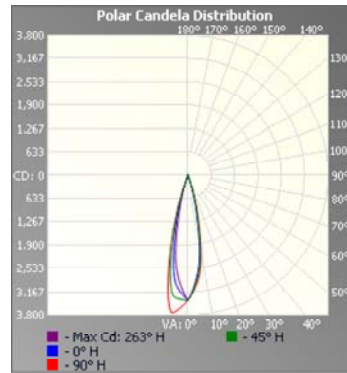


GENERATION BRANDS

Goniophotometer Test Report

Filename: 18009 - PIPER GRANDE
Manufacturer: TECH LIGHTING
Lamp Output: 1 lamp, rated Lumens/lamp: 565.5
Max Candela: 3,754.7 at Horizontal: 263Å°, Vertical: 6Å°
Input Wattage: 9
Luminous Opening: Point
Test: 700TDPPRGPS-LED930
Test Date: 22-Feb-2018 14:09:00
Test Lab: GENERATION BRANDS INTERNAL TESTING
Color Constant: 3038K - 95.7CRI
Photometry : Type C
CIE Class: Direct
Cutoff Class: Full Cutoff
Nema Type: 3 X 3

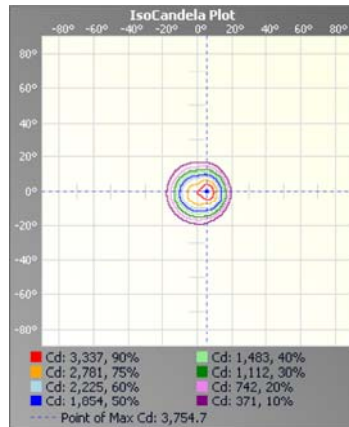
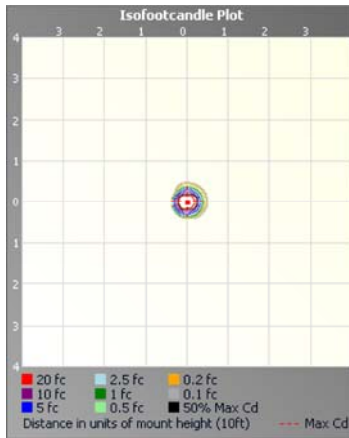


Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	565.5	100%	100%
0-40	565.5	100%	100%
0-60	565.5	100%	100%
60-90	0	0%	0%
70-100	0	0%	0%
90-120	0	0%	0%
0-90	565.5	100%	100%
90-180	0	0%	0%
0-180	565.5	100%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	276.4	48.9%	90-100	0	0%
10-20	279.9	49.5%	100-110	0	0%
20-30	9.2	1.6%	110-120	0	0%
30-40	0	0.0%	120-130	0	0%
40-50	0	0.0%	130-140	0	0%
50-60	0	0.0%	140-150	0	0%
60-70	0	0.0%	150-160	0	0%
70-80	0	0.0%	160-170	0	0%
80-90	0	0.0%	170-180	0	0%



Candela Table - Type C

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		
0	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390		
1	3295	3295	3295	3295	3289	3289	3289	3289	3289	3289	3289	3289	3289	3289	3289	3275	3275	3275	3275	3275	3275	3275	3275	3275	3285	3285	3285	3272	3272	3272	3272	3272	3272	3272	3272	3275	3275	3275		
2	3166	3166	3163	3163	3163	3163	3163	3163	3151	3151	3151	3151	3162	3151	3151	3151	3151	3159	3159	3159	3159	3159	3159	3148	3148	3148	3143	3152	3152	3152	3139	3182	3196	3196	3196	3183	3183	3183	3187	3187
3	3037	3037	3034	3034	3034	3023	3023	3023	3034	3024	3024	3033	3023	3023	3023	3021	3021	3031	3031	3019	3019	3026	3026	3040	3053	3043	3056	3056	3056	3063	3063	3063	3050	3056	3056	3056	3045	3045	3045	
4	2905	2903	2903	2903	2893	2893	2893	2894	2894	2894	2894	2893	2893	2904	2892	2892	2901	2901	2916	2911	2911	2945	2945	2945	2933	2940	2933	2933	2933	2927	2927	2927	2933	2933	2933	2931	2941	2941	2941	
5	2769	2766	2766	2757	2757	2759	2759	2759	2759	2759	2760	2760	2760	2760	2770	2758	2766	2766	2754	2754	2807	2807	2798	2798	2806	2806	2800	2800	2792	2792	2800	2786	2792	2818	2832	2827	2814	2820	282	
6	2625	2622	2622	2613	2613	2616	2616	2616	2616	2616	2617	2628	2615	2624	2611	2611	2640	2648	2664	2674	2674	2669	2669	2661	2656	2656	2664	2649	2648	2679	2700	2684	2691	2678	2678	2670	2670	2670		
7	2459	2455	2455	2447	2451	2449	2449	2449	2449	2450	2464	2447	2459	2443	2456	2456	2470	2508	2520	2502	2506	2490	2502	2493	2493	2482	2476	2485	2521	2520	2520	2527	2516	2516	2499	2508	2566	2546	255	
8	2252	2249	2241	2241	2244	2243	2242	2242	2259	2235	2253	2233	2250	2239	2218	2307	2307	2293	2307	2285	2299	2286	2279	2291	2293	2293	2347	2323	2316	2316	2304	2313	2335	2344	2351	2326	2335	231		
9	2012	2009	2003	2005	2004	2003	2003	2022	1997	2016	1994	2012	2002	1979	2049	2063	2080	2055	2059	2036	2065	2041	2041	2015	2106	2077	2089	2074	2074	2066	2039	2121	2108	2083	2091	2099	2083	212		
10	1753	1751	1746	1747	1746	1746	1746	1744	1762	1739	1735	1750	1744	1799	1815	1807	1813	1788	1795	1780	1797	1784	1812	1839	1825	1839	1819	1806	1817	1834	1870	1852	1827	1809	1817	1863	1845	185		
11	1492	1491	1487	1508	1487	1486	1484	1482	1479	1477	1492	1486	1505	1578	1553	1536	1553	1544	1531	1536	1497	1486	1580	1577	1564	1551	1531	1517	1607	1596	1580	1564	1550	1633	1604	1586	1566	157		
12	1240	1240	1236	1237	1237	1236	1233	1230	1228	1243	1238	1257	1326	1303	1289	1282	1288	1279	1271	1274	1262	1314	1328	1316	1298	1296	1293	1350	1324	1314	1299	1307	1341	1350	1332	1316	1391	137		
13	1009	1010	1007	1008	1009	1008	1006	1020	1000	996	1029	985	1045	1060	1054	1061	1048	1037	1029	1063	1104	1082	1081	1081	1045	1034	1111	1081	1078	1059	1045	1128	1105	1096	1084	1128	1112	108		
14	811	812	810	812	811	812	809	809	804	818	812	846	860	856	844	852	844	849	835	905	887	878	871	849	858	894	893	877	873	883	910	898	888	906	915	900	905	92		
15	644	643	643	645	645	645	645	645	641	651	647	643	689	686	676	683	676	667	670	680	701	694	695	696	679	720	716	714	684	749	724	713	702	747	735	717	709	744		
16	495	495	495	496	497	507	495	492	491	486	507	548	526	523	527	519	522	516	559	554	539	533	517	538	561	542	534	537	571	548	538	571	568	558	531	583	572	55		
17	366	366	366	366	366	365	364	372	368	366	412	385	403	395	388	391	386	364	413	407	394	395	396	415	399	399	381	433	413	405	443	421	411	408	435	410	399	44		
18	254	254	254	254	254	261	260	250	246	262	283	285	283	276	269	262	253	272	292	281	272	259	287	293	279	297	295	278	303	303	284	276	305	296	300	301	29			
19	158	159	159	158	158	157	154	159	157	146	167	176	176	171	174	168	173	192	184	176	166	179	185	183	174	204	190	179	175	201	185	183	194	187	190	192	196	20		

[illegible]

Luminaire Report Summary

IESNA:LM-63-2002
[TEST] 700TDPPRGPS-LED930

[TESTDATE] 22-Feb-2018 14:09:00
[TESTLAB] GENERATION BRANDS INTERNAL TESTING
[ISSUEDATE] 2/22/2018 3:11:35 PM
[MANUFAC] TECH LIGHTING
[COLORCONSTANT] 3038K - 95.7CRI
[_TALLUMINAIRELUMENS] 565.5
[_NUMBEROFFRAYS]10000000
FILE: CANDELA MULTIPLIER: 1
FILE: VERTICAL ANGLES: 181, HORIZONTAL ANGLES: 361
FILE: COORDINATE SYSTEM: TYPE C
FILE: UNIT OF MEASURE: METRIC
FILE: BALLAST FACTOR: 1

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Reported data calculated from manufacturer's data file, based on IES recommended methods.