

# Beyond LED Technology

## TEST REPORT

### SCOPE OF WORK

PERFORMANCE TEST ACCORDING TO LM79 - LED SOURCE PRODUCTS

MODEL NO.: FXF01002-A001

### REPORT NUMBER

230300632HZH-002

### ISSUE DATE

22-March-2023

### [REVISED DATE]

[None]

### PAGES

21

### DOCUMENT CONTROL NUMBER

Test Template \_ HZH\_ LM79 ED2.0

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## TEST REPORT

**REPORT NO.** 230300632HZH-002

**TEST OF** LM-79  
For <LED Luminaire>

**MODEL NO.** FXF01002-A001

**RENDERED TO**  
LEDVANCE LLC  
200 BALLARDVALE STREET WILMINGTON MA 01887,USA

### STATEMENT OF ACCREDITATION AND LIMITATION

NVLAP Lab Code 600180-0. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

### STANDARDS USED

The following standards or test guides were used in part or totally to test each specimen:

ORGANIZATION	IDENTIFIER	TITLE
IESNA	LM-79-2008	Approved Method for Electrical and Photometric Measurements of Solid-State Lighting Products
ANSI / ANSLG	C78.377-2015	Specifications of the Chromaticity of Solid State Lighting Products

### DESCRIPTION OF SAMPLE

The client submitted LED produced on March of 2023, total 1 sample of model number FXF01002-A001. The sample was received by Intertek Hangzhou on March 1, 2023 in normal condition, and the sample was tested as received.

### DATES OF TESTS

1-March-2023~10-March-2023

**Issued by:** Intertek Testing Services Zhejiang ltd Hangzhou branch

**Test Location:** 4th floor,Building 4#,No.22,22nd Street, Qiantang District, Hangzhou, 310018 China

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## TEST REPORT

### SUMMARY

<b>TEST MODEL:</b>	FXF01002-A001
<b>DESIGN CATEGORY:</b>	LED DOWNLIGHT RECESSED AND RETROFIT
<b>RATED VALUE</b>	FXF01002-A001: 120-277V, 50/60HZ 13W-19W-27W, 1500lm-2000lm-3000lm, Color Tunable :2700K-3000K-3500K-4000K-5000K, Dimmed
<b>COLOR-TUNABLE:</b>	Yes, Color Tunable :2700K-3000K-3500K-4000K-5000K
<b>REMARK</b>	1.All models are identical same except Input voltage and whether with 26 Caps. FXF01002B-A001 and FXF01002F-A001 have E26 Caps, FXF01002-A001 and FXF01002D-A001 Connection type is Direct Wired. 2. The luminaire's CCT can be adjusted 13W-19W-27W, according to request of applicant, all measures were reference 27W of FXF01002-A001,

#### @27W 2700K

Criteria	Result
Input Voltage(Vac)	120
Frequency(Hz)	60
Total Power (W)	26.63
Power Factor	0.990
Total Lumen Output (Lumens)	3069.8
Luminaire Efficacy (LPW)	115.28
Correlated Color Temperature (CCT - K)	2747
Color Rendering Index (CRI) – Ra	82.5
Color Rendering Index (CRI) - R9	12
Duv	0.0014
Chromaticity Coordinate (x)	0.4584
Chromaticity Coordinate (y)	0.4139
Chromaticity Coordinate (u')	0.2601
Chromaticity Coordinate (v')	0.5284

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## TEST REPORT

### @27W 3000K

Criteria	Result
Input Voltage(Vac)	120
Frequency(Hz)	60
Total Power (W)	26.25
Power Factor	0.989
Total Lumen Output (Lumens)	3180.9
Luminaire Efficacy (LPW)	121.18
Correlated Color Temperature (CCT - K)	3022
Color Rendering Index (CRI) – Ra	84.0
Color Rendering Index (CRI) - R9	17
Duv	-0.0065
Chromaticity Coordinate (x)	0.4345
Chromaticity Coordinate (y)	0.4016
Chromaticity Coordinate (u')	0.2500
Chromaticity Coordinate (v')	0.5200

### @27W 3500K

Criteria	Result
Input Voltage(Vac)	120
Frequency(Hz)	60
Total Power (W)	25.71
Power Factor	0.989
Total Lumen Output (Lumens)	3285.5
Luminaire Efficacy (LPW)	127.79
Correlated Color Temperature (CCT - K)	3485
Color Rendering Index (CRI) – Ra	85.2
Color Rendering Index (CRI) - R9	22
Duv	-0.0019
Chromaticity Coordinate (x)	0.4042
Chromaticity Coordinate (y)	0.3860
Chromaticity Coordinate (u')	0.2370
Chromaticity Coordinate (v')	0.5091

\*\*\*\*\* End of Page \*\*\*\*\*

**TEST REPORT**

**@27W 4000K**

Criteria	Result
Input Voltage(Vac)	120
Frequency(Hz)	60
Total Power (W)	25.93
Power Factor	0.989
Total Lumen Output (Lumens)	3279.9
Luminaire Efficacy (LPW)	126.49
Correlated Color Temperature (CCT - K)	3980
Color Rendering Index (CRI) – Ra	85.3
Color Rendering Index (CRI) - R9	24
Duv	-0.0017
Chromaticity Coordinate (x)	0.3802
Chromaticity Coordinate (y)	0.3731
Chromaticity Coordinate (u')	0.2264
Chromaticity Coordinate (v')	0.4999

**@27W 5000K**

Criteria	Result
Input Voltage(Vac)	120
Frequency(Hz)	60
Total Power (W)	26.60
Power Factor	0.990
Total Lumen Output (Lumens)	3145.3
Luminaire Efficacy (LPW)	118.24
Correlated Color Temperature (CCT - K)	4994
Color Rendering Index (CRI) – Ra	83.0
Color Rendering Index (CRI) - R9	12
Duv	0.0017
Chromaticity Coordinate (x)	0.3456
Chromaticity Coordinate (y)	0.3553
Chromaticity Coordinate (u')	0.2103
Chromaticity Coordinate (v')	0.4865

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### TEST REPORT

#### EQUIPMENT LIST

Equipment Used	Control Number	Model Number	Manufacturer
Fluke Temperature Meter	EH1513	52II	Fluke
Power Supply for integrating sphere	EH2324-2	APW-105N	Allpower
Digital Power Meter for integrating sphere	EH2106	2053AH	XITRON
Integrating sphere	EH2108-2	2m	Sensing
Spectroradiometer	EH2385	MCS-2000	Sensing
Power source for Goniophotometer System	EH2453-1	DPS1060_V200	Everfine
Digital Power Meter for goniophotometer	EH2453-3	WT-310E	Everfine
Goniophotometer System	EH2453	GO-R5000	Everfine

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## TEST REPORT

### TEST METHODS

#### SEASONING IN SAMPLE ORIENTATION – LED PRODUCTS

No seasoning was performed in accordance with IESNA LM-79

#### TEST CONDITION

The voltage of power supply applied for all EUTs was regulated to 12VAC or other rated voltage within  $\pm 0.2$  percent. Each EUT was pre-conditioned to stabilization status according to IESNA LM-79 before testing. Temperature of  $25^{\circ}\text{C}\pm 1$  was maintained for initial photometric testing.

#### PHOTOMETRIC AND ELECTRICAL MEASUREMENTS – DISTRIBUTION METHOD

Total light output (luminous flux) and light distribution were measured using a Go-R5000 Type-C Rotating Mirror Goniophotometer measurement system, Goniometer was used to measure the intensity (candelas) at each angle of distribution for each sample. Ambient temperature was measured equal to the height of the sample mounted on the Goniometer equipment. Electrical measurements including voltage, current, and power were measured using the power analyzer. Some graphics were created with Photometrics Plus software.

#### PHOTOMETRIC AND ELECTRICAL MEASUREMENTS – INTEGRATING SPHERE METHOD

A spectroradiometer and two meters sphere was used to measure correlated color temperature, chromaticity coordinates, and the color rendering index for each SSL unit. Ambient temperature was measured at a position inside the sphere. Electrical measurements including voltage, current, and power were measured using the power analyzer.

**TEST REPORT**

**RESULTS OF TESTS**

PHOTOMETRIC AND ELECTRICAL MEASUREMENTS AT 25°C @ 27W 2700K

MODEL NO .	INPUT VOLTAGE (VAC)	INPUT CURRENT (A)	INPUT POWER (WATTS)	INPUT POWER FACTOR		ABSOLUTE LUMINOUS FLUX (LUMENS)	EFFICACY (LUMENS PER WATT)	STABILIZED TIME (MIN.)
FXF01002-A001	120.0	0.224	26.63	0.990	--	3069.8	115.28	30

SPECTRAL DISTRIBUTION OVER VISIBLE WAVELENGTHS @ 27W 2700K

CORRELATED COLOR TEMPERATURE (K)	CRI -RA	CRI - R9	DUV	CIE 31' CHROMATICITY COORDINATE (X)	CIE 31' CHROMATICITY COORDINATE (Y)	CIE 76' CHROMATICITY COORDINATE (U')	CIE 76' CHROMATICITY COORDINATE (V')
2747	82.5	12	0.0014	0.4584	0.4139	0.2601	0.5284

PHOTOMETRIC AND ELECTRICAL MEASUREMENTS AT 25°C @ 27W 3000K

MODEL NO .	INPUT VOLTAGE (VAC)	INPUT CURRENT (A)	INPUT POWER (WATTS)	INPUT POWER FACTOR		ABSOLUTE LUMINOUS FLUX (LUMENS)	EFFICACY (LUMENS PER WATT)	STABILIZED TIME (MIN.)
FXF01002-A001	120.0	0.221	26.25	0.989	--	3180.9	121.18	30

SPECTRAL DISTRIBUTION OVER VISIBLE WAVELENGTHS @ 27W 3000K

CORRELATED COLOR TEMPERATURE (K)	CRI -RA	CRI - R9	DUV	CIE 31' CHROMATICITY COORDINATE (X)	CIE 31' CHROMATICITY COORDINATE (Y)	CIE 76' CHROMATICITY COORDINATE (U')	CIE 76' CHROMATICITY COORDINATE (V')
3022	84.0	17	-0.0065	0.4345	0.4016	0.2500	0.5200



**TEST REPORT**

**RESULTS OF TESTS**

PHOTOMETRIC AND ELECTRICAL MEASUREMENTS AT 25°C @ 27W 3500K

MODEL NO .	INPUT VOLTAGE (VAC)	INPUT CURRENT (A)	INPUT POWER (WATTS)	INPUT POWER FACTOR		ABSOLUTE LUMINOUS FLUX (LUMENS)	EFFICACY (LUMENS PER WATT)	STABILIZED TIME (MIN.)
FXF01002-A001	120.0	0.216	25.71	0.989	--	3285.5	127.79	30

SPECTRAL DISTRIBUTION OVER VISIBLE WAVELENGTHS @ 27W 3500K

CORRELATED COLOR TEMPERATURE (K)	CRI -RA	CRI -R9	DUV	CIE 31' CHROMATICITY COORDINATE (X)	CIE 31' CHROMATICITY COORDINATE (Y)	CIE 76' CHROMATICITY COORDINATE (U')	CIE 76' CHROMATICITY COORDINATE (V')
3485	85.2	22	-0.0019	0.4042	0.3860	0.2370	0.5091

PHOTOMETRIC AND ELECTRICAL MEASUREMENTS AT 25°C @27W 4000K

MODEL NO .	INPUT VOLTAGE (VAC)	INPUT CURRENT (A)	INPUT POWER (WATTS)	INPUT POWER FACTOR		ABSOLUTE LUMINOUS FLUX (LUMENS)	EFFICACY (LUMENS PER WATT)	STABILIZED TIME (MIN.)
FXF01002-A001	120.0	0.218	25.93	0.989	--	3279.9	126.49	30

SPECTRAL DISTRIBUTION OVER VISIBLE WAVELENGTHS @ 27W 4000K

CORRELATED COLOR TEMPERATURE (K)	CRI -RA	CRI -R9	DUV	CIE 31' CHROMATICITY COORDINATE (X)	CIE 31' CHROMATICITY COORDINATE (Y)	CIE 76' CHROMATICITY COORDINATE (U')	CIE 76' CHROMATICITY COORDINATE (V')
3980	85.3	24	-0.0017	0.3802	0.3731	0.2264	0.4999

**TEST REPORT**

**RESULTS OF TESTS**

PHOTOMETRIC AND ELECTRICAL MEASUREMENTS AT 25°C @ 27W 5000K

MODEL NO .	INPUT VOLTAGE (VAC)	INPUT CURRENT (A)	INPUT POWER (WATTS)	INPUT POWER FACTOR		ABSOLUTE LUMINOUS FLUX (LUMENS)	EFFICACY (LUMENS PER WATT)	STABILIZED TIME (MIN.)
FXF01002-A001	120.0	0.224	26.60	0.990	--	3145.3	118.24	30

SPECTRAL DISTRIBUTION OVER VISIBLE WAVELENGTHS @ 27W 5000K

CORRELATED COLOR TEMPERATURE (K)	CRI -RA	CRI -R9	DUV	CIE 31' CHROMATICITY COORDINATE (X)	CIE 31' CHROMATICITY COORDINATE (Y)	CIE 76' CHROMATICITY COORDINATE (U')	CIE 76' CHROMATICITY COORDINATE (V')
4994	83.0	12	0.0017	0.3456	0.3553	0.2103	0.4865

## TEST REPORT

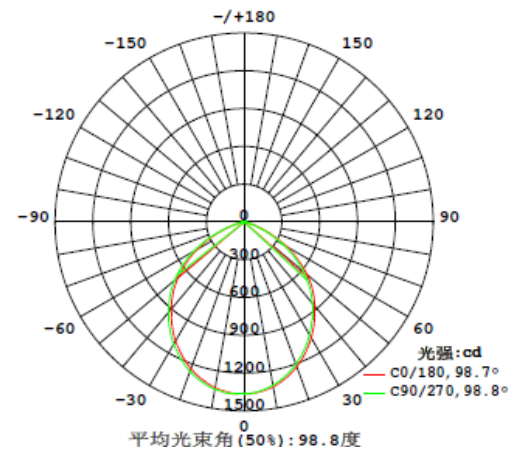
### RESULTS OF TESTS (CONT'D)

#### PHOTOMETRIC AND ELECTRICAL MEASUREMENTS – DISTRIBUTION METHOD@27W 2700K

INTERTEK SAMPLE NO.	BASE ORIENTATION	INPUT VOLTAGE (Vac)	INPUT CURRENT (MA)	INPUT POWER (WATTS)	INPUT POWER FACTOR	ABSOLUTE LUMINOUS FLUX (LUMENS)	LUMEN EFFICACY (LUMENS PER WATT)
1220620-01-002	/	120	224	26.63	0.990	3069.8	115.28

#### INTENSITY (CANDLEPOWER) SUMMARY AT 25°C – CANDELAS @27W 2700K

VERTICAL ANGLES	HORIZONTAL ANGLES				
	0	22.5	45	67.5	90
0	1366.8	1364.7	1366.4	1365.2	1365.6
5	1355.5	1346.9	1350.3	1348.0	1349.3
10	1327.1	1312.0	1316.6	1313.7	1315.3
15	1281.8	1260.6	1267.5	1264.0	1265.5
20	1221.7	1195.7	1204.0	1199.2	1200.4
25	1147.8	1117.7	1127.0	1121.5	1123.4
30	1063.1	1029.9	1039.8	1033.7	1036.1
35	970.0	934.0	944.2	937.5	940.0
40	871.4	834.4	844.4	837.5	839.9
45	769.0	728.7	739.9	732.4	735.2
50	651.6	606.6	620.1	612.7	615.9
55	519.8	475.2	492.1	486.2	490.0
60	382.9	335.8	353.8	349.2	353.8
65	242.8	199.0	214.4	211.9	216.5
70	122.4	93.4	102.9	99.6	101.2
75	52.3	39.0	43.5	41.6	41.7
80	22.1	18.0	19.7	19.1	19.2
85	9.5	6.0	7.3	6.8	6.7
90	0.0	0.0	0.0	0.0	0.0

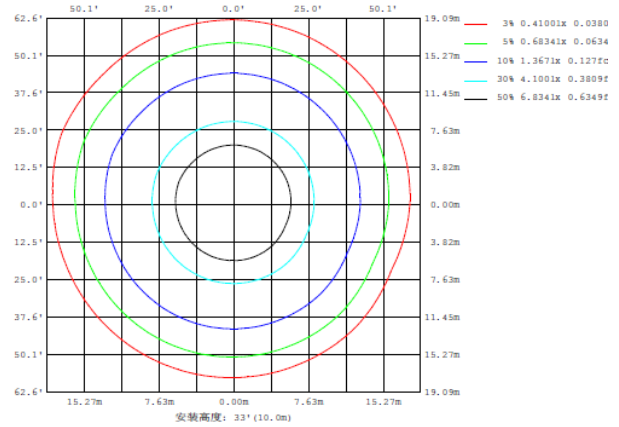
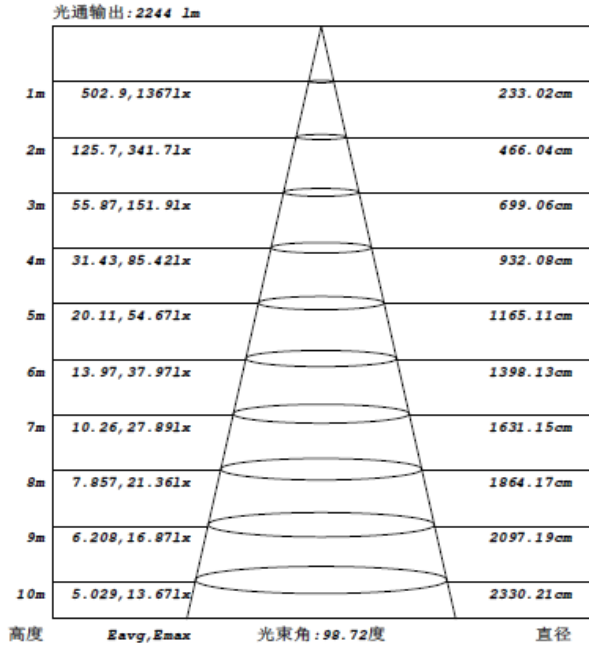


## TEST REPORT

### RESULTS OF TESTS (CONT'D)

#### ILLUMINATION PLOTS@ 27W 2700K

#### ILLUMINANCE - CONE OF LIGHT                      ISOILLUMINATION PLOT



#### ZONAL LUMEN SUMMARY AND PERCENTAGES AT 25°C

ZONE	LUMENS	% LUMINAIRE
0-30	1025	33.4
0-60	2726	88.8
0-80	3058	99.6
0-90	3070	100.0
0-120	3070	100.0

## TEST REPORT

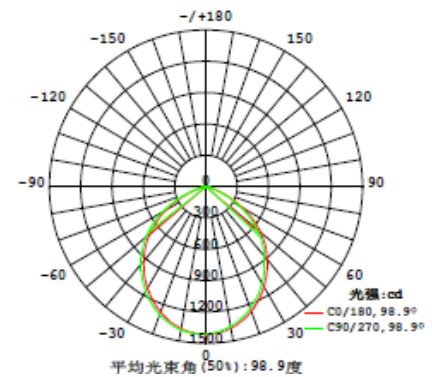
### RESULTS OF TESTS (CONT'D)

#### PHOTOMETRIC AND ELECTRICAL MEASUREMENTS – DISTRIBUTION METHOD@27W 3000K

INTERTEK SAMPLE NO.	BASE ORIENTATION	INPUT VOLTAGE (Vac)	INPUT CURRENT (MA)	INPUT POWER (WATTS)	INPUT POWER FACTOR	ABSOLUTE LUMINOUS FLUX (LUMENS)	LUMEN EFFICACY (LUMENS PER WATT)
1230110-04-003	/	120	221	26.25	0.989	3180.9	121.18

#### INTENSITY (CANDLEPOWER) SUMMARY AT 25°C – CANDELAS @ 27W 3000K

VERTICAL ANGLES	HORIZONTAL ANGLES					
	Angle	0	22.5	45	67.5	90
0	1414.6	1415.2	1412.3	1414.1	1411.4	
5	1404.4	1400.8	1395.6	1396.6	1393.9	
10	1376.2	1369.3	1361.8	1361.8	1358.4	
15	1330.2	1320.5	1311.3	1309.9	1307.2	
20	1269.2	1256.2	1245.5	1243.3	1240.5	
25	1195.2	1178.3	1168.1	1163.9	1161.1	
30	1108.3	1090.2	1078.2	1073.0	1071.3	
35	1012.2	993.7	980.6	974.3	972.5	
40	910.4	892.0	877.5	870.5	868.9	
45	804.6	785.1	770.2	761.4	760.3	
50	682.2	661.7	646.9	637.7	637.3	
55	548.2	527.4	513.3	505.2	505.5	
60	405.2	385.6	372.0	364.3	365.9	
65	258.8	240.2	227.3	221.4	223.2	
70	131.6	118.4	109.2	104.0	104.4	
75	53.7	49.7	44.9	43.2	43.0	
80	23.1	21.6	20.5	19.8	19.8	
85	9.9	8.5	7.6	7.1	6.9	
90	0.0	0.0	0.0	0.0	0.0	

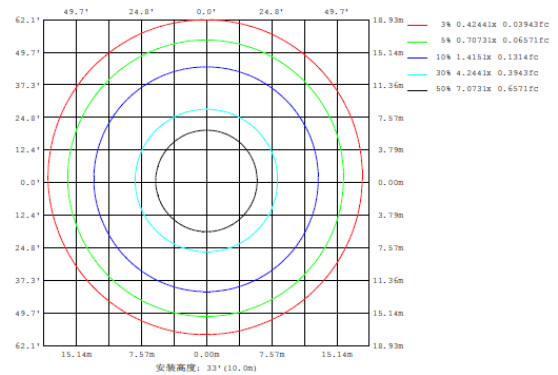
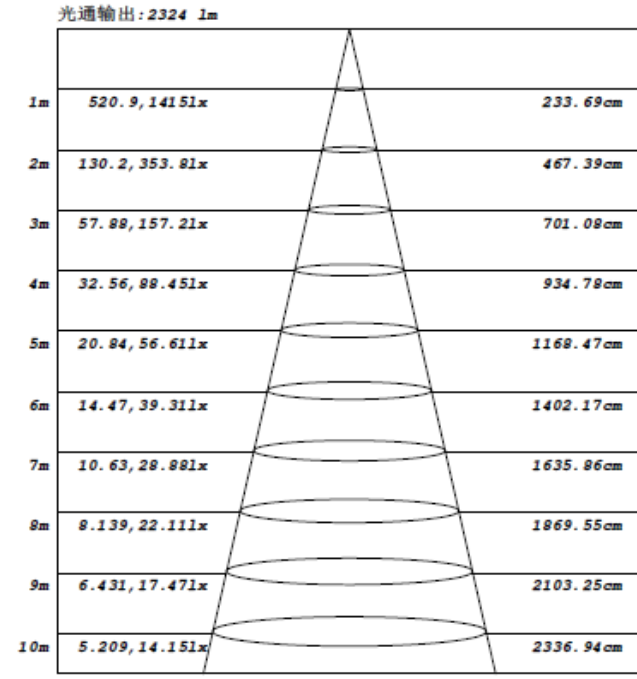


## TEST REPORT

### RESULTS OF TESTS (CONT'D)

#### ILLUMINATION PLOTS@27W 3000K

#### ILLUMINANCE - CONE OF LIGHT ISOILLUMINATION PLOT



注: 曲线为灯具在不同投射距离下的照射区域及区域内平均照度。

#### ZONAL LUMEN SUMMARY AND PERCENTAGES AT 25°C

ZONE	LUMENS	% LUMINAIRE
0-30	1061	33.4
0-60	2825	88.8
0-80	3169	99.6
0-90	3181	100.0
0-120	3181	100.0

## TEST REPORT

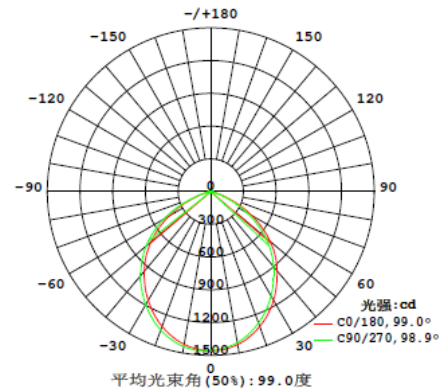
### RESULTS OF TESTS (CONT'D)

#### PHOTOMETRIC AND ELECTRICAL MEASUREMENTS – DISTRIBUTION METHOD@27W 3500K

INTERTEK SAMPLE NO.	BASE ORIENTATION	INPUT VOLTAGE (Vac)	INPUT CURRENT (MA)	INPUT POWER (WATTS)	INPUT POWER FACTOR	ABSOLUTE LUMINOUS FLUX (LUMENS)	LUMEN EFFICACY (LUMENS PER WATT)
1230110-04-003	/	120	216	25.71	0.989	3285.5	127.79

#### INTENSITY (CANDLEPOWER) SUMMARY AT 25°C – CANDELAS @ 27W 3500K

VERTICAL ANGLES	HORIZONTAL ANGLES					
	Angle	0	22.5	45	67.5	90
0	1457.7	1458.2	1457.1	1456.1	1458.4	
5	1449.2	1445.4	1441.7	1439.3	1439.0	
10	1421.8	1415.0	1409.0	1403.1	1403.3	
15	1376.7	1366.0	1358.5	1351.3	1349.9	
20	1314.3	1301.1	1290.6	1282.9	1280.2	
25	1238.3	1221.9	1210.7	1202.1	1198.1	
30	1150.1	1130.7	1119.4	1109.3	1105.6	
35	1051.6	1030.5	1018.4	1007.9	1003.9	
40	947.1	925.7	911.9	901.4	896.3	
45	838.1	816.1	799.6	789.4	784.2	
50	713.0	690.1	673.3	661.2	656.7	
55	575.2	551.9	531.1	524.0	519.7	
60	429.3	407.5	390.3	379.3	376.1	
65	276.8	256.1	240.5	231.3	229.4	
70	141.6	126.7	115.7	108.7	107.0	
75	57.2	52.4	47.6	44.1	43.6	
80	24.0	22.4	21.3	20.5	20.4	
85	10.3	8.8	7.9	7.3	7.1	
90	0.0	0.0	0.0	0.0	0.0	

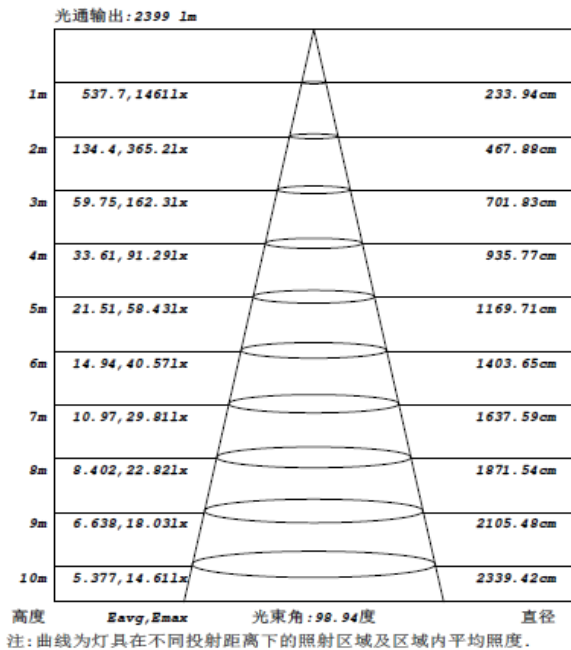


## TEST REPORT

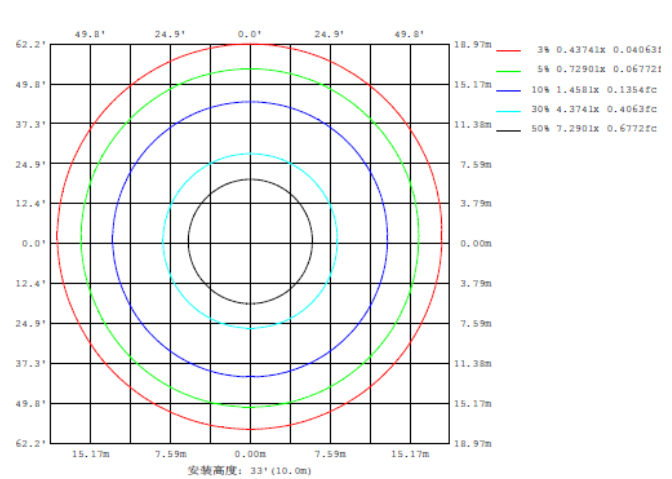
### RESULTS OF TESTS (CONT'D)

#### ILLUMINATION PLOTS@ 27W 3500K

#### ILLUMINANCE - CONE OF LIGHT



#### ISOILLUMINATION PLOT



### ZONAL LUMEN SUMMARY AND PERCENTAGES AT 25°C

ZONE	LUMENS	% LUMINAIRE
0-30	1095	33.3
0-60	2916	88.8
0-80	3273	99.6
0-90	3285	100.0
0-120	3285	100.0



## TEST REPORT

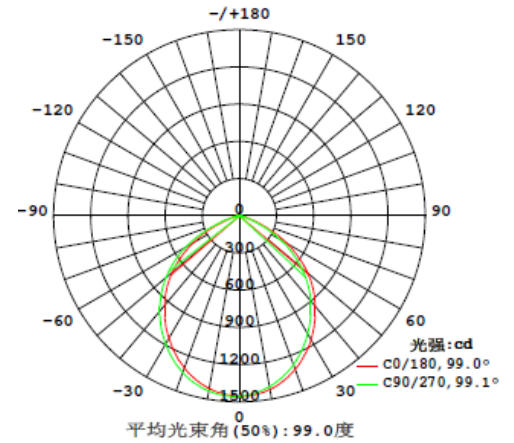
### RESULTS OF TESTS (CONT'D)

#### PHOTOMETRIC AND ELECTRICAL MEASUREMENTS – DISTRIBUTION METHOD@27W 4000K

INTERTEK SAMPLE NO.	BASE ORIENTATION	INPUT VOLTAGE (Vac)	INPUT CURRENT (MA)	INPUT POWER (WATTS)	INPUT POWER FACTOR	ABSOLUTE LUMINOUS FLUX (LUMENS)	LUMEN EFFICACY (LUMENS PER WATT)
1230110-04-003	/	120	218	25.93	0.989	3279.9	126.49

#### INTENSITY (CANDLEPOWER) SUMMARY AT 25°C – CANDELAS @27W 4000K

VERTICAL ANGLES	Angle	HORIZONTAL ANGLES				
		0	22.5	45	67.5	90
	0	1453.2	1450.9	1452.5	1452.9	1453.1
	5	1445.4	1440.4	1437.4	1435.4	1434.6
	10	1420.2	1412.1	1403.9	1399.9	1397.8
	15	1376.5	1364.1	1354.2	1347.1	1344.8
	20	1315.5	1302.6	1288.7	1279.2	1275.3
	25	1241.0	1225.5	1209.9	1198.8	1193.4
	30	1155.0	1136.1	1119.7	1107.3	1100.5
	35	1057.1	1037.3	1019.5	1006.2	999.8
	40	952.2	932.6	913.7	900.7	893.3
	45	843.8	823.2	801.9	788.9	781.5
	50	720.0	697.5	675.8	661.9	654.5
	55	583.5	560.4	539.1	525.4	517.8
	60	439.2	416.5	395.2	381.7	374.5
	65	286.0	264.2	244.8	233.8	228.3
	70	147.5	131.3	118.0	110.2	106.6
	75	58.7	52.6	48.1	44.3	44.0
	80	24.4	22.7	21.3	20.6	20.3
	85	10.4	8.9	7.9	7.3	7.1
	90	0.0	0.0	0.0	0.0	0.0

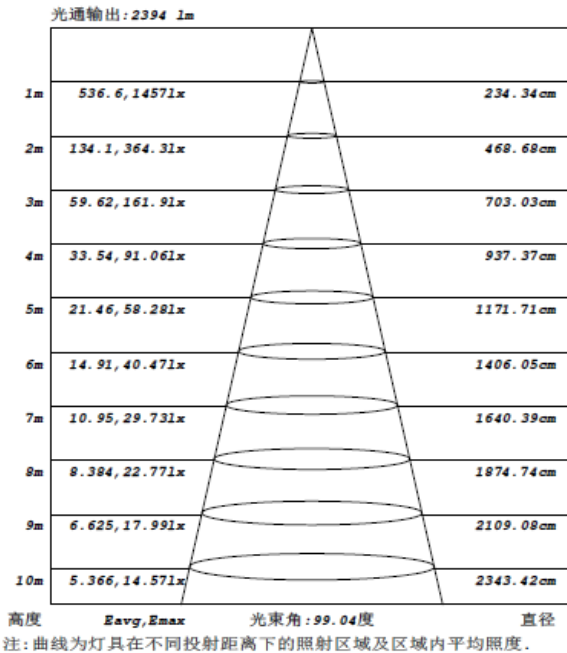


## TEST REPORT

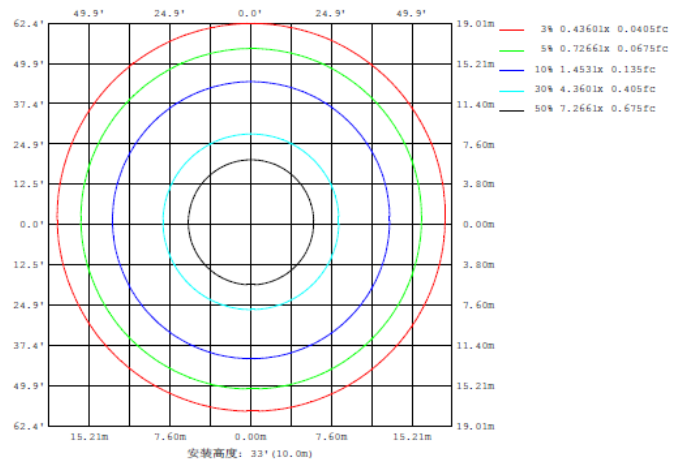
### RESULTS OF TESTS (CONT'D)

#### ILLUMINATION PLOTS@ 27W 4000K

##### ILLUMINANCE - CONE OF LIGHT



##### ISOILLUMINATION PLOT



#### ZONAL LUMEN SUMMARY AND PERCENTAGES AT 25°C

ZONE	LUMENS	% LUMINAIRE
0-30	1092	33.3
0-60	2911	88.7
0-80	3268	99.6
0-90	3280	100.0
0-120	3280	100.0

## TEST REPORT

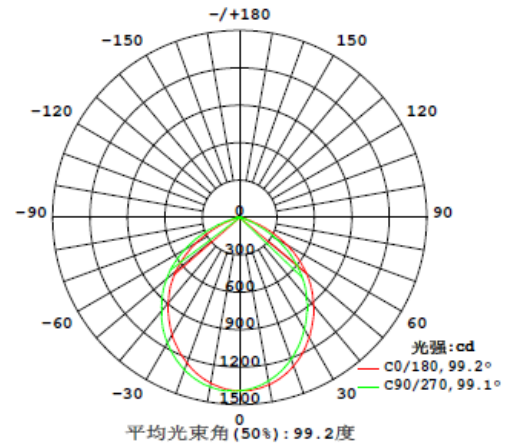
### RESULTS OF TESTS (CONT'D)

#### PHOTOMETRIC AND ELECTRICAL MEASUREMENTS – DISTRIBUTION METHOD@27W 5000K

INTERTEK SAMPLE NO.	BASE ORIENTATION	INPUT VOLTAGE (Vac)	INPUT CURRENT (MA)	INPUT POWER (WATTS)	INPUT POWER FACTOR	ABSOLUTE LUMINOUS FLUX (LUMENS)	LUMEN EFFICACY (LUMENS PER WATT)
1230110-04-003	/	120	224	26.60	0.990	3145.3	118.24

#### INTENSITY (CANDLEPOWER) SUMMARY AT 25°C – CANDELAS @ 5000K

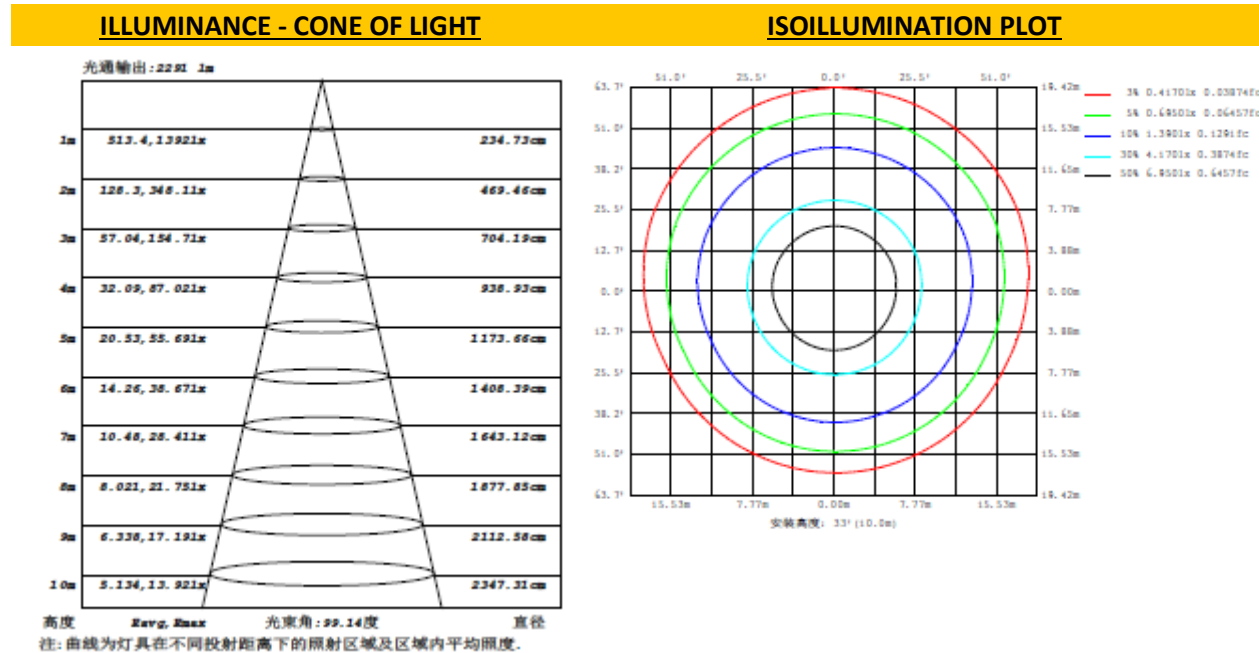
VERTICAL ANGLES	Angle	HORIZONTAL ANGLES				
		0	22.5	45	67.5	90
	0	1389.3	1389.5	1390.4	1388.7	1389.1
	5	1382.4	1376.4	1374.4	1369.0	1368.1
	10	1359.8	1345.8	1340.4	1332.3	1330.0
	15	1320.5	1298.8	1291.2	1280.0	1275.8
	20	1265.2	1237.9	1225.9	1213.3	1207.0
	25	1195.1	1163.0	1148.5	1134.1	1127.2
	30	1113.1	1076.8	1060.4	1044.6	1035.9
	35	1020.6	981.4	963.3	946.3	937.3
	40	921.2	880.3	860.8	844.5	835.5
	45	816.2	772.6	752.6	734.4	726.1
	50	699.7	650.9	629.6	611.3	601.8
	55	571.1	520.3	499.2	481.4	471.1
	60	434.3	380.8	359.0	340.7	330.4
	65	286.4	234.3	214.9	200.6	192.5
	70	149.1	110.5	98.3	89.7	85.7
	75	58.3	43.2	38.9	34.8	33.9
	80	23.7	19.1	17.7	17.0	16.8
	85	10.1	6.3	5.2	4.8	4.6
	90	0.0	0.0	0.0	0.0	0.0



## TEST REPORT

### RESULTS OF TESTS (CONT'D)

### ILLUMINATION PLOTS@ 27W 5000K



### ZONAL LUMEN SUMMARY AND PERCENTAGES AT 25°C @ 5000K

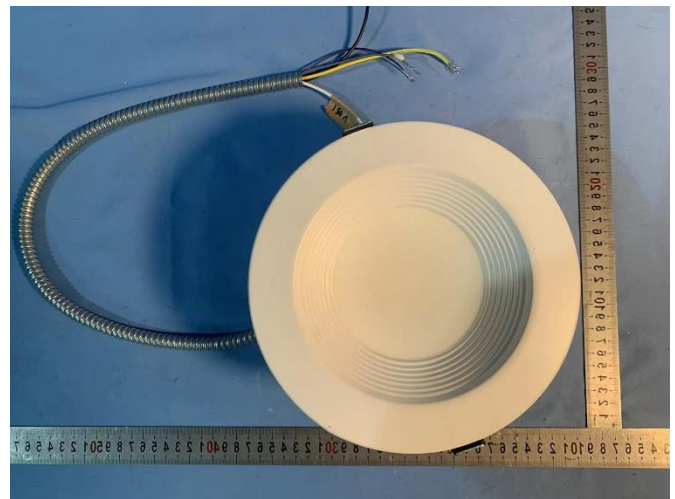
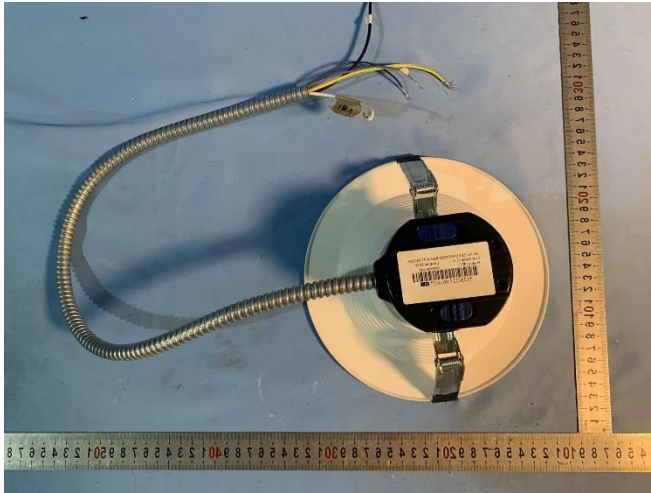
ZONE	LUMENS	% LUMINAIRE
0-30	1044	33.2
0-60	2786	88.6
0-80	3133	99.6
0-90	3145	100.0
0-120	3145	100.0

## TEST REPORT

### PICTURES

Overview

FXF01002-A001



### CONCLUSION

The results tabulated in this report are representative of the actual test samples submitted for this report only. The data is provided to the client for further evaluation. Compliance to the referenced specification requirements was not determined in this report.

In Charge of Tests:

Judy Hu  
Project Engineer  
Lighting Division

Report Reviewed By:

Meng Wang  
Reviewer  
Lighting Division

Attachment: None < or include filename >

### REVISION HISTORY

JOB NUMBER	DATE OF REVISION	PROJECT HANDLER	REVIEWED BY
Description of Change:	None		