	3,465	3,102
3500K											
Lumens/LF	2,152	2,090	2,012	1,949	1,477	1,445	1,406	1,838	1,822	1,838	1,822
Efficacy	86	84	80	78	59	58	56	74	73	74	73
CBCP	124,027	30,836	19,021	8,277	2,150	1,094	1,065	3,551	3,179	3,551	3,179
4000K											
Lumens/LF	2,239	2,175	2,094	2,028	1,537	1,504	1,463	1,912	1,896	1,912	1,896
Efficacy	90	87	84	81	61	60	59	76	76	76	76
CBCP	129,065	32,089	19,794	8,613	2,238	1,138	1,108	3,695	3,308	3,695	3,308
5000K											
Lumens/LF	2,358	2,290	2,205	2,136	1,619	1,584	1,541	2,014	1,997	2,014	1,997
Efficacy	94	92	88	85	65	63	62	81	80	81	80
CBCP	135,909	33,790	20,844	9,070	2,356	1,199	1,167	3,891	3,484	3,891	3,484
6500K											
Lumens/LF	2,199	2,36	2,057	1,992	1,510	1,477	1,437	1,878	1,862	1,878	1,862
Efficacy	88	85	82	80	60	59	57	75	74	75	74
CBCP	126,765	31,517	19,441	8,460	2,198	1,118	1,088	3,629	3,249	3,629	3,249

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F170 SINGLE HIGH OUTPUT (38 WATTS)

	5'	10'	15'	20'	40'	60'	80'	15'x60'	30'x60'	60'x15'	60'x30'
2200K											
Lumens/LF	2,283	2,218	2,135	2,068	1,567	1,533	1,492	1,950	1,933	1,950	1,933
Efficacy	60	58	56	54	41	40	39	51	51	51	51
CBCP	131,584	32,715	20,180	8,781	2,281	1,161	1,129	3,767	3,373	3,767	3,373
2700K											
Lumens/LF	2,710	2,633	2,535	2,455	1,860	1,820	1,771	2,315	2,295	2,315	2,295
Efficacy	71	69	67	65	49	48	47	61	60	61	60
CBCP	156,225	38,841	23,959	10,426	2,708	1,378	1,341	4,473	4,004	4,473	4,004
3000K											
Lumens/LF	2,784	2,705	2,604	2,522	1,911	1,870	1,820	2,378	2,358	2,378	2,358
Efficacy	73	71	69	66	50	49	48	63	62	63	62
CBCP	160,496	39,903	24,614	10,711	2,782	1,416	1,378	4,595	4,114	4,595	4,114
3500K											
Lumens/LF	2,896	2,813	2,708	2,623	1,988	1,945	1,892	2,473	2,452	2,473	2,452
Efficacy	76	74	71	69	52	51	50	65	65	65	65
CBCP	166,902	41,496	25,597	11,138	2,894	1,472	1,433	4,778	4,278	4,778	4,278
4000K											
Lumens/LF	2,907	2,824	2,719	2,633	1,995	1,952	1,900	2,483	2,462	2,483	2,462
Efficacy	77	74	72	69	53	51	50	65	65	65	65
CBCP	167,560	41,659	25,698	11,182	2,905	1,478	1,438	4,797	4,295	4,797	4,295
5000K											
Lumens/LF	3,013	2,927	2,818	2,730	2,068	2,024	1,969	2,574	2,552	2,574	2,552
Efficacy	79	77	74	72	54	53	52	68	67	68	67
CBCP	173,692	43,184	26,638	11,591	3,011	1,532	1,491	4,973	4,452	4,973	4,452
6500K											
Lumens/LF	2,889	2,806	2,702	2,617	1,983	1,940	1,888	2,467	2,446	2,467	2,446
Efficacy	76	74	71	69	52	51	50	65	64	65	64
CBCP	166,519	41,401	25,538	11,113	2,887	1,469	1,429	4,767	4,268	4,767	4,268

F170 DUO LOW OUTPUT (36 WATTS)

	5'	10'	15'	20'	40'	60'	80'	15'x60'	30'x60'	60'x15'	60'x30'
2200K											
Lumens/LF	2,044	1,986	1,912	1,852	1,403	1,373	1,336	1,746	1,731	1,746	1,731
Efficacy	57	55	53	51	39	38	37	49	48	49	48
CBCP	117,839	29,298	18,072	7,864	2,043	1,039	1,011	3,374	3,020	3,374	3,020
2700K											
Lumens/LF	2,360	2,292	2,207	2,138	1,620	1,585	1,542	2,015	1,998	2,015	1,998
Efficacy	66	64	61	59	45	44	43	56	56	56	56
CBCP	136,019	33,818	20,861	9,077	2,358	1,200	1,167	3,894	3,486	3,894	3,486
3000K											
Lumens/LF	2,396	2,327	2,241	2,170	1,645	1,609	1,566	2,046	2,029	2,046	2,029
Efficacy	67	65	62	60	46	45	43	57	56	57	56
CBCP	138,100	34,335	21,180	9,216	2,394	1,218	1,185	3,954	3,540	3,954	3,540
3500K											
Lumens/LF	2,586	2,512	2,418	2,342	1,775	1,737	1,690	2,209	2,190	2,209	2,190
Efficacy	72	70	67	65	49	48	47	61	61	61	61
CBCP	149,051	37,058	22,859	9,947	2,584	1,315	1,279	4,267	3,821	4,267	3,821
4000K											
Lumens/LF	2,643	2,567	2,472	2,394	1,814	1,775	1,727	2,257	2,238	2,257	2,238
Efficacy	73	71	69	67	50	49	48	63	62	63	62
CBCP	152,337	37,875	23,363	10,166	2,641	1,344	1,308	4,361	3,905	4,361	3,905
5000K											
Lumens/LF	2,725	2,647	2,548	2,468	1,870	1,830	1,780	2,327	2,307	2,327	2,307
Efficacy	76	74	71	69	52	51	49	65	64	65	64
CBCP	157,046	39,045	24,085	10,480	2,723	1,385	1,348	4,496	4,025	4,496	4,025
6500K											
Lumens/LF	2,519	2,447	2,356	2,282	1,729	1,692	1,646	2,152	2,134	2,152	2,134
Efficacy	70	68	65	63	48	47	46	60	59	60	59
CBCP	145,218	36,105	22,271	9,691	2,518	1,281	1,246	4,157	3,722	4,157	3,722

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F170 DUO MED OUTPUT (50 WATTS)

	5°	10°	15°	20°	40°	60°	80°	15°x60°	30°x60°	60°x15°	60°x30°
2200K											
Lumens/LF	3542	3440	3312	3208	2431	2378	2314	3025	2999	3025	2999
Efficacy	71	69	66	64	49	48	46	60	60	60	60
CBCP	204138	50754	31308	13623	3539	1801	1752	5844	5233	5844	5233
2700K											
Lumens/LF	4144	4025	4025	3754	2844	2783	2708	3539	3509	3539	3509
Efficacy	83	81	81	75	57	56	54	71	70	71	70
CBCP	238854	59385	36632	15940	4141	2107	2050	6838	6122	6838	6122
3000K											
Lumens/LF	4199	4079	3927	3804	2882	2820	2744	3586	3556	3586	3556
Efficacy	84	82	79	76	58	56	55	72	71	72	71
CBCP	242030	60175	37119	16152	4196	2135	2077	6929	6204	6929	6204
3500K											
Lumens/LF	4304	4180	4025	3898	2954	2890	2812	3676	3644	3676	3644
Efficacy	86	84	80	78	59	58	56	74	73	74	73
CBCP	248054	61672	38043	16554	4300	2188	2129	7102	6358	7102	6358
4000K											
Lumens/LF	4478	4350	4188	4057	3074	3008	2926	3825	3792	3825	3792
Efficacy	90	87	84	81	61	60	59	76	76	76	76
CBCP	258129	64177	39588	17226	4475	2277	2216	7390	6616	7390	6616
5000K											
Lumens/LF	4716	4581	4410	4272	3237	3167	3082	4028	3993	4028	3993
Efficacy	94	92	88	85	65	63	62	81	80	81	80
CBCP	271819	67581	41688	18140	4712	2398	2333	7782	6967	7782	6967
6500K											
Lumens/LF	4399	4273	4113	3984	3019	2954	2874	3757	3725	3757	3725
Efficacy	88	85	82	80	60	59	57	75	74	75	74
CBCP	253530	63034	38883	16919	4395	2236	2176	7258	6499	7258	6499

F170 DUO HIGH OUTPUT (76 WATTS)

	5°	10°	15°	20°	40°	60°	80°	15°x60°	30°x60°	60°x15°	60°x30°
2200K											
Lumens/LF	4,566	4,436	4,270	4,136	3,134	3,066	2,984	3,900	3,866	3,900	3,866
Efficacy	60	58	56	54	41	40	39	51	51	51	51
CBCP	26,3168	65,430	40,360	17,562	4,562	2,322	2,258	7,534	6,746	7,534	6,746
2700K											
Lumens/LF	5,421	5,266	5,069	4,910	3,721	3,640	3,542	4,630	4,590	4,630	4,590
Efficacy	71	69	67	65	49	48	47	61	60	61	60
CBCP	312,449	77,682	47,919	20,851	5,417	2,756	2,682	8,945	8,009	8,945	8,009
3000K											
Lumens/LF	5,568	5,410	5,208	5,045	3,823	3,740	3,639	4,756	4,716	4,756	4,716
Efficacy	73	71	69	66	50	49	48	63	62	63	62
CBCP	320,992	79,806	49,228	21,422	5,564	2,832	2,756	9,190	8,228	9,190	8,228
3500K											
Lumens/LF	5,791	5,626	5,416	5,246	3,975	3,889	3,784	4,946	4,904	4,946	4,904
Efficacy	76	74	71	69	52	51	50	65	65	65	65
CBCP	333,805	82,992	51,194	22,276	5,787	2,944	2,865	9,557	8,556	9,557	8,556
4000K											
Lumens/LF	5,814	5,648	5,437	5,267	3,991	3,905	3,799	4,966	4,923	4,966	4,923
Efficacy	77	74	72	69	53	51	50	65	65	65	65
CBCP	335,119	83,319	51,396	22,364	5,810	2,956	2,876	9,594	8,590	9,594	8,590
5000K											
Lumens/LF	6,027	5,854	5,36	5,459	4,137	4,047	3,938	5,147	5,104	5,147	5,104
Efficacy	79	77	74	72	54	53	52	68	67	68	67
CBCP	347,385	86,368	53,277	23,182	6,023	3,064	2,982	9,945	8,904	9,945	8,904
6500K											
Lumens/LF	5,778	5,613	5,403	5,234	3,966	3,880	3,776	4,935	4,893	4,935	4,893
Efficacy	76	74	71	69	52	51	50	65	64	65	64
CBCP	333,038	82,801	51,077	22,225	5,774	2,938	2,858	9,535	8,537	9,535	8,537

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DATE	PROJECT	FIRM	TYPE
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F170 QUAD LOW OUTPUT (52 WATTS)

	5'	10'	15'	20'	40'	60'	80'	15'x60'	30'x60'	60'x15'	60'x30'
2200K											
Lumens/LF	4,089	3,972	3,824	3,704	2,807	2,746	2,672	3,492	3,463	3,492	3,463
Efficacy	79	76	74	71	54	53	51	67	67	67	67
CBCP	235,678	58,595	36,145	15,728	4,086	2,079	2,023	6,747	6,041	6,747	6,041
2700K											
Lumens/LF	4,720	4,585	4,414	4,275	3,240	3,170	3,084	4,031	3,997	4,031	3,997
Efficacy	91	88	85	82	62	61	59	78	77	78	77
CBCP	272,038	67,635	41,721	18,154	4,716	2,400	2,335	7,788	6,973	7,788	6,973
3000K											
Lumens/LF	4,792	4,655	4,481	4,341	3,289	3,218	3,131	4,093	4,058	4,093	4,058
Efficacy	92	90	86	83	63	62	60	79	78	79	78
CBCP	276,199	68,670	42,359	18,432	4,788	2,436	2,371	7,907	7,080	7,907	7,080
3500K											
Lumens/LF	5,172	5,024	4,837	4,685	3,550	3,473	3,380	4,417	4,380	4,417	4,380
Efficacy	99	97	93	90	68	67	65	85	84	85	84
CBCP	298,103	74,116	45,719	19,894	5,168	2,630	2,559	8,534	7,641	8,534	7,641
4000K											
Lumens/LF	5,286	5,135	4,943	4,788	3,628	3,550	3,454	4,514	4,476	4,514	4,476
Efficacy	102	99	95	92	70	68	66	87	86	87	86
CBCP	304,674	75,749	46,726	20,332	5,282	2,687	2,615	8,723	7,809	8,723	7,809
5000K											
Lumens/LF	5,449	5,293	5,096	4,936	3,740	3,660	3,561	4,654	4,615	4,654	4,615
Efficacy	105	102	98	95	72	70	68	90	89	90	89
CBCP	314,092	78,091	48,171	20,961	5,445	2,771	2,696	8,992	8,051	8,992	8,051
6500K											
Lumens/LF	5,039	4,895	4,712	4,564	3,459	3,384	3,293	4,304	4,267	4,304	4,267
Efficacy	97	94	91	88	67	65	63	83	82	83	82
CBCP	290,436	72,210	44,543	19,382	5,035	2,562	2,493	8,315	7,445	8,315	7,445

F170 QUAD MED OUTPUT (100 WATTS)

	5'	10'	15'	20'	40'	60'	80'	15'x60'	30'x60'	60'x15'	60'x30'
2200K											
Lumens/LF	7,084	6,881	6,624	6,416	4,862	4,757	4,629	6,050	5,998	6,050	5,998
Efficacy	71	69	66	64	49	48	46	60	60	60	60
CBCP	408,276	101,507	62,615	27,246	7,078	3,601	3,504	11,689	10,465	11,689	10,465
2700K											
Lumens/LF	8,288	8,051	8,051	7,508	5,689	5,566	5,416	7,078	7,018	7,078	7,018
Efficacy	83	81	81	75	57	56	54	71	70	71	70
CBCP	477,709	118,770	73,264	31,879	8,282	4,214	4,100	13,676	12,245	13,676	12,245
3000K											
Lumens/LF	8,398	8,158	7,854	7,607	5,765	5,640	5,488	7,173	7,112	7,173	7,112
Efficacy	84	82	79	76	58	56	55	72	71	72	71
CBCP	484,061	120,349	74,238	32,303	8,392	4,270	4,155	13,858	12,408	13,858	12,408
3500K											
Lumens/LF	8,607	8,361	8,049	7,797	5,908	5,780	5,624	7,351	7,289	7,351	7,289
Efficacy	86	84	80	78	59	58	56	74	73	74	73
CBCP	248,054	61,672	38,043	16,554	4,300	2,188	2,129	7,102	6,358	7,102	6,358
4000K											
Lumens/LF	8,957	8,700	8,376	8,113	6,148	6,015	5,853	7,650	7,585	7,650	7,585
Efficacy	90	87	84	81	61	60	59	76	76	76	76
CBCP	516,259	128,354	79,176	34,452	8,950	4,554	4,431	14,780	13,233	14,780	13,233
5000K											
Lumens/LF	9,432	9,162	8,820	8,544	6,474	6,334	6,163	8,055	7,987	8,055	7,987
Efficacy	94	92	88	85	65	63	62	81	80	81	80
CBCP	543,638	135,162	83,375	36,279	9,425	4,795	4,666	15,564	13,935	15,564	13,935
6500K											
Lumens/LF	8,797	8,545	8,227	7,969	6,038	5,908	5,749	7,513	7,450	7,513	7,450
Efficacy	88	85	82	80	60	59	57	75	74	75	74
CBCP	507,059	126,067	77,765	33,838	8,791	4,473	4,352	14,517	12,997	14,517	12,997

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DATE	PROJECT	FIRM	TYPE
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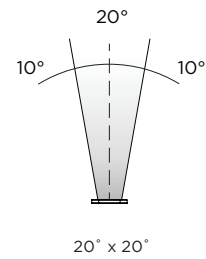
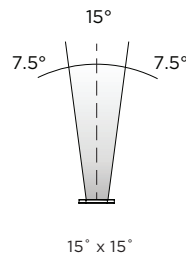
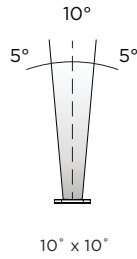
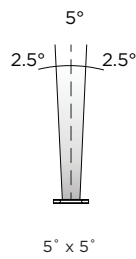
F170 QUAD HIGH OUTPUT (152 WATTS)

	5'	10'	15'	20'	40'	60'	80'	15'x60'	30'x60'	60'x15'	60'x30'
2200K											
Lumens/LF	9,132	8,872	8,540	8,272	6,268	6,132	5,968	7,800	7,732	7,800	7,732
Efficacy	60	58	56	54	41	40	39	51	51	51	51
CBCP	526,336	130,860	40,360	35,124	9,124	4,644	4,516	15,068	13,492	15,068	13,492
2700K											
Lumens/LF	10,841	10,531	10,139	9,821	7,442	7,281	7,085	9,259	9,181	9,259	9,181
Efficacy	71	69	67	65	49	48	47	61	60	61	60
CBCP	624,898	155,365	95,838	41,702	10,834	5,512	5,363	17,890	16,018	17,890	16,018
3000K											
Lumens/LF	11,136	10,819	10,416	10,089	7,645	7,480	7,278	9,512	9,432	9,512	9,432
Efficacy	73	71	69	66	50	49	48	63	62	63	62
CBCP	641,984	159,612	98,456	42,844	11,128	5,664	5,512	18,380	16,456	18,380	16,456
3500K											
Lumens/LF	11,582	11,251	10,832	10,492	7,950	7,778	7,569	9,892	9,808	9,892	9,808
Efficacy	76	74	71	69	52	51	50	65	65	65	65
CBCP	667,610	165,984	102,388	44,552	11,574	5,889	5,730	19,113	17,112	19,113	17,112
4000K											
Lumens/LF	11,628	11,295	10,874	10,533	7,982	7,809	7,599	9,931	9,847	9,931	9,847
Efficacy	77	74	72	69	53	51	50	65	65	65	65
CBCP	670,238	166,637	102,791	44,728	11,620	5,912	5,753	19,188	17,180	19,188	17,180
5000K											
Lumens/LF	12,054	11,709	11,272	10,919	8,274	8,095	7,877	10,295	10,207	10,295	10,208
Efficacy	79	77	74	72	54	53	52	68	67	68	67
CBCP	694,770	172,737	106,554	46,365	12,045	6,128	5,963	19,891	17,808	19,891	17,808
6500K											
Lumens/LF	11,556	11,225	10,807	10,468	7,932	7,761	7,551	9,869	9,786	9,869	9,786
Efficacy	76	74	71	69	52	51	50	65	64	65	64
CBCP	666,076	165,603	102,153	44,450	11,548	5,875	5,717	19,069	17,073	19,069	17,073

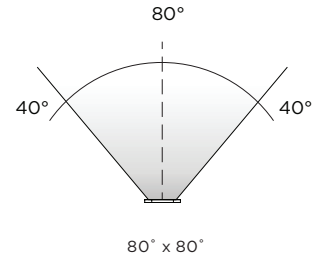
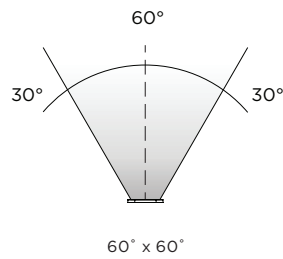
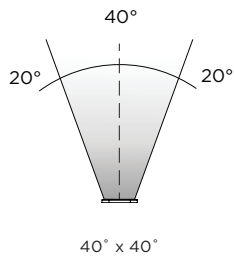
NOTE: Information on this Spec Sheet is subject to change, please visit the website for most updated information.

DATE	PROJECT	FIRM	TYPE
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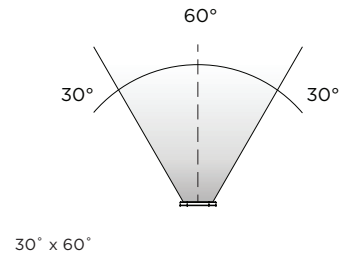
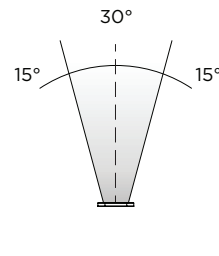
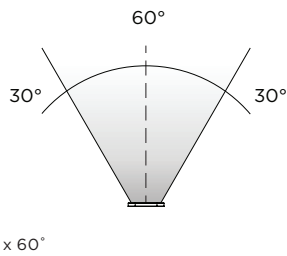
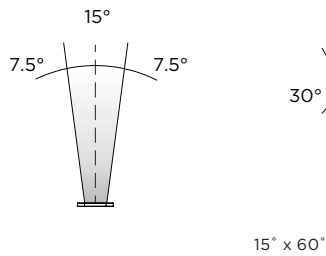
Spot/Accent Light Distribution



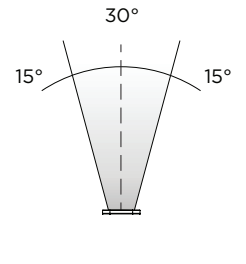
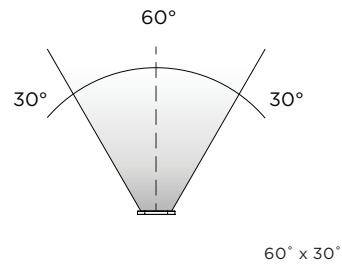
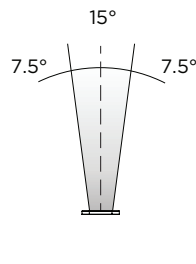
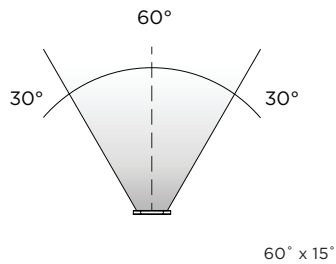
Flood Light Distribution



Horizontal Elliptical Light Distribution



Vertical Elliptical Light Distribution



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