



# Photometric Test Report

## Relevant Standards

IES LM-79-2008  
ANSI C82.77-10:2014  
CIE 13.3-1995

## Prepared For

P.Q.L. Inc  
2285 Ward Avenue SIMI VALLEY CA 93065

## Prepared By

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.  
588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

## Report Number

SHEE2203000068LM1

## Test Date

2022/03/10-2022/03/18

## Issue Date

2022/05/09

Prepared and checked by:

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Reviewed by:

Henry Hu  
Technical Manager

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## 1.0 Production Description

**Product Description:** Fuel Pump Canopy Luminaires

**Sample Receive date:** 2022/03/08

**Model Number:** SSC-A-FSC1-1[-PC, -MS, -SP][[-BLK, WHT, -NA, -BRZ, -CC]

**Electrical Specification:** 120-277V 50/60Hz, Field-Adjustable, 40W Max

**Color-Tunable Product:** Yes, CCT setting: 3000K, 4000K, 5000K

**Applicant:** P.Q.L. Inc

**Brand Name:** Superior Life

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

**Address:** 2285 Ward Avenue / Simi Valley, CA 93065

**Testing Location:** SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

**Address:** 588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China



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## 2.0 Goniometer Measurement and Test Results

### 2.1 Test Conditions

Before measurements are taken, there is no seasoning for the LED luminaires, and LED luminaires in emitting-light surface down position was stabilized for 1 hour in the ambient temperature  $25^{\circ}\text{C}\pm 1^{\circ}\text{C}$ .

The AC Power Source DPS-1060 (Everfine) as used to generate 120V/60Hz to the tested samples for the mentioned tests which was measured by Everfine GO-R5000 system.

The Electrical quantities are measured by means of a calibrated Digital Power Meter WT310 (Yokogawa).

The sample was mounted at emitting-light surface down position. The geometric centre of the LED luminaires was considered as optical reference centre for photometric test.

Light distribution was measured by calibrated Everfine GO-R5000 Type C goniophotometer with the distance 30 m between the detector and the sample's reference center.

The Total Luminous Flux of the light emitted by the LED luminaires was measured by calibrated Everfine GO-R5000 Type C goniophotometer with the distance 2,6 m between the detector and the sample's reference center.

The ambient temperature during measurements was  $25^{\circ}\text{C}$

The uncertainty of luminous flux measurement is  $U=2,30\%$  ( $K=2$ ), the uncertainty of the CCT measurement is  $U=1,08\%$  ( $K=2$ ), all measurements results are traceable to NIM.



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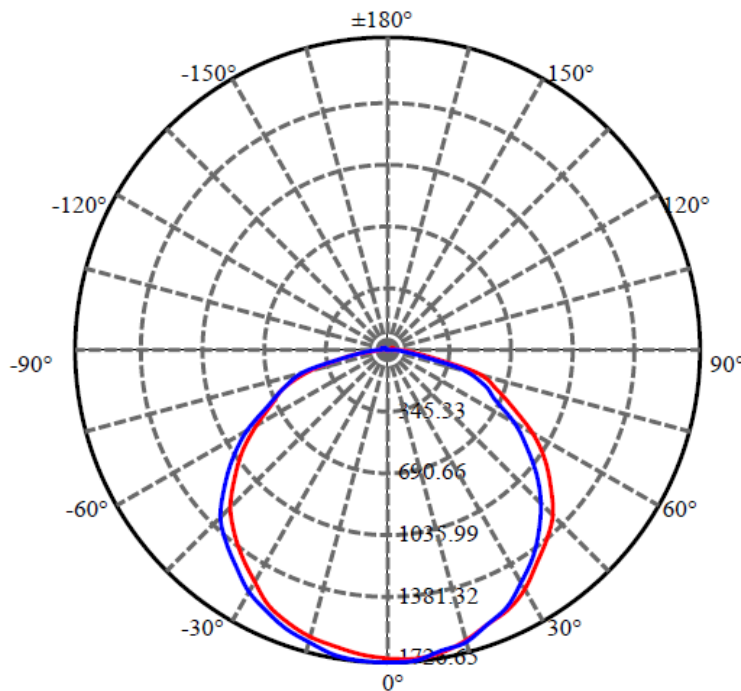
### 2.2 Electrical Characteristics

Model	Voltage (V)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
SSC-A-FSC1-1[-PC, -MS, -SP][-BLK, WHT, -NA, -BRZ, -CC]	120.05	60	0.3330	39.86	0.9958

### 2.3 Photometric Characteristics

Model	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Zonal Lumen Requirement (0 - 40°)	Zonal Lumen Requirement (40 - 70°)
SSC-A-FSC1-1[-PC, -MS, -SP][-BLK, WHT, -NA, -BRZ, -CC]	5531.33	138.77	40.49	46.87

### Light Distribution Curve



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**Zone Lumen Summary**

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1714.235	0.000	0	0.00%	0.00%
5.0	1706.481	40.894	40.894	0.00%	0.74%
10.0	1683.763	121.280	162.173	0.00%	2.93%
15.0	1655.395	198.077	360.25	0.00%	6.51%
20.0	1610.937	269.192	629.441	0.00%	11.38%
25.0	1560.724	332.649	962.09	0.00%	17.39%
30.0	1496.856	386.939	1349.029	0.00%	24.39%
35.0	1422.297	429.866	1778.895	0.00%	32.16%
40.0	1338.595	460.634	2239.529	0.00%	40.49%
45.0	1248.330	478.990	2718.519	0.00%	49.15%
50.0	1134.990	481.585	3200.104	0.00%	57.85%
55.0	1010.800	466.566	3666.67	0.00%	66.29%
60.0	875.734	436.067	4102.737	0.00%	74.17%
65.0	732.491	390.962	4493.699	0.00%	81.24%
70.0	603.829	338.365	4832.064	0.00%	87.36%
75.0	464.171	279.158	5111.222	0.00%	92.40%
80.0	260.685	193.951	5305.173	0.00%	95.91%
85.0	124.031	104.537	5409.71	0.00%	97.80%
90.0	55.995	49.293	5459.003	0.00%	98.69%
95.0	33.767	24.578	5483.58	0.00%	99.14%
100.0	26.053	16.254	5499.834	0.00%	99.43%
105.0	14.951	10.972	5510.806	0.00%	99.63%
110.0	11.723	6.972	5517.778	0.00%	99.75%
115.0	7.462	4.858	5522.636	0.00%	99.84%
120.0	3.427	2.647	5525.283	0.00%	99.89%
125.0	1.667	1.177	5526.461	0.00%	99.91%
130.0	1.482	0.685	5527.145	0.00%	99.92%
135.0	1.707	0.644	5527.79	0.00%	99.94%
140.0	1.813	0.652	5528.442	0.00%	99.95%
145.0	1.853	0.612	5529.053	0.00%	99.96%
150.0	2.011	0.569	5529.622	0.00%	99.97%
155.0	2.064	0.516	5530.138	0.00%	99.98%
160.0	2.011	0.427	5530.565	0.00%	99.99%
165.0	2.077	0.337	5530.902	0.00%	99.99%
170.0	1.945	0.239	5531.141	0.00%	100.00%
175.0	2.037	0.142	5531.283	0.00%	100.00%
180.0	2.249	0.051	5531.334	0.00%	100.00%



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**Intensity Data(cd)**

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	1709.07	1706.11	1692.99	1657.84	1620.37	1576.34	1519.60	1442.75	1366.75
22.5	1712.67	1710.56	1693.83	1663.98	1608.94	1560.46	1509.23	1428.99	1339.87
45.0	1714.79	1713.73	1687.06	1657.63	1618.47	1550.09	1477.90	1401.89	1306.84
67.5	1716.27	1712.89	1681.34	1664.62	1604.71	1551.99	1475.99	1392.79	1292.87
90.0	1726.65	1724.11	1690.02	1670.12	1610.21	1561.94	1483.40	1400.62	1302.18
112.5	1715.21	1711.19	1671.18	1650.86	1600.05	1546.49	1471.76	1397.03	1299.01
135.0	1710.56	1698.91	1673.09	1629.26	1598.78	1530.40	1468.37	1393.64	1308.75
157.5	1708.65	1694.89	1672.45	1639.85	1586.50	1532.73	1475.14	1395.54	1302.18
180.0	1709.07	1691.08	1663.98	1638.37	1600.47	1549.45	1478.95	1397.87	1318.06
202.5	1712.67	1692.56	1671.60	1635.83	1598.78	1552.63	1480.22	1405.28	1328.65
225.0	1714.79	1699.97	1676.47	1642.18	1603.44	1542.46	1495.47	1424.76	1352.78
247.5	1716.27	1706.11	1683.46	1660.17	1609.57	1567.66	1499.28	1435.34	1355.96
270.0	1726.65	1720.08	1704.21	1674.14	1634.13	1588.62	1530.82	1460.75	1386.65
292.5	1715.21	1707.17	1697.22	1673.09	1623.55	1595.60	1528.07	1466.46	1384.75
315.0	1710.56	1708.23	1689.17	1668.22	1629.26	1577.18	1526.80	1459.05	1391.94
337.5	1708.65	1706.11	1692.14	1660.17	1627.78	1587.56	1528.70	1453.97	1380.30
360.0	1709.07	1706.11	1692.99	1657.84	1620.37	1576.34	1519.60	1442.75	1366.75

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	1295.20	1183.84	1057.03	929.37	766.79	646.54	523.54	290.88	137.61
22.5	1257.51	1148.91	1014.27	888.52	740.32	596.79	465.32	279.24	142.69
45.0	1203.74	1092.17	978.49	838.34	700.52	571.39	438.22	283.47	138.24
67.5	1192.52	1072.49	931.49	798.12	662.63	554.87	427.00	238.17	116.86
90.0	1203.53	1074.60	933.82	810.19	660.30	575.20	437.17	222.08	101.41
112.5	1193.79	1071.00	935.30	793.88	656.07	552.54	422.56	222.50	106.49
135.0	1205.86	1092.81	965.15	825.01	695.02	553.81	405.20	239.01	112.84
157.5	1213.90	1098.52	983.57	852.74	713.23	591.71	445.00	219.96	108.82
180.0	1225.97	1103.82	985.69	841.73	703.70	606.53	430.39	208.10	103.31
202.5	1243.12	1133.67	1020.19	890.00	755.36	612.67	475.91	231.60	109.66
225.0	1257.30	1162.88	1048.14	913.50	783.30	630.03	457.28	276.48	126.81
247.5	1272.33	1157.80	1035.44	896.14	753.66	610.55	495.81	277.54	124.69
270.0	1301.12	1174.53	1047.93	898.47	733.13	609.70	482.68	246.42	117.28
292.5	1302.61	1190.40	1063.38	925.56	771.02	619.87	494.33	293.63	137.18
315.0	1298.37	1201.62	1095.98	963.25	821.62	668.13	500.04	326.02	153.91
337.5	1306.42	1200.78	1076.93	946.95	803.20	660.94	526.29	315.86	146.71
360.0	1295.20	1183.84	1057.03	929.37	766.79	646.54	523.54	290.88	137.61

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	64.78	34.30	34.93	28.37	19.05	12.70	1.27	1.06	1.48
22.5	68.59	36.84	29.43	20.75	13.34	8.68	1.27	1.27	1.48
45.0	67.53	37.26	23.71	10.37	6.56	2.54	1.48	1.69	1.48
67.5	55.04	37.26	4.66	16.09	8.68	4.87	2.75	1.91	1.69
90.0	44.88	33.03	27.73	7.83	12.70	9.32	5.29	2.54	1.69
112.5	49.33	33.03	16.72	9.95	6.35	4.66	2.54	1.48	1.48
135.0	51.66	31.54	19.69	10.37	4.66	1.91	0.85	1.06	1.27
157.5	49.54	34.08	27.95	19.05	13.13	8.68	5.08	1.27	1.48
180.0	44.67	35.57	34.93	25.62	18.63	12.28	8.26	1.27	1.27
202.5	47.85	32.39	29.64	19.48	13.55	8.89	5.29	1.06	1.27
225.0	55.04	30.70	23.92	12.49	6.14	4.02	0.85	1.06	1.27
247.5	54.41	32.39	31.76	3.18	11.86	7.20	4.23	1.69	1.27
270.0	51.02	34.30	37.47	2.75	18.21	13.34	8.68	4.87	2.12
292.5	59.70	32.81	17.15	17.36	11.86	7.83	4.23	1.91	1.69
315.0	65.63	31.97	25.19	12.28	7.83	2.75	1.48	1.27	1.48
337.5	66.26	32.81	31.97	23.29	15.03	9.74	1.27	1.27	1.27
360.0	64.78	34.30	34.93	28.37	19.05	12.70	1.27	1.06	1.48



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**Intensity Data(cd)--continued**

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	1.91	1.91	1.69	1.91	2.12	1.91	2.12	2.12	2.12
22.5	1.69	1.91	2.12	1.91	2.12	1.69	1.91	1.91	2.12
45.0	1.69	1.91	1.69	2.12	2.12	2.12	2.12	2.12	2.12
67.5	1.91	2.12	2.33	2.12	2.33	2.12	2.12	1.69	2.12
90.0	1.69	1.69	1.91	2.12	2.12	2.33	2.12	1.91	1.91
112.5	1.69	1.91	1.69	2.12	1.91	1.91	2.12	1.91	1.91
135.0	1.69	1.69	1.48	1.69	1.91	1.91	1.91	1.69	1.91
157.5	1.69	1.48	1.69	1.91	1.91	1.91	1.69	1.91	1.91
180.0	1.48	1.69	1.69	1.91	1.69	1.91	2.12	2.12	1.91
202.5	1.27	1.69	1.69	1.91	1.91	1.69	1.91	1.91	1.91
225.0	1.48	1.48	1.69	1.91	1.91	2.12	1.91	1.91	2.12
247.5	1.48	1.69	1.69	1.91	2.12	1.91	1.91	2.12	1.91
270.0	2.33	2.33	2.54	2.54	2.54	2.54	2.75	2.33	2.75
292.5	2.12	1.91	1.91	1.91	2.33	1.91	2.12	1.69	2.12
315.0	1.69	1.69	1.91	1.91	1.69	2.12	2.12	2.12	1.91
337.5	1.48	1.91	1.91	2.33	2.33	2.12	2.33	1.69	1.91
360.0	1.91	1.91	1.69	1.91	2.12	1.91	2.12	2.12	2.12

C/γ(°)	180.0
0.0	2.33
22.5	2.12
45.0	2.12
67.5	2.33
90.0	2.75
112.5	2.12
135.0	2.12
157.5	2.12
180.0	2.33
202.5	2.12
225.0	2.12
247.5	2.33
270.0	2.75
292.5	2.12
315.0	2.12
337.5	2.12
360.0	2.33



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### 3.0 Integrating Sphere Measurement and Test Results

#### 3.1 Test condition

Before measurements are taken, there is no seasoning for the LED luminaires, and LED luminaires in emitting-light surface down position was stabilized for 1 hour in the ambient temperature 25°C±1°C.

The AC Power Source DPS-1010 (Everfine) as used to generate 120V/60Hz to the tested samples for the mentioned tests which was measured by EVERFINE HAAS-2000 integrating sphere system.

The Color Characteristics of the light was measured by EVERFINE HAAS-2000 High accuracy array spectroradiometer integrated into 2 m integrating sphere with an interior coating reflectance of 98%; the 4 π geometry is used for photometric measurement.

#### 3.2 Electrical Characteristics

Model	Voltage (V)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
SSC-A-FSC1-1[-PC, -MS, -SP][-BLK, WHT, -NA, -BRZ, -CC]	120.01	60	0.337	40.32	0.996
	120.03	60	0.327	39.00	0.995
	120.06	60	0.343	41.06	0.997

#### 3.3 Photometric and Color Characteristics

Model	Luminous Flux (lm)	Luminous Efficacy (lm/W)	CCT (K)	CRI	R9
SSC-A-FSC1-1[-PC, -MS, -SP][-BLK, WHT, -NA, -BRZ, -CC]	5588.47	138.6	3099	81.7	2
	5881.38	150.8	3734	83.5	10
	5834.52	142.1	5226	82.6	5

Model	Rf	Rg	Rcs,h1(%)	-
SSC-A-FSC1-1[-PC, -MS, -SP][-BLK, WHT, -NA, -BRZ, -CC]	83	97	-12	-
	84	97	-12	-
	82	96	-13	-



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### 3.4 Chromaticity Coordinate

Model	Duv	x	y	u'	v'
SSC-A-FSC1-1[-PC, -MS, -SP][-BLK, WHT, -NA, -BRZ, -CC]	-0.00167	0.4278	0.3967	0.2478	0.5171
	-0.00313	0.3903	0.3759	0.2320	0.5027
	-0.00082	0.3390	0.3450	0.2098	0.4805



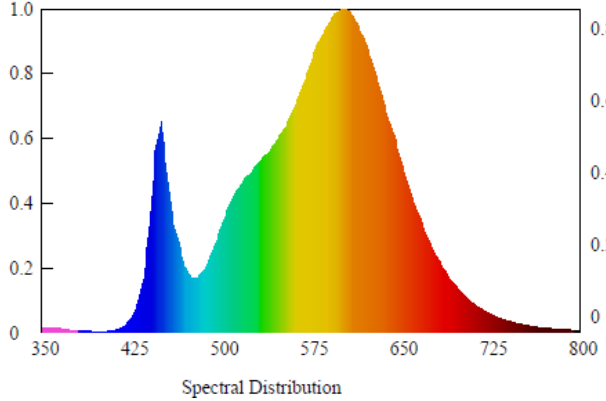
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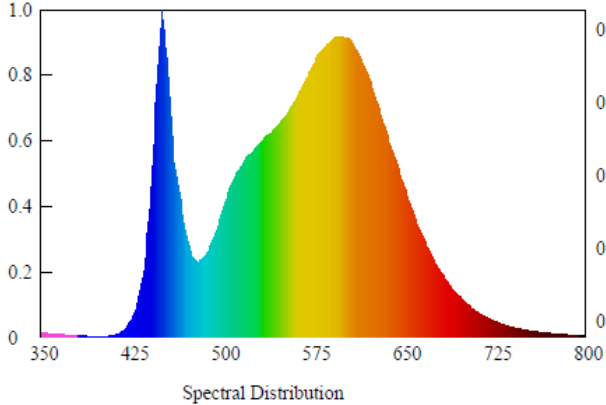
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**Spectrum**

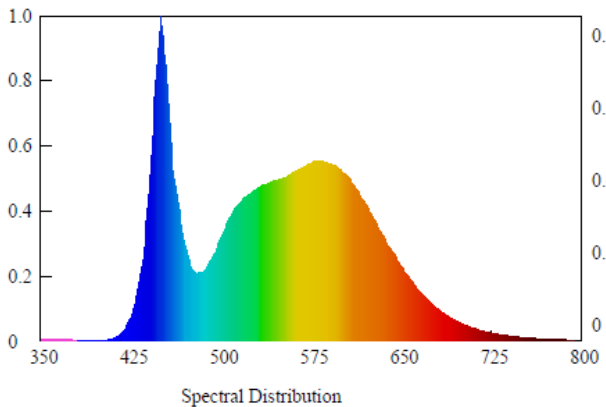
SSC-A-FSC1-1[-PC, -MS, -SP][-BLK, WHT, -NA, -BRZ, -CC], 3000K



SSC-A-FSC1-1[-PC, -MS, -SP][-BLK, WHT, -NA, -BRZ, -CC], 4000K



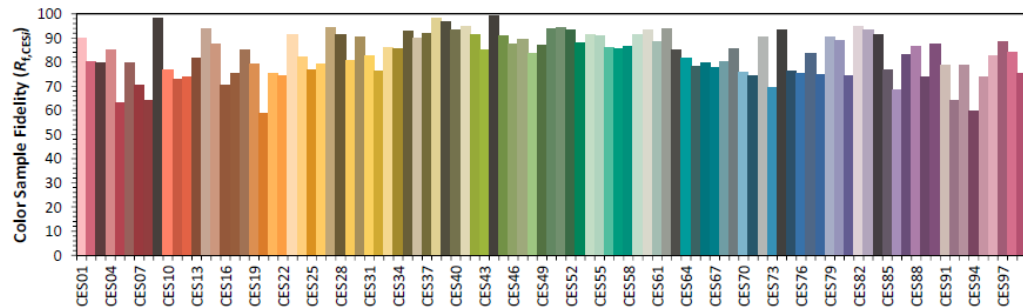
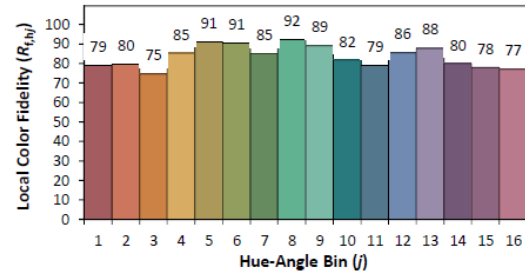
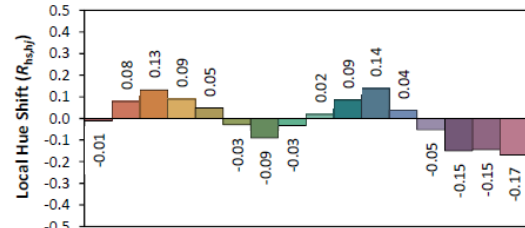
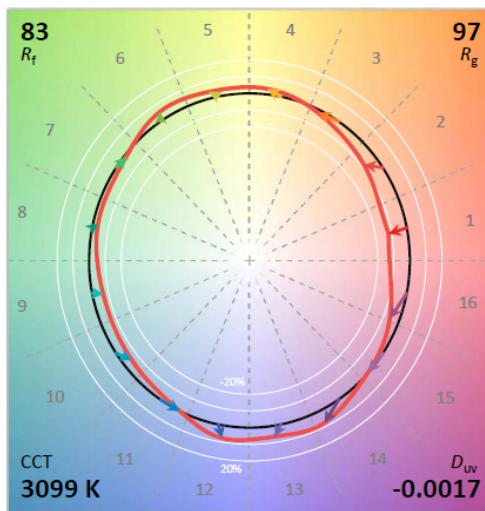
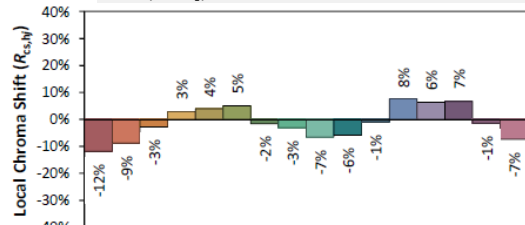
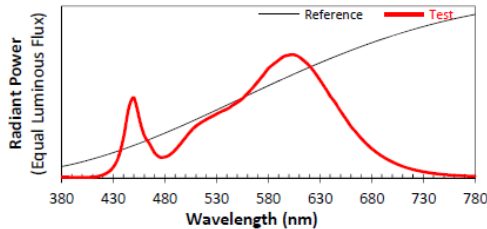
SSC-A-FSC1-1[-PC, -MS, -SP][-BLK, WHT, -NA, -BRZ, -CC], 5000K



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### ANSI/IES TM-30-18 Color Rendition Report

Source: SHEE2203000068LM1      Manufacturer: P.Q.L. Inc  
 Date: 2022/03/24      Model: SSC-A-FSC1-1[-PC, -MS, -SP][-BLK, WHT, -NA, -BRZ, -CC], 3000K



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.4278  
 y 0.3967  
 u' 0.2478  
 v' 0.5171

CIE 13.3-1995 (CRI)	
R <sub>a</sub>	82
R <sub>g</sub>	2

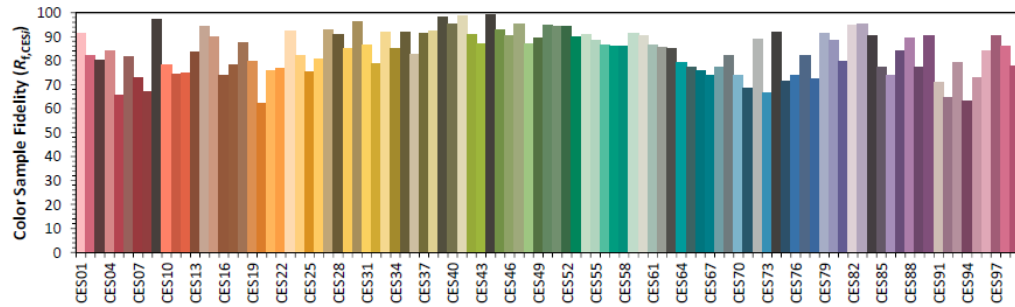
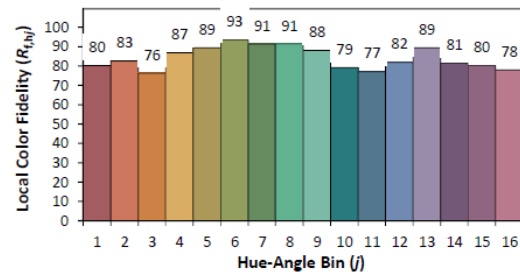
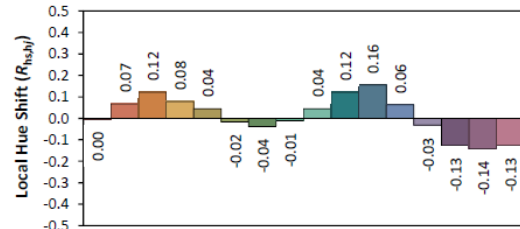
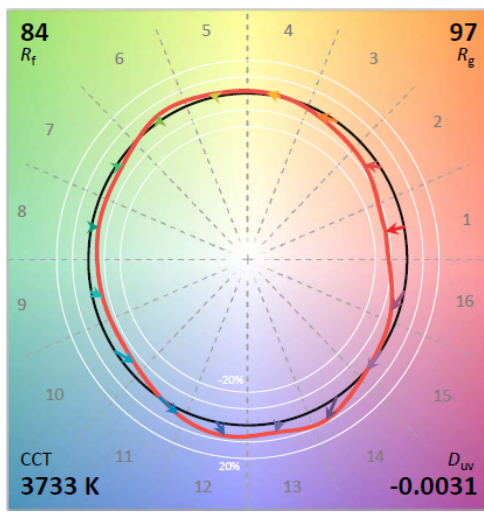
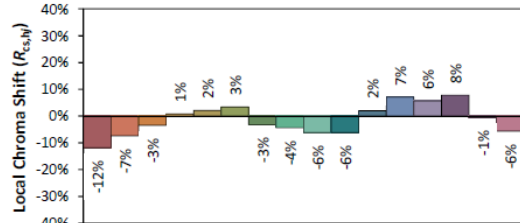
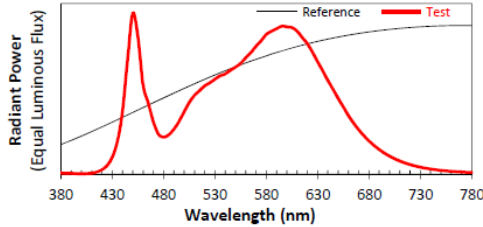
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 Date: 2022/03/24      Model: SSC-A-FSC1-1[-PC, -MS, -SP][-BLK, WHT, -NA, -BRZ, -CC], 4000K



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

$x$	0.3903	CIE 13.3-1995 (CRI)	
$y$	0.3759		
$u'$	0.2320		
$v'$	0.5027		
		$R_a$	84
		$R_g$	10

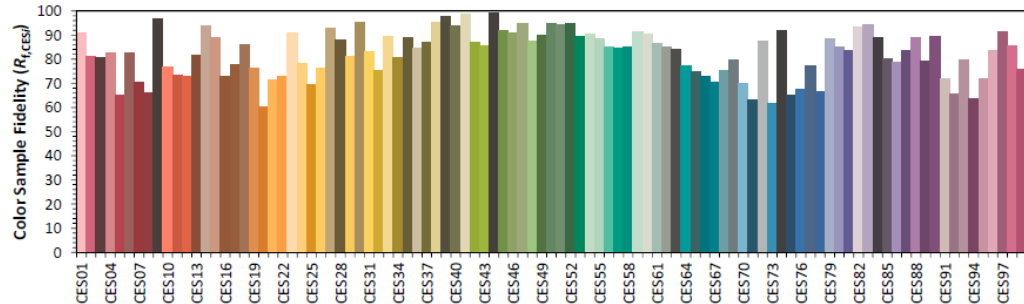
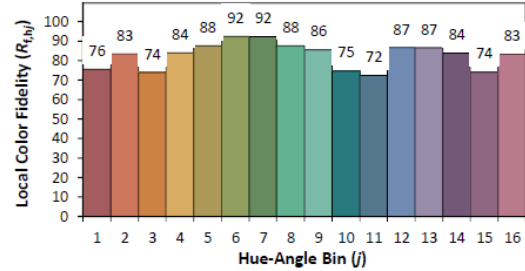
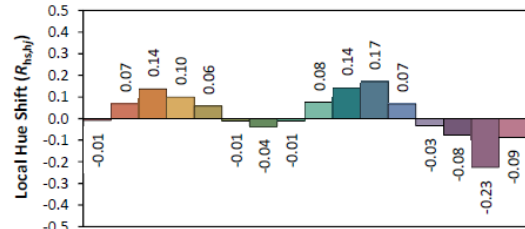
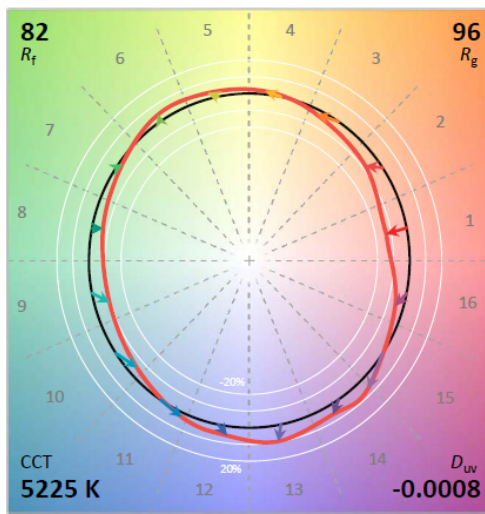
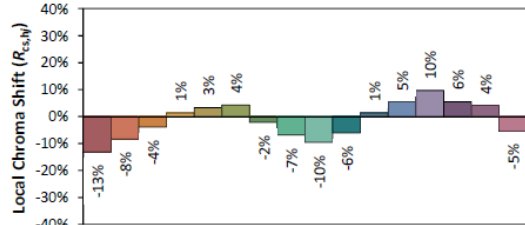
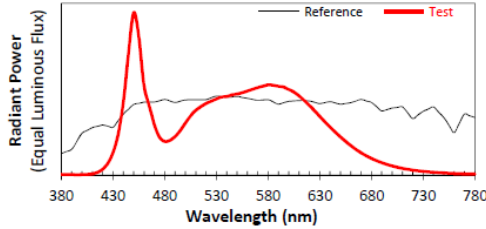
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 Date: 2022/03/24      Model: SSC-A-FSC1-1[-PC, -MS, -SP][-BLK, WHT, -NA, -BRZ, -CC], 5000K



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

$x$	0.3390	CIE 13.3-1995 (CRI) $R_a$ 83 $R_g$ 5
$y$	0.3450	
$u'$	0.2098	
$v'$	0.4805	

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## 4.0 THD and PF Test

### 4.1 Test Conditions

The samples were tested according to the ANSI C82.77-10:2014.

The total harmonic distortion shall be measured to the 40<sup>th</sup> order.

The ambient temperature condition was maintained at 25°C±1°C. The sample measurements were made using a digital power meter and power supply. The sample was operated at rated voltage and was stabilized before measurement. The total harmonic distortion was calculated.

### 4.2 Test Results

Model	CCT	Voltage (V)	Frequency (Hz)	Power Factor	THDi
SSC-A-FSC1-1[-PC, -MS, -SP][-BLK, WHT, -NA, -BRZ, -CC]	3000	120	60	0.996	6.0%
		277	60	0.975	3.9%
	4000	277	60	0.976	4.7%
	5000	277	60	0.976	4.1%



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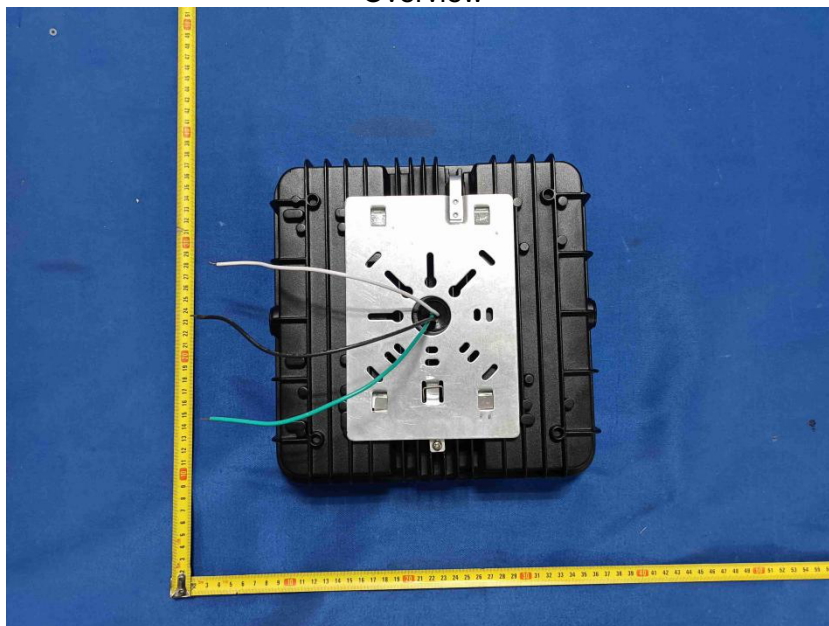
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## Annex I Photo documentation



Overview



Overview



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## Annex II: Standard Bulb Used for System Calibration

### Everfine GO-R5000 system

Model	D908S
Intensity Distribution Type	Omni-Directional Type
Calibration current(A)	7,3200
Reference voltage (V)	90,30
Calibration CCT (K)	2856
Calibration luminous Flux (lm)	11270

### Everfine HAAS-2000 integrating sphere system

Model	D204
Intensity Distribution Type	Omni-Directional Type
Calibration current (A)	3,9370
Reference voltage (V)	20,05
Calibration CCT (K)	2856
Calibration luminous Flux (lm)	1329



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### Annex III: List of Equipment Used

Registration No	Equipment name	Model No	Manufacturer	Cal. Date	Due Date
SHES333401a	Goniophotometer	GO-R5000	Everfine	2022/02/23	2022/12/26
SHES333401b	The controller	CT500	Everfine	2022/02/23	2022/12/26
SHES333401c	Spectral radiometer	HAAS-2000	Everfine	2022/02/23	2022/12/26
SHES333401d	Standard light source for GO-R5000 system	D908S	Everfine	2021/7/3	2022/7/2
SHES333401h	AC Power source	DPS-1060	Everfine	2022/02/23	2022/12/26
SHES300310	Digital Power Meter	WT310	Yokogawa	2022/02/23	2022/12/26
SHES300311	Digital Power Meter	WT310	Yokogawa	2022/02/23	2022/12/26
SHES333301	High-precision rapid spectral radiometer	HAAS-2000	Everfine	2022/02/23	2022/12/26
SHES333301c	Power Meter	DPS1010	Everfine	2022/02/23	2022/12/26
SHES333301d	Integrating sphere	AIS-2_2.0m	Everfine	2022/02/23	2022/12/26
SHES331506	Standard light source	D204	Everfine	2021/4/3	2022/4/2
SHES300304	Power meter	WT1800	Yokogawa	2021/7/2	2022/7/1

— End of report —



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