



PREMIUM QUALITY LIGHTING

# 83183

## LED 120W PARKING LOT LIGHT

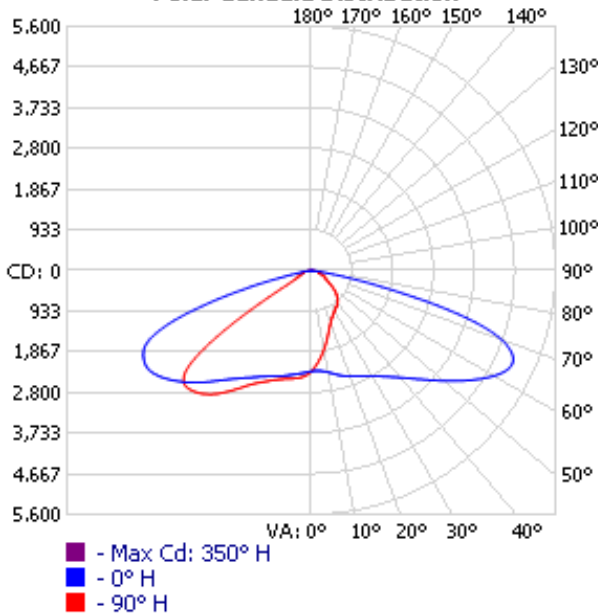
### PHOTOMETRIC



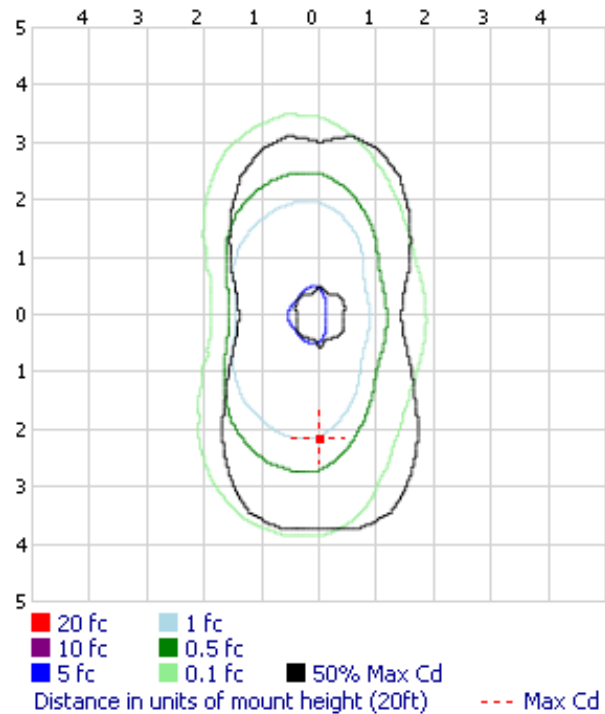
• VIEW SELL SHEET

**MANUFACTURER:** PQL, INC.  
**TEST #:** S12100012A-01  
**TEST LAB:** LEADING TESTING LABORATORIES  
**ISSUE DATE:** 2012-10-31 16:28:13  
**CATALOG #:** OUTDOOR POLE/ARM-MOUNTED AREA AND ROADWAY LUMINAIRES  
  
**LUMINAIRE:** 83183  
**LAMP OUTPUT:** 1 LAMP, RATED LUMENS/LAMP: 10968.6  
**INPUT WATTAGE:** 117.1  
**LUMINOUS OPENING:** POINT  
  
**MAX CD:** 5,521.1 AT HORIZONTAL: 350°, VERTICAL: 65°  
**CUTOFF CLASS:** CUTOFF  
**ROADWAY CLASS:** VERY SHORT, TYPE IV  
**EFFICIENCY:** 100%

**Polar Candela Distribution**



**Isofootcandle Plot**



**ZONAL LUMEN SUMMARY**

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	1,889.7	17.2%	17.2%
0-40	3,403.9	31%	31%
0-60	8,057.6	73.5%	73.5%
60-90	2,911.1	26.5%	26.5%
0-90	10,968.7	100%	100%

**LUMENS PER ZONE**

ZONE	LUMENS	% TOTAL
0-10	218.2	2.0%
10-20	634.1	5.8%
20-30	1,037.4	9.5%
30-40	1,514.3	13.8%
40-50	2,122.2	19.3%
50-60	2,531.4	23.1%
60-70	2,003.1	18.3%
70-80	789.8	7.2%
80-90	118.2	1.1%



Published lumens on LED products are approximate and may vary slightly.



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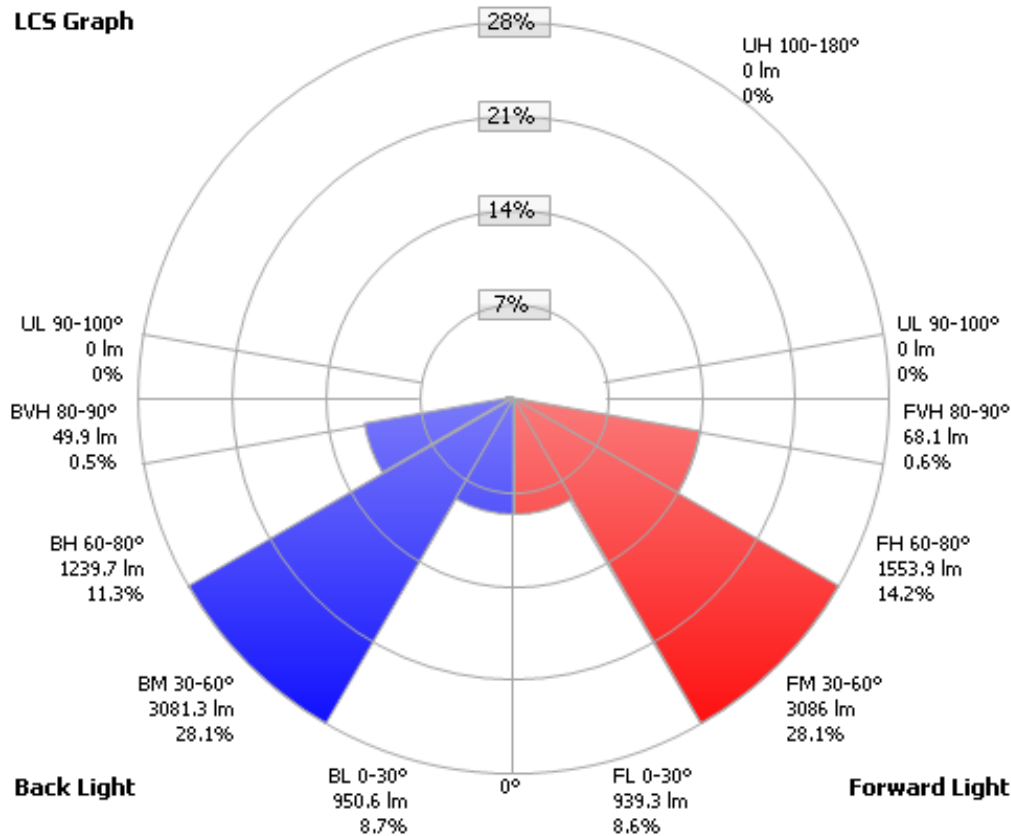
#### ROADWAY SUMMARY

CUTOFF CLASSIFICATION:	CUTOFF	
DISTRIBUTION:	TYPE IV, VERY SHORT	
MAX CD, 90 DEG VERT:	2.5	
MAX CD, 80 TO <90 DEG:	616.8	
	<b>LUMENS</b>	<b>% LAMP</b>
DOWNWARD STREET SIDE:	5,647.3	51.5%
DOWNWARD HOUSE SIDE:	5,321.4	48.5%
DOWNWARD TOTAL:	10,968.7	100%
<b>TOTAL LUMENS:</b>	10,968.7	100%

#### LCS TABLE

<b>BUG RATING</b>	<b>B3 - UX - G3</b>	
<b>FORWARD LIGHT</b>	<b>LUMENS</b>	<b>LUMENS %</b>
LOW(0-30):	939.3	8.6%
MEDIUM(30-60):	3,086.0	28.1%
HIGH(60-80):	1,553.9	14.2%
VERY HIGH(80-90):	68.1	0.6%
<b>BACK LIGHT</b>		
LOW(0-30):	950.6	8.7%
MEDIUM(30-60):	3,081.3	28.1%
HIGH(60-80):	1,239.7	11.3%
VERY HIGH(80-90):	49.9	0.5%
<b>TRAPPED LIGHT:</b>	0	0%

LCS Graph



Scale = Max LCS %

Trapped Light: 0lm, 0%



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PHOTOMETRIC



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**CANDELA TABLE - TYPE C**

	0	20	40	60	80	90	110	130	150	170	180	200	220	240	260	280	300	320	340	360
0	2312	2313	2314	2311	2313	2314	2317	2313	2316	2313	2313	2315	2311	2312	2312	2314	2312	2310	2312	2313
5	2310	2274	2234	2191	2154	2121	2096	2074	2067	2065	2074	2096	2117	2153	2193	2237	2279	2320	2360	2395
10	2375	2295	2195	2092	1998	1914	1852	1801	1784	1782	1804	1850	1906	1982	2068	2164	2258	2346	2424	2480
15	2484	2356	2190	2014	1851	1711	1608	1533	1503	1500	1530	1596	1681	1801	1940	2093	2242	2381	2502	2580
20	2580	2419	2190	1928	1702	1524	1403	1328	1297	1286	1302	1366	1465	1621	1810	2018	2225	2417	2582	2681
25	2674	2477	2182	1843	1565	1370	1263	1197	1168	1155	1159	1202	1292	1455	1682	1952	2229	2482	2683	2798
30	2796	2564	2196	1790	1464	1263	1166	1108	1085	1068	1065	1099	1171	1331	1583	1913	2266	2590	2834	2967
35	2969	2687	2246	1764	1402	1195	1099	1044	1024	1006	998	1029	1090	1242	1514	1901	2333	2734	3027	3176
40	3205	2851	2324	1768	1361	1145	1049	985	960	939	935	969	1030	1183	1470	1920	2450	2943	3292	3464
45	3524	3075	2445	1796	1332	1083	974	895	859	833	834	879	953	1123	1453	1987	2624	3216	3631	3824
50	3931	3334	2590	1837	1280	981	854	762	717	691	697	746	825	1022	1419	2071	2786	3459	3953	4181
55	4389	3602	2698	1799	1165	823	681	585	538	516	524	569	650	857	1304	2037	2837	3627	4237	4517
60	4833	3796	2636	1627	944	611	495	432	407	395	398	420	469	623	1039	1788	2678	3640	4378	4705
65	5079	3742	2316	1218	638	438	380	348	336	329	326	339	359	422	663	1287	2224	3355	4230	4529
70	4652	3225	1626	686	367	303	279	258	251	244	243	248	259	279	326	580	1220	2285	3351	3685
75	2736	1862	745	303	232	216	204	191	183	178	178	182	189	197	207	253	404	816	1438	1739
80	617	421	241	170	164	202	237	250	254	235	232	224	232	209	171	155	168	227	266	324
85	110	139	147	138	134	123	87	108	95	50	81	92	65	91	83	92	88	96	67	85
90	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	2	2	2



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