

# Photometrics Pro

## Luminaire Photometric Report

- [Evaluation Version]

**Filename:** 55222

**Manufacturer:** P.Q.L., Inc.

**Luminaire:** 55222

**Lamp Output:** 1 lamp(s), rated Lumens/lamp: 13481.14

**Max Candela:** 5,234.1 at Horizontal: 180°, Vertical: 1°

**Input Wattage:** 105.1

**Luminous Opening:** Point

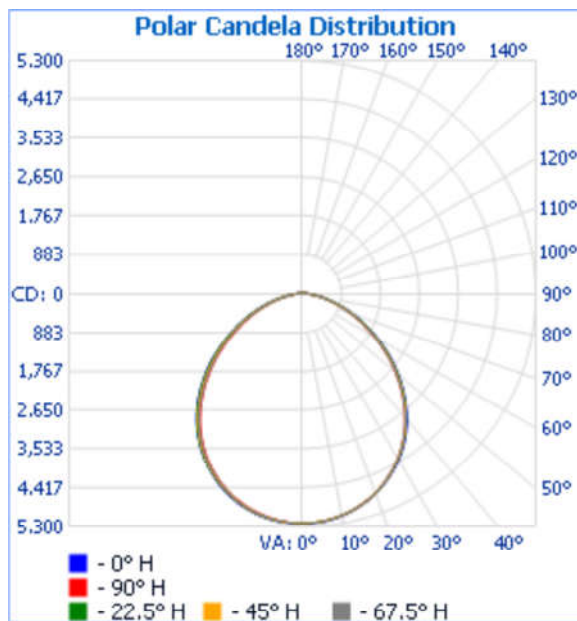
**Test:** Goniophotometer test

**Test Date:** 2018-1-5

**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:	405.5
	Lumens % Lamp
Downward Street Side:	6,683.1 49.6%
Downward House Side:	6,799.5 50.4%
Downward Total:	13,482.7 100%
Upward Street Side:	0 0%
Upward House Side:	0 0%
Upward Total:	0 0%
Total Lumens:	13,482.7 100%

### Zonal Lumen Summary

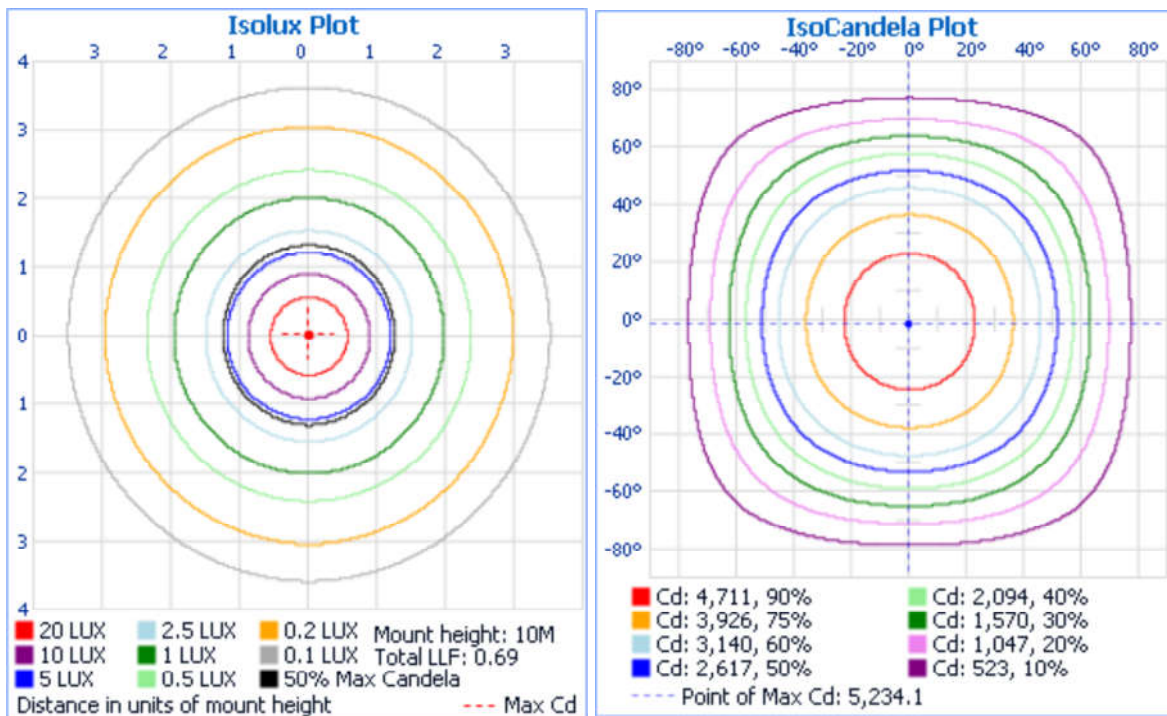
Zone	Lumens	% Luminaire
0-30	4,039.7	30%
0-40	6,562.3	48.7%
0-60	11,160.0	82.8%
60-90	2,321.1	17.2%
70-100	880.2	6.5%
90-120	0	0%
0-90	13,481.1	100%
90-180	0	0%
0-180	13,481.1	100%

### Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97.9%	13,194.9	153.9	155.7
Beam (50%):	70.7%	9,533.8	102.8	105.4
Total:	100%	13,478.4		

### Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	494.0	3.7%	90-100	0	0%
10-20	1,414.2	10.5%	100-110	0	0%
20-30	2,131.5	15.8%	110-120	0	0%
30-40	2,522.6	18.7%	120-130	0	0%
40-50	2,503.6	18.6%	130-140	0	0%
50-60	2,094.1	15.5%	140-150	0	0%
60-70	1,440.9	10.7%	150-160	0	0%
70-80	723.8	5.4%	160-170	0	0%
80-90	156.4	1.2%	170-180	0	0%



**Illuminance at a Distance**

	Center Beam LUX	Beam Width	
0.7M	<b>11,758.95 LUX</b>	<b>1.8M</b>	<b>1.7M</b>
1.3M	<b>2,939.74 LUX</b>	<b>3.5M</b>	<b>3.3M</b>
2.0M	<b>1,306.55 LUX</b>	<b>5.3M</b>	<b>5.0M</b>
2.7M	<b>734.93 LUX</b>	<b>7.0M</b>	<b>6.7M</b>
3.3M	<b>470.36 LUX</b>	<b>8.8M</b>	<b>8.3M</b>
4.0M	<b>326.64 LUX</b>	<b>10.5M</b>	<b>10.0M</b>

■ Vert. Spread: 105.4°    ■ Horiz. Spread: 102.8°

**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	50	30	20	50	30	20	50	30	20	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	1.02	1.02	1.02	1.00	1.00	1.00	1.00
1	1.09	1.05	1.01	.97	1.07	1.03	.99	.86	.99	.96	.93	.95	.92	.90	.91	.89	.87	.85	.85	.85	.85
2	1.00	.92	.86	.80	.97	.90	.84	.73	.87	.82	.77	.84	.79	.76	.81	.77	.74	.72	.72	.72	.72
3	.92	.81	.74	.67	.89	.80	.73	.63	.77	.71	.66	.74	.69	.64	.72	.67	.63	.61	.61	.61	.61
4	.84	.72	.64	.57	.82	.71	.63	.54	.69	.62	.56	.66	.60	.56	.64	.59	.55	.53	.53	.53	.53
5	.77	.65	.56	.50	.75	.64	.56	.48	.62	.54	.49	.60	.53	.48	.58	.52	.48	.46	.46	.46	.46
6	.72	.59	.50	.44	.70	.58	.49	.42	.56	.48	.43	.54	.48	.43	.53	.47	.42	.40	.40	.40	.40
7	.66	.53	.45	.39	.65	.52	.44	.38	.51	.44	.38	.49	.43	.38	.48	.42	.38	.36	.36	.36	.36
8	.62	.49	.40	.35	.60	.48	.40	.34	.47	.39	.34	.45	.39	.34	.44	.38	.34	.32	.32	.32	.32
9	.58	.45	.37	.31	.56	.44	.36	.31	.43	.36	.31	.42	.35	.31	.41	.35	.31	.29	.29	.29	.29
10	.54	.41	.33	.28	.53	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.28	.26	.26	.26	.26







**Luminaire Report Summary**

IESNA:LM-63-2002  
[TEST] Goniophotometer test  
[TESTLAB] UL-CCIC (Suzhou) Co.,Ltd  
[TESTDATE] 2018-1-5  
[ISSUEDATE] 2018-1-5  
[MANUFAC] P.Q.L., Inc.  
[LUMCAT]  
[LUMINAIRE] 55222  
[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.