

Photometrics Pro

Luminaire Photometric Report

- [Evaluation Version]

Filename: 55223

Manufacturer: P.Q.L., Inc.

Luminaire: 55223

Lamp Output: 1 lamp(s), rated Lumens/lamp: 13585.2

Max Candela: 5,232.9 at Horizontal: 0°, Vertical: 1°

Input Wattage: 105.5

Luminous Opening: Point

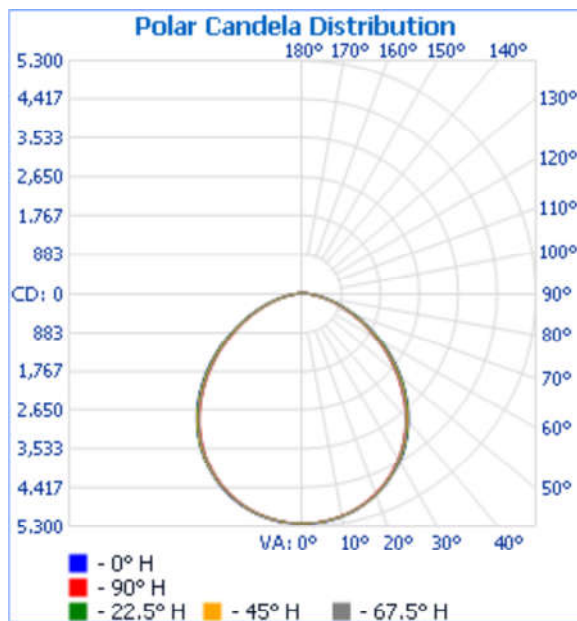
Test: Goniophotometer test

Test Date: 2018-1-9

Test Lab: UL-CCIC (Suzhou) Co.,Ltd

Photometry : Type C

CIE Class: Direct



Roadway Summary

Cutoff Classification:	FULL CUTOFF	
Distribution:	Type VS	
Max Cd, 90 Deg Vert:	0	
Max Cd, 80 to <90 Deg:	400.5	
	Lumens	% Lamp
Downward Street Side:	6,800.1	50.1%
Downward House Side:	6,786.6	50%
Downward Total:	13,586.7	100%
Upward Street Side:	0	0%
Upward House Side:	0	0%
Upward Total:	0	0%
Total Lumens:	13,586.7	100%

Zonal Lumen Summary

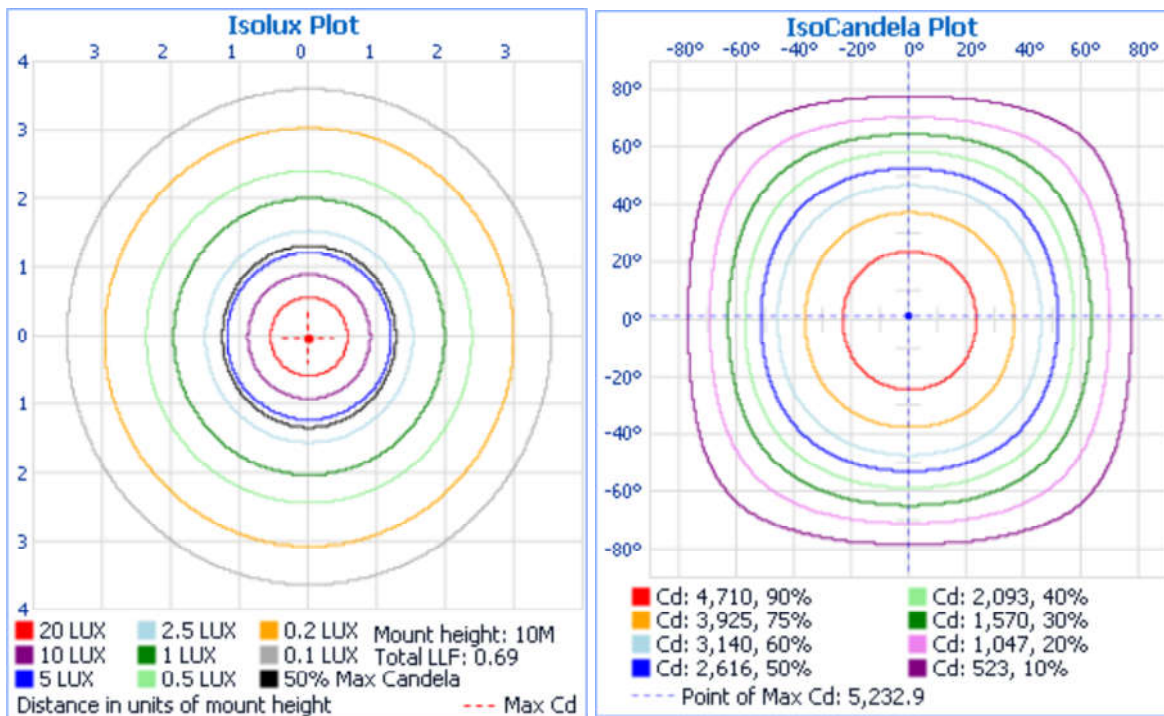
Zone	Lumens	% Luminaire
0-30	4,052.9	29.8%
0-40	6,590.1	48.5%
0-60	11,231.1	82.7%
60-90	2,354.1	17.3%
70-100	895.2	6.6%
90-120	0	0%
0-90	13,585.2	100%
90-180	0	0%
0-180	13,585.2	100%

Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97.9%	13,304.1	154.2	156
Beam (50%):	71%	9,641.6	103.3	105.9
Total:	100%	13,582.5		

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	494.5	3.6%	90-100	0	0%
10-20	1,417.7	10.4%	100-110	0	0%
20-30	2,140.7	15.8%	110-120	0	0%
30-40	2,537.2	18.7%	120-130	0	0%
40-50	2,523.5	18.6%	130-140	0	0%
50-60	2,117.4	15.6%	140-150	0	0%
60-70	1,458.9	10.7%	150-160	0	0%
70-80	735.6	5.4%	160-170	0	0%
80-90	159.6	1.2%	170-180	0	0%



Illuminance at a Distance

	Center Beam LUX	Beam Width	
0.7M	11,760.30 LUX	1.8M	1.7M
1.3M	2,940.08 LUX	3.5M	3.4M
2.0M	1,306.70 LUX	5.3M	5.1M
2.7M	735.02 LUX	7.1M	6.7M
3.3M	470.41 LUX	8.8M	8.4M
4.0M	326.68 LUX	10.6M	10.1M

■ Vert. Spread: 105.9° ■ Horiz. Spread: 103.3°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50				30				10				0
RW %:	70	50	30	0	70	50	30	0	50	30	20	10	50	30	20	10	50	30	20	10	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.06	1.02	1.02	1.02	1.02	1.00	1.00
1	1.09	1.05	1.01	.97	1.07	1.03	.99	.86	.98	.95	.93	.95	.92	.90	.91	.89	.87	.87	.87	.85	.85
2	1.00	.92	.86	.80	.97	.90	.84	.73	.87	.82	.77	.83	.79	.76	.80	.77	.74	.74	.74	.72	.72
3	.91	.81	.73	.67	.89	.80	.72	.63	.77	.71	.65	.74	.69	.64	.72	.67	.63	.63	.63	.61	.61
4	.84	.72	.64	.57	.82	.71	.63	.54	.69	.62	.56	.66	.60	.55	.64	.59	.55	.55	.55	.53	.53
5	.77	.65	.56	.50	.75	.64	.55	.48	.62	.54	.49	.60	.53	.48	.58	.52	.48	.48	.48	.46	.46
6	.71	.58	.50	.43	.70	.58	.49	.42	.56	.48	.43	.54	.48	.43	.53	.47	.42	.42	.42	.40	.40
7	.66	.53	.45	.39	.65	.52	.44	.37	.51	.43	.38	.49	.43	.38	.48	.42	.38	.38	.38	.36	.36
8	.62	.49	.40	.34	.60	.48	.40	.34	.47	.39	.34	.45	.39	.34	.44	.38	.34	.34	.34	.32	.32
9	.58	.45	.37	.31	.56	.44	.36	.30	.43	.36	.31	.42	.35	.31	.41	.35	.31	.31	.31	.29	.29
10	.54	.41	.33	.28	.53	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.28	.28	.28	.26	.26

Candela Table - Type C

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	360
0	5227	5227	5227	5227	5227	5227	5227	5227	5227	5227	5227	5227	5227	5227	5227	5227	5227
1	5233	5226	5225	5226	5220	5225	5227	5226	5232	5226	5227	5225	5220	5226	5225	5226	5233
2	5229	5221	5224	5222	5216	5223	5224	5224	5225	5224	5224	5223	5216	5222	5224	5221	5229
3	5225	5218	5218	5218	5212	5219	5219	5218	5226	5218	5219	5219	5212	5218	5218	5218	5225
4	5221	5212	5210	5210	5206	5212	5211	5213	5219	5213	5211	5212	5206	5210	5210	5212	5221
5	5212	5203	5201	5202	5197	5204	5206	5201	5210	5201	5206	5204	5197	5202	5201	5203	5212
6	5202	5193	5192	5192	5186	5192	5195	5193	5202	5193	5195	5192	5186	5192	5192	5193	5202
7	5187	5179	5179	5180	5173	5183	5185	5184	5190	5184	5185	5183	5173	5180	5179	5179	5187
8	5173	5167	5164	5168	5159	5166	5169	5168	5178	5168	5169	5166	5159	5168	5164	5167	5173
9	5158	5153	5151	5151	5143	5151	5155	5153	5161	5153	5155	5151	5143	5151	5151	5153	5158
10	5140	5135	5135	5135	5124	5136	5136	5138	5147	5138	5136	5136	5124	5135	5135	5135	5140
11	5119	5119	5114	5115	5107	5115	5120	5119	5128	5119	5120	5115	5107	5115	5114	5119	5119
12	5101	5098	5096	5097	5086	5097	5099	5100	5108	5100	5099	5097	5086	5097	5096	5098	5101
13	5082	5074	5075	5074	5062	5074	5078	5078	5089	5078	5078	5074	5062	5074	5075	5074	5082
14	5056	5052	5054	5051	5037	5048	5056	5053	5064	5053	5056	5048	5037	5051	5054	5052	5056
15	5030	5026	5027	5022	5009	5022	5028	5028	5039	5028	5022	5009	5022	5022	5027	5026	5030
16	5001	5000	4999	4996	4980	4993	5000	5000	5014	5000	5000	4993	4980	4996	4999	5000	5001
17	4973	4968	4971	4963	4949	4961	4968	4970	4984	4970	4968	4961	4949	4963	4971	4968	4973
18	4940	4939	4940	4930	4916	4929	4936	4940	4953	4940	4936	4929	4916	4930	4940	4939	4940
19	4906	4908	4902	4895	4879	4892	4902	4906	4920	4906	4902	4892	4879	4895	4902	4908	4906
20	4872	4871	4863	4857	4844	4854	4864	4870	4884	4870	4864	4854	4844	4857	4863	4871	4872
21	4835	4833	4828	4817	4804	4812	4824	4832	4845	4832	4824	4812	4804	4817	4828	4833	4835
22	4795	4794	4785	4775	4760	4771	4785	4791	4803	4791	4785	4771	4760	4775	4785	4794	4795
23	4754	4750	4743	4730	4719	4729	4742	4752	4761	4752	4742	4729	4719	4730	4743	4750	4754
24	4713	4708	4696	4684	4674	4683	4698	4707	4719	4707	4698	4683	4674	4684	4696	4708	4713
25	4667	4661	4650	4635	4627	4636	4649	4660	4670	4660	4649	4636	4627	4635	4650	4661	4667
26	4618	4611	4602	4586	4577	4586	4604	4614	4623	4614	4604	4586	4577	4586	4602	4611	4618
27	4572	4563	4550	4533	4523	4535	4550	4564	4572	4564	4550	4535	4523	4533	4550	4563	4572
28	4522	4510	4497	4477	4469	4479	4499	4512	4517	4512	4499	4479	4469	4477	4497	4510	4522
29	4470	4458	4440	4422	4414	4421	4444	4458	4463	4458	4444	4421	4414	4422	4440	4458	4470
30	4412	4402	4384	4362	4352	4364	4385	4403	4406	4403	4385	4364	4352	4362	4384	4402	4412
31	4357	4341	4323	4304	4290	4303	4326	4342	4346	4342	4326	4303	4290	4304	4323	4341	4357
32	4296	4283	4260	4238	4226	4240	4264	4282	4284	4282	4264	4240	4226	4238	4260	4283	4296
33	4233	4220	4197	4176	4161	4176	4201	4220	4222	4220	4201	4176	4161	4176	4197	4220	4233
34	4167	4156	4132	4108	4092	4108	4136	4155	4157	4155	4136	4108	4092	4108	4132	4156	4167
35	4099	4088	4067	4038	4022	4039	4068	4087	4090	4087	4068	4039	4022	4038	4067	4088	4099
36	4034	4018	3993	3968	3950	3967	3997	4019	4020	4019	3997	3967	3950	3968	3993	4018	4034
37	3962	3949	3921	3892	3878	3893	3925	3947	3952	3947	3925	3893	3878	3892	3921	3949	3962
38	3887	3875	3848	3817	3802	3816	3848	3874	3880	3874	3848	3816	3802	3817	3848	3875	3887
39	3813	3802	3772	3740	3723	3739	3771	3799	3808	3799	3771	3739	3723	3740	3772	3802	3813
40	3732	3725	3693	3662	3644	3661	3693	3722	3730	3722	3693	3661	3644	3662	3693	3725	3732
41	3656	3646	3613	3581	3562	3579	3613	3643	3654	3643	3613	3579	3562	3581	3613	3646	3656
42	3576	3566	3535	3500	3478	3498	3530	3562	3576	3562	3530	3498	3478	3500	3535	3566	3576
43	3495	3484	3451	3412	3394	3413	3447	3480	3494	3480	3447	3413	3394	3412	3451	3484	3495
44	3411	3400	3366	3331	3307	3327	3361	3396	3413	3396	3361	3327	3307	3331	3366	3400	3411
45	3326	3316	3279	3241	3221	3240	3275	3314	3330	3314	3275	3240	3221	3241	3279	3316	3326
46	3241	3232	3195	3152	3131	3152	3188	3226	3245	3226	3188	3152	3131	3152	3195	3232	3241
47	3155	3146	3107	3062	3044	3060	3102	3138	3153	3138	3102	3060	3044	3062	3107	3146	3155
48	3069	3058	3018	2972	2953	2970	3010	3048	3064	3048	3010	2970	2953	2972	3018	3058	3069
49	2980	2968	2928	2882	2862	2881	2924	2961	2974	2961	2924	2881	2862	2882	2928	2968	2980
50	2892	2877	2839	2791	2770	2787	2830	2872	2884	2872	2830	2787	2770	2791	2839	2877	2892
51	2800	2787	2746	2698	2677	2694	2740	2779	2795	2779	2740	2694	2677	2698	2746	2787	2800
52	2709	2695	2652	2606	2587	2602	2647	2688	2701	2688	2647	2602	2587	2606	2652	2695	2709
53	2619	2604	2562	2512	2493	2508	2554	2596	2611	2596	2554	2508	2493	2512	2562	2604	2619
54	2527	2510	2470	2416	2401	2414	2463	2504	2517	2504	2463	2414	2401	2416	2470	2510	2527
55	2435	2421	2378	2324	2305	2321	2369	2412	2424	2412	2369	2321	2305	2324	2378	2421	2435
56	2343	2327	2282	2231	2214	2228	2274	2318	2331	2318	2274	2228	2214	2231	2282	2327	2343
57	2253	2237	2189	2137	2121	2135	2183	2226	2239	2226	2183	2135	2121	2137	2189	2237	2253
58	2163	2145	2098	2046	2028	2042	2091	2134	2144	2134	2091	2042	2028	2046	2098	2145	2163
59	2069	2052	2007	1956	1935	1952	1999	2044	2050	2044	1999	1952	1935	1956	2007	2052	2069
60	1980	1962	1915	1863	1847	1862	1907	1951	1961	1951	1907	1862	1847	1863	1915	1962	1980
61	1892	1870	1826	1775	1758	1769	1814	1860	1870	1860	1814	1769	1758	1775	1826	1870	1892
62	1800	1781	1735	1684	1667	1682	1724	1770	1782	1770	1724	1682	1667	1684	1735	1781	1800

Luminaire Report Summary

IESNA:LM-63-2002
[TEST] Goniophotometer test
[TESTLAB] UL-CCIC (Suzhou) Co.,Ltd
[TESTDATE] 2018-1-9
[ISSUEDATE] 2018-1-9
[MANUFAC] P.Q.L., Inc.
[LUMCAT]
[LUMINAIRE] 55223
[LAMP]

FILE: CREATED USING ABSOLUTE PHOTOMETRY
FILE: CANDELA MULTIPLIER: 1
FILE: VERTICAL ANGLES: 181, HORIZONTAL ANGLES: 17
FILE: COORDINATE SYSTEM: TYPE C
FILE: UNIT OF MEASURE: STANDARD
FILE: BALLAST FACTOR: 1

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