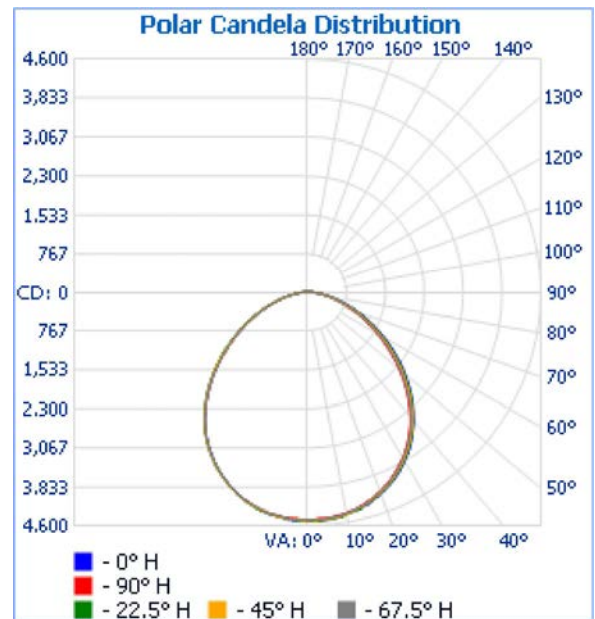


Photometrics Pro

Luminaire Photometric Report

Filename: 55226
Manufacturer: P.Q.L., Inc.
Luminaire: Flat High Bay 5000K (A1+B3)
Lamp Output: 1 lamp(s), rated Lumens/lamp: 11548.92
Max Candela: 4,523.2 at Horizontal: 22.5°, Vertical: 2°
Input Wattage: 88.6
Luminous Opening: Point
Test: Goniophotometer test
Test Date: 2016-10-25
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:	370.7	
	Lumens	% Lamp
Downward Street Side:	5,844.4	50.6%
Downward House Side:	5,705.9	49.4%
Downward Total:	11,550.2	100%
Upward Street Side:	0	0%
Upward House Side:	0	0%
Upward Total:	0	0%
Total Lumens:	11,550.2	100%

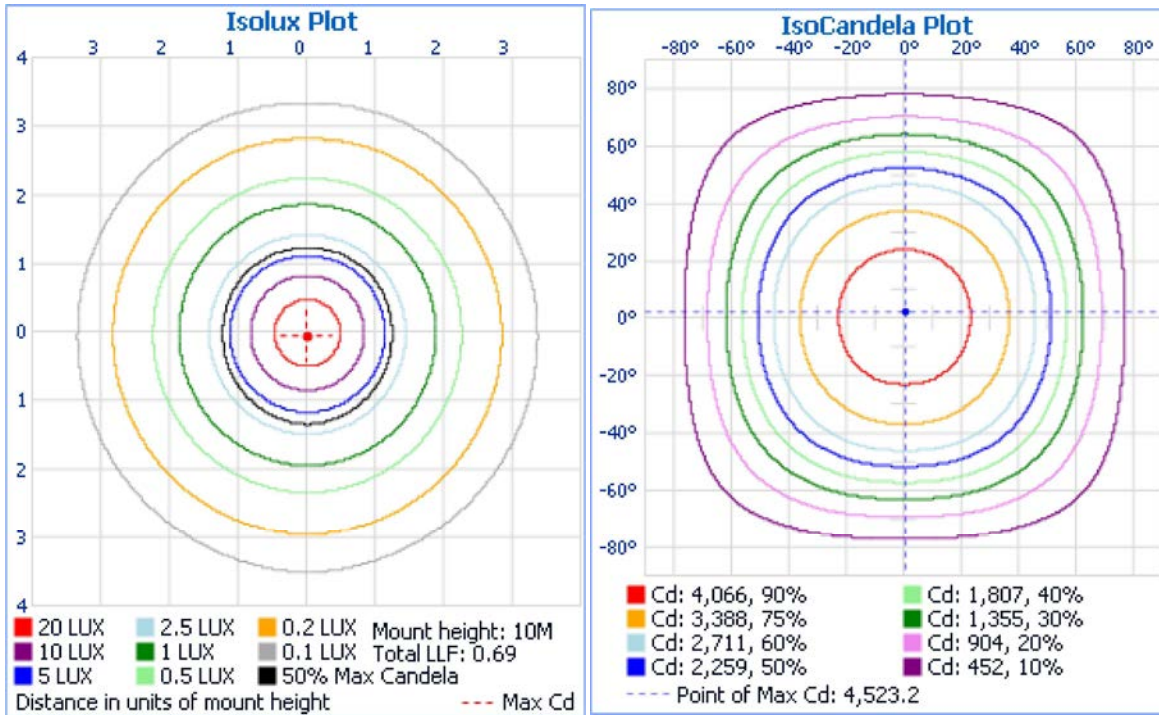
Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	3,491.6	30.2%
0-40	5,679.5	49.2%
0-60	9,611.2	83.2%
60-90	1,937.7	16.8%
70-100	743.2	6.4%
90-120	0	0%
0-90	11,548.9	100%
90-180	0	0%
0-180	11,548.9	100%

Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97.7%	11,286.6	153.5	155.1
Beam (50%):	70.6%	8,152.4	102.1	104.3
Total:	100%	11,546.5		

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-5	107.3	0.9%	90-95	0	0%
5-10	318.7	2.8%	95-100	0	0%
10-15	519.6	4.5%	100-105	0	0%
15-20	702.4	6.1%	105-110	0	0%
20-25	859.2	7.4%	110-115	0	0%
25-30	984.4	8.5%	115-120	0	0%
30-35	1,072.3	9.3%	120-125	0	0%
35-40	1,115.7	9.7%	125-130	0	0%
40-45	1,108.2	9.6%	130-135	0	0%
45-50	1,050.8	9.1%	135-140	0	0%
50-55	951.4	8.2%	140-145	0	0%
55-60	821.3	7.1%	145-150	0	0%
60-65	674.1	5.8%	150-155	0	0%
65-70	520.4	4.5%	155-160	0	0%
70-75	368.4	3.2%	160-165	0	0%
75-80	232.6	2.0%	165-170	0	0%
80-85	114.3	1.0%	170-175	0	0%
85-90	27.9	0.2%	175-180	0	0%



Illuminance at a Distance

	Center Beam LUX	Beam Width	
0.7M	10,124.33 LUX	1.7M	1.6M
1.3M	2,531.08 LUX	3.4M	3.3M
2.0M	1,124.93 LUX	5.1M	4.9M
2.7M	632.77 LUX	6.9M	6.6M
3.3M	404.97 LUX	8.6M	8.2M
4.0M	281.23 LUX	10.3M	9.9M

■ Vert. Spread: 104.3° ■ Horiz. Spread: 102.1°

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	0	50	30	20	0	50	30	20	0	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	1.11	1.06	1.06	1.06	1.06	1.02	1.02	1.02	1.02	1.00
1	1.10	1.05	1.01	.97	1.07	1.03	.99	.86	.99	.96	.93	.93	.95	.92	.90	.90	.91	.89	.87	.85	.85
2	1.00	.92	.86	.80	.98	.90	.85	.73	.87	.82	.78	.78	.84	.80	.76	.76	.81	.77	.74	.72	.72
3	.92	.82	.74	.68	.89	.80	.73	.63	.77	.71	.66	.66	.74	.69	.65	.65	.72	.67	.64	.61	.61
4	.84	.73	.64	.58	.82	.71	.63	.55	.69	.62	.57	.57	.67	.61	.56	.56	.64	.59	.55	.53	.53
5	.78	.65	.56	.50	.75	.64	.56	.48	.62	.55	.49	.49	.60	.54	.49	.49	.58	.53	.48	.46	.46
6	.72	.59	.50	.44	.70	.58	.50	.42	.56	.49	.43	.43	.54	.48	.43	.43	.53	.47	.43	.41	.41
7	.67	.53	.45	.39	.65	.53	.45	.38	.51	.44	.38	.38	.50	.43	.38	.38	.48	.42	.38	.36	.36
8	.62	.49	.41	.35	.61	.48	.40	.34	.47	.40	.34	.34	.46	.39	.34	.34	.44	.39	.34	.32	.32
9	.58	.45	.37	.31	.57	.44	.37	.31	.43	.36	.31	.31	.42	.36	.31	.31	.41	.35	.31	.29	.29
10	.54	.41	.34	.29	.53	.41	.33	.28	.40	.33	.28	.28	.39	.33	.28	.28	.38	.32	.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	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500
1	4497	4499	4487	4481	4473	4476	4510	4512	4514	4512	4510	4476	4473	4481	4487	4499	4497
2	4507	4523	4505	4482	4472	4486	4489	4494	4490	4494	4489	4486	4472	4482	4505	4523	4507
3	4512	4515	4494	4480	4463	4491	4474	4500	4501	4500	4474	4491	4463	4480	4494	4515	4512
4	4499	4504	4498	4475	4463	4477	4484	4489	4501	4489	4484	4477	4463	4475	4498	4504	4499
5	4506	4489	4483	4476	4465	4478	4484	4499	4476	4499	4484	4478	4465	4476	4483	4489	4506
6	4476	4482	4476	4470	4457	4475	4469	4477	4468	4477	4469	4475	4457	4470	4476	4482	4476
7	4479	4491	4483	4451	4446	4446	4461	4462	4459	4462	4461	4446	4446	4451	4483	4491	4479
8	4466	4468	4468	4458	4431	4435	4446	4442	4459	4442	4461	4442	4431	4458	4468	4468	4466
9	4442	4475	4447	4442	4430	4423	4431	4442	4430	4442	4431	4423	4430	4442	4447	4475	4442
10	4423	4440	4446	4420	4419	4414	4417	4434	4433	4434	4417	4414	4419	4420	4446	4440	4423
11	4426	4432	4423	4414	4389	4410	4402	4409	4411	4409	4402	4410	4389	4414	4423	4432	4426
12	4388	4414	4400	4388	4404	4375	4388	4393	4382	4393	4388	4375	4404	4388	4400	4414	4388
13	4406	4397	4370	4367	4360	4354	4362	4387	4364	4387	4362	4354	4360	4367	4370	4397	4406
14	4377	4390	4355	4355	4334	4342	4346	4356	4346	4356	4346	4342	4334	4355	4355	4377	4377
15	4345	4352	4348	4337	4313	4313	4327	4329	4324	4329	4327	4313	4313	4337	4348	4352	4345
16	4347	4321	4310	4298	4280	4304	4313	4296	4296	4296	4313	4304	4280	4298	4310	4321	4347
17	4297	4313	4280	4295	4264	4268	4276	4278	4277	4278	4276	4268	4264	4295	4280	4313	4297
18	4280	4281	4262	4245	4234	4247	4244	4246	4242	4246	4244	4247	4234	4245	4262	4281	4280
19	4256	4246	4231	4214	4204	4209	4215	4225	4204	4225	4215	4209	4204	4214	4231	4246	4256
20	4227	4217	4197	4184	4172	4177	4180	4182	4174	4182	4180	4177	4172	4184	4197	4217	4227
21	4194	4186	4165	4150	4139	4142	4147	4148	4138	4148	4147	4142	4139	4150	4165	4186	4194
22	4161	4151	4135	4115	4104	4102	4109	4112	4098	4112	4109	4102	4104	4115	4135	4151	4161
23	4128	4116	4097	4080	4066	4066	4070	4072	4063	4072	4070	4066	4066	4080	4097	4116	4128
24	4091	4078	4060	4040	4024	4025	4030	4032	4020	4032	4030	4025	4024	4040	4060	4078	4091
25	4057	4039	4021	3998	3984	3984	3989	3992	3977	3992	3989	3984	3984	3998	4021	4039	4057
26	4019	4000	3980	3958	3940	3940	3946	3948	3937	3948	3946	3940	3940	3958	3980	4000	4019
27	3976	3958	3936	3912	3897	3896	3900	3906	3888	3906	3900	3896	3897	3912	3936	3958	3976
28	3927	3913	3892	3866	3848	3849	3854	3858	3845	3858	3854	3849	3848	3866	3892	3913	3927
29	3882	3867	3844	3818	3801	3803	3809	3811	3797	3811	3809	3803	3801	3818	3844	3867	3882
30	3833	3818	3798	3771	3752	3755	3760	3762	3746	3762	3760	3755	3752	3771	3798	3818	3833
31	3784	3770	3747	3722	3701	3704	3710	3711	3694	3711	3710	3704	3701	3722	3747	3770	3784
32	3733	3719	3699	3668	3647	3649	3657	3658	3643	3658	3657	3649	3647	3668	3699	3719	3733
33	3682	3667	3644	3615	3593	3595	3604	3603	3590	3603	3604	3595	3593	3615	3644	3667	3682
34	3625	3610	3589	3561	3535	3540	3547	3545	3532	3545	3547	3540	3535	3561	3589	3610	3625
35	3564	3554	3532	3502	3477	3479	3487	3486	3478	3486	3487	3479	3477	3502	3532	3554	3564
36	3503	3494	3476	3439	3414	3418	3427	3427	3416	3427	3427	3418	3414	3439	3476	3494	3503
37	3443	3434	3412	3377	3353	3353	3364	3362	3352	3362	3364	3353	3353	3377	3412	3434	3443
38	3381	3369	3350	3313	3287	3286	3298	3298	3286	3298	3298	3286	3287	3313	3350	3369	3381
39	3317	3307	3284	3247	3219	3220	3231	3229	3222	3229	3231	3220	3219	3247	3284	3307	3317
40	3250	3237	3216	3178	3146	3147	3161	3161	3151	3161	3161	3147	3146	3178	3216	3237	3250
41	3179	3168	3145	3104	3072	3076	3085	3092	3080	3092	3085	3076	3072	3104	3145	3168	3179
42	3110	3098	3070	3029	2996	3002	3014	3017	3006	3017	3014	3002	2996	3029	3070	3098	3110
43	3041	3023	2994	2952	2918	2923	2938	2945	2934	2945	2938	2923	2918	2952	2994	3023	3041
44	2967	2950	2919	2872	2841	2845	2862	2869	2853	2869	2862	2845	2841	2872	2919	2950	2967
45	2892	2873	2842	2794	2760	2765	2784	2790	2777	2790	2784	2765	2760	2794	2842	2873	2892
46	2815	2794	2762	2712	2678	2683	2703	2713	2694	2713	2703	2683	2678	2712	2762	2794	2815
47	2735	2714	2680	2631	2596	2602	2624	2634	2614	2634	2624	2602	2596	2631	2680	2714	2735
48	2660	2634	2600	2548	2515	2520	2542	2553	2527	2553	2542	2520	2515	2548	2600	2634	2660
49	2583	2556	2517	2466	2429	2436	2460	2474	2447	2474	2460	2436	2429	2466	2517	2556	2583
50	2501	2475	2437	2382	2347	2350	2375	2390	2367	2390	2375	2350	2347	2382	2437	2475	2501
51	2425	2392	2352	2297	2262	2268	2292	2307	2279	2307	2292	2268	2262	2297	2352	2392	2425
52	2342	2309	2269	2213	2178	2183	2208	2226	2198	2226	2208	2183	2178	2213	2269	2309	2342
53	2262	2227	2186	2128	2095	2098	2124	2142	2116	2142	2124	2098	2095	2128	2186	2227	2262
54	2179	2144	2105	2046	2009	2013	2040	2060	2034	2060	2040	2013	2009	2046	2105	2144	2179
55	2099	2064	2020	1960	1926	1930	1956	1977	1956	1977	1956	1930	1926	1960	2020	2064	2099
56	2016	1983	1937	1878	1843	1848	1874	1898	1871	1898	1874	1848	1843	1878	1937	1983	2016
57	1936	1899	1856	1795	1760	1764	1792	1814	1789	1814	1792	1764	1760	1795	1856	1899	1936
58	1854	1821	1772	1714	1680	1684	1710	1737	1707	1737	1710	1684	1680	1714	1772	1821	1854
59	1772	1738	1692	1635	1601	1605	1632	1658	1630	1658	1632	1605	1601	1635	1692	1738	1772
60	1693	1660	1611	1557	1523	1527	1554	1576	1554	1576	1554	1527	1523	1557	1611	1660	1693
61	1617	1581	1535	1476	1447	1449	1475	1499	1479	1499	1475	1449	1447	1476	1535	1581	1617
62	1538	1502	1457	1401	1371	1373	1397	1426	1404	1426	1397	1373	1371	1401	1457	1502	1538
63	1460	1425	1380	1327	1298	1297	1322	1349	1323	1349	1322	1297	1298	1327	1380	1425	1460
64	1382	1352	1304	1254	1223	1226	1250	1274	1252	1274	1250	1226	1223	1254	1304	1352	1382
65	1311	1278	1232	1181	1153	1154	1178	1201	1180	1201	1178	1154	1153	1181	1232	1278	1311
66	1236	1203	1159	1112	1084	1086	1105	1129	1109	1129	1105	1086	1084	1112	1159	1203	1236
67	1165	1130	1089	1046	1020	1016	1037	1058	1035	1058	1037	1016	1020	1046	1089	1130	1165
68	1091	1060	1016	975	954	951	966	990	964	990	966	951	954	975	1016	1060	1091
69	1023	987	950	912	887	886	900	922	897	922	900	886	887	912	950	987	1023
70	956	920	883	847	823	821	834	854	828	854	834	821	823	847	883	920	956
71	890	853	818	782	762	758	772	788	763	788	772	758	762	782	818	853	890
72	822	790	755	722	701	698	709	726	700	726	709	698	701	722	755	790	822
73	762	726	697	664	646	639	650	663	640	663	650	639	646	664	697	726	762
74	701	669	636	609	588	587	588	606	583	606	5						

Luminaire Report Summary

IESNA:LM-63-2002
[TEST] Goniophotometer test
[TESTLAB] UL-CCIC (Suzhou) Co.,Ltd
[TESTDATE] 2016-10-25
[ISSUEDATE] 2016-10-25
[MANUFAC] P.Q.L., Inc.
[LUMCAT]
[LUMINAIRE] 55226/5000K
[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.